



Red Hat OpenStack Platform 16.1

Command Line Interface Reference

Command-line clients for Red Hat OpenStack Platform

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Command-line clients for Red Hat OpenStack Platform

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Abstract

A reference to the commands available to the unified OpenStack command-line client.

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MAKING OPEN SOURCE MORE INCLUSIVE

Red Hat is committed to replacing problematic language in our code, documentation, and web properties. We are beginning with these four terms: master, slave, blacklist, and whitelist. Because of the enormity of this endeavor, these changes will be implemented gradually over several upcoming releases. For more details, see [our CTO Chris Wright's message](#).

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CHAPTER 1. THE OPENSTACK CLIENT

The **openstack** client is a common OpenStack command-line interface (CLI). This chapter documents the main options for **openstack** version 4.0.1.

Command-line interface to the OpenStack APIs

Usage:

```
openstack [--version] [-v | -q] [--log-file LOG_FILE] [-h] [--debug]
  [--os-cloud <cloud-config-name>]
  [--os-region-name <auth-region-name>]
  [--os-cacert <ca-bundle-file>] [--os-cert <certificate-file>]
  [--os-key <key-file>] [--verify | --insecure]
  [--os-default-domain <auth-domain>]
  [--os-interface <interface>]
  [--os-service-provider <service_provider>]
  [--os-remote-project-name <remote_project_name> | --os-remote-project-id
<remote_project_id>]
  [--os-remote-project-domain-name <remote_project_domain_name> | --os-remote-project-
domain-id <remote_project_domain_id>]
  [--timing] [--os-beta-command] [--os-profile hmac-key]
  [--os-compute-api-version <compute-api-version>]
  [--os-identity-api-version <identity-api-version>]
  [--os-image-api-version <image-api-version>]
  [--os-network-api-version <network-api-version>]
  [--os-object-api-version <object-api-version>]
  [--os-volume-api-version <volume-api-version>]
  [--os-queues-api-version <queues-api-version>]
  [--os-database-api-version <database-api-version>]
  [--os-tripleoclient-api-version <tripleoclient-api-version>]
  [--os-data-processing-api-version <data-processing-api-version>]
  [--os-data-processing-url OS_DATA_PROCESSING_URL]
  [--os-loadbalancer-api-version <loadbalancer-api-version>]
  [--os-workflow-api-version <workflow-api-version>]
  [--os-container-infra-api-version <container-infra-api-version>]
  [--os-baremetal-api-version <baremetal-api-version>]
  [--inspector-api-version INSPECTOR_API_VERSION]
  [--inspector-url INSPECTOR_URL]
  [--os-orchestration-api-version <orchestration-api-version>]
  [--os-dns-api-version <dns-api-version>]
  [--os-key-manager-api-version <key-manager-api-version>]
  [--os-metrics-api-version <metrics-api-version>]
  [--os-alarms-api-version <alarms-api-version>]
  [--os-auth-type <auth-type>] [--os-user-id <auth-user-id>]
  [--os-project-id <auth-project-id>]
  [--os-endpoint <auth-endpoint>]
  [--os-auth-url <auth-auth-url>]
  [--os-consumer-key <auth-consumer-key>]
  [--os-consumer-secret <auth-consumer-secret>]
  [--os-access-key <auth-access-key>]
  [--os-access-secret <auth-access-secret>]
  [--os-system-scope <auth-system-scope>]
  [--os-domain-id <auth-domain-id>]
  [--os-domain-name <auth-domain-name>]
  [--os-project-name <auth-project-name>]
```

```

[--os-project-domain-id <auth-project-domain-id>]
[--os-project-domain-name <auth-project-domain-name>]
[--os-trust-id <auth-trust-id>]
[--os-username <auth-username>]
[--os-user-domain-id <auth-user-domain-id>]
[--os-user-domain-name <auth-user-domain-name>]
[--os-application-credential-secret <auth-application-credential-secret>]
[--os-application-credential-id <auth-application-credential-id>]
[--os-application-credential-name <auth-application-credential-name>]
[--os-passcode <auth-passcode>]
[--os-identity-provider <auth-identity-provider>]
[--os-protocol <auth-protocol>]
[--os-access-token <auth-access-token>]
[--os-password <auth-password>]
[--os-client-id <auth-client-id>]
[--os-client-secret <auth-client-secret>]
[--os-openid-scope <auth-openid-scope>]
[--os-access-token-endpoint <auth-access-token-endpoint>]
[--os-discovery-endpoint <auth-discovery-endpoint>]
[--os-access-token-type <auth-access-token-type>]
[--os-user <auth-user>] [--os-token <auth-token>]
[--os-auth-methods <auth-auth-methods>]
[--os-redirect-uri <auth-redirect-uri>]
[--os-code <auth-code>]
[--os-default-domain-id <auth-default-domain-id>]
[--os-default-domain-name <auth-default-domain-name>]
[--os-roles <auth-roles>]
[--os-identity-provider-url <auth-identity-provider-url>]
[--os-service-provider-endpoint <auth-service-provider-endpoint>]
[--os-service-provider-entity-id <auth-service-provider-entity-id>]
[--os-aodh-endpoint <auth-aodh-endpoint>]

```

Table 1.1. Command arguments

Value	Summary
--version	Show program's version number and exit
-v, --verbose	Increase verbosity of output. can be repeated.
-q, --quiet	Suppress output except warnings and errors.
--log-file LOG_FILE	Specify a file to log output. disabled by default.
-h, --help	Show help message and exit.
--debug	Show tracebacks on errors.
--os-cloud <cloud-config-name>	Cloud name in clouds.yaml (env: os_cloud)
--os-region-name <auth-region-name>	Authentication region name (env: os_region_name)

Value	Summary
<code>--os-cacert <ca-bundle-file></code>	Ca certificate bundle file (env: <code>os_cacert</code>)
<code>--os-cert <certificate-file></code>	Client certificate bundle file (env: <code>os_cert</code>)
<code>--os-key <key-file></code>	Client certificate key file (env: <code>os_key</code>)
<code>--verify</code>	Verify server certificate (default)
<code>--insecure</code>	Disable server certificate verification
<code>--os-default-domain <auth-domain></code>	Default domain id, default=default. (env: <code>OS_DEFAULT_DOMAIN</code>)
<code>--os-interface <interface></code>	Select an interface type. valid interface types: [admin, public, internal]. default=public, (Env: <code>OS_INTERFACE</code>)
<code>--os-service-provider <service_provider></code>	Authenticate with and perform the command on a service provider using Keystone-to-keystone federation. Must also specify the remote project option.
<code>--os-remote-project-name <remote_project_name></code>	Project name when authenticating to a service provider if using Keystone-to-Keystone federation.
<code>--os-remote-project-id <remote_project_id></code>	Project id when authenticating to a service provider if using Keystone-to-Keystone federation.
<code>--os-remote-project-domain-name <remote_project_domain_name></code>	Domain name of the project when authenticating to a service provider if using Keystone-to-Keystone federation.
<code>--os-remote-project-domain-id <remote_project_domain_id></code>	Domain id of the project when authenticating to a service provider if using Keystone-to-Keystone federation.
<code>--timing</code>	Print api call timing info
<code>--os-beta-command</code>	Enable beta commands which are subject to change
<code>--os-profile hmac-key</code>	Hmac key for encrypting profiling context data
<code>--os-compute-api-version <compute-api-version></code>	Compute api version, default=2.1 (env: <code>OS_COMPUTE_API_VERSION</code>)
<code>--os-identity-api-version <identity-api-version></code>	Identity api version, default=3 (env: <code>OS_IDENTITY_API_VERSION</code>)

Value	Summary
<code>--os-image-api-version <image-api-version></code>	Image api version, default=2 (env: OS_IMAGE_API_VERSION)
<code>--os-network-api-version <network-api-version></code>	Network api version, default=2.0 (env: OS_NETWORK_API_VERSION)
<code>--os-object-api-version <object-api-version></code>	Object api version, default=1 (env: OS_OBJECT_API_VERSION)
<code>--os-volume-api-version <volume-api-version></code>	Volume api version, default=3 (env: OS_VOLUME_API_VERSION)
<code>--os-queues-api-version <queues-api-version></code>	Queues api version, default=2 (env: OS_QUEUES_API_VERSION)
<code>--os-database-api-version <database-api-version></code>	Database api version, default=1 (env: OS_DATABASE_API_VERSION)
<code>--os-tripleoclient-api-version <tripleoclient-api-version></code>	Tripleo client api version, default=1 (env: OS_TRIPLEOCLIENT_API_VERSION)
<code>--os-data-processing-api-version <data-processing-api-version></code>	Data processing api version, default=1.1 (env: OS_DATA_PROCESSING_API_VERSION)
<code>--os-data-processing-url OS_DATA_PROCESSING_URL</code>	Data processing api url, (env: OS_DATA_PROCESSING_API_URL)
<code>--os-loadbalancer-api-version <loadbalancer-api-version></code>	Osc plugin api version, default=2.0 (env: OS_LOADBALANCER_API_VERSION)
<code>--os-workflow-api-version <workflow-api-version></code>	Workflow api version, default=2 (env: OS_WORKFLOW_API_VERSION)
<code>--os-container-infra-api-version <container-infra-api-version></code>	Container-infra api version, default=1 (env: OS_CONTAINER_INFRA_API_VERSION)
<code>--os-baremetal-api-version <baremetal-api-version></code>	Bare metal api version, default="latest" (the maximum version supported by both the client and the server). (Env: OS_BAREMETAL_API_VERSION)
<code>--inspector-api-version INSPECTOR_API_VERSION</code>	Inspector api version, only 1 is supported now (env: INSPECTOR_VERSION).
<code>--inspector-url INSPECTOR_URL</code>	Inspector url, defaults to localhost (env: INSPECTOR_URL).

Value	Summary
<code>--os-orchestration-api-version <orchestration-api-version></code>	Orchestration api version, default=1 (env: OS_ORCHESTRATION_API_VERSION)
<code>--os-dns-api-version <dns-api-version></code>	Dns api version, default=2 (env: os_dns_api_version)
<code>--os-key-manager-api-version <key-manager-api-version></code>	Barbican api version, default=1 (env: OS_KEY_MANAGER_API_VERSION)
<code>--os-metrics-api-version <metrics-api-version></code>	Metrics api version, default=1 (env: OS_METRICS_API_VERSION)
<code>--os-alarming-api-version <alarming-api-version></code>	Queues api version, default=2 (env: OS_ALARMING_API_VERSION)
<code>--os-auth-type <auth-type></code>	Select an authentication type. available types: noauth, v3oauth1, v3applicationcredential, v3totp, v3oidcaccessstoken, v3password, v3oidcclientcredentials, gnocchi-basic, admin_token, v2token, v3multifactor, v3oidcauthcode, none, v1password, token, v3token, v3tokenlessauth, v3oidcpassword, password, gnocchi-noauth, v3samlpassword, v3adfspassword, aodh-noauth, v2password. Default: selected based on --os-username/--os-token (Env: OS_AUTH_TYPE)
<code>--os-user-id <auth-user-id></code>	With noauth: user id with v3applicationcredential: User ID With v3totp: User ID With v3password: User ID With password: User id With gnocchi-noauth: User ID With aodh-noauth: User ID With v2password: User ID to login with (Env: OS_USER_ID)
<code>--os-project-id <auth-project-id></code>	With noauth: project id with v3applicationcredential: Project ID to scope to With v3totp: Project ID to scope to With v3oidcaccessstoken: Project ID to scope to With v3password: Project ID to scope to With v3oidcclientcredentials: Project ID to scope to With v3multifactor: Project ID to scope to With v3oidcauthcode: Project ID to scope to With token: Project ID to scope to With v3token: Project ID to scope to With v3tokenlessauth: Project ID to scope to With v3oidcpassword: Project ID to scope to With password: Project ID to scope to With gnocchi-noauth: Project ID With v3samlpassword: Project ID to scope to With v3adfspassword: Project ID to scope to With aodh-noauth: Project ID (Env: OS_PROJECT_ID)

Value	Summary
<code>--os-endpoint <auth-endpoint></code>	With noauth: cinder endpoint with gnocchi-basic: Gnocchi endpoint With admin_token: The endpoint that will always be used With none: The endpoint that will always be used With gnocchi-noauth: Gnocchi endpoint (Env: OS_ENDPOINT)
<code>--os-auth-url <auth-auth-url></code>	With v3oauth1: authentication url with v3applicationcredential: Authentication URL With v3totp: Authentication URL With v3oidcacesstoken: Authentication URL With v3password: Authentication URL With v3oidcclientcredentials: Authentication URL With v2token: Authentication URL With v3multifactor: Authentication URL With v3oidcauthcode: Authentication URL With v1password: Authentication URL With token: Authentication URL With v3token: Authentication URL With v3tokenlessauth: Authentication URL With v3oidcpassword: Authentication URL With password: Authentication URL With v3samlpasword: Authentication URL With v3adfspasword: Authentication URL With v2password: Authentication URL (Env: OS_AUTH_URL)
<code>--os-consumer-key <auth-consumer-key></code>	With v3oauth1: oauth consumer id/key (env: OS_CONSUMER_KEY)
<code>--os-consumer-secret <auth-consumer-secret></code>	With v3oauth1: oauth consumer secret (env: OS_CONSUMER_SECRET)
<code>--os-access-key <auth-access-key></code>	With v3oauth1: oauth access key (env: os_access_key)
<code>--os-access-secret <auth-access-secret></code>	With v3oauth1: oauth access secret (env: OS_ACCESS_SECRET)
<code>--os-system-scope <auth-system-scope></code>	With v3applicationcredential: scope for system operations With v3totp: Scope for system operations With v3oidcacesstoken: Scope for system operations With v3password: Scope for system operations With v3oidcclientcredentials: Scope for system operations With v3multifactor: Scope for system operations With v3oidcauthcode: Scope for system operations With token: Scope for system operations With v3token: Scope for system operations With v3oidcpassword: Scope for system operations With password: Scope for system operations With v3samlpasword: Scope for system operations With v3adfspasword: Scope for system operations (Env: OS_SYSTEM_SCOPE)

Value	Summary
<p><code>--os-domain-id <auth-domain-id></code></p>	<p>With v3applicationcredential: domain id to scope to With v3totp: Domain ID to scope to With v3oidcaccessstoken: Domain ID to scope to With v3password: Domain ID to scope to With v3oidcclientcredentials: Domain ID to scope to With v3multifactor: Domain ID to scope to With v3oidcauthcode: Domain ID to scope to With token: Domain ID to scope to With v3token: Domain ID to scope to With v3tokenlessauth: Domain ID to scope to With v3oidcpassword: Domain ID to scope to With password: Domain ID to scope to With v3samlpasword: Domain ID to scope to With v3adfspasword: Domain ID to scope to (Env: OS_DOMAIN_ID)</p>
<p><code>--os-domain-name <auth-domain-name></code></p>	<p>With v3applicationcredential: domain name to scope to With v3totp: Domain name to scope to With v3oidcaccessstoken: Domain name to scope to With v3password: Domain name to scope to With v3oidcclientcredentials: Domain name to scope to With v3multifactor: Domain name to scope to With v3oidcauthcode: Domain name to scope to With token: Domain name to scope to With v3token: Domain name to scope to With v3tokenlessauth: Domain name to scope to With v3oidcpassword: Domain name to scope to With password: Domain name to scope to With v3samlpasword: Domain name to scope to With v3adfspasword: Domain name to scope to (Env: OS_DOMAIN_NAME)</p>
<p><code>--os-project-name <auth-project-name></code></p>	<p>With v3applicationcredential: project name to scope to With v3totp: Project name to scope to With v3oidcaccessstoken: Project name to scope to With v3password: Project name to scope to With v3oidcclientcredentials: Project name to scope to With v3multifactor: Project name to scope to With v3oidcauthcode: Project name to scope to With v1password: Swift account to use With token: Project name to scope to With v3token: Project name to scope to With v3tokenlessauth: Project name to scope to With v3oidcpassword: Project name to scope to With password: Project name to scope to With v3samlpasword: Project name to scope to With v3adfspasword: Project name to scope to (Env: OS_PROJECT_NAME)</p>

Value	Summary
--os-project-domain-id <auth-project-domain-id>	<p>With v3applicationcredential: domain id containing project With v3totp: Domain ID containing project With v3oidcaccessstoken: Domain ID containing project With v3password: Domain ID containing project With v3oidcclientcredentials: Domain ID containing project With v3multifactor: Domain ID containing project With v3oidcauthcode: Domain ID containing project With token: Domain ID containing project With v3token: Domain ID containing project With v3tokenlessauth: Domain ID containing project With v3oidcpassword: Domain ID containing project With password: Domain ID containing project With v3samlpassword: Domain ID containing project With v3adfspassword: Domain ID containing project (Env: OS_PROJECT_DOMAIN_ID)</p>
--os-project-domain-name <auth-project-domain-name>	<p>With v3applicationcredential: domain name containing project With v3totp: Domain name containing project With v3oidcaccessstoken: Domain name containing project With v3password: Domain name containing project With v3oidcclientcredentials: Domain name containing project With v3multifactor: Domain name containing project With v3oidcauthcode: Domain name containing project With token: Domain name containing project With v3token: Domain name containing project With v3tokenlessauth: Domain name containing project With v3oidcpassword: Domain name containing project With password: Domain name containing project With v3samlpassword: Domain name containing project With v3adfspassword: Domain name containing project (Env: OS_PROJECT_DOMAIN_NAME)</p>
--os-trust-id <auth-trust-id>	<p>With v3applicationcredential: trust id with v3totp: Trust ID With v3oidcaccessstoken: Trust ID With v3password: Trust ID With v3oidcclientcredentials: Trust ID With v2token: Trust ID With v3multifactor: Trust ID With v3oidcauthcode: Trust ID With token: Trust ID With v3token: Trust ID With v3oidcpassword: Trust ID With password: Trust ID With v3samlpassword: Trust ID With v3adfspassword: Trust ID With v2password: Trust ID (Env: OS_TRUST_ID)</p>

Value	Summary
--os-username <auth-username>	With v3applicationcredential: username with v3totp: Username With v3password: Username With v1password: Username to login with With v3oidcpassword: Username With password: Username With v3samlpasword: Username With v3adfspassword: Username With v2password: Username to login with (Env: OS_USERNAME)
--os-user-domain-id <auth-user-domain-id>	With v3applicationcredential: user's domain id with v3totp: User's domain id With v3password: User's domain id With password: User's domain id (Env: OS_USER_DOMAIN_ID)
--os-user-domain-name <auth-user-domain-name>	With v3applicationcredential: user's domain name with v3totp: User's domain name With v3password: User's domain name With password: User's domain name (Env: OS_USER_DOMAIN_NAME)
--os-application-credential-secret <auth-application-credential-secret>	With v3applicationcredential: application credential auth secret (Env: OS_APPLICATION_CREDENTIAL_SECRET)
--os-application-credential-id <auth-application-credential-id>	With v3applicationcredential: application credential ID (Env: OS_APPLICATION_CREDENTIAL_ID)
--os-application-credential-name <auth-application-credential-name>	With v3applicationcredential: application credential name (Env: OS_APPLICATION_CREDENTIAL_NAME)
--os-passcode <auth-passcode>	With v3totp: user's totp passcode (env: os_passcode)
--os-identity-provider <auth-identity-provider>	With v3oidcaccessstoken: identity provider's name with v3oidcclientcredentials: Identity Provider's name With v3oidcauthcode: Identity Provider's name With v3oidcpassword: Identity Provider's name With v3samlpasword: Identity Provider's name With v3adfspassword: Identity Provider's name (Env: OS_IDENTITY_PROVIDER)
--os-protocol <auth-protocol>	With v3oidcaccessstoken: protocol for federated plugin With v3oidcclientcredentials: Protocol for federated plugin With v3oidcauthcode: Protocol for federated plugin With v3oidcpassword: Protocol for federated plugin With v3samlpasword: Protocol for federated plugin With v3adfspassword: Protocol for federated plugin (Env: OS_PROTOCOL)

Value	Summary
<code>--os-access-token <auth-access-token></code>	With <code>v3oidcaccess token</code> : oAuth 2.0 access token (env: <code>OS_ACCESS_TOKEN</code>)
<code>--os-password <auth-password></code>	With <code>v3password</code> : user's password with <code>v1password</code> : Password to use With <code>v3oidcpassword</code> : Password With <code>password</code> : User's password With <code>v3samlpassword</code> : Password With <code>v3adfspassword</code> : Password With <code>v2password</code> : Password to use (Env: <code>OS_PASSWORD</code>)
<code>--os-client-id <auth-client-id></code>	With <code>v3oidcclientcredentials</code> : oAuth 2.0 client id with <code>v3oidcauthcode</code> : OAuth 2.0 Client ID With <code>v3oidcpassword</code> : OAuth 2.0 Client ID (Env: <code>OS_CLIENT_ID</code>)
<code>--os-client-secret <auth-client-secret></code>	With <code>v3oidcclientcredentials</code> : oAuth 2.0 client secret With <code>v3oidcauthcode</code> : OAuth 2.0 Client Secret With <code>v3oidcpassword</code> : OAuth 2.0 Client Secret (Env: <code>OS_CLIENT_SECRET</code>)
<code>--os-openid-scope <auth-openid-scope></code>	With <code>v3oidcclientcredentials</code> : openid connect scope that is requested from authorization server. Note that the OpenID Connect specification states that "openid" must be always specified. With <code>v3oidcauthcode</code> : OpenID Connect scope that is requested from authorization server. Note that the OpenID Connect specification states that "openid" must be always specified. With <code>v3oidcpassword</code> : OpenID Connect scope that is requested from authorization server. Note that the OpenID Connect specification states that "openid" must be always specified. (Env: <code>OS_OPENID_SCOPE</code>)
<code>--os-access-token-endpoint <auth-access-token-endpoint></code>	With <code>v3oidcclientcredentials</code> : openid connect provider Token Endpoint. Note that if a discovery document is being passed this option will override the endpoint provided by the server in the discovery document. With <code>v3oidcauthcode</code> : OpenID Connect Provider Token Endpoint. Note that if a discovery document is being passed this option will override the endpoint provided by the server in the discovery document. With <code>v3oidcpassword</code> : OpenID Connect Provider Token Endpoint. Note that if a discovery document is being passed this option will override the endpoint provided by the server in the discovery document. (Env: <code>OS_ACCESS_TOKEN_ENDPOINT</code>)

Value	Summary
<code>--os-discovery-endpoint <auth-discovery-endpoint></code>	With <code>v3oidcclientcredentials</code> : openid connect discovery Document URL. The discovery document will be used to obtain the values of the access token endpoint and the authentication endpoint. This URL should look like https://idp.example.org/.well-known/openid-configuration With <code>v3oidcpassword</code> : OpenID Connect Discovery Document URL. The discovery document will be used to obtain the values of the access token endpoint and the authentication endpoint. This URL should look like https://idp.example.org/.well-known/openid-configuration With <code>v3oidcpassword</code> : OpenID Connect Discovery Document URL. The discovery document will be used to obtain the values of the access token endpoint and the authentication endpoint. This URL should look like https://idp.example.org/.well-known/openid-configuration (Env: <code>OS_DISCOVERY_ENDPOINT</code>)
<code>--os-access-token-type <auth-access-token-type></code>	With <code>v3oidcclientcredentials</code> : oauth 2.0 authorization Server Introspection token type, it is used to decide which type of token will be used when processing token introspection. Valid values are: "access_token" or "id_token" With <code>v3oidcpassword</code> : OAuth 2.0 Authorization Server Introspection token type, it is used to decide which type of token will be used when processing token introspection. Valid values are: "access_token" or "id_token" With <code>v3oidcpassword</code> : OAuth 2.0 Authorization Server Introspection token type, it is used to decide which type of token will be used when processing token introspection. Valid values are: "access_token" or "id_token" (Env: <code>OS_ACCESS_TOKEN_TYPE</code>)
<code>--os-user <auth-user></code>	With <code>gnocchi-basic</code> : user (env: <code>os_user</code>)
<code>--os-token <auth-token></code>	With <code>admin_token</code> : the token that will always be used With <code>v2token</code> : Token With <code>token</code> : Token to authenticate with With <code>v3token</code> : Token to authenticate with (Env: <code>OS_TOKEN</code>)
<code>--os-auth-methods <auth-auth-methods></code>	With <code>v3multifactor</code> : methods to authenticate with. (Env: <code>OS_AUTH_METHODS</code>)
<code>--os-redirect-uri <auth-redirect-uri></code>	With <code>v3oidcpassword</code> : openid connect redirect url (env: <code>OS_REDIRECT_URI</code>)
<code>--os-code <auth-code></code>	With <code>v3oidcpassword</code> : oauth 2.0 authorization code (Env: <code>OS_CODE</code>)

Value	Summary
<code>--os-default-domain-id <auth-default-domain-id></code>	With token: optional domain id to use with v3 and v2 parameters. It will be used for both the user and project domain in v3 and ignored in v2 authentication. With password: Optional domain ID to use with v3 and v2 parameters. It will be used for both the user and project domain in v3 and ignored in v2 authentication. (Env: OS_DEFAULT_DOMAIN_ID)
<code>--os-default-domain-name <auth-default-domain-name></code>	With token: optional domain name to use with v3 api and v2 parameters. It will be used for both the user and project domain in v3 and ignored in v2 authentication. With password: Optional domain name to use with v3 API and v2 parameters. It will be used for both the user and project domain in v3 and ignored in v2 authentication. (Env: OS_DEFAULT_DOMAIN_NAME)
<code>--os-roles <auth-roles></code>	With gnocchi-noauth: roles with aodh-noauth: roles (Env: OS_ROLES)
<code>--os-identity-provider-url <auth-identity-provider-url></code>	With v3samlpassword: an identity provider url, where the SAML2 authentication request will be sent. With v3adfspassword: An Identity Provider URL, where the SAML authentication request will be sent. (Env: OS_IDENTITY_PROVIDER_URL)
<code>--os-service-provider-endpoint <auth-service-provider-endpoint></code>	With v3adfspassword: service provider's endpoint (env: OS_SERVICE_PROVIDER_ENDPOINT)
<code>--os-service-provider-entity-id <auth-service-provider-entity-id></code>	With v3adfspassword: service provider's saml entity id (Env: OS_SERVICE_PROVIDER_ENTITY_ID)
<code>--os-aodh-endpoint <auth-aodh-endpoint></code>	With aodh-noauth: aodh endpoint (env: OS_AODH_ENDPOINT)

CHAPTER 2. ACCESS

This chapter describes the commands under the **access** command.

2.1. ACCESS TOKEN CREATE

Create an access token

Usage:

```
openstack access token create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent]
                             [--prefix PREFIX] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             --consumer-key <consumer-key>
                             --consumer-secret <consumer-secret>
                             --request-key <request-key>
                             --request-secret <request-secret>
                             --verifier <verifier>
```

Table 2.1. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--consumer-key <consumer-key>	Consumer key (required)
--consumer-secret <consumer-secret>	Consumer secret (required)
--request-key <request-key>	Request token to exchange for access token (required)
--request-secret <request-secret>	Secret associated with <request-key> (required)
--verifier <verifier>	Verifier associated with <request-key> (required)

Table 2.2. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 2.3. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 2.4. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 2.5. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 3. ACL

This chapter describes the commands under the **acl** command.

3.1. ACL DELETE

Delete ACLs for a secret or container as identified by its href.

Usage:

```
openstack acl delete [-h] URI
```

Table 3.1. Positional arguments

Value	Summary
URI	The uri reference for the secret or container.

Table 3.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit

3.2. ACL GET

Retrieve ACLs for a secret or container by providing its href.

Usage:

```
openstack acl get [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
  [--quote {all,minimal,none,nonnumeric}] [--noindent]
  [--max-width <integer>] [--fit-width] [--print-empty]
  [--sort-column SORT_COLUMN]
  URI
```

Table 3.3. Positional arguments

Value	Summary
URI	The uri reference for the secret or container.

Table 3.4. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 3.5. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 3.6. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 3.7. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 3.8. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

3.3. ACL SUBMIT

Submit ACL on a secret or container as identified by its href.

Usage:

```
openstack acl submit [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>] [--fit-width]
```

```

[--print-empty] [--sort-column SORT_COLUMN]
[--user [USERS]]
[--project-access | --no-project-access]
[--operation-type {read}]
URI

```

Table 3.9. Positional arguments

Value	Summary
URI	The uri reference for the secret or container.

Table 3.10. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--user [USERS], -u [USERS]	Keystone userid(s) for acl.
--project-access	Flag to enable project access behavior.
--no-project-access	Flag to disable project access behavior.
--operation-type {read}, -o {read}	Type of barbican operation acl is set for

Table 3.11. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 3.12. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 3.13. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 3.14. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

3.4. ACL USER ADD

Add ACL users to a secret or container as identified by its href.

Usage:

```

openstack acl user add [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--user [USERS]]
                        [--project-access | --no-project-access]
                        [--operation-type {read}]
                        URI

```

Table 3.15. Positional arguments

Value	Summary
URI	The uri reference for the secret or container.

Table 3.16. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--user [USERS], -u [USERS]	Keystone userid(s) for acl.

Value	Summary
<code>--project-access</code>	Flag to enable project access behavior.
<code>--no-project-access</code>	Flag to disable project access behavior.
<code>--operation-type {read}, -o {read}</code>	Type of barbican operation acl is set for

Table 3.17. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 3.18. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 3.19. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 3.20. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

3.5. ACL USER REMOVE

Remove ACL users from a secret or container as identified by its href.

Usage:

```
openstack acl user remove [-h] [-f {csv,json,table,value,yaml}]
                          [-c COLUMN]
                          [--quote {all,minimal,none,nonnumeric}]
                          [--noindent] [--max-width <integer>]
                          [--fit-width] [--print-empty]
                          [--sort-column SORT_COLUMN] [--user [USERS]]
                          [--project-access | --no-project-access]
                          [--operation-type {read}]
                          URI
```

Table 3.21. Positional arguments

Value	Summary
URI	The uri reference for the secret or container.

Table 3.22. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--user [USERS], -u [USERS]	Keystone userid(s) for acl.
--project-access	Flag to enable project access behavior.
--no-project-access	Flag to disable project access behavior.
--operation-type {read}, -o {read}	Type of barbican operation acl is set for

Table 3.23. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 3.24. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 3.25. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 3.26. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 4. ACTION

This chapter describes the commands under the **action** command.

4.1. ACTION DEFINITION CREATE

Create new action.

Usage:

```
openstack action definition create [-h]
                                [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--marker [MARKER]]
                                [--limit [LIMIT]]
                                [--sort_keys [SORT_KEYS]]
                                [--sort_dirs [SORT_DIRS]]
                                [--filter FILTERS] [--public]
                                definition
```

Table 4.1. Positional arguments

Value	Summary
definition	Action definition file

Table 4.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--marker [MARKER]	The last execution uuid of the previous page, displays list of executions after "marker".
--limit [LIMIT]	Maximum number of entries to return in a single result.
--sort_keys [SORT_KEYS]	Comma-separated list of sort keys to sort results by. Default: created_at. Example: mistral execution-list --sort_keys=id,description
--sort_dirs [SORT_DIRS]	Comma-separated list of sort directions. default: asc. Example: mistral execution-list --sort_keys=id,description --sort_dirs=asc,desc

Value	Summary
<code>--filter FILTERS</code>	Filters. can be repeated.
<code>--public</code>	With this flag action will be marked as "public".

Table 4.3. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 4.4. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 4.5. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 4.6. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

4.2. ACTION DEFINITION DEFINITION SHOW

Show action definition.

Usage:

```
openstack action definition definition show [-h] name
```

Table 4.7. Positional arguments

Value	Summary
name	Action name

Table 4.8. Command arguments

Value	Summary
-h, --help	Show this help message and exit

4.3. ACTION DEFINITION DELETE

Delete action.

Usage:

```
openstack action definition delete [-h] action [action ...]
```

Table 4.9. Positional arguments

Value	Summary
action	Name or id of action(s).

Table 4.10. Command arguments

Value	Summary
-h, --help	Show this help message and exit

4.4. ACTION DEFINITION LIST

List all actions.

Usage:

```
openstack action definition list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
```

```

[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]
[--marker [MARKER]] [--limit [LIMIT]]
[--sort_keys [SORT_KEYS]]
[--sort_dirs [SORT_DIRS]]
[--filter FILTERS]

```

Table 4.11. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--marker [MARKER]	The last execution uuid of the previous page, displays list of executions after "marker".
--limit [LIMIT]	Maximum number of entries to return in a single result.
--sort_keys [SORT_KEYS]	Comma-separated list of sort keys to sort results by. Default: created_at. Example: mistral execution-list --sort_keys=id,description
--sort_dirs [SORT_DIRS]	Comma-separated list of sort directions. default: asc. Example: mistral execution-list --sort_keys=id,description --sort_dirs=asc,desc
--filter FILTERS	Filters. can be repeated.

Table 4.12. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 4.13. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 4.14. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 4.15. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

4.5. ACTION DEFINITION SHOW

Show specific action.

Usage:

```

openstack action definition show [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                action

```

Table 4.16. Positional arguments

Value	Summary
<code>action</code>	Action (name or id)

Table 4.17. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 4.18. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 4.19. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 4.20. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 4.21. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

4.6. ACTION DEFINITION UPDATE

Update action.

Usage:

```
openstack action definition update [-h]
    [-f {csv,json,table,value,yaml}]
    [-c COLUMN]
    [--quote {all,minimal,none,nonnumeric}]
    [--noindent] [--max-width <integer>]
    [--fit-width] [--print-empty]
    [--sort-column SORT_COLUMN]
    [--marker [MARKER]]
    [--limit [LIMIT]]
```

```

[--sort_keys [SORT_KEYS]]
[--sort_dirs [SORT_DIRS]]
[--filter FILTERS] [--id ID]
[--public]
definition

```

Table 4.22. Positional arguments

Value	Summary
definition	Action definition file

Table 4.23. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--marker [MARKER]	The last execution uuid of the previous page, displays list of executions after "marker".
--limit [LIMIT]	Maximum number of entries to return in a single result.
--sort_keys [SORT_KEYS]	Comma-separated list of sort keys to sort results by. Default: created_at. Example: mistral execution-list --sort_keys=id,description
--sort_dirs [SORT_DIRS]	Comma-separated list of sort directions. default: asc. Example: mistral execution-list --sort_keys=id,description --sort_dirs=asc,desc
--filter FILTERS	Filters. can be repeated.
--id ID	Action id.
--public	With this flag action will be marked as "public".

Table 4.24. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Value	Summary
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 4.25. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 4.26. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 4.27. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

4.7. ACTION EXECUTION DELETE

Delete action execution.

Usage:

```
openstack action execution delete [-h]
                                action_execution
                                [action_execution ...]
```

Table 4.28. Positional arguments

Value	Summary
action_execution	Id of action execution identifier(s).

Table 4.29. Command arguments

Value	Summary
-h, --help	Show this help message and exit

4.8. ACTION EXECUTION INPUT SHOW

Show Action execution input data.

Usage:

```
openstack action execution input show [-h] id
```

Table 4.30. Positional arguments

Value	Summary
id	Action execution id.

Table 4.31. Command arguments

Value	Summary
-h, --help	Show this help message and exit

4.9. ACTION EXECUTION LIST

List all Action executions.

Usage:

```
openstack action execution list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--marker [MARKER]] [--limit [LIMIT]]
                                [--sort_keys [SORT_KEYS]]
                                [--sort_dirs [SORT_DIRS]]
                                [--filter FILTERS] [--oldest]
                                [task_execution_id]
```

Table 4.32. Positional arguments

Value	Summary
task_execution_id	Task execution id.

Table 4.33. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--marker [MARKER]	The last execution uuid of the previous page, displays list of executions after "marker".
--limit [LIMIT]	Maximum number of entries to return in a single result.
--sort_keys [SORT_KEYS]	Comma-separated list of sort keys to sort results by. Default: created_at. Example: mistral execution-list --sort_keys=id,description
--sort_dirs [SORT_DIRS]	Comma-separated list of sort directions. default: asc. Example: mistral execution-list --sort_keys=id,description --sort_dirs=asc,desc
--filter FILTERS	Filters. can be repeated.
--oldest	Display the executions starting from the oldest entries instead of the newest

Table 4.34. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 4.35. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 4.36. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 4.37. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

4.10. ACTION EXECUTION OUTPUT SHOW

Show Action execution output data.

Usage:

```
openstack action execution output show [-h] id
```

Table 4.38. Positional arguments

Value	Summary
<code>id</code>	Action execution id.

Table 4.39. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

4.11. ACTION EXECUTION RUN

Create new Action execution or just run specific action.

Usage:

```
openstack action execution run [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty] [-s] [--run-sync]
                               [-t TARGET]
                               name [input]
```

Table 4.40. Positional arguments

Value	Summary
name	Action name to execute.
input	Action input.

Table 4.41. Command arguments

Value	Summary
-h, --help	Show this help message and exit
-s, --save-result	Save the result into db.
--run-sync	Run the action synchronously.
-t TARGET, --target TARGET	Action will be executed on <target> executor.

Table 4.42. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 4.43. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 4.44. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 4.45. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

4.12. ACTION EXECUTION SHOW

Show specific Action execution.

Usage:

```

openstack action execution show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty]
                               action_execution

```

Table 4.46. Positional arguments

Value	Summary
<code>action_execution</code>	Action execution id.

Table 4.47. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 4.48. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 4.49. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 4.50. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 4.51. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

4.13. ACTION EXECUTION UPDATE

Update specific Action execution.

Usage:

```
openstack action execution update [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
```

```

[--state {PAUSED,RUNNING,SUCCESS,ERROR,CANCELLED}]
[--output OUTPUT]
id

```

Table 4.52. Positional arguments

Value	Summary
id	Action execution id.

Table 4.53. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--state {PAUSED,RUNNING,SUCCESS,ERROR,CANCELLED}	Action execution state
--output OUTPUT	Action execution output

Table 4.54. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 4.55. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 4.56. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 4.57. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 5. ADDRESS

This chapter describes the commands under the **address** command.

5.1. ADDRESS SCOPE CREATE

Create a new Address Scope

Usage:

```
openstack address scope create [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty] [--ip-version {4,6}]
                               [--project <project>]
                               [--project-domain <project-domain>]
                               [--share | --no-share]
                               <name>
```

Table 5.1. Positional arguments

Value	Summary
<name>	New address scope name

Table 5.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--ip-version {4,6}	Ip version (default is 4)
--project <project>	Owner's project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--share	Share the address scope between projects
--no-share	Do not share the address scope between projects (default)

Table 5.3. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 5.4. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 5.5. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 5.6. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

5.2. ADDRESS SCOPE DELETE

Delete address scope(s)

Usage:

```
openstack address scope delete [-h]
                               <address-scope> [<address-scope> ...]
```

Table 5.7. Positional arguments

Value	Summary
<address-scope>	Address scope(s) to delete (name or id)

Table 5.8. Command arguments

Value	Summary
-h, --help	Show this help message and exit

5.3. ADDRESS SCOPE LIST

List address scopes

Usage:

```

openstack address scope list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--name <name>]
                             [--ip-version <ip-version>]
                             [--project <project>]
                             [--project-domain <project-domain>]
                             [--share | --no-share]

```

Table 5.9. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	List only address scopes of given name in output
--ip-version <ip-version>	List address scopes of given ip version networks (4 or 6)
--project <project>	List address scopes according to their project (name or ID)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--share	List address scopes shared between projects

Value	Summary
<code>--no-share</code>	List address scopes not shared between projects

Table 5.10. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 5.11. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 5.12. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 5.13. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

5.4. ADDRESS SCOPE SET

Set address scope properties

Usage:

```
openstack address scope set [-h] [--name <name>] [--share | --no-share]
                             <address-scope>
```

Table 5.14. Positional arguments

Value	Summary
<address-scope>	Address scope to modify (name or id)

Table 5.15. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set address scope name
--share	Share the address scope between projects
--no-share	Do not share the address scope between projects

5.5. ADDRESS SCOPE SHOW

Display address scope details

Usage:

```
openstack address scope show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             <address-scope>
```

Table 5.16. Positional arguments

Value	Summary
<address-scope>	Address scope to display (name or id)

Table 5.17. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 5.18. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 5.19. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 5.20. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 5.21. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 6. AGGREGATE

This chapter describes the commands under the **aggregate** command.

6.1. AGGREGATE ADD HOST

Add host to aggregate

Usage:

```
openstack aggregate add host [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             <aggregate> <host>
```

Table 6.1. Positional arguments

Value	Summary
<aggregate>	Aggregate (name or id)
<host>	Host to add to <aggregate>

Table 6.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 6.3. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 6.4. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 6.5. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 6.6. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

6.2. AGGREGATE CREATE

Create a new aggregate

Usage:

```
openstack aggregate create [-h] [-f {json,shell,table,value,yaml}]
                          [-c COLUMN] [--noindent] [--prefix PREFIX]
                          [--max-width <integer>] [--fit-width]
                          [--print-empty] [--zone <availability-zone>]
                          [--property <key=value>]
                          <name>
```

Table 6.7. Positional arguments

Value	Summary
<name>	New aggregate name

Table 6.8. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--zone <availability-zone>	Availability zone name
--property <key=value>	Property to add to this aggregate (repeat option to set multiple properties)

Table 6.9. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 6.10. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 6.11. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 6.12. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

6.3. AGGREGATE DELETE

Delete existing aggregate(s)

Usage:

```
openstack aggregate delete [-h] <aggregate> [<aggregate> ...]
```

Table 6.13. Positional arguments

Value	Summary
<aggregate>	Aggregate(s) to delete (name or id)

Table 6.14. Command arguments

Value	Summary
-h, --help	Show this help message and exit

6.4. AGGREGATE LIST

List all aggregates

Usage:

```
openstack aggregate list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--long]
```

Table 6.15. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output

Table 6.16. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 6.17. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 6.18. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 6.19. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

6.5. AGGREGATE REMOVE HOST

Remove host from aggregate

Usage:

```
openstack aggregate remove host [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <aggregate> <host>
```

Table 6.20. Positional arguments

Value	Summary
<code><aggregate></code>	Aggregate (name or id)
<code><host></code>	Host to remove from <aggregate>

Table 6.21. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 6.22. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 6.23. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 6.24. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 6.25. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

6.6. AGGREGATE SET

Set aggregate properties

Usage:

```
openstack aggregate set [-h] [--name <name>]
```

```

[--zone <availability-zone>]
[--property <key=value>] [--no-property]
<aggregate>

```

Table 6.26. Positional arguments

Value	Summary
<aggregate>	Aggregate to modify (name or id)

Table 6.27. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set aggregate name
--zone <availability-zone>	Set availability zone name
--property <key=value>	Property to set on <aggregate> (repeat option to set multiple properties)
--no-property	Remove all properties from <aggregate> (specify both --property and --no-property to overwrite the current properties)

6.7. AGGREGATE SHOW

Display aggregate details

Usage:

```

openstack aggregate show [-h] [-f {json,shell,table,value,yaml}]
[-c COLUMN] [--noindent] [--prefix PREFIX]
[--max-width <integer>] [--fit-width]
[--print-empty]
<aggregate>

```

Table 6.28. Positional arguments

Value	Summary
<aggregate>	Aggregate to display (name or id)

Table 6.29. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 6.30. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 6.31. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 6.32. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 6.33. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

6.8. AGGREGATE UNSET

Unset aggregate properties

Usage:

```
openstack aggregate unset [-h] [--property <key>] <aggregate>
```

Table 6.34. Positional arguments

Value	Summary
<aggregate>	Aggregate to modify (name or id)

Table 6.35. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--property <key>	Property to remove from aggregate (repeat option to remove multiple properties)

CHAPTER 7. ALARM

This chapter describes the commands under the **alarm** command.

7.1. ALARM CREATE

Create an alarm

Usage:

```
openstack alarm create [-h] [-f {json,shell,table,value,yaml}]
                       [-c COLUMN] [--noindent] [--prefix PREFIX]
                       [--max-width <integer>] [--fit-width]
                       [--print-empty] --name <NAME> -t <TYPE>
                       [--project-id <PROJECT_ID>]
                       [--user-id <USER_ID>]
                       [--description <DESCRIPTION>] [--state <STATE>]
                       [--severity <SEVERITY>] [--enabled {True|False}]
                       [--alarm-action <Webhook URL>]
                       [--ok-action <Webhook URL>]
                       [--insufficient-data-action <Webhook URL>]
                       [--time-constraint <Time Constraint>]
                       [--repeat-actions {True|False}]
                       [--query <QUERY>]
                       [--comparison-operator <OPERATOR>]
                       [--evaluation-periods <EVAL_PERIODS>]
                       [--threshold <THRESHOLD>]
                       [--event-type <EVENT_TYPE>]
                       [--granularity <GRANULARITY>]
                       [--aggregation-method <AGGR_METHOD>]
                       [--metric <METRIC>]
                       [--resource-type <RESOURCE_TYPE>]
                       [--resource-id <RESOURCE_ID>]
                       [--composite-rule <COMPOSITE_RULE>]
```

Table 7.1. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <NAME>	Name of the alarm
-t <TYPE>, --type <TYPE>	Type of alarm, should be one of: event, composite, gnocchi_resources_threshold, gnocchi_aggregation_by_metrics_threshold, gnocchi_aggregation_by_resources_threshold.
--project-id <PROJECT_ID>	Project to associate with alarm (configurable by admin users only)

Value	Summary
<code>--user-id <USER_ID></code>	User to associate with alarm (configurable by admin users only)
<code>--description <DESCRIPTION></code>	Free text description of the alarm
<code>--state <STATE></code>	State of the alarm, one of: [<i>ok, alarm, insufficient data</i>]
<code>--severity <SEVERITY></code>	Severity of the alarm, one of: [<i>low, moderate, critical</i>]
<code>--enabled {True False}</code>	True if alarm evaluation is enabled
<code>--alarm-action <Webhook URL></code>	Url to invoke when state transitions to alarm. may be used multiple times
<code>--ok-action <Webhook URL></code>	Url to invoke when state transitions to ok. may be used multiple times
<code>--insufficient-data-action <Webhook URL></code>	Url to invoke when state transitions to insufficient data. May be used multiple times
<code>--time-constraint <Time Constraint></code>	Only evaluate the alarm if the time at evaluation is within this time constraint. Start point(s) of the constraint are specified with a cron expression, whereas its duration is given in seconds. Can be specified multiple times for multiple time constraints, format is: name=<CONSTRAINT_NAME>;start=<CRON>;duration=<SECONDS>;[description=<DESCRIPTION>;[timezone=<IANA Timezone>]]
<code>--repeat-actions {True False}</code>	True if actions should be repeatedly notified while alarm remains in target state

Table 7.2. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 7.3. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 7.4. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 7.5. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

Table 7.6. common alarm rules

Value	Summary
<code>--query <QUERY></code>	For alarms of type event: <code>key[op]data_type::value;</code> list. <code>data_type</code> is optional, but if supplied must be string, integer, float, or boolean. For alarms of type <code>gnocchi_aggregation_by_resources_threshold</code> : need to specify a complex query json string, like: <code>{"and": [{"="": {"ended_at": null}}, ...]}</code> .
<code>--comparison-operator <OPERATOR></code>	Operator to compare with, one of: <code>[lt, le, eq, ne, ge, gt]</code>
<code>--evaluation-periods <EVAL_PERIODS></code>	Number of periods to evaluate over
<code>--threshold <THRESHOLD></code>	Threshold to evaluate against.

Table 7.7. event alarm

Value	Summary
<code>--event-type <EVENT_TYPE></code>	Event type to evaluate against

Table 7.8. common gnocchi alarm rules

Value	Summary
<code>--granularity <GRANULARITY></code>	The time range in seconds over which to query.
<code>--aggregation-method <AGGR_METHOD></code>	The aggregation_method to compare to the threshold.
<code>--metric <METRIC>, --metrics <METRIC></code>	The metric id or name depending of the alarm type

Table 7.9. gnocchi resource threshold alarm

Value	Summary
<code>--resource-type <RESOURCE_TYPE></code>	The type of resource.
<code>--resource-id <RESOURCE_ID></code>	The id of a resource.

Table 7.10. composite alarm

Value	Summary
<code>--composite-rule <COMPOSITE_RULE></code>	Composite threshold rule with json format, the form can be a nested dict which combine gnocchi rules by "and", "or". For example, the form is like: <code>{"or": [RULE1, RULE2, {"and": [RULE3, RULE4]}]}</code> .

7.2. ALARM DELETE

Delete an alarm

Usage:

```
openstack alarm delete [-h] [--name <NAME>] [<ALARM ID or NAME>]
```

Table 7.11. Positional arguments

Value	Summary
<code><ALARM ID or NAME></code>	Id or name of an alarm.

Table 7.12. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Value	Summary
<code>--name <NAME></code>	Name of the alarm

7.3. ALARM-HISTORY SEARCH

Show history for all alarms based on query

Usage:

```
openstack alarm-history search [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN]
                               [--query QUERY]
```

Table 7.13. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--query QUERY</code>	Rich query supported by aodh, e.g. <code>project_id!=my-id user_id=foo</code> or <code>user_id=bar</code>

Table 7.14. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 7.15. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 7.16. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 7.17. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

7.4. ALARM-HISTORY SHOW

Show history for an alarm

Usage:

```
openstack alarm-history show [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--limit <LIMIT>] [--marker <MARKER>]
                             [--sort <SORT_KEY:SORT_DIR>]
                             <alarm-id>
```

Table 7.18. Positional arguments

Value	Summary
<alarm-id>	Id of an alarm

Table 7.19. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--limit <LIMIT>	Number of resources to return (default is server default)

Value	Summary
<code>--marker <MARKER></code>	Last item of the previous listing. return the next results after this value, the supported marker is <code>event_id</code> .
<code>--sort <SORT_KEY:SORT_DIR></code>	Sort of resource attribute. e.g. <code>timestamp:desc</code>

Table 7.20. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to <code>table</code>
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 7.21. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to <code>nonnumeric</code>

Table 7.22. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 7.23. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <code><1</code> to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

7.5. ALARM LIST

List alarms

Usage:

```
openstack alarm list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>] [--fit-width]
                    [--print-empty] [--sort-column SORT_COLUMN]
                    [--query QUERY | --filter <KEY1=VALUE1;KEY2=VALUE2...>]
                    [--limit <LIMIT>] [--marker <MARKER>]
                    [--sort <SORT_KEY:SORT_DIR>]
```

Table 7.24. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--query QUERY	Rich query supported by aodh, e.g. project_id!=my-id user_id=foo or user_id=bar
--filter <KEY1=VALUE1;KEY2=VALUE2...>	Filter parameters to apply on returned alarms.
--limit <LIMIT>	Number of resources to return (default is server default)
--marker <MARKER>	Last item of the previous listing. return the next results after this value, the supported marker is alarm_id.
--sort <SORT_KEY:SORT_DIR>	Sort of resource attribute, e.g. name:asc

Table 7.25. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 7.26. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 7.27. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 7.28. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

7.6. ALARM SHOW

Show an alarm

Usage:

```
openstack alarm show [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--name <NAME>]
                    [<ALARM ID or NAME>]
```

Table 7.29. Positional arguments

Value	Summary
<code><ALARM ID or NAME></code>	Id or name of an alarm.

Table 7.30. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Value	Summary
<code>--name <NAME></code>	Name of the alarm

Table 7.31. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 7.32. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 7.33. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 7.34. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

7.7. ALARM STATE GET

Get state of an alarm

Usage:

```
openstack alarm state get [-h] [-f {json,shell,table,value,yaml}]
```

```
[-c COLUMN] [--noindent] [--prefix PREFIX]
[--max-width <integer>] [--fit-width]
[--print-empty] [--name <NAME>]
[<ALARM ID or NAME>]
```

Table 7.35. Positional arguments

Value	Summary
<ALARM ID or NAME>	Id or name of an alarm.

Table 7.36. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <NAME>	Name of the alarm

Table 7.37. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 7.38. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 7.39. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 7.40. Table formatter options

Value	Summary
-------	---------

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

7.8. ALARM STATE SET

Set state of an alarm

Usage:

```

openstack alarm state set [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--name <NAME>] --state
                        <STATE>
                        [<ALARM ID or NAME>]

```

Table 7.41. Positional arguments

Value	Summary
<code><ALARM ID or NAME></code>	Id or name of an alarm.

Table 7.42. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--name <NAME></code>	Name of the alarm
<code>--state <STATE></code>	State of the alarm, one of: [<i>ok, alarm, insufficient data</i>]

Table 7.43. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 7.44. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 7.45. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 7.46. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

7.9. ALARM UPDATE

Update an alarm

Usage:

```
openstack alarm update [-h] [-f {json,shell,table,value,yaml}]
  [-c COLUMN] [--noindent] [--prefix PREFIX]
  [--max-width <integer>] [--fit-width]
  [--print-empty] [--name <NAME>] [-t <TYPE>]
  [--project-id <PROJECT_ID>]
  [--user-id <USER_ID>]
  [--description <DESCRIPTION>] [--state <STATE>]
  [--severity <SEVERITY>] [--enabled {True|False}]
```

```

[--alarm-action <Webhook URL>]
[--ok-action <Webhook URL>]
[--insufficient-data-action <Webhook URL>]
[--time-constraint <Time Constraint>]
[--repeat-actions {True|False}]
[--query <QUERY>]
[--comparison-operator <OPERATOR>]
[--evaluation-periods <EVAL_PERIODS>]
[--threshold <THRESHOLD>]
[--event-type <EVENT_TYPE>]
[--granularity <GRANULARITY>]
[--aggregation-method <AGGR_METHOD>]
[--metric <METRIC>]
[--resource-type <RESOURCE_TYPE>]
[--resource-id <RESOURCE_ID>]
[--composite-rule <COMPOSITE_RULE>]
[<ALARM ID or NAME>]

```

Table 7.47. Positional arguments

Value	Summary
<ALARM ID or NAME>	Id or name of an alarm.

Table 7.48. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <NAME>	Name of the alarm
-t <TYPE>, --type <TYPE>	Type of alarm, should be one of: event, composite, gnocchi_resources_threshold, gnocchi_aggregation_by_metrics_threshold, gnocchi_aggregation_by_resources_threshold.
--project-id <PROJECT_ID>	Project to associate with alarm (configurable by admin users only)
--user-id <USER_ID>	User to associate with alarm (configurable by admin users only)
--description <DESCRIPTION>	Free text description of the alarm
--state <STATE>	State of the alarm, one of: [ok, alarm, insufficient data]
--severity <SEVERITY>	Severity of the alarm, one of: [low, moderate, critical]

Value	Summary
<code>--enabled {True False}</code>	True if alarm evaluation is enabled
<code>--alarm-action <Webhook URL></code>	Url to invoke when state transitions to alarm. may be used multiple times
<code>--ok-action <Webhook URL></code>	Url to invoke when state transitions to ok. may be used multiple times
<code>--insufficient-data-action <Webhook URL></code>	Url to invoke when state transitions to insufficient data. May be used multiple times
<code>--time-constraint <Time Constraint></code>	Only evaluate the alarm if the time at evaluation is within this time constraint. Start point(s) of the constraint are specified with a cron expression, whereas its duration is given in seconds. Can be specified multiple times for multiple time constraints, format is: name=<CONSTRAINT_NAME>;start=<CRON>;duration=<SECONDS>;[description=<DESCRIPTION>;[timezone=<IANA Timezone>]]
<code>--repeat-actions {True False}</code>	True if actions should be repeatedly notified while alarm remains in target state

Table 7.49. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 7.50. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 7.51. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 7.52. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

Table 7.53. common alarm rules

Value	Summary
<code>--query <QUERY></code>	For alarms of type event: <code>key[op]data_type::value;</code> list. <code>data_type</code> is optional, but if supplied must be string, integer, float, or boolean. For alarms of type <code>gnocchi_aggregation_by_resources_threshold</code> : need to specify a complex query json string, like: <code>{"and": [{"=": {"ended_at": null}}, ...]}</code> .
<code>--comparison-operator <OPERATOR></code>	Operator to compare with, one of: <code>[lt, le, eq, ne, ge, gt]</code>
<code>--evaluation-periods <EVAL_PERIODS></code>	Number of periods to evaluate over
<code>--threshold <THRESHOLD></code>	Threshold to evaluate against.

Table 7.54. event alarm

Value	Summary
<code>--event-type <EVENT_TYPE></code>	Event type to evaluate against

Table 7.55. common gnocchi alarm rules

Value	Summary
<code>--granularity <GRANULARITY></code>	The time range in seconds over which to query.
<code>--aggregation-method <AGGR_METHOD></code>	The <code>aggregation_method</code> to compare to the threshold.
<code>--metric <METRIC>, --metrics <METRIC></code>	The metric id or name depending of the alarm type

Table 7.56. gnocchi resource threshold alarm

Value	Summary
<code>--resource-type <RESOURCE_TYPE></code>	The type of resource.
<code>--resource-id <RESOURCE_ID></code>	The id of a resource.

Table 7.57. composite alarm

Value	Summary
<code>--composite-rule <COMPOSITE_RULE></code>	Composite threshold rule with json format, the form can be a nested dict which combine gnocchi rules by "and", "or". For example, the form is like: <code>{"or": [RULE1, RULE2, {"and": [RULE3, RULE4]}]}</code> .

CHAPTER 8. ALARMING

This chapter describes the commands under the **alarming** command.

8.1. ALARMING CAPABILITIES LIST

List capabilities of alarming service

Usage:

```
openstack alarming capabilities list [-h]
                                   [-f {json,shell,table,value,yaml}]
                                   [-c COLUMN] [--noindent]
                                   [--prefix PREFIX]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
```

Table 8.1. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 8.2. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 8.3. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 8.4. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 8.5. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 9. APPLICATION

This chapter describes the commands under the **application** command.

9.1. APPLICATION CREDENTIAL CREATE

Create new application credential

Usage:

```
openstack application credential create [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--secret <secret>]
                                     [--role <role>]
                                     [--expiration <expiration>]
                                     [--description <description>]
                                     [--unrestricted] [--restricted]
                                     <name>
```

Table 9.1. Positional arguments

Value	Summary
<name>	Name of the application credential

Table 9.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--secret <secret>	Secret to use for authentication (if not provided, one will be generated)
--role <role>	Roles to authorize (name or id) (repeat option to set multiple values)
--expiration <expiration>	Sets an expiration date for the application credential, format of YYYY-mm-ddTHH:MM:SS (if not provided, the application credential will not expire)
--description <description>	Application credential description

Value	Summary
<code>--unrestricted</code>	Enable application credential to create and delete other application credentials and trusts (this is potentially dangerous behavior and is disabled by default)
<code>--restricted</code>	Prohibit application credential from creating and deleting other application credentials and trusts (this is the default behavior)

Table 9.3. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 9.4. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 9.5. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 9.6. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

9.2. APPLICATION CREDENTIAL DELETE

Delete application credentials(s)

Usage:

```
openstack application credential delete [-h]
                                     <application-credential>
                                     [<application-credential> ...]
```

Table 9.7. Positional arguments

Value	Summary
<application-credential>	Application credentials(s) to delete (name or id)

Table 9.8. Command arguments

Value	Summary
-h, --help	Show this help message and exit

9.3. APPLICATION CREDENTIAL LIST

List application credentials

Usage:

```
openstack application credential list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]
                                     [--user <user>]
                                     [--user-domain <user-domain>]
```

Table 9.9. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--user <user>	User whose application credentials to list (name or ID)
--user-domain <user-domain>	Domain the user belongs to (name or id). this can be used in case collisions between user names exist.

Table 9.10. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 9.11. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 9.12. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 9.13. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

9.4. APPLICATION CREDENTIAL SHOW

Display application credential details

Usage:

```
openstack application credential show [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
```

```

[--prefix PREFIX]
[--max-width <integer>]
[--fit-width] [--print-empty]
<application-credential>

```

Table 9.14. Positional arguments

Value	Summary
<application-credential>	Application credential to display (name or id)

Table 9.15. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 9.16. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 9.17. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 9.18. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 9.19. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 10. AVAILABILITY

This chapter describes the commands under the **availability** command.

10.1. AVAILABILITY ZONE LIST

List availability zones and their status

Usage:

```
openstack availability zone list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--compute] [--network] [--volume]
                                [--long]
```

Table 10.1. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--compute	List compute availability zones
--network	List network availability zones
--volume	List volume availability zones
--long	List additional fields in output

Table 10.2. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 10.3. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 10.4. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 10.5. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 11. BAREMETAL

This chapter describes the commands under the **baremetal** command.

11.1. BAREMETAL ALLOCATION CREATE

Create a new baremetal allocation.

Usage:

```
openstack baremetal allocation create [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--resource-class RESOURCE_CLASS]
                                     [--trait TRAITS]
                                     [--candidate-node CANDIDATE_NODES]
                                     [--name NAME] [--uuid UUID]
                                     [--extra <key=value>]
                                     [--wait [<time-out>]]
                                     [--node NODE]
```

Table 11.1. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--resource-class RESOURCE_CLASS	Resource class to request.
--trait TRAITS	A trait to request. can be specified multiple times.
--candidate-node CANDIDATE_NODES	A candidate node for this allocation. can be specified multiple times. If at least one is specified, only the provided candidate nodes are considered for the allocation.
--name NAME	Unique name of the allocation.
--uuid UUID	Uuid of the allocation.
--extra <key=value>	Record arbitrary key/value metadata. can be specified multiple times.
--wait [<time-out>]	Wait for the new allocation to become active. an error is returned if allocation fails and --wait is used. Optionally takes a timeout value (in seconds). The default value is 0, meaning it will wait indefinitely.

Value	Summary
<code>--node NODE</code>	Backfill this allocation from the provided node that has already been deployed. Bypasses the normal allocation process.

Table 11.2. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 11.3. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.4. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 11.5. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.2. BAREMETAL ALLOCATION DELETE

Unregister baremetal allocation(s).

Usage:

```
openstack baremetal allocation delete [-h]
                                     <allocation> [<allocation> ...]
```

Table 11.6. Positional arguments

Value	Summary
<allocation>	Allocations(s) to delete (name or uuid).

Table 11.7. Command arguments

Value	Summary
-h, --help	Show this help message and exit

11.3. BAREMETAL ALLOCATION LIST

List baremetal allocations.

Usage:

```
openstack baremetal allocation list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]
                                     [--limit <limit>]
                                     [--marker <allocation>]
                                     [--sort <key>[:<direction>]]
                                     [--node <node>]
                                     [--resource-class <resource_class>]
                                     [--state <state>]
                                     [--long | --fields <field> [<field> ...]]
```

Table 11.8. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--limit <limit>	Maximum number of allocations to return per request, 0 for no limit. Default is the maximum number used by the Baremetal API Service.
--marker <allocation>	Allocation uuid (for example, of the last allocation in the list from a previous request). Returns the list of allocations after this UUID.

Value	Summary
<code>--sort <key>[:<direction>]</code>	Sort output by specified allocation fields and directions (asc or desc) (default: asc). Multiple fields and directions can be specified, separated by comma.
<code>--node <node></code>	Only list allocations of this node (name or uuid).
<code>--resource-class <resource_class></code>	Only list allocations with this resource class.
<code>--state <state></code>	Only list allocations in this state.
<code>--long</code>	Show detailed information about the allocations.
<code>--fields <field> [<field> ...]</code>	One or more allocation fields. only these fields will be fetched from the server. Can not be used when <code>--long</code> is specified.

Table 11.9. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.10. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 11.11. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.12. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.4. BAREMETAL ALLOCATION SET

Set baremetal allocation properties.

Usage:

```
openstack baremetal allocation set [-h] [--name <name>]
                                [--extra <key=value>]
                                <allocation>
```

Table 11.13. Positional arguments

Value	Summary
<code><allocation></code>	Name or uuid of the allocation

Table 11.14. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--name <name></code>	Set the name of the allocation
<code>--extra <key=value></code>	Extra property to set on this allocation (repeat option to set multiple extra properties)

11.5. BAREMETAL ALLOCATION SHOW

Show baremetal allocation details.

Usage:

```
openstack baremetal allocation show [-h]
                                   [-f {json,shell,table,value,yaml}]
                                   [-c COLUMN] [--noindent]
```

```

[--prefix PREFIX]
[--max-width <integer>]
[--fit-width] [--print-empty]
[--fields <field> [<field> ...]]
<id>

```

Table 11.15. Positional arguments

Value	Summary
<id>	Uuid or name of the allocation

Table 11.16. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--fields <field> [<field> ...]	One or more allocation fields. only these fields will be fetched from the server.

Table 11.17. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 11.18. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.19. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 11.20. Table formatter options

Value	Summary
-------	---------

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.6. BAREMETAL ALLOCATION UNSET

Unset baremetal allocation properties.

Usage:

```
openstack baremetal allocation unset [-h] [--name] [--extra <key>]
<allocation>
```

Table 11.21. Positional arguments

Value	Summary
<code><allocation></code>	Name or uuid of the allocation

Table 11.22. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--name</code>	Unset the name of the allocation
<code>--extra <key></code>	Extra property to unset on this baremetal allocation (repeat option to unset multiple extra property).

11.7. BAREMETAL CHASSIS CREATE

Create a new chassis.

Usage:

```
openstack baremetal chassis create [-h]
[-f {json,shell,table,value,yaml}]
[-c COLUMN] [--noindent]
```

```

[--prefix PREFIX]
[--max-width <integer>]
[--fit-width] [--print-empty]
[--description <description>]
[--extra <key=value>]
[--uuid <uuid>]

```

Table 11.23. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Description for the chassis
--extra <key=value>	Record arbitrary key/value metadata. can be specified multiple times.
--uuid <uuid>	Unique uuid of the chassis

Table 11.24. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 11.25. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.26. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 11.27. Table formatter options

Value	Summary
-------	---------

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.8. BAREMETAL CHASSIS DELETE

Delete a chassis.

Usage:

```
openstack baremetal chassis delete [-h] <chassis> [<chassis> ...]
```

Table 11.28. Positional arguments

Value	Summary
<code><chassis></code>	Uuids of chassis to delete

Table 11.29. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

11.9. BAREMETAL CHASSIS LIST

List the chassis.

Usage:

```
openstack baremetal chassis list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--fields <field> [<field> ...]]
                                [--limit <limit>] [--long]
                                [--marker <chassis>]
                                [--sort <key>[:<direction>]]
```

Table 11.30. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--fields <field> [<field> ...]	One or more chassis fields. only these fields will be fetched from the server. Cannot be used when --long is specified.
--limit <limit>	Maximum number of chassis to return per request, 0 for no limit. Default is the maximum number used by the Baremetal API Service.
--long	Show detailed information about the chassis
--marker <chassis>	Chassis uuid (for example, of the last chassis in the list from a previous request). Returns the list of chassis after this UUID.
--sort <key>[:<direction>]	Sort output by specified chassis fields and directions (asc or desc) (default: asc). Multiple fields and directions can be specified, separated by comma.

Table 11.31. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.32. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 11.33. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.34. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.10. BAREMETAL CHASSIS SET

Set chassis properties.

Usage:

```
openstack baremetal chassis set [-h] [--description <description>]
                               [--extra <key=value>]
                               <chassis>
```

Table 11.35. Positional arguments

Value	Summary
<code><chassis></code>	Uuid of the chassis

Table 11.36. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--description <description></code>	Set the description of the chassis
<code>--extra <key=value></code>	Extra to set on this chassis (repeat option to set multiple extras)

11.11. BAREMETAL CHASSIS SHOW

Show chassis details.

Usage:

```
openstack baremetal chassis show [-h]
                                  [-f {json,shell,table,value,yaml}]
```



```

[-c COLUMN] [--noindent]
[--prefix PREFIX]
[--max-width <integer>] [--fit-width]
[--print-empty]
[--fields <field> [<field> ...]]
<chassis>

```

Table 11.37. Positional arguments

Value	Summary
<chassis>	Uuid of the chassis

Table 11.38. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--fields <field> [<field> ...]	One or more chassis fields. only these fields will be fetched from the server.

Table 11.39. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 11.40. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.41. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 11.42. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.12. BAREMETAL CHASSIS UNSET

Unset chassis properties.

Usage:

```
openstack baremetal chassis unset [-h] [--description] [--extra <key>]
                                <chassis>
```

Table 11.43. Positional arguments

Value	Summary
<code><chassis></code>	Uuid of the chassis

Table 11.44. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--description</code>	Clear the chassis description
<code>--extra <key></code>	Extra to unset on this chassis (repeat option to unset multiple extras)

11.13. BAREMETAL CONDUCTOR LIST

List baremetal conductors

Usage:

```
openstack baremetal conductor list [-h]
                                   [-f {csv,json,table,value,yaml}]
                                   [-c COLUMN]
                                   [--quote {all,minimal,none,nonnumeric}]
```

```

[--noindent] [--max-width <integer>]
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]
[--limit <limit>]
[--marker <conductor>]
[--sort <key>[:<direction>]]
[--long | --fields <field> [<field> ...]]

```

Table 11.45. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--limit <limit>	Maximum number of conductors to return per request, 0 for no limit. Default is the maximum number used by the Baremetal API Service.
--marker <conductor>	Hostname of the conductor (for example, of the last conductor in the list from a previous request). Returns the list of conductors after this conductor.
--sort <key>[:<direction>]	Sort output by specified conductor fields and directions (asc or desc) (default: asc). Multiple fields and directions can be specified, separated by comma.
--long	Show detailed information about the conductors.
--fields <field> [<field> ...]	One or more conductor fields. only these fields will be fetched from the server. Can not be used when <i>--long</i> is specified.

Table 11.46. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.47. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 11.48. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.49. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.14. BAREMETAL CONDUCTOR SHOW

Show baremetal conductor details

Usage:

```

openstack baremetal conductor show [-h]
                                  [-f {json,shell,table,value,yaml}]
                                  [-c COLUMN] [--noindent]
                                  [--prefix PREFIX]
                                  [--max-width <integer>]
                                  [--fit-width] [--print-empty]
                                  [--fields <field> [<field> ...]]
                                  <conductor>

```

Table 11.50. Positional arguments

Value	Summary
<code><conductor></code>	Hostname of the conductor

Table 11.51. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--fields <field> [<field> ...]	One or more conductor fields. only these fields will be fetched from the server.

Table 11.52. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 11.53. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.54. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 11.55. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

11.15. BAREMETAL CREATE

Create resources from files

Usage:

```
openstack baremetal create [-h] <file> [<file> ...]
```

Table 11.56. Positional arguments

Value	Summary
<file>	File (.yaml or .json) containing descriptions of the resources to create. Can be specified multiple times.

Table 11.57. Command arguments

Value	Summary
-h, --help	Show this help message and exit

11.16. BAREMETAL DEPLOY TEMPLATE CREATE

Create a new deploy template

Usage:

```
openstack baremetal deploy template create [-h]
                                           [-f {json,shell,table,value,yaml}]
                                           [-c COLUMN] [--noindent]
                                           [--prefix PREFIX]
                                           [--max-width <integer>]
                                           [--fit-width]
                                           [--print-empty]
                                           [--uuid <uuid>]
                                           [--extra <key=value>]
                                           --steps <steps>
                                           <name>
```

Table 11.58. Positional arguments

Value	Summary
<name>	Unique name for this deploy template. must be a valid trait name

Table 11.59. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--uuid <uuid>	Uuid of the deploy template.

Value	Summary
<code>--extra <key=value></code>	Record arbitrary key/value metadata. can be specified multiple times.
<code>--steps <steps></code>	The deploy steps in json format. may be the path to a file containing the deploy steps; OR -, with the deploy steps being read from standard input; OR a string. The value should be a list of deploy-step dictionaries; each dictionary should have keys <i>interface</i> , <i>step</i> , <i>args</i> and <i>priority</i> .

Table 11.60. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 11.61. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.62. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 11.63. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show.

11.17. BAREMETAL DEPLOY TEMPLATE DELETE

Delete deploy template(s).

Usage:

```
openstack baremetal deploy template delete [-h]
                                         <template> [<template> ...]
```

Table 11.64. Positional arguments

Value	Summary
<code><template></code>	Name(s) or uuid(s) of the deploy template(s) to delete.

Table 11.65. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

11.18. BAREMETAL DEPLOY TEMPLATE LIST

List baremetal deploy templates.

Usage:

```
openstack baremetal deploy template list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--sort-column SORT_COLUMN]
                                         [--limit <limit>]
                                         [--marker <template>]
                                         [--sort <key>[:<direction>]]
                                         [--long | --fields <field> [<field> ...]]
```

Table 11.66. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--limit <limit>	Maximum number of deploy templates to return per request, 0 for no limit. Default is the maximum number used by the Baremetal API Service.
--marker <template>	Deploytemplate uuid (for example, of the last deploy template in the list from a previous request). Returns the list of deploy templates after this UUID.
--sort <key>[:<direction>]	Sort output by specified deploy template fields and directions (asc or desc) (default: asc). Multiple fields and directions can be specified, separated by comma.
--long	Show detailed information about deploy templates.
--fields <field> [<field> ...]	One or more deploy template fields. only these fields will be fetched from the server. Can not be used when <i>--long</i> is specified.

Table 11.67. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.68. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 11.69. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.70. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.19. BAREMETAL DEPLOY TEMPLATE SET

Set baremetal deploy template properties.

Usage:

```
openstack baremetal deploy template set [-h] [--name <name>]
                                     [--steps <steps>]
                                     [--extra <key=value>]
                                     <template>
```

Table 11.71. Positional arguments

Value	Summary
<code><template></code>	Name or uuid of the deploy template

Table 11.72. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--name <name></code>	Set unique name of the deploy template. must be a valid trait name.
<code>--steps <steps></code>	The deploy steps in json format. may be the path to a file containing the deploy steps; OR <code>-</code> , with the deploy steps being read from standard input; OR a string. The value should be a list of deploy-step dictionaries; each dictionary should have keys <i>interface</i> , <i>step</i> , <i>args</i> and <i>priority</i> .
<code>--extra <key=value></code>	Extra to set on this baremetal deploy template (repeat option to set multiple extras).

11.20. BAREMETAL DEPLOY TEMPLATE SHOW

Show baremetal deploy template details.

Usage:

```
openstack baremetal deploy template show [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--fields <field> [<field> ...]]
                                         <template>
```

Table 11.73. Positional arguments

Value	Summary
<template>	Name or uuid of the deploy template.

Table 11.74. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--fields <field> [<field> ...]	One or more deploy template fields. only these fields will be fetched from the server.

Table 11.75. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 11.76. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.77. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 11.78. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.21. BAREMETAL DEPLOY TEMPLATE UNSET

Unset baremetal deploy template properties.

Usage:

```
openstack baremetal deploy template unset [-h] [--extra <key>]
<template>
```

Table 11.79. Positional arguments

Value	Summary
<code><template></code>	Name or uuid of the deploy template

Table 11.80. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--extra <key></code>	Extra to unset on this baremetal deploy template (repeat option to unset multiple extras).

11.22. BAREMETAL DRIVER LIST

List the enabled drivers.

Usage:

```

openstack baremetal driver list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--type <type>] [--long]

```

Table 11.81. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--type <type>	Type of driver ("classic" or "dynamic"). the default is to list all of them.
--long	Show detailed information about the drivers.

Table 11.82. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.83. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 11.84. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.85. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.23. BAREMETAL DRIVER PASSTHRU CALL

Call a vendor passthru method for a driver.

Usage:

```
openstack baremetal driver passthru call [-h]
      [-f {json,shell,table,value,yaml}]
      [-c COLUMN] [--noindent]
      [--prefix PREFIX]
      [--max-width <integer>]
      [--fit-width] [--print-empty]
      [--arg <key=value>]
      [--http-method <http-method>]
      <driver> <method>
```

Table 11.86. Positional arguments

Value	Summary
<code><driver></code>	Name of the driver.
<code><method></code>	Vendor passthru method to be called.

Table 11.87. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--arg <key=value></code>	Argument to pass to the passthru method (repeat option to specify multiple arguments).
<code>--http-method <http-method></code>	The http method to use in the passthru request. one of DELETE, GET, PATCH, POST, PUT. Defaults to <i>POST</i> .

Table 11.88. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 11.89. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.90. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 11.91. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.24. BAREMETAL DRIVER PASSTHRU LIST

List available vendor passthru methods for a driver.

Usage:

```
openstack baremetal driver passthru list [-h]
      [-f {csv,json,table,value,yaml}]
      [-c COLUMN]
      [--quote {all,minimal,none,nonnumeric}]
      [--noindent]
      [--max-width <integer>]
```

```

[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]
<driver>

```

Table 11.92. Positional arguments

Value	Summary
<driver>	Name of the driver.

Table 11.93. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 11.94. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.95. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 11.96. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.97. Table formatter options

Value	Summary
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Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.25. BAREMETAL DRIVER PROPERTY LIST

List the driver properties.

Usage:

```
openstack baremetal driver property list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--sort-column SORT_COLUMN]
                                         <driver>
```

Table 11.98. Positional arguments

Value	Summary
<code><driver></code>	Name of the driver.

Table 11.99. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 11.100. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table

Value	Summary
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.101. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 11.102. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.103. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

11.26. BAREMETAL DRIVER RAID PROPERTY LIST

List a driver's RAID logical disk properties.

Usage:

```

openstack baremetal driver raid property list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width]

```

```

[--print-empty]
[--sort-column SORT_COLUMN]
<driver>

```

Table 11.104. Positional arguments

Value	Summary
<driver>	Name of the driver.

Table 11.105. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 11.106. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.107. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 11.108. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.109. Table formatter options

Value	Summary
-------	---------

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.27. BAREMETAL DRIVER SHOW

Show information about a driver.

Usage:

```
openstack baremetal driver show [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <driver>
```

Table 11.110. Positional arguments

Value	Summary
<code><driver></code>	Name of the driver.

Table 11.111. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 11.112. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 11.113. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.114. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 11.115. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

11.28. BAREMETAL INTROSPECTION ABORT

Abort running introspection for node.

Usage:

```
openstack baremetal introspection abort [-h] node
```

Table 11.116. Positional arguments

Value	Summary
node	Baremetal node uuid or name

Table 11.117. Command arguments

Value	Summary
-h, --help	Show this help message and exit

11.29. BAREMETAL INTROSPECTION DATA SAVE

Save or display raw introspection data.

Usage:

```
openstack baremetal introspection data save [-h] [--file <filename>]
node
```

Table 11.118. Positional arguments

Value	Summary
node	Baremetal node uuid or name

Table 11.119. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--file <filename>	Downloaded introspection data filename (default: stdout)

11.30. BAREMETAL INTROSPECTION INTERFACE LIST

List interface data including attached switch port information.

Usage:

```
openstack baremetal introspection interface list [-h]
[-f {csv,json,table,value,yaml}]
[-c COLUMN]
[--quote {all,minimal,none,nonnumeric}]
[--noindent]
[--max-width <integer>]
[--fit-width]
[--print-empty]
[--sort-column SORT_COLUMN]
[--vlan VLAN]
[--long | --fields <field> [<field> ...]]
node_id
```

Table 11.120. Positional arguments

Value	Summary
node_id	Baremetal node uuid or name

Table 11.121. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--vlan VLAN	List only interfaces configured for this vlan id, can be repeated
--long	Show detailed information about interfaces.
--fields <field> [<field> ...]	Display one or more fields. can not be used when --long is specified

Table 11.122. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.123. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 11.124. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.125. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.31. BAREMETAL INTROSPECTION INTERFACE SHOW

Show interface data including attached switch port information.

Usage:

```
openstack baremetal introspection interface show [-h]
          [-f {json,shell,table,value,yaml}]
          [-c COLUMN]
          [--noindent]
          [--prefix PREFIX]
          [--max-width <integer>]
          [--fit-width]
          [--print-empty]
          [--fields <field> [<field> ...]]
          node_id interface
```

Table 11.126. Positional arguments

Value	Summary
<code>node_id</code>	Baremetal node uuid or name
<code>interface</code>	Interface name

Table 11.127. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--fields <field> [<field> ...]</code>	Display one or more fields.

Table 11.128. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 11.129. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.130. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 11.131. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.32. BAREMETAL INTROSPECTION LIST

List introspection statuses

Usage:

```
openstack baremetal introspection list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
```

```

[--sort-column SORT_COLUMN]
[--marker MARKER]
[--limit LIMIT]

```

Table 11.132. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--marker MARKER	Uuid of the last item on the previous page
--limit LIMIT	The amount of items to return

Table 11.133. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.134. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 11.135. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.136. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

11.33. BAREMETAL INTROSPECTION REPROCESS

Reprocess stored introspection data

Usage:

```
openstack baremetal introspection reprocess [-h] node
```

Table 11.137. Positional arguments

Value	Summary
node	Baremetal node uuid or name

Table 11.138. Command arguments

Value	Summary
-h, --help	Show this help message and exit

11.34. BAREMETAL INTROSPECTION RULE DELETE

Delete an introspection rule.

Usage:

```
openstack baremetal introspection rule delete [-h] uuid
```

Table 11.139. Positional arguments

Value	Summary
uuid	Rule uuid

Table 11.140. Command arguments

Value	Summary
-h, --help	Show this help message and exit

11.35. BAREMETAL INTROSPECTION RULE IMPORT

Import one or several introspection rules from a JSON/YAML file.

Usage:

```
openstack baremetal introspection rule import [-h]
                                             [-f {csv,json,table,value,yaml}]
                                             [-c COLUMN]
                                             [--quote {all,minimal,none,nonnumeric}]
                                             [--noindent]
                                             [--max-width <integer>]
                                             [--fit-width]
                                             [--print-empty]
                                             [--sort-column SORT_COLUMN]
                                             file
```

Table 11.141. Positional arguments

Value	Summary
file	Json or yaml file to import, may contain one or several rules

Table 11.142. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 11.143. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.144. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 11.145. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.146. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.36. BAREMETAL INTROSPECTION RULE LIST

List all introspection rules.

Usage:

```
openstack baremetal introspection rule list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width]
                                         [--print-empty]
                                         [--sort-column SORT_COLUMN]
```

Table 11.147. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 11.148. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.149. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 11.150. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.151. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.37. BAREMETAL INTROSPECTION RULE PURGE

Drop all introspection rules.

Usage:

```
openstack baremetal introspection rule purge [-h]
```

Table 11.152. Command arguments

Value	Summary
-h, --help	Show this help message and exit

11.38. BAREMETAL INTROSPECTION RULE SHOW

Show an introspection rule.

Usage:

```
openstack baremetal introspection rule show [-h]
                                           [-f {json,shell,table,value,yaml}]
                                           [-c COLUMN] [--noindent]
                                           [--prefix PREFIX]
                                           [--max-width <integer>]
                                           [--fit-width]
                                           [--print-empty]
                                           uuid
```

Table 11.153. Positional arguments

Value	Summary
uuid	Rule uuid

Table 11.154. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 11.155. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 11.156. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.157. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 11.158. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.39. BAREMETAL INTROSPECTION START

Start the introspection.

Usage:

```

openstack baremetal introspection start [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--sort-column SORT_COLUMN]
                                         [--wait] [--check-errors]
node [node ...]

```

Table 11.159. Positional arguments

Value	Summary
node	Baremetal node uuid(s) or name(s)

Table 11.160. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Value	Summary
<code>--wait</code>	Wait for introspection to finish; the result will be displayed in the end
<code>--check-errors</code>	Check if errors occurred during the introspection; if any error occurs only the errors are displayed; can only be used with <code>--wait</code>

Table 11.161. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.162. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 11.163. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.164. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.40. BAREMETAL INTROSPECTION STATUS

Get introspection status.

Usage:

```
openstack baremetal introspection status [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         node
```

Table 11.165. Positional arguments

Value	Summary
node	Baremetal node uuid or name

Table 11.166. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 11.167. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 11.168. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.169. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 11.170. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.41. BAREMETAL NODE ABORT

Set provision state of baremetal node to *abort*

Usage:

```
openstack baremetal node abort [-h] <node>
```

Table 11.171. Positional arguments

Value	Summary
<code><node></code>	Name or uuid of the node.

Table 11.172. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

11.42. BAREMETAL NODE ADD TRAIT

Add traits to a node.

Usage:

```
openstack baremetal node add trait [-h] <node> <trait> [<trait> ...]
```

Table 11.173. Positional arguments

Value	Summary
<code><node></code>	Name or uuid of the node
<code><trait></code>	Trait(s) to add

Table 11.174. Command arguments

Value	Summary
-h, --help	Show this help message and exit

11.43. BAREMETAL NODE ADOPT

Set provision state of baremetal node to *adopt*

Usage:

```
openstack baremetal node adopt [-h] [--wait [<time-out>]] <node>
```

Table 11.175. Positional arguments

Value	Summary
<node>	Name or uuid of the node.

Table 11.176. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--wait [<time-out>]	Wait for a node to reach the desired state, active. Optionally takes a timeout value (in seconds). The default value is 0, meaning it will wait indefinitely.

11.44. BAREMETAL NODE BIOS SETTING LIST

List a node's BIOS settings.

Usage:

```
openstack baremetal node bios setting list [-h]
      [-f {csv,json,table,value,yaml}]
      [-c COLUMN]
      [--quote {all,minimal,none,nonnumeric}]
      [--noindent]
      [--max-width <integer>]
      [--fit-width]
      [--print-empty]
      [--sort-column SORT_COLUMN]
      <node>
```

Table 11.177. Positional arguments

Value	Summary
<node>	Name or uuid of the node

Table 11.178. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 11.179. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.180. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 11.181. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.182. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show.

11.45. BAREMETAL NODE BIOS SETTING SHOW

Show a specific BIOS setting for a node.

Usage:

```
openstack baremetal node bios setting show [-h]
                                           [-f {json,shell,table,value,yaml}]
                                           [-c COLUMN] [--noindent]
                                           [--prefix PREFIX]
                                           [--max-width <integer>]
                                           [--fit-width]
                                           [--print-empty]
                                           <node> <setting name>
```

Table 11.183. Positional arguments

Value	Summary
<code><node></code>	Name or uuid of the node
<code><setting name></code>	Setting name to show

Table 11.184. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 11.185. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 11.186. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.187. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 11.188. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

11.46. BAREMETAL NODE BOOT DEVICE SET

Set the boot device for a node

Usage:

```
openstack baremetal node boot device set [-h] [--persistent]
    <node> <device>
```

Table 11.189. Positional arguments

Value	Summary
<node>	Name or uuid of the node
<device>	One of bios, cdrom, disk, pxe, safe, wanboot

Table 11.190. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--persistent	Make changes persistent for all future boots

11.47. BAREMETAL NODE BOOT DEVICE SHOW

Show the boot device information for a node

Usage:

```
openstack baremetal node boot device show [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--supported]
                                         <node>
```

Table 11.191. Positional arguments

Value	Summary
<node>	Name or uuid of the node

Table 11.192. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--supported	Show the supported boot devices

Table 11.193. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 11.194. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.195. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 11.196. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.48. BAREMETAL NODE CLEAN

Set provision state of baremetal node to *clean*

Usage:

```
openstack baremetal node clean [-h] [--wait [<time-out>]] --clean-steps
                               <clean-steps>
                               <node>
```

Table 11.197. Positional arguments

Value	Summary
<code><node></code>	Name or uuid of the node.

Table 11.198. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--wait [<time-out>]</code>	Wait for a node to reach the desired state, manageable. Optionally takes a timeout value (in seconds). The default value is 0, meaning it will wait indefinitely.
<code>--clean-steps <clean-steps></code>	The clean steps in json format. may be the path to a file containing the clean steps; OR -, with the clean steps being read from standard input; OR a string. The value should be a list of clean-step dictionaries; each dictionary should have keys <i>interface</i> and <i>step</i> , and optional key <i>args</i> .

11.49. BAREMETAL NODE CONSOLE DISABLE

Disable console access for a node

Usage:

```
openstack baremetal node console disable [-h] <node>
```

Table 11.199. Positional arguments

Value	Summary
<node>	Name or uuid of the node

Table 11.200. Command arguments

Value	Summary
-h, --help	Show this help message and exit

11.50. BAREMETAL NODE CONSOLE ENABLE

Enable console access for a node

Usage:

```
openstack baremetal node console enable [-h] <node>
```

Table 11.201. Positional arguments

Value	Summary
<node>	Name or uuid of the node

Table 11.202. Command arguments

Value	Summary
-h, --help	Show this help message and exit

11.51. BAREMETAL NODE CONSOLE SHOW

Show console information for a node

Usage:

```
openstack baremetal node console show [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
```

```

[--max-width <integer>]
[--fit-width] [--print-empty]
<node>

```

Table 11.203. Positional arguments

Value	Summary
<node>	Name or uuid of the node

Table 11.204. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 11.205. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 11.206. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.207. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 11.208. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

11.52. BAREMETAL NODE CREATE

Register a new node with the baremetal service

Usage:

```

openstack baremetal node create [-h] [-f {json,shell,table,value,yaml}]
    [-c COLUMN] [--noindent]
    [--prefix PREFIX]
    [--max-width <integer>] [--fit-width]
    [--print-empty]
    [--chassis-uuid <chassis>] --driver
    <driver> [--driver-info <key=value>]
    [--property <key=value>]
    [--extra <key=value>] [--uuid <uuid>]
    [--name <name>]
    [--bios-interface <bios_interface>]
    [--boot-interface <boot_interface>]
    [--console-interface <console_interface>]
    [--deploy-interface <deploy_interface>]
    [--inspect-interface <inspect_interface>]
    [--management-interface <management_interface>]
    [--network-interface <network_interface>]
    [--power-interface <power_interface>]
    [--raid-interface <raid_interface>]
    [--rescue-interface <rescue_interface>]
    [--storage-interface <storage_interface>]
    [--vendor-interface <vendor_interface>]
    [--resource-class <resource_class>]
    [--conductor-group <conductor_group>]
    [--automated-clean] [--owner <owner>]
    [--description <description>]

```

Table 11.209. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--chassis-uuid <chassis>	Uuid of the chassis that this node belongs to.

Value	Summary
<code>--driver <driver></code>	Driver used to control the node [required].
<code>--driver-info <key=value></code>	Key/value pair used by the driver, such as out-of-band management credentials. Can be specified multiple times.
<code>--property <key=value></code>	Key/value pair describing the physical characteristics of the node. This is exported to Nova and used by the scheduler. Can be specified multiple times.
<code>--extra <key=value></code>	Record arbitrary key/value metadata. can be specified multiple times.
<code>--uuid <uuid></code>	Unique uuid for the node.
<code>--name <name></code>	Unique name for the node.
<code>--bios-interface <bios_interface></code>	Bios interface used by the node's driver. this is only applicable when the specified <code>--driver</code> is a hardware type.
<code>--boot-interface <boot_interface></code>	Boot interface used by the node's driver. this is only applicable when the specified <code>--driver</code> is a hardware type.
<code>--console-interface <console_interface></code>	Console interface used by the node's driver. this is only applicable when the specified <code>--driver</code> is a hardware type.
<code>--deploy-interface <deploy_interface></code>	Deploy interface used by the node's driver. this is only applicable when the specified <code>--driver</code> is a hardware type.
<code>--inspect-interface <inspect_interface></code>	Inspect interface used by the node's driver. this is only applicable when the specified <code>--driver</code> is a hardware type.
<code>--management-interface <management_interface></code>	Management interface used by the node's driver. this is only applicable when the specified <code>--driver</code> is a hardware type.
<code>--network-interface <network_interface></code>	Network interface used for switching node to cleaning/provisioning networks.
<code>--power-interface <power_interface></code>	Power interface used by the node's driver. this is only applicable when the specified <code>--driver</code> is a hardware type.

Value	Summary
<code>--raid-interface <raid_interface></code>	Raid interface used by the node's driver. this is only applicable when the specified <code>--driver</code> is a hardware type.
<code>--rescue-interface <rescue_interface></code>	Rescue interface used by the node's driver. this is only applicable when the specified <code>--driver</code> is a hardware type.
<code>--storage-interface <storage_interface></code>	Storage interface used by the node's driver.
<code>--vendor-interface <vendor_interface></code>	Vendor interface used by the node's driver. this is only applicable when the specified <code>--driver</code> is a hardware type.
<code>--resource-class <resource_class></code>	Resource class for mapping nodes to nova flavors
<code>--conductor-group <conductor_group></code>	Conductor group the node will belong to
<code>--automated-clean</code>	Enable automated cleaning for the node
<code>--owner <owner></code>	Owner of the node.
<code>--description <description></code>	Description for the node.

Table 11.210. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 11.211. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.212. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 11.213. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.53. BAREMETAL NODE DELETE

Unregister baremetal node(s)

Usage:

```
openstack baremetal node delete [-h] <node> [<node> ...]
```

Table 11.214. Positional arguments

Value	Summary
<code><node></code>	Node(s) to delete (name or uuid)

Table 11.215. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

11.54. BAREMETAL NODE DEPLOY

Set provision state of baremetal node to *deploy*

Usage:

```
openstack baremetal node deploy [-h] [--wait [<time-out>]]
                                [--config-drive <config-drive>]
                                <node>
```

Table 11.216. Positional arguments

Value	Summary
<node>	Name or uuid of the node.

Table 11.217. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--wait [<time-out>]	Wait for a node to reach the desired state, active. Optionally takes a timeout value (in seconds). The default value is 0, meaning it will wait indefinitely.
--config-drive <config-drive>	A gzipped, base64-encoded configuration drive string OR the path to the configuration drive file OR the path to a directory containing the config drive files OR a JSON object to build config drive from. In case it's a directory, a config drive will be generated from it. In case it's a JSON object with optional keys meta_data , user_data and network_data , a config drive will be generated on the server side (see the bare metal API reference for more details).

11.55. BAREMETAL NODE INJECT NMI

Inject NMI to baremetal node

Usage:

```
openstack baremetal node inject nmi [-h] <node>
```

Table 11.218. Positional arguments

Value	Summary
<node>	Name or uuid of the node.

Table 11.219. Command arguments

Value	Summary
-h, --help	Show this help message and exit

11.56. BAREMETAL NODE INSPECT

Set provision state of baremetal node to *inspect*

Usage:

```
openstack baremetal node inspect [-h] [--wait [<time-out>]] <node>
```

Table 11.220. Positional arguments

Value	Summary
<node>	Name or uuid of the node.

Table 11.221. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--wait [<time-out>]	Wait for a node to reach the desired state, manageable. Optionally takes a timeout value (in seconds). The default value is 0, meaning it will wait indefinitely.

11.57. BAREMETAL NODE LIST

List baremetal nodes

Usage:

```
openstack baremetal node list [-h] [-f {csv,json,table,value,yaml}]
    [-c COLUMN]
    [--quote {all,minimal,none,nonnumeric}]
    [--noindent] [--max-width <integer>]
    [--fit-width] [--print-empty]
    [--sort-column SORT_COLUMN]
    [--limit <limit>] [--marker <node>]
    [--sort <key>[:<direction>]]
    [--maintenance | --no-maintenance]
    [--fault <fault>]
    [--associated | --unassociated]
    [--provision-state <provision state>]
    [--driver <driver>]
    [--resource-class <resource class>]
    [--conductor-group <conductor_group>]
    [--conductor <conductor>]
    [--chassis <chassis UUID>]
    [--owner <owner>]
    [--description-contains <description_contains>]
    [--long | --fields <field> [<field> ...]]
```

Table 11.222. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--limit <limit>	Maximum number of nodes to return per request, 0 for no limit. Default is the maximum number used by the Baremetal API Service.
--marker <node>	Node uuid (for example, of the last node in the list from a previous request). Returns the list of nodes after this UUID.
--sort <key>[:<direction>]	Sort output by specified node fields and directions (asc or desc) (default: asc). Multiple fields and directions can be specified, separated by comma.
--maintenance	Limit list to nodes in maintenance mode
--no-maintenance	Limit list to nodes not in maintenance mode
--fault <fault>	List nodes in specified fault.
--associated	List only nodes associated with an instance.
--unassociated	List only nodes not associated with an instance.
--provision-state <provision state>	List nodes in specified provision state.
--driver <driver>	Limit list to nodes with driver <driver>
--resource-class <resource class>	Limit list to nodes with resource class <resource class>
--conductor-group <conductor_group>	Limit list to nodes with conductor group <conductor group>
--conductor <conductor>	Limit list to nodes with conductor <conductor>
--chassis <chassis UUID>	Limit list to nodes of this chassis
--owner <owner>	Limit list to nodes with owner <owner>
--description-contains <description_contains>	Limit list to nodes with description contains <description_contains>
--long	Show detailed information about the nodes.

Value	Summary
<code>--fields <field> [<field> ...]</code>	One or more node fields. only these fields will be fetched from the server. Can not be used when <code>--long</code> is specified.

Table 11.223. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.224. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 11.225. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.226. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.58. BAREMETAL NODE MAINTENANCE SET

Set baremetal node to maintenance mode

Usage:

```
openstack baremetal node maintenance set [-h] [--reason <reason>]
<node>
```

Table 11.227. Positional arguments

Value	Summary
<node>	Name or uuid of the node.

Table 11.228. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--reason <reason>	Reason for setting maintenance mode.

11.59. BAREMETAL NODE MAINTENANCE UNSET

Unset baremetal node from maintenance mode

Usage:

```
openstack baremetal node maintenance unset [-h] <node>
```

Table 11.229. Positional arguments

Value	Summary
<node>	Name or uuid of the node.

Table 11.230. Command arguments

Value	Summary
-h, --help	Show this help message and exit

11.60. BAREMETAL NODE MANAGE

Set provision state of baremetal node to *manage*

Usage:

```
openstack baremetal node manage [-h] [--wait [<time-out>]] <node>
```

Table 11.231. Positional arguments

Value	Summary
<node>	Name or uuid of the node.

Table 11.232. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--wait [<time-out>]	Wait for a node to reach the desired state, manageable. Optionally takes a timeout value (in seconds). The default value is 0, meaning it will wait indefinitely.

11.61. BAREMETAL NODE PASSTHRU CALL

Call a vendor passthru method for a node

Usage:

```
openstack baremetal node passthru call [-h] [--arg <key=value>]
    [--http-method <http-method>]
    <node> <method>
```

Table 11.233. Positional arguments

Value	Summary
<node>	Name or uuid of the node
<method>	Vendor passthru method to be executed

Table 11.234. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--arg <key=value>	Argument to pass to the passthru method (repeat option to specify multiple arguments)
--http-method <http-method>	The http method to use in the passthru request. one of DELETE, GET, PATCH, POST, PUT. Defaults to POST.

11.62. BAREMETAL NODE PASSTHRU LIST

List vendor passthru methods for a node

Usage:

```
openstack baremetal node passthru list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]
                                     <node>
```

Table 11.235. Positional arguments

Value	Summary
<node>	Name or uuid of the node

Table 11.236. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 11.237. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.238. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 11.239. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.240. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.63. BAREMETAL NODE POWER OFF

Power off a node

Usage:

```
openstack baremetal node power off [-h]
                                   [--power-timeout <power-timeout>]
                                   [--soft]
                                   <node>
```

Table 11.241. Positional arguments

Value	Summary
<code><node></code>	Name or uuid of the node.

Table 11.242. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--power-timeout <power-timeout></code>	Timeout (in seconds, positive integer) to wait for the target power state before erroring out.
<code>--soft</code>	Request graceful power-off.

11.64. BAREMETAL NODE POWER ON

Power on a node

Usage:

```
openstack baremetal node power on [-h]
                                [--power-timeout <power-timeout>]
                                <node>
```

Table 11.243. Positional arguments

Value	Summary
<node>	Name or uuid of the node.

Table 11.244. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--power-timeout <power-timeout>	Timeout (in seconds, positive integer) to wait for the target power state before erroring out.

11.65. BAREMETAL NODE PROVIDE

Set provision state of baremetal node to *provide*

Usage:

```
openstack baremetal node provide [-h] [--wait [<time-out>]] <node>
```

Table 11.245. Positional arguments

Value	Summary
<node>	Name or uuid of the node.

Table 11.246. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--wait [<time-out>]	Wait for a node to reach the desired state, available. Optionally takes a timeout value (in seconds). The default value is 0, meaning it will wait indefinitely.

11.66. BAREMETAL NODE REBOOT

Reboot baremetal node

Usage:

```
openstack baremetal node reboot [-h] [--soft]
                                [--power-timeout <power-timeout>]
                                <node>
```

Table 11.247. Positional arguments

Value	Summary
<node>	Name or uuid of the node.

Table 11.248. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--soft	Request graceful reboot.
--power-timeout <power-timeout>	Timeout (in seconds, positive integer) to wait for the target power state before erroring out.

11.67. BAREMETAL NODE REBUILD

Set provision state of baremetal node to *rebuild*

Usage:

```
openstack baremetal node rebuild [-h] [--wait [<time-out>]]
                                [--config-drive <config-drive>]
                                <node>
```

Table 11.249. Positional arguments

Value	Summary
<node>	Name or uuid of the node.

Table 11.250. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Value	Summary
<code>--wait [<time-out>]</code>	Wait for a node to reach the desired state, active. Optionally takes a timeout value (in seconds). The default value is 0, meaning it will wait indefinitely.
<code>--config-drive <config-drive></code>	A gzipped, base64-encoded configuration drive string OR the path to the configuration drive file OR the path to a directory containing the config drive files OR a JSON object to build config drive from. In case it's a directory, a config drive will be generated from it. In case it's a JSON object with optional keys meta_data , user_data and network_data , a config drive will be generated on the server side (see the bare metal API reference for more details).

11.68. BAREMETAL NODE REMOVE TRAIT

Remove trait(s) from a node.

Usage:

```
openstack baremetal node remove trait [-h] [--all]
    <node> [<trait> [<trait> ...]]
```

Table 11.251. Positional arguments

Value	Summary
<code><node></code>	Name or uuid of the node
<code><trait></code>	Trait(s) to remove

Table 11.252. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--all</code>	Remove all traits

11.69. BAREMETAL NODE RESCUE

Set provision state of baremetal node to *rescue*

Usage:

```

openstack baremetal node rescue [-h] [--wait [<time-out>]]
    --rescue-password <rescue-password>
    <node>

```

Table 11.253. Positional arguments

Value	Summary
<node>	Name or uuid of the node.

Table 11.254. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--wait [<time-out>]	Wait for a node to reach the desired state, rescue. Optionally takes a timeout value (in seconds). The default value is 0, meaning it will wait indefinitely.
--rescue-password <rescue-password>	The password that will be used to login to the rescue ramdisk. The value should be a non-empty string.

11.70. BAREMETAL NODE SET

Set baremetal properties

Usage:

```

openstack baremetal node set [-h] [--instance-uuid <uuid>]
    [--name <name>]
    [--chassis-uuid <chassis UUID>]
    [--driver <driver>]
    [--bios-interface <bios_interface> | --reset-bios-interface]
    [--boot-interface <boot_interface> | --reset-boot-interface]
    [--console-interface <console_interface> | --reset-console-interface]
    [--deploy-interface <deploy_interface> | --reset-deploy-interface]
    [--inspect-interface <inspect_interface> | --reset-inspect-interface]
    [--management-interface <management_interface> | --reset-management-
interface]
    [--network-interface <network_interface> | --reset-network-interface]
    [--power-interface <power_interface> | --reset-power-interface]
    [--raid-interface <raid_interface> | --reset-raid-interface]
    [--rescue-interface <rescue_interface> | --reset-rescue-interface]
    [--storage-interface <storage_interface> | --reset-storage-interface]
    [--vendor-interface <vendor_interface> | --reset-vendor-interface]
    [--reset-interfaces]
    [--resource-class <resource_class>]
    [--conductor-group <conductor_group>]
    [--automated-clean] [--protected]
    [--protected-reason <protected_reason>]

```

```

[--target-raid-config <target_raid_config>]
[--property <key=value>]
[--extra <key=value>]
[--driver-info <key=value>]
[--instance-info <key=value>]
[--owner <owner>]
[--description <description>]
<node>

```

Table 11.255. Positional arguments

Value	Summary
<node>	Name or uuid of the node.

Table 11.256. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--instance-uuid <uuid>	Set instance uuid of node to <uuid>
--name <name>	Set the name of the node
--chassis-uuid <chassis UUID>	Set the chassis for the node
--driver <driver>	Set the driver for the node
--bios-interface <bios_interface>	Set the bios interface for the node
--reset-bios-interface	Reset the bios interface to its hardware type default
--boot-interface <boot_interface>	Set the boot interface for the node
--reset-boot-interface	Reset the boot interface to its hardware type default
--console-interface <console_interface>	Set the console interface for the node
--reset-console-interface	Reset the console interface to its hardware type default
--deploy-interface <deploy_interface>	Set the deploy interface for the node
--reset-deploy-interface	Reset the deploy interface to its hardware type default
--inspect-interface <inspect_interface>	Set the inspect interface for the node

Value	Summary
<code>--reset-inspect-interface</code>	Reset the inspect interface to its hardware type default
<code>--management-interface <management_interface></code>	Set the management interface for the node
<code>--reset-management-interface</code>	Reset the management interface to its hardware type default
<code>--network-interface <network_interface></code>	Set the network interface for the node
<code>--reset-network-interface</code>	Reset the network interface to its hardware type default
<code>--power-interface <power_interface></code>	Set the power interface for the node
<code>--reset-power-interface</code>	Reset the power interface to its hardware type default
<code>--raid-interface <raid_interface></code>	Set the raid interface for the node
<code>--reset-raid-interface</code>	Reset the raid interface to its hardware type default
<code>--rescue-interface <rescue_interface></code>	Set the rescue interface for the node
<code>--reset-rescue-interface</code>	Reset the rescue interface to its hardware type default
<code>--storage-interface <storage_interface></code>	Set the storage interface for the node
<code>--reset-storage-interface</code>	Reset the storage interface to its hardware type default
<code>--vendor-interface <vendor_interface></code>	Set the vendor interface for the node
<code>--reset-vendor-interface</code>	Reset the vendor interface to its hardware type default
<code>--reset-interfaces</code>	Reset all interfaces not specified explicitly to their default implementations. Only valid with <code>--driver</code> .
<code>--resource-class <resource_class></code>	Set the resource class for the node
<code>--conductor-group <conductor_group></code>	Set the conductor group for the node
<code>--automated-clean</code>	Enable automated cleaning for the node

Value	Summary
<code>--protected</code>	Mark the node as protected
<code>--protected-reason <protected_reason></code>	Set the reason of marking the node as protected
<code>--target-raid-config <target_raid_config></code>	Set the target raid configuration (json) for the node. This can be one of: 1. a file containing JSON data of the RAID configuration; 2. "-" to read the contents from standard input; or 3. a valid JSON string.
<code>--property <key=value></code>	Property to set on this baremetal node (repeat option to set multiple properties)
<code>--extra <key=value></code>	Extra to set on this baremetal node (repeat option to set multiple extras)
<code>--driver-info <key=value></code>	Driver information to set on this baremetal node (repeat option to set multiple driver infos)
<code>--instance-info <key=value></code>	Instance information to set on this baremetal node (repeat option to set multiple instance infos)
<code>--owner <owner></code>	Set the owner for the node
<code>--description <description></code>	Set the description for the node

11.71. BAREMETAL NODE SHOW

Show baremetal node details

Usage:

```
openstack baremetal node show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent]
                             [--prefix PREFIX] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--instance]
                             [--fields <field> [<field> ...]]
                             <node>
```

Table 11.257. Positional arguments

Value	Summary
<code><node></code>	Name or uuid of the node (or instance uuid if --instance is specified)

Table 11.258. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--instance	<node> is an instance uuid.
--fields <field> [<field> ...]	One or more node fields. only these fields will be fetched from the server.

Table 11.259. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 11.260. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.261. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 11.262. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

11.72. BAREMETAL NODE TRAIT LIST

List a node's traits.

Usage:

```
openstack baremetal node trait list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]
                                     <node>
```

Table 11.263. Positional arguments

Value	Summary
<node>	Name or uuid of the node

Table 11.264. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 11.265. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.266. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 11.267. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.268. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

11.73. BAREMETAL NODE UNDEPLOY

Set provision state of baremetal node to *deleted*

Usage:

```
openstack baremetal node undeploy [-h] [--wait [<time-out>]] <node>
```

Table 11.269. Positional arguments

Value	Summary
<node>	Name or uuid of the node.

Table 11.270. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--wait [<time-out>]	Wait for a node to reach the desired state, available. Optionally takes a timeout value (in seconds). The default value is 0, meaning it will wait indefinitely.

11.74. BAREMETAL NODE UNRESCUE

Set provision state of baremetal node to *unrescue*

Usage:

```
openstack baremetal node unrescue [-h] [--wait [<time-out>]] <node>
```

Table 11.271. Positional arguments

Value	Summary
<node>	Name or uuid of the node.

Table 11.272. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--wait [<time-out>]	Wait for a node to reach the desired state, active. Optionally takes a timeout value (in seconds). The default value is 0, meaning it will wait indefinitely.

11.75. BAREMETAL NODE UNSET

Unset baremetal properties

Usage:

```
openstack baremetal node unset [-h] [--instance-uuid] [--name]
                               [--resource-class]
                               [--target-raid-config]
                               [--property <key>] [--extra <key>]
                               [--driver-info <key>]
                               [--instance-info <key>] [--chassis-uuid]
                               [--bios-interface] [--boot-interface]
                               [--console-interface]
                               [--deploy-interface]
                               [--inspect-interface]
                               [--management-interface]
                               [--network-interface]
                               [--power-interface] [--raid-interface]
                               [--rescue-interface]
                               [--storage-interface]
                               [--vendor-interface] [--conductor-group]
                               [--automated-clean] [--protected]
                               [--protected-reason] [--owner]
                               [--description]
                               <node>
```

Table 11.273. Positional arguments

Value	Summary
<node>	Name or uuid of the node.

Table 11.274. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--instance-uuid	Unset instance uuid on this baremetal node
--name	Unset the name of the node
--resource-class	Unset the resource class of the node
--target-raid-config	Unset the target raid configuration of the node
--property <key>	Property to unset on this baremetal node (repeat option to unset multiple properties)
--extra <key>	Extra to unset on this baremetal node (repeat option to unset multiple extras)
--driver-info <key>	Driver information to unset on this baremetal node (repeat option to unset multiple driver informations)
--instance-info <key>	Instance information to unset on this baremetal node (repeat option to unset multiple instance informations)
--chassis-uuid	Unset chassis uuid on this baremetal node
--bios-interface	Unset bios interface on this baremetal node
--boot-interface	Unset boot interface on this baremetal node
--console-interface	Unset console interface on this baremetal node
--deploy-interface	Unset deploy interface on this baremetal node
--inspect-interface	Unset inspect interface on this baremetal node
--management-interface	Unset management interface on this baremetal node
--network-interface	Unset network interface on this baremetal node
--power-interface	Unset power interface on this baremetal node
--raid-interface	Unset raid interface on this baremetal node
--rescue-interface	Unset rescue interface on this baremetal node

Value	Summary
--storage-interface	Unset storage interface on this baremetal node
--vendor-interface	Unset vendor interface on this baremetal node
--conductor-group	Unset conductor group for this baremetal node (the default group will be used)
--automated-clean	Unset automated clean option on this baremetal node (the value from configuration will be used)
--protected	Unset the protected flag on the node
--protected-reason	Unset the protected reason (gets unset automatically when protected is unset)
--owner	Unset the owner field of the node
--description	Unset the description field of the node

11.76. BAREMETAL NODE VALIDATE

Validate a node's driver interfaces

Usage:

```
openstack baremetal node validate [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                <node>
```

Table 11.275. Positional arguments

Value	Summary
<node>	Name or uuid of the node

Table 11.276. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 11.277. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.278. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 11.279. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.280. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.77. BAREMETAL NODE VIF ATTACH

Attach VIF to a given node

Usage:

```
openstack baremetal node vif attach [-h] [--vif-info <key=value>]
    <node> <vif-id>
```

Table 11.281. Positional arguments

Value	Summary
<node>	Name or uuid of the node
<vif-id>	Name or uuid of the vif to attach to a node.

Table 11.282. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--vif-info <key=value>	Record arbitrary key/value metadata. can be specified multiple times. The mandatory <i>id</i> parameter cannot be specified as a key.

11.78. BAREMETAL NODE VIF DETACH

Detach VIF from a given node

Usage:

```
openstack baremetal node vif detach [-h] <node> <vif-id>
```

Table 11.283. Positional arguments

Value	Summary
<node>	Name or uuid of the node
<vif-id>	Name or uuid of the vif to detach from a node.

Table 11.284. Command arguments

Value	Summary
-h, --help	Show this help message and exit

11.79. BAREMETAL NODE VIF LIST

Show attached VIFs for a node

Usage:

```
openstack baremetal node vif list [-h] [-f {csv,json,table,value,yaml}]
                                  [-c COLUMN]
                                  [--quote {all,minimal,none,nonnumeric}]
```

```

[--noindent] [--max-width <integer>]
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]
<node>

```

Table 11.285. Positional arguments

Value	Summary
<node>	Name or uuid of the node

Table 11.286. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 11.287. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.288. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 11.289. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.290. Table formatter options

Value	Summary
-------	---------

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.80. BAREMETAL PORT CREATE

Create a new port

Usage:

```
openstack baremetal port create [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty] --node <uuid>
                               [--uuid <uuid>] [--extra <key=value>]
                               [--local-link-connection <key=value>]
                               [-l <key=value>]
                               [--pxe-enabled <boolean>]
                               [--port-group <uuid>]
                               [--physical-network <physical network>]
                               [--is-smartnic]
                               <address>
```

Table 11.291. Positional arguments

Value	Summary
<code><address></code>	Mac address for this port.

Table 11.292. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--node <uuid></code>	Uuid of the node that this port belongs to.
<code>--uuid <uuid></code>	Uuid of the port.

Value	Summary
<code>--extra <key=value></code>	Record arbitrary key/value metadata. argument can be specified multiple times.
<code>--local-link-connection <key=value></code>	Key/value metadata describing local link connection information. Valid keys are <i>switch_info</i> , <i>switch_id</i> , <i>port_id</i> and <i>hostname</i> . The keys <i>switch_id</i> and <i>port_id</i> are required. In case of a Smart NIC port, the required keys are <i>port_id</i> and <i>hostname</i> . Argument can be specified multiple times.
<code>-l <key=value></code>	Deprecated. please use <code>--local-link-connection</code> instead. Key/value metadata describing Local link connection information. Valid keys are <i>switch_info</i> , <i>switch_id</i> , and <i>port_id</i> . The keys <i>switch_id</i> and <i>port_id</i> are required. Can be specified multiple times.
<code>--pxe-enabled <boolean></code>	Indicates whether this port should be used when pxe booting this Node.
<code>--port-group <uuid></code>	Uuid of the port group that this port belongs to.
<code>--physical-network <physical network></code>	Name of the physical network to which this port is connected.
<code>--is-smartnic</code>	Indicates whether this port is a smart nic port

Table 11.293. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 11.294. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.295. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 11.296. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.81. BAREMETAL PORT DELETE

Delete port(s).

Usage:

```
openstack baremetal port delete [-h] <port> [<port> ...]
```

Table 11.297. Positional arguments

Value	Summary
<code><port></code>	Uuid(s) of the port(s) to delete.

Table 11.298. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

11.82. BAREMETAL PORT GROUP CREATE

Create a new baremetal port group.

Usage:

```
openstack baremetal port group create [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
```

```

[--prefix PREFIX]
[--max-width <integer>]
[--fit-width] [--print-empty]
--node <uuid>
[--address <mac-address>]
[--name NAME] [--uuid UUID]
[--extra <key=value>]
[--mode MODE]
[--property <key=value>]
[--support-standalone-ports | --unsupport-standalone-ports]

```

Table 11.299. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--node <uuid>	Uuid of the node that this port group belongs to.
--address <mac-address>	Mac address for this port group.
--name NAME	Name of the port group.
--uuid UUID	Uuid of the port group.
--extra <key=value>	Record arbitrary key/value metadata. can be specified multiple times.
--mode MODE	Mode of the port group. for possible values, refer to https://www.kernel.org/doc/Documentation/networking/bonding.txt .
--property <key=value>	Key/value property related to this port group's configuration. Can be specified multiple times.
--support-standalone-ports	Ports that are members of this port group can be used as stand-alone ports. (default)
--unsupport-standalone-ports	Ports that are members of this port group cannot be used as stand-alone ports.

Table 11.300. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 11.301. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.302. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 11.303. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.83. BAREMETAL PORT GROUP DELETE

Unregister baremetal port group(s).

Usage:

```
openstack baremetal port group delete [-h]
                                     <port group> [<port group> ...]
```

Table 11.304. Positional arguments

Value	Summary
<code><port group></code>	Port group(s) to delete (name or uuid).

Table 11.305. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

11.84. BAREMETAL PORT GROUP LIST

List baremetal port groups.

Usage:

```
openstack baremetal port group list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]
                                     [--limit <limit>]
                                     [--marker <port group>]
                                     [--sort <key>[:<direction>]]
                                     [--address <mac-address>]
                                     [--node <node>]
                                     [--long | --fields <field> [<field> ...]]
```

Table 11.306. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--limit <limit>	Maximum number of port groups to return per request, 0 for no limit. Default is the maximum number used by the Baremetal API Service.
--marker <port group>	Port group uuid (for example, of the last port group in the list from a previous request). Returns the list of port groups after this UUID.
--sort <key>[:<direction>]	Sort output by specified port group fields and directions (asc or desc) (default: asc). Multiple fields and directions can be specified, separated by comma.
--address <mac-address>	Only show information for the port group with this mac address.
--node <node>	Only list port groups of this node (name or uuid).
--long	Show detailed information about the port groups.
--fields <field> [<field> ...]	One or more port group fields. only these fields will be fetched from the server. Can not be used when <i>--long</i> is specified.

Table 11.307. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.308. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 11.309. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.310. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.85. BAREMETAL PORT GROUP SET

Set baremetal port group properties.

Usage:

```
openstack baremetal port group set [-h] [--node <uuid>]
                                   [--address <mac-address>]
                                   [--name <name>]
```

```

[--extra <key=value>] [--mode MODE]
[--property <key=value>]
[--support-standalone-ports | --unsupport-standalone-ports]
<port group>

```

Table 11.311. Positional arguments

Value	Summary
<port group>	Name or uuid of the port group.

Table 11.312. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--node <uuid>	Update uuid of the node that this port group belongs to.
--address <mac-address>	Mac address for this port group.
--name <name>	Name of the port group.
--extra <key=value>	Extra to set on this baremetal port group (repeat option to set multiple extras).
--mode MODE	Mode of the port group. for possible values, refer to https://www.kernel.org/doc/Documentation/networking/bonding.txt .
--property <key=value>	Key/value property related to this port group's configuration (repeat option to set multiple properties).
--support-standalone-ports	Ports that are members of this port group can be used as stand-alone ports.
--unsupport-standalone-ports	Ports that are members of this port group cannot be used as stand-alone ports.

11.86. BAREMETAL PORT GROUP SHOW

Show baremetal port group details.

Usage:

```

openstack baremetal port group show [-h]
                                     [-f {json,shell,table,value,yaml}]

```

```

[-c COLUMN] [--noindent]
[--prefix PREFIX]
[--max-width <integer>]
[--fit-width] [--print-empty]
[--address]
[--fields <field> [<field> ...]]
<id>

```

Table 11.313. Positional arguments

Value	Summary
<id>	Uuid or name of the port group (or mac address if --address is specified).

Table 11.314. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--address	<id> is the mac address (instead of uuid or name) of the port group.
--fields <field> [<field> ...]	One or more port group fields. only these fields will be fetched from the server.

Table 11.315. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 11.316. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.317. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 11.318. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.87. BAREMETAL PORT GROUP UNSET

Unset baremetal port group properties.

Usage:

```
openstack baremetal port group unset [-h] [--name] [--address]
                                     [--extra <key>] [--property <key>]
                                     <port group>
```

Table 11.319. Positional arguments

Value	Summary
<code><port group></code>	Name or uuid of the port group.

Table 11.320. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--name</code>	Unset the name of the port group.
<code>--address</code>	Unset the address of the port group.
<code>--extra <key></code>	Extra to unset on this baremetal port group (repeat option to unset multiple extras).
<code>--property <key></code>	Property to unset on this baremetal port group (repeat option to unset multiple properties).

11.88. BAREMETAL PORT LIST

List baremetal ports.

Usage:

```
openstack baremetal port list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--address <mac-address>] [--node <node>]
                             [--port-group <port group>]
                             [--limit <limit>] [--marker <port>]
                             [--sort <key>[:<direction>]]
                             [--long | --fields <field> [<field> ...]]
```

Table 11.321. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--address <mac-address>	Only show information for the port with this mac address.
--node <node>	Only list ports of this node (name or uuid).
--port-group <port group>	Only list ports of this port group (name or uuid).
--limit <limit>	Maximum number of ports to return per request, 0 for no limit. Default is the maximum number used by the Baremetal API Service.
--marker <port>	Port uuid (for example, of the last port in the list from a previous request). Returns the list of ports after this UUID.
--sort <key>[:<direction>]	Sort output by specified port fields and directions (asc or desc) (default: asc). Multiple fields and directions can be specified, separated by comma.
--long	Show detailed information about ports.
--fields <field> [<field> ...]	One or more port fields. only these fields will be fetched from the server. Can not be used when <i>--long</i> is specified.

Table 11.322. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.323. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 11.324. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.325. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.89. BAREMETAL PORT SET

Set baremetal port properties.

Usage:

```
openstack baremetal port set [-h] [--node <uuid>] [--address <address>]
                             [--extra <key=value>]
                             [--port-group <uuid>]
                             [--local-link-connection <key=value>]
```

```

[--pxe-enabled | --pxe-disabled]
[--physical-network <physical network>]
[--is-smartnic]
<port>

```

Table 11.326. Positional arguments

Value	Summary
<port>	Uuid of the port

Table 11.327. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--node <uuid>	Set uuid of the node that this port belongs to
--address <address>	Set mac address for this port
--extra <key=value>	Extra to set on this baremetal port (repeat option to set multiple extras)
--port-group <uuid>	Set uuid of the port group that this port belongs to.
--local-link-connection <key=value>	Key/value metadata describing local link connection information. Valid keys are <i>switch_info</i> , <i>switch_id</i> , <i>port_id</i> and <i>hostname</i> . The keys <i>switch_id</i> and <i>port_id</i> are required. In case of a Smart NIC port, the required keys are <i>port_id</i> and <i>hostname</i> . Argument can be specified multiple times.
--pxe-enabled	Indicates that this port should be used when pxe booting this node (default)
--pxe-disabled	Indicates that this port should not be used when pxe booting this node
--physical-network <physical network>	Set the name of the physical network to which this port is connected.
--is-smartnic	Set port to be smart nic port

11.90. BAREMETAL PORT SHOW

Show baremetal port details.

Usage:

```

openstack baremetal port show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX] [--max-width <integer>]
                               [--fit-width] [--print-empty] [--address]
                               [--fields <field> [<field> ...]]
                               <id>

```

Table 11.328. Positional arguments

Value	Summary
<id>	Uuid of the port (or mac address if --address is specified).

Table 11.329. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--address	<id> is the mac address (instead of the uuid) of the port.
--fields <field> [<field> ...]	One or more port fields. only these fields will be fetched from the server.

Table 11.330. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 11.331. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.332. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 11.333. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.91. BAREMETAL PORT UNSET

Unset baremetal port properties.

Usage:

```
openstack baremetal port unset [-h] [--extra <key>] [--port-group]
                               [--physical-network] [--is-smartnic]
                               <port>
```

Table 11.334. Positional arguments

Value	Summary
<code><port></code>	Uuid of the port.

Table 11.335. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--extra <key></code>	Extra to unset on this baremetal port (repeat option to unset multiple extras)
<code>--port-group</code>	Remove port from the port group
<code>--physical-network</code>	Unset the physical network on this baremetal port.
<code>--is-smartnic</code>	Set port as not smart nic port

11.92. BAREMETAL VOLUME CONNECTOR CREATE

Create a new baremetal volume connector.

Usage:

```

openstack baremetal volume connector create [-h]
                                           [-f {json,shell,table,value,yaml}]
                                           [-c COLUMN] [--noindent]
                                           [--prefix PREFIX]
                                           [--max-width <integer>]
                                           [--fit-width]
                                           [--print-empty] --node
                                           <uuid> --type <type>
                                           --connector-id <connector
                                           id> [--uuid <uuid>]
                                           [--extra <key=value>]

```

Table 11.336. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--node <uuid>	Uuid of the node that this volume connector belongs to.
--type <type>	Type of the volume connector. can be <i>iqn</i> , <i>ip</i> , <i>mac</i> , <i>wwnn</i> , <i>wwpn</i> , <i>port</i> , <i>portgroup</i> .
--connector-id <connector id>	Id of the volume connector in the specified type. for example, the iSCSI initiator IQN for the node if the type is <i>iqn</i> .
--uuid <uuid>	Uuid of the volume connector.
--extra <key=value>	Record arbitrary key/value metadata. can be specified multiple times.

Table 11.337. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 11.338. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.339. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 11.340. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

11.93. BAREMETAL VOLUME CONNECTOR DELETE

Unregister baremetal volume connector(s).

Usage:

```
openstack baremetal volume connector delete [-h]
      <volume connector>
      [<volume connector> ...]
```

Table 11.341. Positional arguments

Value	Summary
<volume connector>	Uuid(s) of the volume connector(s) to delete.

Table 11.342. Command arguments

Value	Summary
-h, --help	Show this help message and exit

11.94. BAREMETAL VOLUME CONNECTOR LIST

List baremetal volume connectors.

Usage:


```

openstack baremetal volume connector list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--sort-column SORT_COLUMN]
                                         [--node <node>]
                                         [--limit <limit>]
                                         [--marker <volume connector>]
                                         [--sort <key>[:<direction>]]
                                         [--long | --fields <field> [<field> ...]]

```

Table 11.343. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--node <node>	Only list volume connectors of this node (name or UUID).
--limit <limit>	Maximum number of volume connectors to return per request, 0 for no limit. Default is the maximum number used by the Baremetal API Service.
--marker <volume connector>	Volume connector uuid (for example, of the last volume connector in the list from a previous request). Returns the list of volume connectors after this UUID.
--sort <key>[:<direction>]	Sort output by specified volume connector fields and directions (asc or desc) (default:asc). Multiple fields and directions can be specified, separated by comma.
--long	Show detailed information about volume connectors.
--fields <field> [<field> ...]	One or more volume connector fields. only these fields will be fetched from the server. Can not be used when <i>--long</i> is specified.

Table 11.344. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table

Value	Summary
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.345. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 11.346. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.347. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

11.95. BAREMETAL VOLUME CONNECTOR SET

Set baremetal volume connector properties.

Usage:

```
openstack baremetal volume connector set [-h] [--node <uuid>
                                         [--type <type>]
                                         [--connector-id <connector id>]
                                         [--extra <key=value>]
                                         <volume connector>
```

Table 11.348. Positional arguments

Value	Summary
<volume connector>	Uuid of the volume connector.

Table 11.349. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--node <uuid>	Uuid of the node that this volume connector belongs to.
--type <type>	Type of the volume connector. can be <i>iqn</i> , <i>ip</i> , <i>mac</i> , <i>wwnn</i> , <i>wwpn</i> , <i>port</i> , <i>portgroup</i> .
--connector-id <connector id>	Id of the volume connector in the specified type.
--extra <key=value>	Record arbitrary key/value metadata. can be specified multiple times.

11.96. BAREMETAL VOLUME CONNECTOR SHOW

Show baremetal volume connector details.

Usage:

```
openstack baremetal volume connector show [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--fields <field> [<field> ...]]
                                         <id>
```

Table 11.350. Positional arguments

Value	Summary
<id>	Uuid of the volume connector.

Table 11.351. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Value	Summary
<code>--fields <field> [<field> ...]</code>	One or more volume connector fields. only these fields will be fetched from the server.

Table 11.352. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 11.353. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.354. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 11.355. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.97. BAREMETAL VOLUME CONNECTOR UNSET

Unset baremetal volume connector properties.

Usage:

```
openstack baremetal volume connector unset [-h] [--extra <key>]
<volume connector>
```

Table 11.356. Positional arguments

Value	Summary
<volume connector>	Uuid of the volume connector.

Table 11.357. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--extra <key>	Extra to unset (repeat option to unset multiple extras)

11.98. BAREMETAL VOLUME TARGET CREATE

Create a new baremetal volume target.

Usage:

```
openstack baremetal volume target create [-h]
[-f {json,shell,table,value,yaml}]
[-c COLUMN] [--noindent]
[--prefix PREFIX]
[--max-width <integer>]
[--fit-width] [--print-empty]
--node <uuid> --type <volume
type> [--property <key=value>]
--boot-index <boot index>
--volume-id <volume id>
[--uuid <uuid>]
[--extra <key=value>]
```

Table 11.358. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--node <uuid>	Uuid of the node that this volume target belongs to.
--type <volume type>	Type of the volume target, e.g. <i>iscsi</i> , <i>fibre_channel</i> .
--property <key=value>	Key/value property related to the type of this volume target. Can be specified multiple times.

Value	Summary
<code>--boot-index <boot index></code>	Boot index of the volume target.
<code>--volume-id <volume id></code>	Id of the volume associated with this target.
<code>--uuid <uuid></code>	Uuid of the volume target.
<code>--extra <key=value></code>	Record arbitrary key/value metadata. can be specified multiple times.

Table 11.359. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 11.360. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.361. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 11.362. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.99. BAREMETAL VOLUME TARGET DELETE

Unregister baremetal volume target(s).

Usage:

```
openstack baremetal volume target delete [-h]
                                     <volume target>
                                     [<volume target> ...]
```

Table 11.363. Positional arguments

Value	Summary
<volume target>	Uuid(s) of the volume target(s) to delete.

Table 11.364. Command arguments

Value	Summary
-h, --help	Show this help message and exit

11.100. BAREMETAL VOLUME TARGET LIST

List baremetal volume targets.

Usage:

```
openstack baremetal volume target list [-h]
                                       [-f {csv,json,table,value,yaml}]
                                       [-c COLUMN]
                                       [--quote {all,minimal,none,nonnumeric}]
                                       [--noindent]
                                       [--max-width <integer>]
                                       [--fit-width] [--print-empty]
                                       [--sort-column SORT_COLUMN]
                                       [--node <node>]
                                       [--limit <limit>]
                                       [--marker <volume target>]
                                       [--sort <key>[:<direction>]]
                                       [--long | --fields <field> [<field> ...]]
```

Table 11.365. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--node <node>	Only list volume targets of this node (name or uuid).

Value	Summary
<code>--limit <limit></code>	Maximum number of volume targets to return per request, 0 for no limit. Default is the maximum number used by the Baremetal API Service.
<code>--marker <volume target></code>	Volume target uuid (for example, of the last volume target in the list from a previous request). Returns the list of volume targets after this UUID.
<code>--sort <key>[:<direction>]</code>	Sort output by specified volume target fields and directions (asc or desc) (default:asc). Multiple fields and directions can be specified, separated by comma.
<code>--long</code>	Show detailed information about volume targets.
<code>--fields <field> [<field> ...]</code>	One or more volume target fields. only these fields will be fetched from the server. Can not be used when <code>--long</code> is specified.

Table 11.366. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 11.367. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 11.368. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 11.369. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

11.101. BAREMETAL VOLUME TARGET SET

Set baremetal volume target properties.

Usage:

```
openstack baremetal volume target set [-h] [--node <uuid>]
                                     [--type <volume type>]
                                     [--property <key=value>]
                                     [--boot-index <boot index>]
                                     [--volume-id <volume id>]
                                     [--extra <key=value>]
                                     <volume target>
```

Table 11.370. Positional arguments

Value	Summary
<code><volume target></code>	Uuid of the volume target.

Table 11.371. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--node <uuid></code>	Uuid of the node that this volume target belongs to.
<code>--type <volume type></code>	Type of the volume target, e.g. <i>iscsi</i> , <i>fibre_channel</i> .
<code>--property <key=value></code>	Key/value property related to the type of this volume target. Can be specified multiple times.
<code>--boot-index <boot index></code>	Boot index of the volume target.
<code>--volume-id <volume id></code>	Id of the volume associated with this target.

Value	Summary
<code>--extra <key=value></code>	Record arbitrary key/value metadata. can be specified multiple times.

11.102. BAREMETAL VOLUME TARGET SHOW

Show baremetal volume target details.

Usage:

```

openstack baremetal volume target show [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--fields <field> [<field> ...]]
                                         <id>

```

Table 11.372. Positional arguments

Value	Summary
<code><id></code>	Uuid of the volume target.

Table 11.373. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--fields <field> [<field> ...]</code>	One or more volume target fields. only these fields will be fetched from the server.

Table 11.374. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 11.375. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 11.376. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 11.377. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

11.103. BAREMETAL VOLUME TARGET UNSET

Unset baremetal volume target properties.

Usage:

```
openstack baremetal volume target unset [-h] [--extra <key>]
                                     [--property <key>]
                                     <volume target>
```

Table 11.378. Positional arguments

Value	Summary
<volume target>	Uuid of the volume target.

Table 11.379. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Value	Summary
--extra <key>	Extra to unset (repeat option to unset multiple extras)
--property <key>	Property to unset on this baremetal volume target (repeat option to unset multiple properties).

CHAPTER 12. CA

This chapter describes the commands under the **ca** command.

12.1. CA GET

Retrieve a CA by providing its URI.

Usage:

```
openstack ca get [-h] [-f {json,shell,table,value,yaml}] [-c COLUMN]
                 [--noindent] [--prefix PREFIX] [--max-width <integer>]
                 [--fit-width] [--print-empty]
                 URI
```

Table 12.1. Positional arguments

Value	Summary
URI	The uri reference for the ca.

Table 12.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 12.3. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 12.4. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 12.5. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 12.6. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

12.2. CA LIST

List CAs.

Usage:

```
openstack ca list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                  [--quote {all,minimal,none,nonnumeric}] [--noindent]
                  [--max-width <integer>] [--fit-width] [--print-empty]
                  [--sort-column SORT_COLUMN] [--limit LIMIT]
                  [--offset OFFSET] [--name NAME]
```

Table 12.7. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--limit LIMIT, -l LIMIT</code>	Specify the limit to the number of items to list per page (default: 10; maximum: 100)
<code>--offset OFFSET, -o OFFSET</code>	Specify the page offset (default: 0)
<code>--name NAME, -n NAME</code>	Specify the ca name (default: none)

Table 12.8. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Value	Summary
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 12.9. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 12.10. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 12.11. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 13. CATALOG

This chapter describes the commands under the **catalog** command.

13.1. CATALOG LIST

List services in the service catalog

Usage:

```
openstack catalog list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN]
```

Table 13.1. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 13.2. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 13.3. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 13.4. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 13.5. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

13.2. CATALOG SHOW

Display service catalog details

Usage:

```
openstack catalog show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        <service>
```

Table 13.6. Positional arguments

Value	Summary
<code><service></code>	Service to display (type or name)

Table 13.7. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 13.8. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 13.9. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 13.10. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 13.11. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 14. COE

This chapter describes the commands under the **coe** command.

14.1. COE CA ROTATE

Rotate the CA certificate for cluster to revoke access.

Usage:

```
openstack coe ca rotate [-h] <cluster>
```

Table 14.1. Positional arguments

Value	Summary
<cluster>	Id or name of the cluster

Table 14.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit

14.2. COE CA SHOW

Show details about the CA certificate for a cluster.

Usage:

```
openstack coe ca show [-h] <cluster>
```

Table 14.3. Positional arguments

Value	Summary
<cluster>	Id or name of the cluster

Table 14.4. Command arguments

Value	Summary
-h, --help	Show this help message and exit

14.3. COE CA SIGN

Generate the CA certificate for a cluster.

Usage:

```
openstack coe ca sign [-h] <cluster> <csr>
```

Table 14.5. Positional arguments

Value	Summary
<cluster>	Id or name of the cluster
<csr>	File path of csr file to send to magnum to get signed.

Table 14.6. Command arguments

Value	Summary
-h, --help	Show this help message and exit

14.4. COE CLUSTER CONFIG

Get Configuration for a Cluster

Usage:

```
openstack coe cluster config [-h] [--dir <dir>] [--force]
                             [--output-certs] [--use-certificate]
                             [--use-keystone]
                             <cluster>
```

Table 14.7. Positional arguments

Value	Summary
<cluster>	The name or uuid of cluster to update

Table 14.8. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--dir <dir>	Directory to save the certificate and config files.
--force	Overwrite files if existing.
--output-certs	Output certificates in separate files.

Value	Summary
--use-certificate	Use certificate in config files.
--use-keystone	Use keystone token in config files.

14.5. COE CLUSTER CREATE

Create a cluster

Usage:

```

openstack coe cluster create [-h] --cluster-template <cluster-template>
                               [--discovery-url <discovery-url>]
                               [--docker-volume-size <docker-volume-size>]
                               [--labels <KEY1=VALUE1,KEY2=VALUE2;KEY3=VALUE3...>]
                               [--keypair <keypair>]
                               [--master-count <master-count>]
                               [--node-count <node-count>]
                               [--timeout <timeout>]
                               [--master-flavor <master-flavor>]
                               [--flavor <flavor>]
                               [--fixed-network <fixed-network>]
                               [--fixed-subnet <fixed-subnet>]
                               [--floating-ip-enabled]
                               [--floating-ip-disabled]
                               <name>

```

Table 14.9. Positional arguments

Value	Summary
<name>	Name of the cluster to create.

Table 14.10. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--cluster-template <cluster-template>	Id or name of the cluster template.
--discovery-url <discovery-url>	Specifies custom delivery url for node discovery.
--docker-volume-size <docker-volume-size>	The size in gb for the docker volume to use.
--labels <KEY1=VALUE1,KEY2=VALUE2;KEY3=VALUE3...>	Arbitrary labels in the form of key=valuepairs to associate with a cluster template. May be used multiple times.

Value	Summary
--keypair <keypair>	Uuid or name of the keypair to use.
--master-count <master-count>	The number of master nodes for the cluster.
--node-count <node-count>	The cluster node count.
--timeout <timeout>	The timeout for cluster creation time. the default is 60 minutes.
--master-flavor <master-flavor>	The nova flavor name or uuid to use when launching the master node of the Cluster.
--flavor <flavor>	The nova flavor name or uuid to use when launching the Cluster.
--fixed-network <fixed-network>	The private neutron network name to connect to this Cluster template.
--fixed-subnet <fixed-subnet>	The private neutron subnet name to connect to cluster.
--floating-ip-enabled	Indicates whether created clusters should have a floating ip.
--floating-ip-disabled	Disables floating ip creation on the new cluster

14.6. COE CLUSTER DELETE

Delete a cluster

Usage:

```
openstack coe cluster delete [-h] <cluster> [<cluster> ...]
```

Table 14.11. Positional arguments

Value	Summary
<cluster>	Id or name of the cluster(s) to delete.

Table 14.12. Command arguments

Value	Summary
-h, --help	Show this help message and exit

14.7. COE CLUSTER LIST

List clusters

Usage:

```
openstack coe cluster list [-h] [-f {csv,json,table,value,yaml}]
                           [-c COLUMN]
                           [--quote {all,minimal,none,nonnumeric}]
                           [--noindent] [--max-width <integer>]
                           [--fit-width] [--print-empty]
                           [--sort-column SORT_COLUMN]
                           [--limit <limit>] [--sort-key <sort-key>]
                           [--sort-dir <sort-dir>]
```

Table 14.13. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--limit <limit>	Maximum number of clusters to return
--sort-key <sort-key>	Column to sort results by
--sort-dir <sort-dir>	Direction to sort. "asc" or "desc".

Table 14.14. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 14.15. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 14.16. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 14.17. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

14.8. COE CLUSTER RESIZE

Resize a Cluster

Usage:

```
openstack coe cluster resize [-h] [--nodes-to-remove <Server UUID>]
                             [--nodegroup <nodegroup>]
                             <cluster> node_count
```

Table 14.18. Positional arguments

Value	Summary
<cluster>	The name or uuid of cluster to update
node_count	Desired node count of the cluser.

Table 14.19. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--nodes-to-remove <Server UUID>	Server id of the nodes to be removed. repeat to addmore server ID
--nodegroup <nodegroup>	The name or uuid of the nodegroup of current cluster.

14.9. COE CLUSTER SHOW

Show a Cluster

Usage:

```
openstack coe cluster show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             <cluster>
```

Table 14.20. Positional arguments

Value	Summary
<cluster>	Id or name of the cluster to show.

Table 14.21. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 14.22. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 14.23. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 14.24. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 14.25. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

14.10. COE CLUSTER TEMPLATE CREATE

Create a Cluster Template.

Usage:

```

openstack coe cluster template create [-h]
    [-f {json,shell,table,value,yaml}]
    [-c COLUMN] [--noindent]
    [--prefix PREFIX]
    [--max-width <integer>]
    [--fit-width] [--print-empty]
    --coe <coe> --image <image>
    --external-network
    <external-network>
    [--keypair <keypair>]
    [--fixed-network <fixed-network>]
    [--fixed-subnet <fixed-subnet>]
    [--network-driver <network-driver>]
    [--volume-driver <volume-driver>]
    [--dns-nameserver <dns-nameserver>]
    [--flavor <flavor>]
    [--master-flavor <master-flavor>]
    [--docker-volume-size <docker-volume-size>]
    [--docker-storage-driver <docker-storage-driver>]
    [--http-proxy <http-proxy>]
    [--https-proxy <https-proxy>]
    [--no-proxy <no-proxy>]
    [--labels <KEY1=VALUE1,KEY2=VALUE2;KEY3=VALUE3...>]
    [--tls-disabled] [--public]
    [--registry-enabled]
    [--server-type <server-type>]
    [--master-lb-enabled]
    [--floating-ip-enabled]
    [--floating-ip-disabled]
    [--hidden] [--visible]
    <name>

```

Table 14.26. Positional arguments

Value	Summary
<name>	Name of the cluster template to create.

Table 14.27. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--coe <coe>	Specify the container orchestration engine to use.
--image <image>	The name or uuid of the base image to customize for the Cluster.
--external-network <external-network>	The external neutron network name or uuid to connect to this Cluster Template.
--keypair <keypair>	The name or uuid of the ssh keypair to load into the Cluster nodes.
--fixed-network <fixed-network>	The private neutron network name to connect to this Cluster model.
--fixed-subnet <fixed-subnet>	The private neutron subnet name to connect to cluster.
--network-driver <network-driver>	The network driver name for instantiating container networks.
--volume-driver <volume-driver>	The volume driver name for instantiating container volume.
--dns-nameserver <dns-nameserver>	The dns nameserver to use for this cluster template.
--flavor <flavor>	The nova flavor name or uuid to use when launching the Cluster.
--master-flavor <master-flavor>	The nova flavor name or uuid to use when launching the master node of the Cluster.
--docker-volume-size <docker-volume-size>	Specify the number of size in gb for the docker volume to use.
--docker-storage-driver <docker-storage-driver>	Select a docker storage driver. supported: devicemapper, overlay. Default: devicemapper
--http-proxy <http-proxy>	The http_proxy address to use for nodes in cluster.

Value	Summary
<code>--https-proxy <https-proxy></code>	The <code>https_proxy</code> address to use for nodes in cluster.
<code>--no-proxy <no-proxy></code>	The <code>no_proxy</code> address to use for nodes in cluster.
<code>--labels</code> <code><KEY1=VALUE1,KEY2=VALUE2;KEY3=VALUE3...></code>	Arbitrary labels in the form of <code>key=value</code> pairs to associate with a cluster template. May be used multiple times.
<code>--tls-disabled</code>	Disable <code>tls</code> in the cluster.
<code>--public</code>	Make cluster template public.
<code>--registry-enabled</code>	Enable <code>docker registry</code> in the cluster
<code>--server-type <server-type></code>	Specify the server type to be used for example <code>vm</code> . for this release default server type will be <code>vm</code> .
<code>--master-lb-enabled</code>	Indicates whether created clusters should have a load balancer for master nodes or not.
<code>--floating-ip-enabled</code>	Indicates whether created clusters should have a floating ip.
<code>--floating-ip-disabled</code>	Disables floating ip creation on the new cluster
<code>--hidden</code>	Indicates the cluster template should be hidden.
<code>--visible</code>	Indicates the cluster template should be visible.

Table 14.28. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to <code>table</code>
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 14.29. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the <code>json</code>

Table 14.30. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 14.31. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

14.11. COE CLUSTER TEMPLATE DELETE

Delete a Cluster Template.

Usage:

```
openstack coe cluster template delete [-h]
                                     <cluster-templates>
                                     [<cluster-templates> ...]
```

Table 14.32. Positional arguments

Value	Summary
<cluster-templates>	Id or name of the (cluster template)s to delete.

Table 14.33. Command arguments

Value	Summary
-h, --help	Show this help message and exit

14.12. COE CLUSTER TEMPLATE LIST

List Cluster Templates.

Usage:

```
openstack coe cluster template list [-h]
```

```

[-f {csv,json,table,value,yaml}]
[-c COLUMN]
[--quote {all,minimal,none,nonnumeric}]
[--noindent]
[--max-width <integer>]
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]
[--limit <limit>]
[--sort-key <sort-key>]
[--sort-dir <sort-dir>]
[--fields <fields>]

```

Table 14.34. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--limit <limit>	Maximum number of cluster templates to return
--sort-key <sort-key>	Column to sort results by
--sort-dir <sort-dir>	Direction to sort. "asc" or "desc".
--fields <fields>	Comma-separated list of fields to display. available fields: uuid, name, coe, image_id, public, link, apiserver_port, server_type, tls_disabled, registry_enabled

Table 14.35. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 14.36. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 14.37. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 14.38. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

14.13. COE CLUSTER TEMPLATE SHOW

Show a Cluster Template.

Usage:

```
openstack coe cluster template show [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     <cluster-template>
```

Table 14.39. Positional arguments

Value	Summary
<cluster-template>	Id or name of the cluster template to show.

Table 14.40. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 14.41. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 14.42. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 14.43. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 14.44. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

14.14. COE CLUSTER TEMPLATE UPDATE

Update a Cluster Template.

Usage:

```

openstack coe cluster template update [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     <cluster-template> <op>
                                     <path=value> [<path=value> ...]

```


Table 14.45. Positional arguments

Value	Summary
<cluster-template>	The name or uuid of cluster template to update
<op>	Operations: one of <i>add</i> , <i>replace</i> or <i>remove</i>
<path=value>	Attributes to add/replace or remove (only path is necessary on remove)

Table 14.46. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 14.47. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 14.48. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 14.49. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 14.50. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

14.15. COE CLUSTER UPDATE

Update a Cluster

Usage:

```
openstack coe cluster update [-h] [--rollback]
                             <cluster> <op> <path=value>
                             [<path=value> ...]
```

Table 14.51. Positional arguments

Value	Summary
<code><cluster></code>	The name or uuid of cluster to update
<code><op></code>	Operations: one of <i>add</i> , <i>replace</i> or <i>remove</i>
<code><path=value></code>	Attributes to add/replace or remove (only path is necessary on remove)

Table 14.52. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--rollback</code>	Rollback cluster on update failure.

14.16. COE CLUSTER UPGRADE

Upgrade a Cluster

Usage:

```
openstack coe cluster upgrade [-h] [--max-batch-size <max_batch_size>]
                               [--nodegroup <nodegroup>]
                               <cluster> cluster_template
```

Table 14.53. Positional arguments

Value	Summary
<cluster>	The name or uuid of cluster to update
cluster_template	The new cluster template id will be upgraded to.

Table 14.54. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--max-batch-size <max_batch_size>	The max batch size for upgrading each time.
--nodegroup <nodegroup>	The name or uuid of the nodegroup of current cluster.

14.17. COE NODEGROUP CREATE

Create a nodegroup

Usage:

```

openstack coe nodegroup create [-h]
                               [--docker-volume-size <docker-volume-size>]
                               [--labels <KEY1=VALUE1,KEY2=VALUE2;KEY3=VALUE3...>]
                               [--node-count <node-count>]
                               [--min-nodes <min-nodes>]
                               [--max-nodes <max-nodes>]
                               [--role <role>] [--image <image>]
                               [--flavor <flavor>]
                               <cluster> <name>

```

Table 14.55. Positional arguments

Value	Summary
<cluster>	Name of the nodegroup to create.
<name>	Name of the nodegroup to create.

Table 14.56. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Value	Summary
<code>--docker-volume-size <docker-volume-size></code>	The size in gb for the docker volume to use.
<code>--labels <KEY1=VALUE1,KEY2=VALUE2;KEY3=VALUE3...></code>	Arbitrary labels in the form of key=valuepairs to associate with a nodegroup. May be used multiple times.
<code>--node-count <node-count></code>	The nodegroup node count.
<code>--min-nodes <min-nodes></code>	The nodegroup minimum node count.
<code>--max-nodes <max-nodes></code>	The nodegroup maximum node count.
<code>--role <role></code>	The role of the nodegroup
<code>--image <image></code>	The name or uuid of the base image to customize for the NodeGroup.
<code>--flavor <flavor></code>	The nova flavor name or uuid to use when launching the nodes in this NodeGroup.

14.18. COE NODEGROUP DELETE

Delete a nodegroup

Usage:

```
openstack coe nodegroup delete [-h]
                               <cluster> <nodegroup> [<nodegroup> ...]
```

Table 14.57. Positional arguments

Value	Summary
<code><cluster></code>	Id or name of the cluster where the nodegroup(s) belong(s).
<code><nodegroup></code>	Id or name of the nodegroup(s) to delete.

Table 14.58. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

14.19. COE NODEGROUP LIST

List nodegroups

Usage:

```
openstack coe nodegroup list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--limit <limit>] [--sort-key <sort-key>]
                             [--sort-dir <sort-dir>] [--role <role>]
                             <cluster>
```

Table 14.59. Positional arguments

Value	Summary
<cluster>	Id or name of the cluster where the nodegroup belongs.

Table 14.60. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--limit <limit>	Maximum number of nodegroups to return
--sort-key <sort-key>	Column to sort results by
--sort-dir <sort-dir>	Direction to sort. "asc" or "desc".
--role <role>	List the nodegroups in the cluster with this role

Table 14.61. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 14.62. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 14.63. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 14.64. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

14.20. COE NODEGROUP SHOW

Show a nodegroup

Usage:

```
openstack coe nodegroup show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             <cluster> <nodegroup>
```

Table 14.65. Positional arguments

Value	Summary
<code><cluster></code>	Id or name of the cluster where the nodegroup belongs.
<code><nodegroup></code>	Id or name of the nodegroup to show.

Table 14.66. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 14.67. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 14.68. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 14.69. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 14.70. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

14.21. COE NODEGROUP UPDATE

Update a Nodegroup

Usage:

```
openstack coe nodegroup update [-h]
                               <cluster> <nodegroup> <op> <path=value>
                               [<path=value> ...]
```

Table 14.71. Positional arguments

Value	Summary
<cluster>	Id or name of the cluster where the nodegroup belongs.
<nodegroup>	The name or uuid of cluster to update
<op>	Operations: one of <i>add</i> , <i>replace</i> or <i>remove</i>
<path=value>	Attributes to add/replace or remove (only path is necessary on remove)

Table 14.72. Command arguments

Value	Summary
-h, --help	Show this help message and exit

14.22. COE QUOTAS CREATE

Create a quota.

Usage:

```
openstack coe quotas create [-h] --project-id <project-id> --resource
                             <resource> [--hard-limit <hard-limit>]
```

Table 14.73. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--project-id <project-id>	Project id
--resource <resource>	Resource name.
--hard-limit <hard-limit>	Max resource limit (default: hard-limit=1)

14.23. COE QUOTAS DELETE

Delete specified resource quota.

Usage:

```
openstack coe quotas delete [-h] --project-id <project-id> --resource
                             <resource>
```

Table 14.74. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--project-id <project-id>	Project id
--resource <resource>	Resource name.

14.24. COE QUOTAS LIST

Print a list of available quotas.

Usage:

```
openstack coe quotas list [-h] [--marker <marker>] [--limit <limit>]
                          [--sort-key <sort-key>]
                          [--sort-dir <sort-dir>] [--all-tenants]
```

Table 14.75. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--marker <marker>	The last quota uuid of the previous page; displays list of quotas after "marker".
--limit <limit>	Maximum number of quotas to return.
--sort-key <sort-key>	Column to sort results by.
--sort-dir <sort-dir>	Direction to sort. "asc" or "desc".
--all-tenants	Flag to indicate list all tenant quotas.

14.25. COE QUOTAS SHOW

Show details about the given project resource quota.

Usage:

```
openstack coe quotas show [-h] --project-id <project-id> --resource
                           <resource>
```

Table 14.76. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--project-id <project-id>	Project id
--resource <resource>	Resource name.

14.26. COE QUOTAS UPDATE

Update information about the given project resource quota.

Usage:

```
openstack coe quotas update [-h] --project-id <project-id> --resource
                             <resource> [--hard-limit <hard-limit>]
```

Table 14.77. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--project-id <project-id>	Project id
--resource <resource>	Resource name.
--hard-limit <hard-limit>	Max resource limit (default: hard-limit=1)

14.27. COE SERVICE LIST

Print a list of Magnum services.

Usage:

```
openstack coe service list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
```

Table 14.78. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 14.79. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 14.80. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 14.81. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 14.82. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

14.28. COE STATS LIST

Show stats for the given project_id

Usage:

```
openstack coe stats list [-h] <project>
```

Table 14.83. Positional arguments

Value	Summary
<project>	Project id

Table 14.84. Command arguments

Value	Summary
-h, --help	Show this help message and exit

CHAPTER 15. COMMAND

This chapter describes the commands under the **command** command.

15.1. COMMAND LIST

List recognized commands by group

Usage:

```
openstack command list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN]
                        [--group <group-keyword>]
```

Table 15.1. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--group <group-keyword>	Show commands filtered by a command group, for example: identity, volume, compute, image, network and other keywords

Table 15.2. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 15.3. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 15.4. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 15.5. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 16. COMPLETE

This chapter describes the commands under the **complete** command.

16.1. COMPLETE

print bash completion command

Usage:

```
openstack complete [-h] [--name <command_name>] [--shell <shell>]
```

Table 16.1. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <command_name>	Command name to support with command completion
--shell <shell>	Shell being used. use none for data only (default: bash)

CHAPTER 17. COMPUTE

This chapter describes the commands under the **compute** command.

17.1. COMPUTE AGENT CREATE

Create compute agent

Usage:

```
openstack compute agent create [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty]
                               <os> <architecture> <version> <url>
                               <md5hash> <hypervisor>
```

Table 17.1. Positional arguments

Value	Summary
<os>	Type of os
<architecture>	Type of architecture
<version>	Version
<url>	Url
<md5hash>	Md5 hash
<hypervisor>	Type of hypervisor

Table 17.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 17.3. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 17.4. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 17.5. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 17.6. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

17.2. COMPUTE AGENT DELETE

Delete compute agent(s)

Usage:

```
openstack compute agent delete [-h] <id> [<id> ...]
```

Table 17.7. Positional arguments

Value	Summary
<code><id></code>	Id of agent(s) to delete

Table 17.8. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

17.3. COMPUTE AGENT LIST

List compute agents

Usage:

```
openstack compute agent list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--hypervisor <hypervisor>]
```

Table 17.9. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--hypervisor <hypervisor>	Type of hypervisor

Table 17.10. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 17.11. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 17.12. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 17.13. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

17.4. COMPUTE AGENT SET

Set compute agent properties

Usage:

```
openstack compute agent set [-h] [--agent-version <version>]
                             [--url <url>] [--md5hash <md5hash>]
                             <id>
```

Table 17.14. Positional arguments

Value	Summary
<code><id></code>	Id of the agent

Table 17.15. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--agent-version <version></code>	Version of the agent
<code>--url <url></code>	Url of the agent
<code>--md5hash <md5hash></code>	Md5 hash of the agent

17.5. COMPUTE SERVICE DELETE

Delete compute service(s)

Usage:

```
openstack compute service delete [-h] <service> [<service> ...]
```

Table 17.16. Positional arguments

Value	Summary
<service>	Compute service(s) to delete (id only). if using ``--os-compute-api-version`` 2.53 or greater, the ID is a UUID which can be retrieved by listing compute services using the same 2.53+ microversion.

Table 17.17. Command arguments

Value	Summary
-h, --help	Show this help message and exit

17.6. COMPUTE SERVICE LIST

List compute services. Using ``--os-compute-api-version`` 2.53 or greater will return the ID as a UUID value which can be used to uniquely identify the service in a multi-cell deployment.

Usage:

```
openstack compute service list [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN]
                               [--host <host>] [--service <service>]
                               [--long]
```

Table 17.18. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--host <host>	List services on specified host (name only)
--service <service>	List only specified service binaries (name only). for example, ``nova-compute``, ``nova-conductor``, etc.
--long	List additional fields in output

Table 17.19. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 17.20. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 17.21. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 17.22. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

17.7. COMPUTE SERVICE SET

Set compute service properties

Usage:

```
openstack compute service set [-h] [--enable | --disable]
                               [--disable-reason <reason>]
                               [--up | --down]
                               <host> <service>
```

Table 17.23. Positional arguments

Value	Summary
<host>	Name of host
<service>	Name of service (binary name), for example ``nova-compute``

Table 17.24. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--enable	Enable service
--disable	Disable service
--disable-reason <reason>	Reason for disabling the service (in quotes). should be used with --disable option.
--up	Force up service. requires ``--os-compute-api-version`` 2.11 or greater.
--down	Force down service. requires ``--os-compute-api-version`` 2.11 or greater.

CHAPTER 18. CONFIGURATION

This chapter describes the commands under the **configuration** command.

18.1. CONFIGURATION SHOW

Display configuration details

Usage:

```
openstack configuration show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty] [--mask | --unmask]
```

Table 18.1. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--mask	Attempt to mask passwords (default)
--unmask	Show password in clear text

Table 18.2. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 18.3. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 18.4. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 18.5. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 19. CONSISTENCY

This chapter describes the commands under the **consistency** command.

19.1. CONSISTENCY GROUP ADD VOLUME

Add volume(s) to consistency group

Usage:

```
openstack consistency group add volume [-h]
                                     <consistency-group> <volume>
                                     [<volume> ...]
```

Table 19.1. Positional arguments

Value	Summary
<consistency-group>	Consistency group to contain <volume> (name or id)
<volume>	Volume(s) to add to <consistency-group> (name or id) (repeat option to add multiple volumes)

Table 19.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit

19.2. CONSISTENCY GROUP CREATE

Create new consistency group.

Usage:

```
openstack consistency group create [-h]
                                   [-f {json,shell,table,value,yaml}]
                                   [-c COLUMN] [--noindent]
                                   [--prefix PREFIX]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   (--volume-type <volume-type> | --consistency-group-source <consistency-
group> | --consistency-group-snapshot <consistency-group-snapshot>)
                                   [--description <description>]
                                   [--availability-zone <availability-zone>]
                                   [<name>]
```

Table 19.3. Positional arguments

Value	Summary
<name>	Name of new consistency group (default to none)

Table 19.4. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--volume-type <volume-type>	Volume type of this consistency group (name or id)
--consistency-group-source <consistency-group>	Existing consistency group (name or id)
--consistency-group-snapshot <consistency-group-snapshot>	Existing consistency group snapshot (name or id)
--description <description>	Description of this consistency group
--availability-zone <availability-zone>	Availability zone for this consistency group (not available if creating consistency group from source)

Table 19.5. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 19.6. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 19.7. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 19.8. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

19.3. CONSISTENCY GROUP DELETE

Delete consistency group(s).

Usage:

```
openstack consistency group delete [-h] [--force]
    <consistency-group>
    [<consistency-group> ...]
```

Table 19.9. Positional arguments

Value	Summary
<code><consistency-group></code>	Consistency group(s) to delete (name or id)

Table 19.10. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--force</code>	Allow delete in state other than error or available

19.4. CONSISTENCY GROUP LIST

List consistency groups.

Usage:

```
openstack consistency group list [-h] [-f {csv,json,table,value,yaml}]
    [-c COLUMN]
    [--quote {all,minimal,none,nonnumeric}]
    [--noindent] [--max-width <integer>]
    [--fit-width] [--print-empty]
    [--sort-column SORT_COLUMN]
    [--all-projects] [--long]
```

■

Table 19.11. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show details for all projects. admin only. (defaults to False)
--long	List additional fields in output

Table 19.12. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 19.13. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 19.14. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 19.15. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

19.5. CONSISTENCY GROUP REMOVE VOLUME

Remove volume(s) from consistency group

Usage:

```
openstack consistency group remove volume [-h]
                                     <consistency-group> <volume>
                                     [<volume> ...]
```

Table 19.16. Positional arguments

Value	Summary
<consistency-group>	Consistency group containing <volume> (name or id)
<volume>	Volume(s) to remove from <consistency-group> (name or ID) (repeat option to remove multiple volumes)

Table 19.17. Command arguments

Value	Summary
-h, --help	Show this help message and exit

19.6. CONSISTENCY GROUP SET

Set consistency group properties

Usage:

```
openstack consistency group set [-h] [--name <name>]
                                [--description <description>]
                                <consistency-group>
```

Table 19.18. Positional arguments

Value	Summary
<consistency-group>	Consistency group to modify (name or id)

Table 19.19. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	New consistency group name
--description <description>	New consistency group description

19.7. CONSISTENCY GROUP SHOW

Display consistency group details.

Usage:

```
openstack consistency group show [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <consistency-group>
```

Table 19.20. Positional arguments

Value	Summary
<consistency-group>	Consistency group to display (name or id)

Table 19.21. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 19.22. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table

Value	Summary
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 19.23. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 19.24. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 19.25. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

19.8. CONSISTENCY GROUP SNAPSHOT CREATE

Create new consistency group snapshot.

Usage:

```
openstack consistency group snapshot create [-h]
                                           [-f {json,shell,table,value,yaml}]
                                           [-c COLUMN] [--noindent]
                                           [--prefix PREFIX]
                                           [--max-width <integer>]
                                           [--fit-width]
                                           [--print-empty]
                                           [--consistency-group <consistency-group>]
                                           [--description <description>]
                                           [<snapshot-name>]
```

Table 19.26. Positional arguments

Value	Summary
<snapshot-name>	Name of new consistency group snapshot (default to None)

Table 19.27. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--consistency-group <consistency-group>	Consistency group to snapshot (name or id) (default to be the same as <snapshot-name>)
--description <description>	Description of this consistency group snapshot

Table 19.28. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 19.29. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 19.30. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 19.31. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

19.9. CONSISTENCY GROUP SNAPSHOT DELETE

Delete consistency group snapshot(s).

Usage:

```
openstack consistency group snapshot delete [-h]
                                         <consistency-group-snapshot>
                                         [<consistency-group-snapshot> ...]
```

Table 19.32. Positional arguments

Value	Summary
<code><consistency-group-snapshot></code>	Consistency group snapshot(s) to delete (name or id)

Table 19.33. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

19.10. CONSISTENCY GROUP SNAPSHOT LIST

List consistency group snapshots.

Usage:

```
openstack consistency group snapshot list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--sort-column SORT_COLUMN]
                                         [--all-projects] [--long]
                                         [--status <status>]
                                         [--consistency-group <consistency-group>]
```

■

Table 19.34. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show detail for all projects (admin only) (defaults to False)
--long	List additional fields in output
--status <status>	Filters results by a status ("available", "error", "creating", "deleting" or "error_deleting")
--consistency-group <consistency-group>	Filters results by a consistency group (name or id)

Table 19.35. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 19.36. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 19.37. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 19.38. Table formatter options

Value	Summary
-------	---------

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

19.11. CONSISTENCY GROUP SNAPSHOT SHOW

Display consistency group snapshot details

Usage:

```
openstack consistency group snapshot show [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         <consistency-group-snapshot>
```

Table 19.39. Positional arguments

Value	Summary
<code><consistency-group-snapshot></code>	Consistency group snapshot to display (name or id)

Table 19.40. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 19.41. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 19.42. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 19.43. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 19.44. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 20. CONSOLE

This chapter describes the commands under the **console** command.

20.1. CONSOLE LOG SHOW

Show server's console output

Usage:

```
openstack console log show [-h] [--lines <num-lines>] <server>
```

Table 20.1. Positional arguments

Value	Summary
<server>	Server to show console log (name or id)

Table 20.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--lines <num-lines>	Number of lines to display from the end of the log (default=all)

20.2. CONSOLE URL SHOW

Show server's remote console URL

Usage:

```
openstack console url show [-h] [-f {json,shell,table,value,yaml}]
    [-c COLUMN] [--noindent] [--prefix PREFIX]
    [--max-width <integer>] [--fit-width]
    [--print-empty]
    [--novnc | --xvpvnc | --spice | --rdp | --serial | --mks]
    <server>
```

Table 20.3. Positional arguments

Value	Summary
<server>	Server to show url (name or id)

Table 20.4. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--novnc	Show novnc console url (default)
--xvpng	Show xvpng console url
--spice	Show spice console url
--rdp	Show rdp console url
--serial	Show serial console url
--mks	Show webmks console url

Table 20.5. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 20.6. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 20.7. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 20.8. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 21. CONSUMER

This chapter describes the commands under the **consumer** command.

21.1. CONSUMER CREATE

Create new consumer

Usage:

```
openstack consumer create [-h] [-f {json,shell,table,value,yaml}]
                          [-c COLUMN] [--noindent] [--prefix PREFIX]
                          [--max-width <integer>] [--fit-width]
                          [--print-empty] [--description <description>]
```

Table 21.1. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	New consumer description

Table 21.2. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 21.3. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 21.4. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 21.5. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

21.2. CONSUMER DELETE

Delete consumer(s)

Usage:

```
openstack consumer delete [-h] <consumer> [<consumer> ...]
```

Table 21.6. Positional arguments

Value	Summary
<code><consumer></code>	Consumer(s) to delete

Table 21.7. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

21.3. CONSUMER LIST

List consumers

Usage:

```
openstack consumer list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN]
```

Table 21.8. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 21.9. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 21.10. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 21.11. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 21.12. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

21.4. CONSUMER SET

Set consumer properties

Usage:

```
openstack consumer set [-h] [--description <description>] <consumer>
```

Table 21.13. Positional arguments

Value	Summary
<consumer>	Consumer to modify

Table 21.14. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	New consumer description

21.5. CONSUMER SHOW

Display consumer details

Usage:

```
openstack consumer show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        <consumer>
```

Table 21.15. Positional arguments

Value	Summary
<consumer>	Consumer to display

Table 21.16. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 21.17. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 21.18. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 21.19. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 21.20. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 22. CONTAINER

This chapter describes the commands under the **container** command.

22.1. CONTAINER CREATE

Create new container

Usage:

```
openstack container create [-h] [-f {csv,json,table,value,yaml}]
                           [-c COLUMN]
                           [--quote {all,minimal,none,nonnumeric}]
                           [--noindent] [--max-width <integer>]
                           [--fit-width] [--print-empty]
                           [--sort-column SORT_COLUMN]
                           <container-name> [<container-name> ...]
```

Table 22.1. Positional arguments

Value	Summary
<container-name>	New container name(s)

Table 22.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 22.3. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 22.4. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 22.5. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 22.6. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

22.2. CONTAINER DELETE

Delete container

Usage:

```
openstack container delete [-h] [--recursive]
    <container> [<container> ...]
```

Table 22.7. Positional arguments

Value	Summary
<container>	Container(s) to delete

Table 22.8. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--recursive, -r	Recursively delete objects and container

22.3. CONTAINER LIST

List containers

Usage:

```

openstack container list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN]
                        [--prefix <prefix>] [--marker <marker>]
                        [--end-marker <end-marker>]
                        [--limit <num-containers>] [--long] [--all]

```

Table 22.9. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--prefix <prefix>	Filter list using <prefix>
--marker <marker>	Anchor for paging
--end-marker <end-marker>	End anchor for paging
--limit <num-containers>	Limit the number of containers returned
--long	List additional fields in output
--all	List all containers (default is 10000)

Table 22.10. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 22.11. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 22.12. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 22.13. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

22.4. CONTAINER SAVE

Save container contents locally

Usage:

```
openstack container save [-h] <container>
```

Table 22.14. Positional arguments

Value	Summary
<code><container></code>	Container to save

Table 22.15. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

22.5. CONTAINER SET

Set container properties

Usage:

```
openstack container set [-h] --property <key=value> <container>
```

Table 22.16. Positional arguments

Value	Summary
<container>	Container to modify

Table 22.17. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--property <key=value>	Set a property on this container (repeat option to set multiple properties)

22.6. CONTAINER SHOW

Display container details

Usage:

```
openstack container show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        <container>
```

Table 22.18. Positional arguments

Value	Summary
<container>	Container to display

Table 22.19. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 22.20. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 22.21. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 22.22. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 22.23. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

22.7. CONTAINER UNSET

Unset container properties

Usage:

```
openstack container unset [-h] --property <key> <container>
```

Table 22.24. Positional arguments

Value	Summary
<code><container></code>	Container to modify

Table 22.25. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--property <key></code>	Property to remove from container (repeat option to remove multiple properties)

CHAPTER 23. CREDENTIAL

This chapter describes the commands under the **credential** command.

23.1. CREDENTIAL CREATE

Create new credential

Usage:

```
openstack credential create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty] [--type <type>]
                             [--project <project>]
                             <user> <data>
```

Table 23.1. Positional arguments

Value	Summary
<user>	User that owns the credential (name or id)
<data>	New credential data

Table 23.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--type <type>	New credential type: cert, ec2, totp and so on
--project <project>	Project which limits the scope of the credential (name or ID)

Table 23.3. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 23.4. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 23.5. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 23.6. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

23.2. CREDENTIAL DELETE

Delete credential(s)

Usage:

```
openstack credential delete [-h] <credential-id> [<credential-id> ...]
```

Table 23.7. Positional arguments

Value	Summary
<code><credential-id></code>	Id of credential(s) to delete

Table 23.8. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

23.3. CREDENTIAL LIST

List credentials

Usage:

```
openstack credential list [-h] [-f {csv,json,table,value,yaml}]
                          [-c COLUMN]
                          [--quote {all,minimal,none,nonnumeric}]
                          [--noindent] [--max-width <integer>]
                          [--fit-width] [--print-empty]
                          [--sort-column SORT_COLUMN] [--user <user>]
                          [--user-domain <user-domain>] [--type <type>]
```

Table 23.9. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--user <user>	Filter credentials by <user> (name or id)
--user-domain <user-domain>	Domain the user belongs to (name or id). this can be used in case collisions between user names exist.
--type <type>	Filter credentials by type: cert, ec2, totp and so on

Table 23.10. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 23.11. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 23.12. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 23.13. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

23.4. CREDENTIAL SET

Set credential properties

Usage:

```
openstack credential set [-h] --user <user> --type <type> --data <data>
                        [--project <project>]
                        <credential-id>
```

Table 23.14. Positional arguments

Value	Summary
<code><credential-id></code>	Id of credential to change

Table 23.15. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--user <user></code>	User that owns the credential (name or id)
<code>--type <type></code>	New credential type: cert, ec2, totp and so on
<code>--data <data></code>	New credential data

Value	Summary
<code>--project <project></code>	Project which limits the scope of the credential (name or ID)

23.5. CREDENTIAL SHOW

Display credential details

Usage:

```
openstack credential show [-h] [-f {json,shell,table,value,yaml}]
                          [-c COLUMN] [--noindent] [--prefix PREFIX]
                          [--max-width <integer>] [--fit-width]
                          [--print-empty]
                          <credential-id>
```

Table 23.16. Positional arguments

Value	Summary
<code><credential-id></code>	Id of credential to display

Table 23.17. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 23.18. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 23.19. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 23.20. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 23.21. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 24. CRON

This chapter describes the commands under the **cron** command.

24.1. CRON TRIGGER CREATE

Create new trigger.

Usage:

```
openstack cron trigger create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent]
                             [--prefix PREFIX] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--params PARAMS] [--pattern <* * * * *>]
                             [--first-time <YYYY-MM-DD HH:MM>]
                             [--count <integer>] [--utc]
                             name workflow_identifier [workflow_input]
```

Table 24.1. Positional arguments

Value	Summary
name	Cron trigger name
workflow_identifier	Workflow name or id
workflow_input	Workflow input

Table 24.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--params PARAMS	Workflow params
--pattern <* * * * *>	Cron trigger pattern
--first-time <YYYY-MM-DD HH:MM>	Date and time of the first execution. time is treated as local time unless --utc is also specified
--count <integer>	Number of wanted executions
--utc	All times specified should be treated as utc

Table 24.3. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 24.4. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 24.5. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 24.6. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

24.2. CRON TRIGGER DELETE

Delete trigger.

Usage:

```
openstack cron trigger delete [-h] cron_trigger [cron_trigger ...]
```

Table 24.7. Positional arguments

Value	Summary
<code>cron_trigger</code>	Name of cron trigger(s).

Table 24.8. Command arguments

Value	Summary
-h, --help	Show this help message and exit

24.3. CRON TRIGGER LIST

List all cron triggers.

Usage:

```

openstack cron trigger list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--marker [MARKER]] [--limit [LIMIT]]
                             [--sort_keys [SORT_KEYS]]
                             [--sort_dirs [SORT_DIRS]]
                             [--filter FILTERS]

```

Table 24.9. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--marker [MARKER]	The last execution uuid of the previous page, displays list of executions after "marker".
--limit [LIMIT]	Maximum number of entries to return in a single result.
--sort_keys [SORT_KEYS]	Comma-separated list of sort keys to sort results by. Default: created_at. Example: mistral execution-list --sort_keys=id,description
--sort_dirs [SORT_DIRS]	Comma-separated list of sort directions. default: asc. Example: mistral execution-list --sort_keys=id,description --sort_dirs=asc,desc
--filter FILTERS	Filters. can be repeated.

Table 24.10. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 24.11. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 24.12. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 24.13. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

24.4. CRON TRIGGER SHOW

Show specific cron trigger.

Usage:

```
openstack cron trigger show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
```

```

[--print-empty]
cron_trigger

```

Table 24.14. Positional arguments

Value	Summary
<code>cron_trigger</code>	Cron trigger name

Table 24.15. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 24.16. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 24.17. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 24.18. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 24.19. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable

Value	Summary
--print-empty	Print empty table if there is no data to show.

CHAPTER 25. DATASTORE

This chapter describes the commands under the **datastore** command.

25.1. DATASTORE LIST

List available datastores

Usage:

```
openstack datastore list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN]
```

Table 25.1. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 25.2. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 25.3. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 25.4. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 25.5. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

25.2. DATASTORE SHOW

Shows details of a datastore

Usage:

```
openstack datastore show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        <datastore>
```

Table 25.6. Positional arguments

Value	Summary
<code><datastore></code>	Id of the datastore

Table 25.7. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 25.8. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 25.9. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 25.10. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 25.11. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

25.3. DATASTORE VERSION LIST

Lists available versions for a datastore

Usage:

```
openstack datastore version list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                <datastore>
```

Table 25.12. Positional arguments

Value	Summary
<datastore>	Id or name of the datastore

Table 25.13. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 25.14. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 25.15. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 25.16. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 25.17. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

25.4. DATASTORE VERSION SHOW

Shows details of a datastore version.

Usage:

```

openstack datastore version show [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                [--datastore <datastore>]
                                <datastore_version>

```

Table 25.18. Positional arguments

Value	Summary
<datastore_version>	Id or name of the datastore version.

Table 25.19. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--datastore <datastore>	Id or name of the datastore. optional if the id of the datastore_version is provided.

Table 25.20. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 25.21. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 25.22. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 25.23. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 26. DNS

This chapter describes the commands under the **dns** command.

26.1. DNS QUOTA LIST

List quotas

Usage:

```
openstack dns quota list [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--all-projects]
                        [--edit-managed]
                        [--sudo-project-id SUDO_PROJECT_ID]
                        [--project-id PROJECT_ID]
```

Table 26.1. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None
--project-id PROJECT_ID	Project id default: current project

Table 26.2. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 26.3. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 26.4. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 26.5. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

26.2. DNS QUOTA RESET

Reset quotas

Usage:

```
openstack dns quota reset [-h] [--all-projects] [--edit-managed]
                          [--sudo-project-id SUDO_PROJECT_ID]
                          [--project-id PROJECT_ID]
```

Table 26.6. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--all-projects</code>	Show results from all projects. default: false
<code>--edit-managed</code>	Edit resources marked as managed. default: false
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None
<code>--project-id PROJECT_ID</code>	Project id

26.3. DNS QUOTA SET

Set quotas

Usage:

```

openstack dns quota set [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--all-projects]
                        [--edit-managed]
                        [--sudo-project-id SUDO_PROJECT_ID]
                        [--project-id PROJECT_ID]
                        [--api-export-size <api-export-size>]
                        [--recordset-records <recordset-records>]
                        [--zone-records <zone-records>]
                        [--zone-recordsets <zone-recordsets>]
                        [--zones <zones>]

```

Table 26.7. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None
--project-id PROJECT_ID	Project id
--api-export-size <api-export-size>	New value for the api-export-size quota
--recordset-records <recordset-records>	New value for the recordset-records quota
--zone-records <zone-records>	New value for the zone-records quota
--zone-recordsets <zone-recordsets>	New value for the zone-recordsets quota
--zones <zones>	New value for the zones quota

Table 26.8. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 26.9. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 26.10. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 26.11. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

26.4. DNS SERVICE LIST

List service statuses

Usage:

```

openstack dns service list [-h] [-f {csv,json,table,value,yaml}]
                          [-c COLUMN]
                          [--quote {all,minimal,none,nonnumeric}]
                          [--noindent] [--max-width <integer>]
                          [--fit-width] [--print-empty]
                          [--sort-column SORT_COLUMN]
                          [--hostname HOSTNAME]
                          [--service_name SERVICE_NAME]
                          [--status STATUS] [--all-projects]
                          [--edit-managed]
                          [--sudo-project-id SUDO_PROJECT_ID]

```

Table 26.12. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Value	Summary
<code>--hostname HOSTNAME</code>	Hostname
<code>--service_name SERVICE_NAME</code>	Service name
<code>--status STATUS</code>	Status
<code>--all-projects</code>	Show results from all projects. default: false
<code>--edit-managed</code>	Edit resources marked as managed. default: false
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None

Table 26.13. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 26.14. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 26.15. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 26.16. Table formatter options

Value	Summary
-------	---------

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

26.5. DNS SERVICE SHOW

Show service status details

Usage:

```
openstack dns service show [-h] [-f {json,shell,table,value,yaml}]
                          [-c COLUMN] [--noindent] [--prefix PREFIX]
                          [--max-width <integer>] [--fit-width]
                          [--print-empty] [--all-projects]
                          [--edit-managed]
                          [--sudo-project-id SUDO_PROJECT_ID]
                          id
```

Table 26.17. Positional arguments

Value	Summary
<code>id</code>	Service status id

Table 26.18. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--all-projects</code>	Show results from all projects. default: false
<code>--edit-managed</code>	Edit resources marked as managed. default: false
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None

Table 26.19. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 26.20. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 26.21. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 26.22. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 27. DOMAIN

This chapter describes the commands under the **domain** command.

27.1. DOMAIN CREATE

Create new domain

Usage:

```
openstack domain create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--description <description>]
                        [--enable | --disable] [--or-show]
                        <domain-name>
```

Table 27.1. Positional arguments

Value	Summary
<domain-name>	New domain name

Table 27.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	New domain description
--enable	Enable domain (default)
--disable	Disable domain
--or-show	Return existing domain

Table 27.3. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 27.4. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 27.5. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 27.6. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

27.2. DOMAIN DELETE

Delete domain(s)

Usage:

```
openstack domain delete [-h] <domain> [<domain> ...]
```

Table 27.7. Positional arguments

Value	Summary
<code><domain></code>	Domain(s) to delete (name or id)

Table 27.8. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

27.3. DOMAIN LIST

List domains

Usage:

```
openstack domain list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                      [--quote {all,minimal,none,nonnumeric}]
                      [--noindent] [--max-width <integer>]
                      [--fit-width] [--print-empty]
                      [--sort-column SORT_COLUMN]
```

Table 27.9. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 27.10. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 27.11. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 27.12. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 27.13. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

27.4. DOMAIN SET

Set domain properties

Usage:

```
openstack domain set [-h] [--name <name>] [--description <description>]
                    [--enable | --disable]
                    <domain>
```

Table 27.14. Positional arguments

Value	Summary
<domain>	Domain to modify (name or id)

Table 27.15. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	New domain name
--description <description>	New domain description
--enable	Enable domain
--disable	Disable domain

27.5. DOMAIN SHOW

Display domain details

Usage:

```
openstack domain show [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
```

```

[--print-empty]
<domain>

```

Table 27.16. Positional arguments

Value	Summary
<domain>	Domain to display (name or id)

Table 27.17. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 27.18. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 27.19. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 27.20. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 27.21. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
--print-empty	Print empty table if there is no data to show.

CHAPTER 28. EC2

This chapter describes the commands under the **ec2** command.

28.1. EC2 CREDENTIALS CREATE

Create EC2 credentials

Usage:

```
openstack ec2 credentials create [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty] [--project <project>]
                                [--user <user>]
                                [--user-domain <user-domain>]
                                [--project-domain <project-domain>]
```

Table 28.1. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--project <project>	Create credentials in project (name or id; default: current authenticated project)
--user <user>	Create credentials for user (name or id; default: current authenticated user)
--user-domain <user-domain>	Domain the user belongs to (name or id). this can be used in case collisions between user names exist.
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 28.2. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 28.3. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 28.4. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 28.5. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

28.2. EC2 CREDENTIALS DELETE

Delete EC2 credentials

Usage:

```
openstack ec2 credentials delete [-h] [--user <user>]
                                [--user-domain <user-domain>]
                                <access-key> [<access-key> ...]
```

Table 28.6. Positional arguments

Value	Summary
<access-key>	Credentials access key(s)

Table 28.7. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--user <user>	Delete credentials for user (name or id)

Value	Summary
<code>--user-domain <user-domain></code>	Domain the user belongs to (name or id). this can be used in case collisions between user names exist.

28.3. EC2 CREDENTIALS LIST

List EC2 credentials

Usage:

```
openstack ec2 credentials list [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN]
                               [--user <user>]
                               [--user-domain <user-domain>]
```

Table 28.8. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--user <user></code>	Filter list by user (name or id)
<code>--user-domain <user-domain></code>	Domain the user belongs to (name or id). this can be used in case collisions between user names exist.

Table 28.9. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 28.10. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 28.11. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 28.12. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

28.4. EC2 CREDENTIALS SHOW

Display EC2 credentials details

Usage:

```
openstack ec2 credentials show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty] [--user <user>]
                               [--user-domain <user-domain>]
                               <access-key>
```

Table 28.13. Positional arguments

Value	Summary
<code><access-key></code>	Credentials access key

Table 28.14. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--user <user>	Show credentials for user (name or id)
--user-domain <user-domain>	Domain the user belongs to (name or id). this can be used in case collisions between user names exist.

Table 28.15. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 28.16. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 28.17. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 28.18. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 29. ENDPOINT

This chapter describes the commands under the **endpoint** command.

29.1. ENDPOINT ADD PROJECT

Associate a project to an endpoint

Usage:

```
openstack endpoint add project [-h] [--project-domain <project-domain>]
                               <endpoint> <project>
```

Table 29.1. Positional arguments

Value	Summary
<endpoint>	Endpoint to associate with specified project (name or ID)
<project>	Project to associate with specified endpoint name or ID)

Table 29.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

29.2. ENDPOINT CREATE

Create new endpoint

Usage:

```
openstack endpoint create [-h] [-f {json,shell,table,value,yaml}]
                          [-c COLUMN] [--noindent] [--prefix PREFIX]
                          [--max-width <integer>] [--fit-width]
                          [--print-empty] [--region <region-id>]
                          [--enable | --disable]
                          <service> <interface> <url>
```

Table 29.3. Positional arguments

Value	Summary
<service>	Service to be associated with new endpoint (name or ID)
<interface>	New endpoint interface type (admin, public or internal)
<url>	New endpoint url

Table 29.4. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--region <region-id>	New endpoint region id
--enable	Enable endpoint (default)
--disable	Disable endpoint

Table 29.5. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 29.6. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 29.7. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 29.8. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

29.3. ENDPOINT DELETE

Delete endpoint(s)

Usage:

```
openstack endpoint delete [-h] <endpoint-id> [<endpoint-id> ...]
```

Table 29.9. Positional arguments

Value	Summary
<code><endpoint-id></code>	Endpoint(s) to delete (id only)

Table 29.10. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

29.4. ENDPOINT GROUP ADD PROJECT

Add a project to an endpoint group

Usage:

```
openstack endpoint group add project [-h]
                                     [--project-domain <project-domain>]
                                     <endpoint-group> <project>
```

Table 29.11. Positional arguments

Value	Summary
<code><endpoint-group></code>	Endpoint group (name or id)

Value	Summary
<project>	Project to associate (name or id)

Table 29.12. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

29.5. ENDPOINT GROUP CREATE

Create new endpoint group

Usage:

```
openstack endpoint group create [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                [--description DESCRIPTION]
                                <name> <filename>
```

Table 29.13. Positional arguments

Value	Summary
<name>	Name of the endpoint group
<filename>	Filename that contains a new set of filters

Table 29.14. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--description DESCRIPTION	Description of the endpoint group

Table 29.15. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 29.16. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 29.17. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 29.18. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

29.6. ENDPOINT GROUP DELETE

Delete endpoint group(s)

Usage:

```
openstack endpoint group delete [-h]
                               <endpoint-group> [<endpoint-group> ...]
```

Table 29.19. Positional arguments

Value	Summary
<code><endpoint-group></code>	Endpoint group(s) to delete (name or id)

Value	Summary
-------	---------

Table 29.20. Command arguments

Value	Summary
-h, --help	Show this help message and exit

29.7. ENDPOINT GROUP LIST

List endpoint groups

Usage:

```
openstack endpoint group list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--endpointgroup <endpoint-group> | --project <project>]
                             [--domain <domain>]
```

Table 29.21. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--endpointgroup <endpoint-group>	Endpoint group (name or id)
--project <project>	Project (name or id)
--domain <domain>	Domain owning <project> (name or id)

Table 29.22. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Value	Summary
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 29.23. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 29.24. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 29.25. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

29.8. ENDPOINT GROUP REMOVE PROJECT

Remove project from endpoint group

Usage:

```
openstack endpoint group remove project [-h]
                                     [--project-domain <project-domain>]
                                     <endpoint-group> <project>
```

Table 29.26. Positional arguments

Value	Summary
<endpoint-group>	Endpoint group (name or id)
<project>	Project to remove (name or id)

Table 29.27. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

29.9. ENDPOINT GROUP SET

Set endpoint group properties

Usage:

```
openstack endpoint group set [-h] [--name <name>]
                             [--filters <filename>]
                             [--description <description>]
                             <endpoint-group>
```

Table 29.28. Positional arguments

Value	Summary
<endpoint-group>	Endpoint group to modify (name or id)

Table 29.29. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	New endpoint group name
--filters <filename>	Filename that contains a new set of filters
--description <description>	New endpoint group description

29.10. ENDPOINT GROUP SHOW

Display endpoint group details

Usage:

```
openstack endpoint group show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent]
                             [--prefix PREFIX] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             <endpointgroup>
```

Table 29.30. Positional arguments

Value	Summary
<endpointgroup>	Endpoint group (name or id)

Table 29.31. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 29.32. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 29.33. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 29.34. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 29.35. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

29.11. ENDPOINT LIST

List endpoints

Usage:

```
openstack endpoint list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN]
                        [--service <service>] [--interface <interface>]
                        [--region <region-id>]
                        [--endpoint <endpoint-group> | --project <project>]
                        [--project-domain <project-domain>]
```

Table 29.36. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--service <service></code>	Filter by service (type, name or id)
<code>--interface <interface></code>	Filter by interface type (admin, public or internal)
<code>--region <region-id></code>	Filter by region id
<code>--endpoint <endpoint-group></code>	Endpoint to list filters
<code>--project <project></code>	Project to list filters (name or id)
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 29.37. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 29.38. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 29.39. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 29.40. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

29.12. ENDPOINT REMOVE PROJECT

Dissociate a project from an endpoint

Usage:

```
openstack endpoint remove project [-h]
                                [--project-domain <project-domain>]
                                <endpoint> <project>
```

Table 29.41. Positional arguments

Value	Summary
<endpoint>	Endpoint to dissociate from specified project (name or ID)
<project>	Project to dissociate from specified endpoint name or ID)

Table 29.42. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

29.13. ENDPOINT SET

Set endpoint properties

Usage:

```
openstack endpoint set [-h] [--region <region-id>
                        [--interface <interface>] [--url <url>]
                        [--service <service>] [--enable | --disable]
                        <endpoint-id>
```

Table 29.43. Positional arguments

Value	Summary
<endpoint-id>	Endpoint to modify (id only)

Table 29.44. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--region <region-id>	New endpoint region id
--interface <interface>	New endpoint interface type (admin, public or internal)

Value	Summary
--url <url>	New endpoint url
--service <service>	New endpoint service (name or id)
--enable	Enable endpoint
--disable	Disable endpoint

29.14. ENDPOINT SHOW

Display endpoint details

Usage:

```
openstack endpoint show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        <endpoint>
```

Table 29.45. Positional arguments

Value	Summary
<endpoint>	Endpoint to display (endpoint id, service id, service name, service type)

Table 29.46. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 29.47. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 29.48. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 29.49. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 29.50. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 30. EVENT

This chapter describes the commands under the **event** command.

30.1. EVENT TRIGGER CREATE

Create new trigger.

Usage:

```
openstack event trigger create [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty] [--params PARAMS]
                               name workflow_id exchange topic event
                               [workflow_input]
```

Table 30.1. Positional arguments

Value	Summary
name	Event trigger name
workflow_id	Workflow id
exchange	Event trigger exchange
topic	Event trigger topic
event	Event trigger event name
workflow_input	Workflow input

Table 30.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--params PARAMS	Workflow params

Table 30.3. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table

Value	Summary
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 30.4. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 30.5. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 30.6. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

30.2. EVENT TRIGGER DELETE

Delete trigger.

Usage:

```
openstack event trigger delete [-h]
                               event_trigger_id [event_trigger_id ...]
```

Table 30.7. Positional arguments

Value	Summary
event_trigger_id	Id of event trigger(s).

Table 30.8. Command arguments

Value	Summary
-h, --help	Show this help message and exit

30.3. EVENT TRIGGER LIST

List all event triggers.

Usage:

```
openstack event trigger list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--marker [MARKER]] [--limit [LIMIT]]
                             [--sort_keys [SORT_KEYS]]
                             [--sort_dirs [SORT_DIRS]]
                             [--filter FILTERS]
```

Table 30.9. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--marker [MARKER]	The last execution uuid of the previous page, displays list of executions after "marker".
--limit [LIMIT]	Maximum number of entries to return in a single result.
--sort_keys [SORT_KEYS]	Comma-separated list of sort keys to sort results by. Default: created_at. Example: mistral execution-list --sort_keys=id,description
--sort_dirs [SORT_DIRS]	Comma-separated list of sort directions. default: asc. Example: mistral execution-list --sort_keys=id,description --sort_dirs=asc,desc
--filter FILTERS	Filters. can be repeated.

Table 30.10. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table

Value	Summary
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 30.11. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 30.12. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 30.13. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

30.4. EVENT TRIGGER SHOW

Show specific event trigger.

Usage:

```
openstack event trigger show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             event_trigger
```

Table 30.14. Positional arguments

Value	Summary
event_trigger	Event trigger id

Table 30.15. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 30.16. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 30.17. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 30.18. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 30.19. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 31. EXTENSION

This chapter describes the commands under the **extension** command.

31.1. EXTENSION LIST

List API extensions

Usage:

```
openstack extension list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--compute]
                        [--identity] [--network] [--volume] [--long]
```

Table 31.1. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--compute	List extensions for the compute api
--identity	List extensions for the identity api
--network	List extensions for the network api
--volume	List extensions for the block storage api
--long	List additional fields in output

Table 31.2. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 31.3. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 31.4. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 31.5. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

31.2. EXTENSION SHOW

Show API extension

Usage:

```
openstack extension show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        <extension>
```

Table 31.6. Positional arguments

Value	Summary
<code><extension></code>	Extension to display. currently, only network extensions are supported. (Name or Alias)

Table 31.7. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 31.8. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 31.9. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 31.10. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 31.11. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 32. FEDERATION

This chapter describes the commands under the **federation** command.

32.1. FEDERATION DOMAIN LIST

List accessible domains

Usage:

```
openstack federation domain list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
```

Table 32.1. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 32.2. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 32.3. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 32.4. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 32.5. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

32.2. FEDERATION PROJECT LIST

List accessible projects

Usage:

```
openstack federation project list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
```

Table 32.6. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 32.7. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 32.8. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 32.9. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 32.10. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

32.3. FEDERATION PROTOCOL CREATE

Create new federation protocol

Usage:

```
openstack federation protocol create [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     --identity-provider
                                     <identity-provider> --mapping
                                     <mapping>
                                     <name>
```

Table 32.11. Positional arguments

Value	Summary
<code><name></code>	New federation protocol name (must be unique per identity provider)

Table 32.12. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--identity-provider <identity-provider>	Identity provider that will support the new federation protocol (name or ID) (required)
--mapping <mapping>	Mapping that is to be used (name or id) (required)

Table 32.13. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 32.14. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 32.15. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 32.16. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

32.4. FEDERATION PROTOCOL DELETE

Delete federation protocol(s)

Usage:

```
openstack federation protocol delete [-h] --identity-provider
    <identity-provider>
    <federation-protocol>
    [<federation-protocol> ...]
```

Table 32.17. Positional arguments

Value	Summary
<federation-protocol>	Federation protocol(s) to delete (name or id)

Table 32.18. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--identity-provider <identity-provider>	Identity provider that supports <federation-protocol> (name or ID) (required)

32.5. FEDERATION PROTOCOL LIST

List federation protocols

Usage:

```
openstack federation protocol list [-h]
    [-f {csv,json,table,value,yaml}]
    [-c COLUMN]
    [--quote {all,minimal,none,nonnumeric}]
    [--noindent] [--max-width <integer>]
    [--fit-width] [--print-empty]
    [--sort-column SORT_COLUMN]
    --identity-provider
    <identity-provider>
```

Table 32.19. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--identity-provider <identity-provider>	Identity provider to list (name or id) (required)

Table 32.20. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 32.21. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 32.22. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 32.23. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

32.6. FEDERATION PROTOCOL SET

Set federation protocol properties

Usage:

```
openstack federation protocol set [-h] --identity-provider
    <identity-provider>
    [--mapping <mapping>]
```

<name>

Table 32.24. Positional arguments

Value	Summary
<name>	Federation protocol to modify (name or id)

Table 32.25. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--identity-provider <identity-provider>	Identity provider that supports <federation-protocol> (name or ID) (required)
--mapping <mapping>	Mapping that is to be used (name or id)

32.7. FEDERATION PROTOCOL SHOW

Display federation protocol details

Usage:

```

openstack federation protocol show [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                --identity-provider
                                <identity-provider>
                                <federation-protocol>

```

Table 32.26. Positional arguments

Value	Summary
<federation-protocol>	Federation protocol to display (name or id)

Table 32.27. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Value	Summary
<code>--identity-provider <identity-provider></code>	Identity provider that supports <federation-protocol> (name or ID) (required)

Table 32.28. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 32.29. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 32.30. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 32.31. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 33. FLAVOR

This chapter describes the commands under the **flavor** command.

33.1. FLAVOR CREATE

Create new flavor

Usage:

```
openstack flavor create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--id <id>] [--ram <size-mb>]
                        [--disk <size-gb>] [--ephemeral <size-gb>]
                        [--swap <size-mb>] [--vcpus <vcpus>]
                        [--rxtx-factor <factor>] [--public | --private]
                        [--property <key=value>] [--project <project>]
                        [--description <description>]
                        [--project-domain <project-domain>]
                        <flavor-name>
```

Table 33.1. Positional arguments

Value	Summary
<flavor-name>	New flavor name

Table 33.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--id <id>	Unique flavor id; <i>auto</i> creates a uuid (default: auto)
--ram <size-mb>	Memory size in mb (default 256m)
--disk <size-gb>	Disk size in gb (default 0g)
--ephemeral <size-gb>	Ephemeral disk size in gb (default 0g)
--swap <size-mb>	Additional swap space size in mb (default 0m)
--vcpus <vcpus>	Number of vcpus (default 1)
--rxtx-factor <factor>	Rx/tx factor (default 1.0)
--public	Flavor is available to other projects (default)

Value	Summary
<code>--private</code>	Flavor is not available to other projects
<code>--property <key=value></code>	Property to add for this flavor (repeat option to set multiple properties)
<code>--project <project></code>	Allow <project> to access private flavor (name or id) (Must be used with <code>--private</code> option)
<code>--description <description></code>	Description for the flavor.(supported by api versions 2.55 - 2.latest)
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 33.3. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 33.4. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 33.5. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 33.6. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

33.2. FLAVOR DELETE

Delete flavor(s)

Usage:

```
openstack flavor delete [-h] <flavor> [<flavor> ...]
```

Table 33.7. Positional arguments

Value	Summary
<code><flavor></code>	Flavor(s) to delete (name or id)

Table 33.8. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

33.3. FLAVOR LIST

List flavors

Usage:

```
openstack flavor list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>]
                    [--fit-width] [--print-empty]
                    [--sort-column SORT_COLUMN]
                    [--public | --private | --all] [--long]
                    [--marker <flavor-id>] [--limit <num-flavors>]
```

Table 33.9. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Value	Summary
<code>--public</code>	List only public flavors (default)
<code>--private</code>	List only private flavors
<code>--all</code>	List all flavors, whether public or private
<code>--long</code>	List additional fields in output
<code>--marker <flavor-id></code>	The last flavor id of the previous page
<code>--limit <num-flavors></code>	Maximum number of flavors to display

Table 33.10. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 33.11. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 33.12. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 33.13. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

33.4. FLAVOR SET

Set flavor properties

Usage:

```
openstack flavor set [-h] [--no-property] [--property <key=value>]
                    [--project <project>]
                    [--description <description>]
                    [--project-domain <project-domain>]
                    <flavor>
```

Table 33.14. Positional arguments

Value	Summary
<flavor>	Flavor to modify (name or id)

Table 33.15. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--no-property	Remove all properties from this flavor (specify both --no-property and --property to remove the current properties before setting new properties.)
--property <key=value>	Property to add or modify for this flavor (repeat option to set multiple properties)
--project <project>	Set flavor access to project (name or id) (admin only)
--description <description>	Set description for the flavor.(supported by api versions 2.55 - 2.latest
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

33.5. FLAVOR SHOW

Display flavor details

Usage:

```
openstack flavor show [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty]
                    <flavor>
```

Table 33.16. Positional arguments

Value	Summary
<flavor>	Flavor to display (name or id)

Table 33.17. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 33.18. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 33.19. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 33.20. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 33.21. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

33.6. FLAVOR UNSET

Unset flavor properties

Usage:

```
openstack flavor unset [-h] [--property <key>] [--project <project>]
                        [--project-domain <project-domain>]
                        <flavor>
```

Table 33.22. Positional arguments

Value	Summary
<code><flavor></code>	Flavor to modify (name or id)

Table 33.23. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--property <key></code>	Property to remove from flavor (repeat option to unset multiple properties)
<code>--project <project></code>	Remove flavor access from project (name or id) (admin only)
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

CHAPTER 34. FLOATING

This chapter describes the commands under the **floating** command.

34.1. FLOATING IP CREATE

Create floating IP

Usage:

```
openstack floating ip create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty] [--subnet <subnet>]
                             [--port <port>]
                             [--floating-ip-address <ip-address>]
                             [--fixed-ip-address <ip-address>]
                             [--qos-policy <qos-policy>]
                             [--description <description>]
                             [--project <project>]
                             [--dns-domain <dns-domain>]
                             [--dns-name <dns-name>]
                             [--project-domain <project-domain>]
                             [--tag <tag> | --no-tag]
                             <network>
```

Table 34.1. Positional arguments

Value	Summary
<network>	Network to allocate floating ip from (name or id)

Table 34.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--subnet <subnet>	Subnet on which you want to create the floating ip (name or ID)
--port <port>	Port to be associated with the floating ip (name or ID)
--floating-ip-address <ip-address>	Floating ip address
--fixed-ip-address <ip-address>	Fixed ip address mapped to the floating ip
--qos-policy <qos-policy>	Attach qos policy to the floating ip (name or id)

Value	Summary
<code>--description <description></code>	Set floating ip description
<code>--project <project></code>	Owner's project (name or id)
<code>--dns-domain <dns-domain></code>	Set dns domain for this floating ip
<code>--dns-name <dns-name></code>	Set dns name for this floating ip
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
<code>--tag <tag></code>	Tag to be added to the floating ip (repeat option to set multiple tags)
<code>--no-tag</code>	No tags associated with the floating ip

Table 34.3. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 34.4. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 34.5. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 34.6. Table formatter options

Value	Summary
-------	---------

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

34.2. FLOATING IP DELETE

Delete floating IP(s)

Usage:

```
openstack floating ip delete [-h] <floating-ip> [<floating-ip> ...]
```

Table 34.7. Positional arguments

Value	Summary
<code><floating-ip></code>	Floating ip(s) to delete (ip address or id)

Table 34.8. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

34.3. FLOATING IP LIST

List floating IP(s)

Usage:

```
openstack floating ip list [-h] [-f {csv,json,table,value,yaml}]
                          [-c COLUMN]
                          [--quote {all,minimal,none,nonnumeric}]
                          [--noindent] [--max-width <integer>]
                          [--fit-width] [--print-empty]
                          [--sort-column SORT_COLUMN]
                          [--network <network>] [--port <port>]
                          [--fixed-ip-address <ip-address>]
                          [--floating-ip-address <ip-address>]
                          [--long] [--status <status>]
                          [--project <project>]
```

```

[--project-domain <project-domain>]
[--router <router>]
[--tags <tag>[,<tag>,...]]
[--any-tags <tag>[,<tag>,...]]
[--not-tags <tag>[,<tag>,...]]
[--not-any-tags <tag>[,<tag>,...]]

```

Table 34.9. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--network <network>	List floating ip(s) according to given network (name or ID)
--port <port>	List floating ip(s) according to given port (name or ID)
--fixed-ip-address <ip-address>	List floating ip(s) according to given fixed ip address
--floating-ip-address <ip-address>	List floating ip(s) according to given floating ip address
--long	List additional fields in output
--status <status>	List floating ip(s) according to given status (<i>ACTIVE</i> , <i>DOWN</i>)
--project <project>	List floating ip(s) according to given project (name or ID)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--router <router>	List floating ip(s) according to given router (name or ID)
--tags <tag>[,<tag>,...]	List floating ip which have all given tag(s) (comma-separated list of tags)
--any-tags <tag>[,<tag>,...]	List floating ip which have any given tag(s) (comma-separated list of tags)
--not-tags <tag>[,<tag>,...]	Exclude floating ip which have all given tag(s) (Comma-separated list of tags)
--not-any-tags <tag>[,<tag>,...]	Exclude floating ip which have any given tag(s) (Comma-separated list of tags)

Table 34.10. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 34.11. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 34.12. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 34.13. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

34.4. FLOATING IP POOL LIST

List pools of floating IP addresses

Usage:

```
openstack floating ip pool list [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
```



```

[--noindent] [--max-width <integer>]
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]

```

Table 34.14. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 34.15. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 34.16. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 34.17. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 34.18. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show.

34.5. FLOATING IP PORT FORWARDING CREATE

Create floating IP port forwarding

Usage:

```

openstack floating ip port forwarding create [-h]
      [-f {json,shell,table,value,yaml}]
      [-c COLUMN] [--noindent]
      [--prefix PREFIX]
      [--max-width <integer>]
      [--fit-width]
      [--print-empty]
      --internal-ip-address
      <internal-ip-address>
      --port <port>
      --internal-protocol-port
      <port-number>
      --external-protocol-port
      <port-number> --protocol
      <protocol>
      <floating-ip>

```

Table 34.19. Positional arguments

Value	Summary
<code><floating-ip></code>	Floating ip that the port forwarding belongs to (ip address or ID)

Table 34.20. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--internal-ip-address <internal-ip-address></code>	The fixed ipv4 address of the network port associated to the floating IP port forwarding
<code>--port <port></code>	The name or id of the network port associated to the floating IP port forwarding
<code>--internal-protocol-port <port-number></code>	The protocol port number of the network port fixed IPv4 address associated to the floating IP port forwarding

Value	Summary
<code>--external-protocol-port <port-number></code>	The protocol port number of the port forwarding's floating IP address
<code>--protocol <protocol></code>	The protocol used in the floating ip port forwarding, for instance: TCP, UDP

Table 34.21. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 34.22. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 34.23. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 34.24. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

34.6. FLOATING IP PORT FORWARDING DELETE

Delete floating IP port forwarding

Usage:

```
openstack floating ip port forwarding delete [-h]
                                         <floating-ip>
                                         <port-forwarding-id>
                                         [<port-forwarding-id> ...]
```

Table 34.25. Positional arguments

Value	Summary
<floating-ip>	Floating ip that the port forwarding belongs to (ip address or ID)
<port-forwarding-id>	The id of the floating ip port forwarding(s) to delete

Table 34.26. Command arguments

Value	Summary
-h, --help	Show this help message and exit

34.7. FLOATING IP PORT FORWARDING LIST

List floating IP port forwarding

Usage:

```
openstack floating ip port forwarding list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width]
                                         [--print-empty]
                                         [--sort-column SORT_COLUMN]
                                         [--port <port>]
                                         [--external-protocol-port <port-number>]
                                         [--protocol protocol]
                                         <floating-ip>
```

Table 34.27. Positional arguments

Value	Summary
<floating-ip>	Floating ip that the port forwarding belongs to (ip address or ID)

Table 34.28. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--port <port>	Filter the list result by the id or name of the internal network port
--external-protocol-port <port-number>	Filter the list result by the protocol port number of the floating IP
--protocol protocol	Filter the list result by the port protocol

Table 34.29. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 34.30. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 34.31. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 34.32. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

34.8. FLOATING IP PORT FORWARDING SET

Set floating IP Port Forwarding Properties

Usage:

```
openstack floating ip port forwarding set [-h] [--port <port>]
                                         [--internal-ip-address <internal-ip-address>]
                                         [--internal-protocol-port <port-number>]
                                         [--external-protocol-port <port-number>]
                                         [--protocol <protocol>]
                                         <floating-ip>
                                         <port-forwarding-id>
```

Table 34.33. Positional arguments

Value	Summary
<floating-ip>	Floating ip that the port forwarding belongs to (ip address or ID)
<port-forwarding-id>	The id of the floating ip port forwarding

Table 34.34. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--port <port>	The id of the network port associated to the floating IP port forwarding
--internal-ip-address <internal-ip-address>	The fixed ipv4 address of the network port associated to the floating IP port forwarding
--internal-protocol-port <port-number>	The tcp/udp/other protocol port number of the network port fixed IPv4 address associated to the floating IP port forwarding

Value	Summary
<code>--external-protocol-port <port-number></code>	The tcp/udp/other protocol port number of the port forwarding's floating IP address
<code>--protocol <protocol></code>	The ip protocol used in the floating ip port forwarding

34.9. FLOATING IP PORT FORWARDING SHOW

Display floating IP Port Forwarding details

Usage:

```
openstack floating ip port forwarding show [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width]
                                         [--print-empty]
                                         <floating-ip>
                                         <port-forwarding-id>
```

Table 34.35. Positional arguments

Value	Summary
<code><floating-ip></code>	Floating ip that the port forwarding belongs to (ip address or ID)
<code><port-forwarding-id></code>	The id of the floating ip port forwarding

Table 34.36. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 34.37. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 34.38. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 34.39. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 34.40. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

34.10. FLOATING IP SET

Set floating IP Properties

Usage:

```
openstack floating ip set [-h] [--port <port>]
                        [--fixed-ip-address <ip-address>]
                        [--qos-policy <qos-policy> | --no-qos-policy]
                        [--tag <tag>] [--no-tag]
                        <floating-ip>
```

Table 34.41. Positional arguments

Value	Summary
<floating-ip>	Floating ip to modify (ip address or id)

Table 34.42. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--port <port>	Associate the floating ip with port (name or id)
--fixed-ip-address <ip-address>	Fixed ip of the port (required only if port has multiple IPs)
--qos-policy <qos-policy>	Attach qos policy to the floating ip (name or id)
--no-qos-policy	Remove the qos policy attached to the floating ip
--tag <tag>	Tag to be added to the floating ip (repeat option to set multiple tags)
--no-tag	Clear tags associated with the floating ip. specify both --tag and --no-tag to overwrite current tags

34.11. FLOATING IP SHOW

Display floating IP details

Usage:

```
openstack floating ip show [-h] [-f {json,shell,table,value,yaml}]
                          [-c COLUMN] [--noindent] [--prefix PREFIX]
                          [--max-width <integer>] [--fit-width]
                          [--print-empty]
                          <floating-ip>
```

Table 34.43. Positional arguments

Value	Summary
<floating-ip>	Floating ip to display (ip address or id)

Table 34.44. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 34.45. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 34.46. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 34.47. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 34.48. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

34.12. FLOATING IP UNSET

Unset floating IP Properties

Usage:

```
openstack floating ip unset [-h] [--port] [--qos-policy]
                             [--tag <tag> | --all-tag]
                             <floating-ip>
```

Table 34.49. Positional arguments

Value	Summary
<floating-ip>	Floating ip to disassociate (ip address or id)

Table 34.50. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--port	Disassociate any port associated with the floating ip
--qos-policy	Remove the qos policy attached to the floating ip
--tag <tag>	Tag to be removed from the floating ip (repeat option to remove multiple tags)
--all-tag	Clear all tags associated with the floating ip

CHAPTER 35. GROUP

This chapter describes the commands under the **group** command.

35.1. GROUP ADD USER

Add user to group

Usage:

```
openstack group add user [-h] [--group-domain <group-domain>]
                        [--user-domain <user-domain>]
                        <group> <user> [<user> ...]
```

Table 35.1. Positional arguments

Value	Summary
<group>	Group to contain <user> (name or id)
<user>	User(s) to add to <group> (name or id) (repeat option to add multiple users)

Table 35.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--group-domain <group-domain>	Domain the group belongs to (name or id). this can be used in case collisions between group names exist.
--user-domain <user-domain>	Domain the user belongs to (name or id). this can be used in case collisions between user names exist.

35.2. GROUP CONTAINS USER

Check user membership in group

Usage:

```
openstack group contains user [-h] [--group-domain <group-domain>]
                              [--user-domain <user-domain>]
                              <group> <user>
```

Table 35.3. Positional arguments

Value	Summary
<group>	Group to check (name or id)
<user>	User to check (name or id)

Table 35.4. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--group-domain <group-domain>	Domain the group belongs to (name or id). this can be used in case collisions between group names exist.
--user-domain <user-domain>	Domain the user belongs to (name or id). this can be used in case collisions between user names exist.

35.3. GROUP CREATE

Create new group

Usage:

```
openstack group create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--domain <domain>]
                        [--description <description>] [--or-show]
                        <group-name>
```

Table 35.5. Positional arguments

Value	Summary
<group-name>	New group name

Table 35.6. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Domain to contain new group (name or id)
--description <description>	New group description

Value	Summary
<code>--or-show</code>	Return existing group

Table 35.7. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 35.8. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 35.9. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 35.10. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

35.4. GROUP DELETE

Delete group(s)

Usage:

```
openstack group delete [-h] [--domain <domain>] <group> [<group> ...]
```

Table 35.11. Positional arguments

Value	Summary
<group>	Group(s) to delete (name or id)

Table 35.12. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Domain containing group(s) (name or id)

35.5. GROUP LIST

List groups

Usage:

```
openstack group list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>] [--fit-width]
                    [--print-empty] [--sort-column SORT_COLUMN]
                    [--domain <domain>] [--user <user>]
                    [--user-domain <user-domain>] [--long]
```

Table 35.13. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Filter group list by <domain> (name or id)
--user <user>	Filter group list by <user> (name or id)
--user-domain <user-domain>	Domain the user belongs to (name or id). this can be used in case collisions between user names exist.
--long	List additional fields in output

Table 35.14. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table

Value	Summary
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 35.15. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 35.16. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 35.17. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

35.6. GROUP REMOVE USER

Remove user from group

Usage:

```
openstack group remove user [-h] [--group-domain <group-domain>]
                             [--user-domain <user-domain>]
                             <group> <user> [<user> ...]
```

Table 35.18. Positional arguments

Value	Summary
<group>	Group containing <user> (name or id)
<user>	User(s) to remove from <group> (name or id) (repeat option to remove multiple users)

Table 35.19. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--group-domain <group-domain>	Domain the group belongs to (name or id). this can be used in case collisions between group names exist.
--user-domain <user-domain>	Domain the user belongs to (name or id). this can be used in case collisions between user names exist.

35.7. GROUP SET

Set group properties

Usage:

```
openstack group set [-h] [--domain <domain>] [--name <name>]
                  [--description <description>]
                  <group>
```

Table 35.20. Positional arguments

Value	Summary
<group>	Group to modify (name or id)

Table 35.21. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Domain containing <group> (name or id)
--name <name>	New group name
--description <description>	New group description

35.8. GROUP SHOW

Display group details

Usage:

```
openstack group show [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--domain <domain>]
                    <group>
```

Table 35.22. Positional arguments

Value	Summary
<group>	Group to display (name or id)

Table 35.23. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Domain containing <group> (name or id)

Table 35.24. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 35.25. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 35.26. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 35.27. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 36. HELP

This chapter describes the commands under the **help** command.

36.1. HELP

print detailed help for another command

Usage:

```
openstack help [-h] [cmd [cmd ...]]
```

Table 36.1. Positional arguments

Value	Summary
cmd	Name of the command

Table 36.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit

CHAPTER 37. HOST

This chapter describes the commands under the **host** command.

37.1. HOST LIST

List hosts

Usage:

```
openstack host list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>] [--fit-width]
                    [--print-empty] [--sort-column SORT_COLUMN]
                    [--zone <zone>]
```

Table 37.1. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--zone <zone>	Only return hosts in the availability zone

Table 37.2. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 37.3. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 37.4. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 37.5. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

37.2. HOST SET

Set host properties

Usage:

```
openstack host set [-h] [--enable | --disable]
                  [--enable-maintenance | --disable-maintenance]
                  <host>
```

Table 37.6. Positional arguments

Value	Summary
<code><host></code>	Host to modify (name only)

Table 37.7. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--enable</code>	Enable the host
<code>--disable</code>	Disable the host
<code>--enable-maintenance</code>	Enable maintenance mode for the host
<code>--disable-maintenance</code>	Disable maintenance mode for the host

37.3. HOST SHOW

Display host details

Usage:

```

openstack host show [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>] [--fit-width]
                    [--print-empty] [--sort-column SORT_COLUMN]
                    <host>

```

Table 37.8. Positional arguments

Value	Summary
<host>	Name of host

Table 37.9. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 37.10. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 37.11. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 37.12. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 37.13. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 38. HYPERVISOR

This chapter describes the commands under the **hypervisor** command.

38.1. HYPERVISOR LIST

List hypervisors

Usage:

```
openstack hypervisor list [-h] [-f {csv,json,table,value,yaml}]
                          [-c COLUMN]
                          [--quote {all,minimal,none,nonnumeric}]
                          [--noindent] [--max-width <integer>]
                          [--fit-width] [--print-empty]
                          [--sort-column SORT_COLUMN]
                          [--matching <hostname>] [--long]
```

Table 38.1. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--matching <hostname>	Filter hypervisors using <hostname> substring
--long	List additional fields in output

Table 38.2. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 38.3. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 38.4. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 38.5. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

38.2. HYPERVISOR SHOW

Display hypervisor details

Usage:

```

openstack hypervisor show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        <hypervisor>

```

Table 38.6. Positional arguments

Value	Summary
<code><hypervisor></code>	Hypervisor to display (name or id)

Table 38.7. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 38.8. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 38.9. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 38.10. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 38.11. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

38.3. HYPERVISOR STATS SHOW

Display hypervisor stats details

Usage:

```
openstack hypervisor stats show [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
```

Table 38.12. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 38.13. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 38.14. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 38.15. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 38.16. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 39. IDENTITY

This chapter describes the commands under the **identity** command.

39.1. IDENTITY PROVIDER CREATE

Create new identity provider

Usage:

```
openstack identity provider create [-h]
                                  [-f {json,shell,table,value,yaml}]
                                  [-c COLUMN] [--noindent]
                                  [--prefix PREFIX]
                                  [--max-width <integer>]
                                  [--fit-width] [--print-empty]
                                  [--remote-id <remote-id> | --remote-id-file <file-name>]
                                  [--description <description>]
                                  [--domain <domain>]
                                  [--enable | --disable]
                                  <name>
```

Table 39.1. Positional arguments

Value	Summary
<name>	New identity provider name (must be unique)

Table 39.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--remote-id <remote-id>	Remote ids to associate with the identity provider (repeat option to provide multiple values)
--remote-id-file <file-name>	Name of a file that contains many remote ids to associate with the identity provider, one per line
--description <description>	New identity provider description
--domain <domain>	Domain to associate with the identity provider. if not specified, a domain will be created automatically. (Name or ID)
--enable	Enable identity provider (default)
--disable	Disable the identity provider

Table 39.3. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 39.4. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 39.5. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 39.6. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

39.2. IDENTITY PROVIDER DELETE

Delete identity provider(s)

Usage:

```
openstack identity provider delete [-h]
                                <identity-provider>
                                [<identity-provider> ...]
```

Table 39.7. Positional arguments

Value	Summary
<identity-provider>	Identity provider(s) to delete

Table 39.8. Command arguments

Value	Summary
-h, --help	Show this help message and exit

39.3. IDENTITY PROVIDER LIST

List identity providers

Usage:

```
openstack identity provider list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
```

Table 39.9. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 39.10. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 39.11. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 39.12. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 39.13. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

39.4. IDENTITY PROVIDER SET

Set identity provider properties

Usage:

```
openstack identity provider set [-h] [--description <description>]
                               [--remote-id <remote-id> | --remote-id-file <file-name>]
                               [--enable | --disable]
                               <identity-provider>
```

Table 39.14. Positional arguments

Value	Summary
<identity-provider>	Identity provider to modify

Table 39.15. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Set identity provider description
--remote-id <remote-id>	Remote ids to associate with the identity provider (repeat option to provide multiple values)

Value	Summary
<code>--remote-id-file <file-name></code>	Name of a file that contains many remote ids to associate with the identity provider, one per line
<code>--enable</code>	Enable the identity provider
<code>--disable</code>	Disable the identity provider

39.5. IDENTITY PROVIDER SHOW

Display identity provider details

Usage:

```
openstack identity provider show [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <identity-provider>
```

Table 39.16. Positional arguments

Value	Summary
<code><identity-provider></code>	Identity provider to display

Table 39.17. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 39.18. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 39.19. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 39.20. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 39.21. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 40. IMAGE

This chapter describes the commands under the **image** command.

40.1. IMAGE ADD PROJECT

Associate project with image

Usage:

```
openstack image add project [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             [--project-domain <project-domain>]
                             <image> <project>
```

Table 40.1. Positional arguments

Value	Summary
<image>	Image to share (name or id)
<project>	Project to associate with image (id)

Table 40.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 40.3. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 40.4. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 40.5. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 40.6. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

40.2. IMAGE CREATE

Create/upload an image

Usage:

```
openstack image create [-h] [-f {json,shell,table,value,yaml}]
  [-c COLUMN] [--noindent] [--prefix PREFIX]
  [--max-width <integer>] [--fit-width]
  [--print-empty] [--id <id>]
  [--container-format <container-format>]
  [--disk-format <disk-format>]
  [--min-disk <disk-gb>] [--min-ram <ram-mb>]
  [--file <file> | --volume <volume>] [--force]
  [--sign-key-path <sign-key-path>]
  [--sign-cert-id <sign-cert-id>]
  [--protected | --unprotected]
  [--public | --private | --community | --shared]
  [--property <key=value>] [--tag <tag>]
  [--project <project>]
  [--project-domain <project-domain>]
  <image-name>
```

Table 40.7. Positional arguments

Value	Summary
<image-name>	New image name

Table 40.8. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--id <id>	Image id to reserve
--container-format <container-format>	Image container format. the supported options are: ami, ari, aki, bare, docker, ova, ovf. The default format is: bare
--disk-format <disk-format>	Image disk format. the supported options are: ami, ari, aki, vhd, vmdk, raw, qcow2, vhdx, vdi, iso, ploop. The default format is: raw
--min-disk <disk-gb>	Minimum disk size needed to boot image, in gigabytes
--min-ram <ram-mb>	Minimum ram size needed to boot image, in megabytes
--file <file>	Upload image from local file
--volume <volume>	Create image from a volume
--force	Force image creation if volume is in use (only meaningful with --volume)
--sign-key-path <sign-key-path>	Sign the image using the specified private key. only use in combination with --sign-cert-id
--sign-cert-id <sign-cert-id>	The specified certificate uuid is a reference to the certificate in the key manager that corresponds to the public key and is used for signature validation. Only use in combination with --sign-key-path
--protected	Prevent image from being deleted
--unprotected	Allow image to be deleted (default)
--public	Image is accessible to the public
--private	Image is inaccessible to the public (default)

Value	Summary
<code>--community</code>	Image is accessible to the community
<code>--shared</code>	Image can be shared
<code>--property <key=value></code>	Set a property on this image (repeat option to set multiple properties)
<code>--tag <tag></code>	Set a tag on this image (repeat option to set multiple tags)
<code>--project <project></code>	Set an alternate project on this image (name or id)
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 40.9. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 40.10. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 40.11. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 40.12. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

40.3. IMAGE DELETE

Delete image(s)

Usage:

```
openstack image delete [-h] <image> [<image> ...]
```

Table 40.13. Positional arguments

Value	Summary
<image>	Image(s) to delete (name or id)

Table 40.14. Command arguments

Value	Summary
-h, --help	Show this help message and exit

40.4. IMAGE LIST

List available images

Usage:

```
openstack image list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
  [--quote {all,minimal,none,nonnumeric}]
  [--noindent] [--max-width <integer>] [--fit-width]
  [--print-empty] [--sort-column SORT_COLUMN]
  [--public | --private | --community | --shared]
  [--property <key=value>] [--name <name>]
  [--status <status>]
  [--member-status <member-status>] [--tag <tag>]
  [--long] [--sort <key>[:<direction>]]
  [--limit <num-images>] [--marker <image>]
```

Table 40.15. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--public	List only public images
--private	List only private images
--community	List only community images
--shared	List only shared images
--property <key=value>	Filter output based on property (repeat option to filter on multiple properties)
--name <name>	Filter images based on name.
--status <status>	Filter images based on status.
--member-status <member-status>	Filter images based on member status. the supported options are: accepted, pending, rejected, all.
--tag <tag>	Filter images based on tag.
--long	List additional fields in output
--sort <key>[:<direction>]	Sort output by selected keys and directions(asc or desc) (default: name:asc), multiple keys and directions can be specified separated by comma
--limit <num-images>	Maximum number of images to display.
--marker <image>	The last image of the previous page. display list of images after marker. Display all images if not specified. (name or ID)

Table 40.16. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 40.17. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 40.18. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 40.19. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

40.5. IMAGE MEMBER LIST

List projects associated with image

Usage:

```
openstack image member list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--project-domain <project-domain>]
                             <image>
```

Table 40.20. Positional arguments

Value	Summary
<code><image></code>	Image (name or id)

Table 40.21. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 40.22. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 40.23. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 40.24. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 40.25. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

40.6. IMAGE REMOVE PROJECT

Disassociate project with image

Usage:

```
openstack image remove project [-h] [--project-domain <project-domain>]
                               <image> <project>
```

Table 40.26. Positional arguments

Value	Summary
<image>	Image to unshare (name or id)
<project>	Project to disassociate with image (name or id)

Table 40.27. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

40.7. IMAGE SAVE

Save an image locally

Usage:

```
openstack image save [-h] [--file <filename>] <image>
```

Table 40.28. Positional arguments

Value	Summary
<image>	Image to save (name or id)

Table 40.29. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--file <filename>	Downloaded image save filename (default: stdout)

40.8. IMAGE SET

Set image properties

Usage:

```
openstack image set [-h] [--name <name>] [--min-disk <disk-gb>]
                    [--min-ram <ram-mb>]
                    [--container-format <container-format>]
                    [--disk-format <disk-format>]
                    [--protected | --unprotected]
                    [--public | --private | --community | --shared]
                    [--property <key=value>] [--tag <tag>]
                    [--architecture <architecture>]
                    [--instance-id <instance-id>]
                    [--kernel-id <kernel-id>] [--os-distro <os-distro>]
                    [--os-version <os-version>]
                    [--ramdisk-id <ramdisk-id>]
                    [--deactivate | --activate] [--project <project>]
                    [--project-domain <project-domain>]
                    [--accept | --reject | --pending]
                    <image>
```

Table 40.30. Positional arguments

Value	Summary
<image>	Image to modify (name or id)

Table 40.31. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	New image name
--min-disk <disk-gb>	Minimum disk size needed to boot image, in gigabytes
--min-ram <ram-mb>	Minimum ram size needed to boot image, in megabytes
--container-format <container-format>	Image container format. the supported options are: ami, ari, aki, bare, docker, ova, ovf
--disk-format <disk-format>	Image disk format. the supported options are: ami, ari, aki, vhd, vmdk, raw, qcow2, vhdx, vdi, iso, ploop
--protected	Prevent image from being deleted

Value	Summary
--unprotected	Allow image to be deleted (default)
--public	Image is accessible to the public
--private	Image is inaccessible to the public (default)
--community	Image is accessible to the community
--shared	Image can be shared
--property <key=value>	Set a property on this image (repeat option to set multiple properties)
--tag <tag>	Set a tag on this image (repeat option to set multiple tags)
--architecture <architecture>	Operating system architecture
--instance-id <instance-id>	Id of server instance used to create this image
--kernel-id <kernel-id>	Id of kernel image used to boot this disk image
--os-distro <os-distro>	Operating system distribution name
--os-version <os-version>	Operating system distribution version
--ramdisk-id <ramdisk-id>	Id of ramdisk image used to boot this disk image
--deactivate	Deactivate the image
--activate	Activate the image
--project <project>	Set an alternate project on this image (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--accept	Accept the image membership
--reject	Reject the image membership
--pending	Reset the image membership to <i>pending</i>

40.9. IMAGE SHOW

Display image details

Usage:

```
openstack image show [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--human-readable]
                    <image>
```

Table 40.32. Positional arguments

Value	Summary
<image>	Image to display (name or id)

Table 40.33. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--human-readable	Print image size in a human-friendly format.

Table 40.34. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 40.35. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 40.36. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 40.37. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

40.10. IMAGE UNSET

Unset image tags and properties

Usage:

```
openstack image unset [-h] [--tag <tag>] [--property <property-key>]
                    <image>
```

Table 40.38. Positional arguments

Value	Summary
<code><image></code>	Image to modify (name or id)

Table 40.39. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--tag <tag></code>	Unset a tag on this image (repeat option to unset multiple tags)
<code>--property <property-key></code>	Unset a property on this image (repeat option to unset multiple properties)

CHAPTER 41. IMPLIED

This chapter describes the commands under the **implied** command.

41.1. IMPLIED ROLE CREATE

Creates an association between prior and implied roles

Usage:

```
openstack implied role create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent]
                             [--prefix PREFIX] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             --implied-role <role>
                             <role>
```

Table 41.1. Positional arguments

Value	Summary
<role>	Role (name or id) that implies another role

Table 41.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--implied-role <role>	<role> (name or id) implied by another role

Table 41.3. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 41.4. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 41.5. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 41.6. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

41.2. IMPLIED ROLE DELETE

Deletes an association between prior and implied roles

Usage:

```
openstack implied role delete [-h] --implied-role <role> <role>
```

Table 41.7. Positional arguments

Value	Summary
<code><role></code>	Role (name or id) that implies another role

Table 41.8. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--implied-role <role></code>	<code><role></code> (name or id) implied by another role

41.3. IMPLIED ROLE LIST

List implied roles

Usage:

```
openstack implied role list [-h] [-f {csv,json,table,value,yaml}]
```

```

[-c COLUMN]
[--quote {all,minimal,none,nonnumeric}]
[--noindent] [--max-width <integer>]
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]

```

Table 41.9. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 41.10. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 41.11. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 41.12. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 41.13. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 42. IP

This chapter describes the commands under the **ip** command.

42.1. IP AVAILABILITY LIST

List IP availability for network

Usage:

```
openstack ip availability list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--ip-version <ip-version>]
                             [--project <project>]
                             [--project-domain <project-domain>]
```

Table 42.1. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--ip-version <ip-version>	List ip availability of given ip version networks (default is 4)
--project <project>	List ip availability of given project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 42.2. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 42.3. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 42.4. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 42.5. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

42.2. IP AVAILABILITY SHOW

Show network IP availability details

Usage:

```
openstack ip availability show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent]
                             [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             <network>
```

Table 42.6. Positional arguments

Value	Summary
<code><network></code>	Show ip availability for a specific network (name or ID)

Table 42.7. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 42.8. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 42.9. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 42.10. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 42.11. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 43. KEYPAIR

This chapter describes the commands under the **keypair** command.

43.1. KEYPAIR CREATE

Create new public or private key for server ssh access

Usage:

```
openstack keypair create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        [--public-key <file> | --private-key <file>]
                        <name>
```

Table 43.1. Positional arguments

Value	Summary
<name>	New public or private key name

Table 43.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--public-key <file>	Filename for public key to add. if not used, creates a private key.
--private-key <file>	Filename for private key to save. if not used, print private key in console.

Table 43.3. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 43.4. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 43.5. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 43.6. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

43.2. KEYPAIR DELETE

Delete public or private key(s)

Usage:

```
openstack keypair delete [-h] <key> [<key> ...]
```

Table 43.7. Positional arguments

Value	Summary
<key>	Name of key(s) to delete (name only)

Table 43.8. Command arguments

Value	Summary
-h, --help	Show this help message and exit

43.3. KEYPAIR LIST

List key fingerprints

Usage:

```
openstack keypair list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN]
```

Table 43.9. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 43.10. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 43.11. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 43.12. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 43.13. Table formatter options

Value	Summary
-------	---------

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

43.4. KEYPAIR SHOW

Display key details

Usage:

```
openstack keypair show [-h] [-f {json,shell,table,value,yaml}]
                       [-c COLUMN] [--noindent] [--prefix PREFIX]
                       [--max-width <integer>] [--fit-width]
                       [--print-empty] [--public-key]
                       <key>
```

Table 43.14. Positional arguments

Value	Summary
<code><key></code>	Public or private key to display (name only)

Table 43.15. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--public-key</code>	Show only bare public key paired with the generated key

Table 43.16. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table

Value	Summary
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 43.17. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 43.18. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 43.19. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 44. L2GW

This chapter describes the commands under the **l2gw** command.

44.1. L2GW CONNECTION CREATE

Create l2gateway-connection

Usage:

```
openstack l2gw connection create [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                [--default-segmentation-id SEG_ID]
                                <GATEWAY-NAME/UUID>
                                <NETWORK-NAME/UUID>
```

Table 44.1. Positional arguments

Value	Summary
<GATEWAY-NAME/UUID>	Descriptive name for logical gateway.
<NETWORK-NAME/UUID>	Network name or uuid.

Table 44.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--default-segmentation-id SEG_ID	Default segmentation-id that will be applied to the interfaces for which segmentation id was not specified in l2-gateway-create command.

Table 44.3. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 44.4. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 44.5. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 44.6. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

44.2. L2GW CONNECTION DELETE

Delete a given l2gateway-connection

Usage:

```
openstack l2gw connection delete [-h]
                                <L2_GATEWAY_CONNECTIONS>
                                [<L2_GATEWAY_CONNECTIONS> ...]
```

Table 44.7. Positional arguments

Value	Summary
<L2_GATEWAY_CONNECTIONS>	Id(s) of l2_gateway_connections(s) to delete.

Table 44.8. Command arguments

Value	Summary
-h, --help	Show this help message and exit

44.3. L2GW CONNECTION LIST

List l2gateway-connections

Usage:

```
openstack l2gw connection list [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN]
                               [--project <project>]
                               [--project-domain <project-domain>]
```

Table 44.9. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--project <project>	Owner's project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 44.10. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 44.11. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 44.12. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 44.13. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

44.4. L2GW CONNECTION SHOW

Show information of a given l2gateway-connection

Usage:

```
openstack l2gw connection show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty]
                               <L2_GATEWAY_CONNECTION>
```

Table 44.14. Positional arguments

Value	Summary
<L2_GATEWAY_CONNECTION>	Id of l2_gateway_connection to look up.

Table 44.15. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 44.16. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 44.17. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 44.18. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 44.19. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

44.5. L2GW CREATE

Create l2gateway resource

Usage:

```
openstack l2gw create [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--project <project>]
                    [--project-domain <project-domain>]
                    [--device name=name,interface_names=INTERFACE-DETAILS]
                    <GATEWAY-NAME>
```


Table 44.20. Positional arguments

Value	Summary
<GATEWAY-NAME>	Descriptive name for logical gateway.

Table 44.21. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--project <project>	Owner's project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--device name=name,interface_names=INTERFACE-DETAILS	Device name and interface-names of l2gateway. INTERFACE-DETAILS is of form "<interface_name1>[<interface_name2>][<seg_id1>[#<seg_id2>]]" (--device option can be repeated)

Table 44.22. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 44.23. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 44.24. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 44.25. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

44.6. L2GW DELETE

Delete a given l2gateway

Usage:

```
openstack l2gw delete [-h] <L2_GATEWAY> [<L2_GATEWAY> ...]
```

Table 44.26. Positional arguments

Value	Summary
<code><L2_GATEWAY></code>	Id(s) or name(s) of l2_gateway to delete.

Table 44.27. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

44.7. L2GW LIST

List l2gateway that belongs to a given tenant

Usage:

```
openstack l2gw list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>] [--fit-width]
                    [--print-empty] [--sort-column SORT_COLUMN]
                    [--project <project>]
                    [--project-domain <project-domain>]
```

Table 44.28. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--project <project></code>	Owner's project (name or id)
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 44.29. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 44.30. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 44.31. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 44.32. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show.

44.8. L2GW SHOW

Show information of a given l2gateway

Usage:

```
openstack l2gw show [-h] [-f {json,shell,table,value,yaml}] [-c COLUMN]
                    [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty]
                    <L2_GATEWAY>
```

Table 44.33. Positional arguments

Value	Summary
<code><L2_GATEWAY></code>	Id or name of l2_gateway to look up.

Table 44.34. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 44.35. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 44.36. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 44.37. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 44.38. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

44.9. L2GW UPDATE

Update a given l2gateway

Usage:

```
openstack l2gw update [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--name name]
                    [--device name=name,interface_names=INTERFACE-DETAILS]
                    <L2_GATEWAY>
```

Table 44.39. Positional arguments

Value	Summary
<L2_GATEWAY>	Id or name of l2_gateway to update.

Table 44.40. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name name	Descriptive name for logical gateway.

Value	Summary
<code>--device name=name,interface_names=INTERFACE-DETAILS</code>	Device name and interface-names of l2gateway. INTERFACE-DETAILS is of form "<interface_name1> [<interface_name2>][<seg_id1>[#<seg_id2>]]" (--device option can be repeated)

Table 44.41. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 44.42. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 44.43. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 44.44. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 45. LIMIT

This chapter describes the commands under the **limit** command.

45.1. LIMIT CREATE

Create a limit

Usage:

```
openstack limit create [-h] [-f {json,shell,table,value,yaml}]
                       [-c COLUMN] [--noindent] [--prefix PREFIX]
                       [--max-width <integer>] [--fit-width]
                       [--print-empty] [--description <description>]
                       [--region <region>] --project <project>
                       --service <service> --resource-limit
                       <resource-limit>
                       <resource-name>
```

Table 45.1. Positional arguments

Value	Summary
<resource-name>	The name of the resource to limit

Table 45.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Description of the limit
--region <region>	Region for the limit to affect.
--project <project>	Project to associate the resource limit to
--service <service>	Service responsible for the resource to limit
--resource-limit <resource-limit>	The resource limit for the project to assume

Table 45.3. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table

Value	Summary
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 45.4. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 45.5. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 45.6. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

45.2. LIMIT DELETE

Delete a limit

Usage:

```
openstack limit delete [-h] <limit-id> [<limit-id> ...]
```

Table 45.7. Positional arguments

Value	Summary
<limit-id>	Limit to delete (id)

Table 45.8. Command arguments

Value	Summary
-h, --help	Show this help message and exit

45.3. LIMIT LIST

List limits

Usage:

```
openstack limit list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>] [--fit-width]
                    [--print-empty] [--sort-column SORT_COLUMN]
                    [--service <service>]
                    [--resource-name <resource-name>]
                    [--region <region>] [--project <project>]
```

Table 45.9. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--service <service>	Service responsible for the resource to limit
--resource-name <resource-name>	The name of the resource to limit
--region <region>	Region for the registered limit to affect.
--project <project>	List resource limits associated with project

Table 45.10. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 45.11. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 45.12. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 45.13. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

45.4. LIMIT SET

Update information about a limit

Usage:

```
openstack limit set [-h] [-f {json,shell,table,value,yaml}] [-c COLUMN]
                    [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--description <description>]
                    [--resource-limit <resource-limit>]
                    <limit-id>
```

Table 45.14. Positional arguments

Value	Summary
<code><limit-id></code>	Limit to update (id)

Table 45.15. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--description <description></code>	Description of the limit
<code>--resource-limit <resource-limit></code>	The resource limit for the project to assume

Table 45.16. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 45.17. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 45.18. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 45.19. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

45.5. LIMIT SHOW

Display limit details

Usage:

```

openstack limit show [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty]
                    <limit-id>

```

Table 45.20. Positional arguments

Value	Summary
<limit-id>	Limit to display (id)

Table 45.21. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 45.22. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 45.23. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 45.24. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 45.25. Table formatter options

Value	Summary
-------	---------

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 46. LIMITS

This chapter describes the commands under the **limits** command.

46.1. LIMITS SHOW

Show compute and block storage limits

Usage:

```
openstack limits show [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] (--absolute | --rate)
                        [--reserved] [--project <project>]
                        [--domain <domain>]
```

Table 46.1. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--absolute	Show absolute limits
--rate	Show rate limits
--reserved	Include reservations count [only valid with --absolute]
--project <project>	Show limits for a specific project (name or id) [only valid with --absolute]
--domain <domain>	Domain the project belongs to (name or id) [only valid with --absolute]

Table 46.2. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 46.3. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 46.4. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 46.5. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 47. LOADBALANCER

This chapter describes the commands under the **loadbalancer** command.

47.1. LOADBALANCER AMPHORA CONFIGURE

Update the amphora agent configuration

Usage:

```
openstack loadbalancer amphora configure [-h] <amphora-id>
```

Table 47.1. Positional arguments

Value	Summary
<amphora-id>	Uuid of the amphora to configure.

Table 47.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit

47.2. LOADBALANCER AMPHORA FAILOVER

Force failover an amphora

Usage:

```
openstack loadbalancer amphora failover [-h] <amphora-id>
```

Table 47.3. Positional arguments

Value	Summary
<amphora-id>	Uuid of the amphora.

Table 47.4. Command arguments

Value	Summary
-h, --help	Show this help message and exit

47.3. LOADBALANCER AMPHORA LIST

List amphorae

Usage:

```

openstack loadbalancer amphora list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]
                                     [--loadbalancer <loadbalancer>]
                                     [--compute-id <compute-id>]
                                     [--role {BACKUP,MASTER,STANDALONE}]
                                     [--status
{ALLOCATED,BOOTING,DELETED,ERROR,PENDING_CREATE,PENDING_DELETE,READY}]

```

Table 47.5. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--loadbalancer <loadbalancer>	Filter by load balancer (name or id).
--compute-id <compute-id>	Filter by compute id.
--role {BACKUP,MASTER,STANDALONE}	Filter by role.
--status {ALLOCATED,BOOTING,DELETED,ERROR,PENDING_CREATE,PENDING_DELETE,READY}, --provisioning-status {ALLOCATED,BOOTING,DELETED,ERROR,PENDING_CREATE,PENDING_DELETE,READY}	Filter by amphora provisioning status.

Table 47.6. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 47.7. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 47.8. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 47.9. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

47.4. LOADBALANCER AMPHORA SHOW

Show the details of a single amphora

Usage:

```
openstack loadbalancer amphora show [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     <amphora-id>
```

Table 47.10. Positional arguments

Value	Summary
<code><amphora-id></code>	Uuid of the amphora.

Table 47.11. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 47.12. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 47.13. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 47.14. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 47.15. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

47.5. LOADBALANCER CREATE

Create a load balancer

Usage:

```
openstack loadbalancer create [-h] [-f {json,shell,table,value,yaml}]
```

```

[-c COLUMN] [--noindent]
[--prefix PREFIX] [--max-width <integer>]
[--fit-width] [--print-empty]
[--name <name>]
[--description <description>]
[--vip-address <vip_address>]
[--vip-port-id <vip_port_id>]
[--vip-subnet-id <vip_subnet_id>]
[--vip-network-id <vip_network_id>]
[--vip-qos-policy-id <vip_qos_policy_id>]
[--project <project>]
[--provider <provider>]
[--enable | --disable]
[--flavor <flavor>]

```

Table 47.16. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	New load balancer name.
--description <description>	Set load balancer description.
--vip-address <vip_address>	Set the vip ip address.
--vip-qos-policy-id <vip_qos_policy_id>	Set qos policy id for vip port. unset with <i>none</i> .
--project <project>	Project for the load balancer (name or id).
--provider <provider>	Provider name for the load balancer.
--enable	Enable load balancer (default).
--disable	Disable load balancer.
--flavor <flavor>	The name or id of the flavor for the load balancer.

Table 47.17. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 47.18. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 47.19. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 47.20. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

Table 47.21. VIP Network

Value	Summary
At least one of the following arguments is required.--vip-port-id <vip_port_id>	Set port for the load balancer (name or id).
--vip-subnet-id <vip_subnet_id>	Set subnet for the load balancer (name or id).
--vip-network-id <vip_network_id>	Set network for the load balancer (name or id).

47.6. LOADBALANCER DELETE

Delete a load balancer

Usage:

```
openstack loadbalancer delete [-h] [--cascade] <load_balancer>
```

Table 47.22. Positional arguments

Value	Summary
<load_balancer>	Load balancers to delete (name or id)

Table 47.23. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--cascade	Cascade the delete to all child elements of the load balancer.

47.7. LOADBALANCER FAILOVER

Trigger load balancer failover

Usage:

```
openstack loadbalancer failover [-h] <load_balancer>
```

Table 47.24. Positional arguments

Value	Summary
<load_balancer>	Name or uuid of the load balancer.

Table 47.25. Command arguments

Value	Summary
-h, --help	Show this help message and exit

47.8. LOADBALANCER FLAVOR CREATE

Create a octavia flavor

Usage:

```
openstack loadbalancer flavor create [-h]
    [-f {json,shell,table,value,yaml}]
    [-c COLUMN] [--noindent]
    [--prefix PREFIX]
    [--max-width <integer>]
    [--fit-width] [--print-empty]
    --name <name> --flavorprofile
```

```
<flavor_profile>
[--description <description>]
[--enable | --disable]
```

Table 47.26. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	New flavor name.
--flavorprofile <flavor_profile>	Flavor profile to add the flavor to (name or id).
--description <description>	Set flavor description.
--enable	Enable flavor.
--disable	Disable flavor.

Table 47.27. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 47.28. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 47.29. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 47.30. Table formatter options

Value	Summary
-------	---------

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

47.9. LOADBALANCER FLAVOR DELETE

Delete a flavor

Usage:

```
openstack loadbalancer flavor delete [-h] <flavor>
```

Table 47.31. Positional arguments

Value	Summary
<code><flavor></code>	Flavor to delete (name or id)

Table 47.32. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

47.10. LOADBALANCER FLAVOR LIST

List flavor

Usage:

```
openstack loadbalancer flavor list [-h]
                                [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
```



```

[--name <name>]
[--flavorprofile <flavor_profile>]
[--enable | --disable]

```

Table 47.33. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	List flavors according to their name.
--flavorprofile <flavor_profile>	List flavors according to their flavor profile.
--enable	List enabled flavors.
--disable	List disabled flavors.

Table 47.34. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 47.35. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 47.36. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 47.37. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

47.11. LOADBALANCER FLAVOR SET

Update a flavor

Usage:

```
openstack loadbalancer flavor set [-h] [--name <name>]
                                [--enable | --disable]
                                <flavor>
```

Table 47.38. Positional arguments

Value	Summary
<code><flavor></code>	Name or uuid of the flavor to update.

Table 47.39. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--name <name></code>	Set the name of the flavor.
<code>--enable</code>	Enable flavor.
<code>--disable</code>	Disable flavor.

47.12. LOADBALANCER FLAVOR SHOW

Show the details for a single flavor

Usage:

```
openstack loadbalancer flavor show [-h]
```

```

[-f {json,shell,table,value,yaml}]
[-c COLUMN] [--noindent]
[--prefix PREFIX]
[--max-width <integer>]
[--fit-width] [--print-empty]
<flavor>

```

Table 47.40. Positional arguments

Value	Summary
<flavor>	Name or uuid of the flavor.

Table 47.41. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 47.42. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 47.43. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 47.44. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 47.45. Table formatter options

Value	Summary
-------	---------

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

47.13. LOADBALANCER FLAVOR UNSET

Clear health monitor settings

Usage:

```
openstack loadbalancer flavor unset [-h] [--description] <flavor>
```

Table 47.46. Positional arguments

Value	Summary
<code><flavor></code>	Flavor to update (name or id).

Table 47.47. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--description</code>	Clear the flavor description.

47.14. LOADBALANCER FLAVORPROFILE CREATE

Create a octavia flavor profile

Usage:

```
openstack loadbalancer flavorprofile create [-h]
                                           [-f {json,shell,table,value,yaml}]
                                           [-c COLUMN] [--noindent]
                                           [--prefix PREFIX]
                                           [--max-width <integer>]
                                           [--fit-width]
```

```

[--print-empty] --name
<name> --provider <provider
name> --flavor-data
<flavor_data>

```

Table 47.48. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	New octavia flavor profile name.
--provider <provider name>	Provider name for the flavor profile.
--flavor-data <flavor_data>	The json string containing the flavor metadata.

Table 47.49. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 47.50. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 47.51. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 47.52. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

47.15. LOADBALANCER FLAVORPROFILE DELETE

Delete a flavor profile

Usage:

```
openstack loadbalancer flavorprofile delete [-h] <flavor_profile>
```

Table 47.53. Positional arguments

Value	Summary
<code><flavor_profile></code>	Flavor profiles to delete (name or id)

Table 47.54. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

47.16. LOADBALANCER FLAVORPROFILE LIST

List flavor profile

Usage:

```
openstack loadbalancer flavorprofile list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--sort-column SORT_COLUMN]
                                         [--name <name>]
                                         [--provider <provider_name>]
```

Table 47.55. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	List flavor profiles by flavor profile name.
--provider <provider_name>	List flavor profiles according to their provider.

Table 47.56. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 47.57. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 47.58. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 47.59. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

47.17. LOADBALANCER FLAVORPROFILE SET

Update a flavor profile

Usage:

```
openstack loadbalancer flavorprofile set [-h] [--name <name>]
                                         [--provider <provider_name>]
                                         [--flavor-data <flavor_data>]
                                         <flavor_profile>
```

Table 47.60. Positional arguments

Value	Summary
<flavor_profile>	Name or uuid of the flavor profile to update.

Table 47.61. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set the name of the flavor profile.
--provider <provider_name>	Set the provider of the flavor profile.
--flavor-data <flavor_data>	Set the flavor data of the flavor profile.

47.18. LOADBALANCER FLAVORPROFILE SHOW

Show the details for a single flavor profile

Usage:

```
openstack loadbalancer flavorprofile show [-h]
                                           [-f {json,shell,table,value,yaml}]
                                           [-c COLUMN] [--noindent]
                                           [--prefix PREFIX]
                                           [--max-width <integer>]
                                           [--fit-width] [--print-empty]
                                           <flavor_profile>
```

Table 47.62. Positional arguments

Value	Summary
<flavor_profile>	Name or uuid of the flavor profile to show.

Table 47.63. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 47.64. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 47.65. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 47.66. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 47.67. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

47.19. LOADBALANCER HEALTHMONITOR CREATE

Create a health monitor

Usage:

```

openstack loadbalancer healthmonitor create [-h]
                                           [-f {json,shell,table,value,yaml}]
                                           [-c COLUMN] [--noindent]
                                           [--prefix PREFIX]
                                           [--max-width <integer>]
                                           [--fit-width]
                                           [--print-empty]
                                           [--name <name>] --delay
                                           <delay>
                                           [--domain-name <domain_name>]
                                           [--expected-codes <codes>]
                                           [--http-method
{GET,POST,DELETE,PUT,HEAD,OPTIONS,PATCH,CONNECT,TRACE}]
                                           [--http-version <http_version>]
                                           --timeout <timeout>
                                           --max-retries <max_retries>
                                           [--url-path <url_path>]
                                           --type
                                           {PING,HTTP,TCP,HTTPS,TLS-HELLO,UDP-CONNECT}
                                           [--max-retries-down <max_retries_down>]
                                           [--enable | --disable]
                                           <pool>

```

Table 47.68. Positional arguments

Value	Summary
<pool>	Set the pool for the health monitor (name or id).

Table 47.69. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set the health monitor name.
--delay <delay>	Set the time in seconds, between sending probes to members.
--domain-name <domain_name>	Set the domain name, which be injected into the http Host Header to the backend server for HTTP health check.
--expected-codes <codes>	Set the list of http status codes expected in response from the member to declare it healthy.
--http-method {GET,POST,DELETE,PUT,HEAD,OPTIONS,PATCH,CONNECT,TRACE}	Set the http method that the health monitor uses for requests.

Value	Summary
<code>--http-version <http_version></code>	Set the http version.
<code>--timeout <timeout></code>	Set the maximum time, in seconds, that a monitor waits to connect before it times out. This value must be less than the delay value.
<code>--max-retries <max_retries></code>	The number of successful checks before changing the operating status of the member to ONLINE.
<code>--url-path <url_path></code>	Set the http url path of the request sent by the monitor to test the health of a backend member.
<code>--type {PING,HTTP,TCP,HTTPS,TLS-HELLO,UDP-CONNECT}</code>	Set the health monitor type.
<code>--max-retries-down <max_retries_down></code>	Set the number of allowed check failures before changing the operating status of the member to ERROR.
<code>--enable</code>	Enable health monitor (default).
<code>--disable</code>	Disable health monitor.

Table 47.70. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 47.71. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 47.72. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 47.73. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

47.20. LOADBALANCER HEALTHMONITOR DELETE

Delete a health monitor

Usage:

```
openstack loadbalancer healthmonitor delete [-h] <health_monitor>
```

Table 47.74. Positional arguments

Value	Summary
<code><health_monitor></code>	Health monitor to delete (name or id).

Table 47.75. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

47.21. LOADBALANCER HEALTHMONITOR LIST

List health monitors

Usage:

```
openstack loadbalancer healthmonitor list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--sort-column SORT_COLUMN]
```

Table 47.76. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 47.77. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 47.78. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 47.79. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 47.80. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

47.22. LOADBALANCER HEALTHMONITOR SET

Update a health monitor

Usage:

```
openstack loadbalancer healthmonitor set [-h] [--name <name>]
                                         [--delay <delay>]
                                         [--domain-name <domain_name>]
                                         [--expected-codes <codes>]
                                         [--http-method
{GET,POST,DELETE,PUT,HEAD,OPTIONS,PATCH,CONNECT,TRACE}]
                                         [--http-version <http_version>]
                                         [--timeout <timeout>]
                                         [--max-retries <max_retries>]
                                         [--max-retries-down <max_retries_down>]
                                         [--url-path <url_path>]
                                         [--enable | --disable]
                                         <health_monitor>
```

Table 47.81. Positional arguments

Value	Summary
<health_monitor>	Health monitor to update (name or id).

Table 47.82. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set health monitor name.
--delay <delay>	Set the time in seconds, between sending probes to members.
--domain-name <domain_name>	Set the domain name, which be injected into the http Host Header to the backend server for HTTP health check.
--expected-codes <codes>	Set the list of http status codes expected in response from the member to declare it healthy.
--http-method {GET,POST,DELETE,PUT,HEAD,OPTIONS,PATCH,C ONNECT,TRACE}	Set the http method that the health monitor uses for requests.
--http-version <http_version>	Set the http version.

Value	Summary
--timeout <timeout>	Set the maximum time, in seconds, that a monitor waits to connect before it times out. This value must be less than the delay value.
--max-retries <max_retries>	Set the number of successful checks before changing the operating status of the member to ONLINE.
--max-retries-down <max_retries_down>	Set the number of allowed check failures before changing the operating status of the member to ERROR.
--url-path <url_path>	Set the http url path of the request sent by the monitor to test the health of a backend member.
--enable	Enable health monitor.
--disable	Disable health monitor.

47.23. LOADBALANCER HEALTHMONITOR SHOW

Show the details of a single health monitor

Usage:

```
openstack loadbalancer healthmonitor show [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         <health_monitor>
```

Table 47.83. Positional arguments

Value	Summary
<health_monitor>	Name or uuid of the health monitor.

Table 47.84. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 47.85. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 47.86. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 47.87. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 47.88. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

47.24. LOADBALANCER HEALTHMONITOR UNSET

Clear health monitor settings

Usage:

```
openstack loadbalancer healthmonitor unset [-h] [--domain-name]
                                         [--expected-codes]
                                         [--http-method]
                                         [--http-version]
                                         [--max-retries-down]
                                         [--name] [--url-path]
                                         <health_monitor>
```

Table 47.89. Positional arguments

Value	Summary
<health_monitor>	Health monitor to update (name or id).

Table 47.90. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--domain-name	Clear the health monitor domain name.
--expected-codes	Reset the health monitor expected codes to the api default.
--http-method	Reset the health monitor http method to the api default.
--http-version	Reset the health monitor http version to the api default.
--max-retries-down	Reset the health monitor max retries down to the api default.
--name	Clear the health monitor name.
--url-path	Clear the health monitor url path.

47.25. LOADBALANCER L7POLICY CREATE

Create a l7policy

Usage:

```

openstack loadbalancer l7policy create [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--name <name>]
                                     [--description <description>]
                                     --action

{REDIRECT_TO_URL,REDIRECT_TO_POOL,REDIRECT_PREFIX,REJECT}
  [--redirect-pool <pool> | --redirect-url <url> | --redirect-prefix <url>]
  [--redirect-http-code <redirect_http_code>]
  [--position <position>]
  [--enable | --disable]
  <listener>

```

■

Table 47.91. Positional arguments

Value	Summary
<listener>	Listener to add l7policy to (name or id).

Table 47.92. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set the l7policy name.
--description <description>	Set l7policy description.
--action {REDIRECT_TO_URL,REDIRECT_TO_POOL,REDIRECT_PREFIX,REJECT}	Set the action of the policy.
--redirect-pool <pool>	Set the pool to redirect requests to (name or id).
--redirect-url <url>	Set the url to redirect requests to.
--redirect-prefix <url>	Set the url prefix to redirect requests to.
--redirect-http-code <redirect_http_code>	Set the http response code for redirect_url or REDIRECT_PREFIX action.
--position <position>	Sequence number of this l7 policy.
--enable	Enable l7policy (default).
--disable	Disable l7policy.

Table 47.93. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 47.94. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 47.95. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 47.96. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

47.26. LOADBALANCER L7POLICY DELETE

Delete a l7policy

Usage:

```
openstack loadbalancer l7policy delete [-h] <policy>
```

Table 47.97. Positional arguments

Value	Summary
<policy>	L7policy to delete (name or id).

Table 47.98. Command arguments

Value	Summary
-h, --help	Show this help message and exit

47.27. LOADBALANCER L7POLICY LIST

List l7policies

Usage:

```
openstack loadbalancer l7policy list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]
```

Table 47.99. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 47.100. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 47.101. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 47.102. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 47.103. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

47.28. LOADBALANCER L7POLICY SET

Update a l7policy

Usage:

```
openstack loadbalancer l7policy set [-h] [--name <name>]
                                     [--description <description>]
                                     [--action
                                     {REDIRECT_TO_URL,REDIRECT_TO_POOL,REDIRECT_PREFIX,REJECT}]
                                     [--redirect-pool <pool> | --redirect-url <url> | --redirect-prefix <url>]
                                     [--redirect-http-code <redirect_http_code>]
                                     [--position <position>]
                                     [--enable | --disable]
                                     <policy>
```

Table 47.104. Positional arguments

Value	Summary
<code><policy></code>	L7policy to update (name or id).

Table 47.105. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--name <name></code>	Set l7policy name.
<code>--description <description></code>	Set l7policy description.
<code>--action</code> {REDIRECT_TO_URL,REDIRECT_TO_POOL,REDIRECT_PREFIX,REJECT}	Set the action of the policy.

Value	Summary
--redirect-pool <pool>	Set the pool to redirect requests to (name or id).
--redirect-url <url>	Set the url to redirect requests to.
--redirect-prefix <url>	Set the url prefix to redirect requests to.
--redirect-http-code <redirect_http_code>	Set the http response code for redirect_url or REDIRECT_PREFIX action.
--position <position>	Set sequence number of this l7 policy.
--enable	Enable l7policy.
--disable	Disable l7policy.

47.29. LOADBALANCER L7POLICY SHOW

Show the details of a single l7policy

Usage:

```

openstack loadbalancer l7policy show [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     <policy>

```

Table 47.106. Positional arguments

Value	Summary
<policy>	Name or uuid of the l7policy.

Table 47.107. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 47.108. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 47.109. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 47.110. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 47.111. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

47.30. LOADBALANCER L7POLICY UNSET

Clear l7policy settings

Usage:

```
openstack loadbalancer l7policy unset [-h] [--description] [--name]
                                     [--redirect-http-code]
                                     <policy>
```

Table 47.112. Positional arguments

Value	Summary
<policy>	L7policy to update (name or id).

Table 47.113. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--description	Clear the l7policy description.
--name	Clear the l7policy name.
--redirect-http-code	Clear the l7policy redirect http code.

47.31. LOADBALANCER L7RULE CREATE

Create a l7rule

Usage:

```

openstack loadbalancer l7rule create [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     --compare-type
                                     {REGEX,EQUAL_TO,CONTAINS,ENDS_WITH,STARTS_WITH}
                                     [--invert] --value <value>
                                     [--key <key>] --type
                                     {FILE_TYPE,PATH,COOKIE,HOST_NAME,HEADER,SSL_CONN_HAS_CERT,SSL_VERIFY_RESULT,SSL_DN_FIELD}
                                     [--enable | --disable]
                                     <l7policy>

```

Table 47.114. Positional arguments

Value	Summary
<l7policy>	L7policy to add l7rule to (name or id).

Table 47.115. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--compare-type {REGEX,EQUAL_TO,CONTAINS,ENDS_WITH,START S_WITH}	Set the compare type for the l7rule.
--invert	Invert l7rule.
--value <value>	Set the rule value to match on.
--key <key>	Set the key for the l7rule's value to match on.
--type {FILE_TYPE,PATH,COOKIE,HOST_NAME,HEADER,S SL_CONN_HAS_CERT,SSL_VERIFY_RESULT,SSL_D N_FIELD}	Set the type for the l7rule.
--enable	Enable l7rule (default).
--disable	Disable l7rule.

Table 47.116. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 47.117. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 47.118. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 47.119. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

47.32. LOADBALANCER L7RULE DELETE

Delete a l7rule

Usage:

```
openstack loadbalancer l7rule delete [-h] <l7policy> <rule_id>
```

Table 47.120. Positional arguments

Value	Summary
<code><l7policy></code>	L7policy to delete rule from (name or id).
<code><rule_id></code>	L7rule to delete.

Table 47.121. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

47.33. LOADBALANCER L7RULE LIST

List l7rules for l7policy

Usage:

```
openstack loadbalancer l7rule list [-h]
    [-f {csv,json,table,value,yaml}]
    [-c COLUMN]
    [--quote {all,minimal,none,nonnumeric}]
    [--noindent] [--max-width <integer>]
    [--fit-width] [--print-empty]
    [--sort-column SORT_COLUMN]
    <l7policy>
```

Table 47.122. Positional arguments

Value	Summary
<l7policy>	L7policy to list rules for (name or id).

Table 47.123. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 47.124. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 47.125. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 47.126. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 47.127. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

47.34. LOADBALANCER L7RULE SET

Update a l7rule

Usage:

```

openstack loadbalancer l7rule set [-h]
                                [--compare-type
                                {REGEX,EQUAL_TO,CONTAINS,ENDS_WITH,STARTS_WITH}]
                                [--invert] [--value <value>]
                                [--key <key>]
                                [--type
                                {FILE_TYPE,PATH,COOKIE,HOST_NAME,HEADER,SSL_CONN_HAS_CERT,SSL_VERIFY_RESULT,SSL_DN_FIELD}]
                                [--enable | --disable]
                                <l7policy> <l7rule_id>

```

Table 47.128. Positional arguments

Value	Summary
<l7policy>	L7policy to update l7rule on (name or id).
<l7rule_id>	L7rule to update.

Table 47.129. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--compare-type {REGEX,EQUAL_TO,CONTAINS,ENDS_WITH,STARTS_WITH}	Set the compare type for the l7rule.
--invert	Invert l7rule.
--value <value>	Set the rule value to match on.

Value	Summary
--key <key>	Set the key for the l7rule's value to match on.
--type {FILE_TYPE,PATH,COOKIE,HOST_NAME,HEADER,SSL_CONN_HAS_CERT,SSL_VERIFY_RESULT,SSL_DN_FIELD}	Set the type for the l7rule.
--enable	Enable l7rule.
--disable	Disable l7rule.

47.35. LOADBALANCER L7RULE SHOW

Show the details of a single l7rule

Usage:

```
openstack loadbalancer l7rule show [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                <l7policy> <l7rule_id>
```

Table 47.130. Positional arguments

Value	Summary
<l7policy>	L7policy to show rule from (name or id).
<l7rule_id>	L7rule to show.

Table 47.131. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 47.132. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table

Value	Summary
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 47.133. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 47.134. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 47.135. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

47.36. LOADBALANCER L7RULE UNSET

Clear l7rule settings

Usage:

```
openstack loadbalancer l7rule unset [-h] [--invert] [--key]
    <l7policy> <l7rule_id>
```

Table 47.136. Positional arguments

Value	Summary
<l7policy>	L7policy to update (name or id).
<l7rule_id>	L7rule to update.

Table 47.137. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--invert	Reset the l7rule invert to the api default.
--key	Clear the l7rule key.

47.37. LOADBALANCER LIST

List load balancers

Usage:

```

openstack loadbalancer list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN] [--name <name>]
                             [--enable | --disable]
                             [--project <project-id>]
                             [--vip-network-id <vip_network_id>]
                             [--vip-subnet-id <vip_subnet_id>]
                             [--vip-qos-policy-id <vip_qos_policy_id>]
                             [--vip-port-id <vip_port_id>]
                             [--provisioning-status
{ACTIVE,DELETED,ERROR,PENDING_CREATE,PENDING_UPDATE,PENDING_DELETE}]
                             [--operating-status
{ONLINE,DRAINING,OFFLINE,DEGRADED,ERROR,NO_MONITOR}]
                             [--provider <provider>] [--flavor <flavor>]

```

Table 47.138. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	List load balancers according to their name.
--enable	List enabled load balancers.
--disable	List disabled load balancers.
--project <project-id>	List load balancers according to their project (name or ID).

Value	Summary
--vip-network-id <vip_network_id>	List load balancers according to their vip network (name or ID).
--vip-subnet-id <vip_subnet_id>	List load balancers according to their vip subnet (name or ID).
--vip-qos-policy-id <vip_qos_policy_id>	List load balancers according to their vip qos policy (name or ID).
--vip-port-id <vip_port_id>	List load balancers according to their vip port (name or ID).
--provisioning-status {ACTIVE,DELETED,ERROR,PENDING_CREATE,PENDING_UPDATE,PENDING_DELETE}	List load balancers according to their provisioning status.
--operating-status {ONLINE,DRAINING,OFFLINE,DEGRADED,ERROR,N O_MONITOR}	List load balancers according to their operating status.
--provider <provider>	List load balancers according to their provider.
--flavor <flavor>	List load balancers according to their flavor.

Table 47.139. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 47.140. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 47.141. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 47.142. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

47.38. LOADBALANCER LISTENER CREATE

Create a listener

Usage:

```

openstack loadbalancer listener create [-h]
    [-f {json,shell,table,value,yaml}]
    [-c COLUMN] [--noindent]
    [--prefix PREFIX]
    [--max-width <integer>]
    [--fit-width] [--print-empty]
    [--name <name>]
    [--description <description>]
    --protocol
    {TCP,HTTP,HTTPS,TERMINATED_HTTPS,UDP}
    [--connection-limit <limit>]
    [--default-pool <pool>]
    [--default-tls-container-ref <container_ref>]
    [--sni-container-refs [<container_ref> [<container_ref> ...]]]
    [--insert-headers <header=value,...>]
    --protocol-port <port>
    [--timeout-client-data <timeout>]
    [--timeout-member-connect <timeout>]
    [--timeout-member-data <timeout>]
    [--timeout-tcp-inspect <timeout>]
    [--enable | --disable]
    [--client-ca-tls-container-ref <container_ref>]
    [--client-authentication {NONE,OPTIONAL,MANDATORY}]
    [--client-crl-container-ref <client_crl_container_ref>]
    [--allowed-cidr [<allowed_cidr>]]
    <loadbalancer>

```

Table 47.143. Positional arguments

Value	Summary
<loadbalancer>	Load balancer for the listener (name or id).

Table 47.144. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set the listener name.
--description <description>	Set the description of this listener.
--protocol {TCP,HTTP,HTTPS,TERMINATED_HTTPS,UDP}	The protocol for the listener.
--connection-limit <limit>	Set the maximum number of connections permitted for this listener.
--default-pool <pool>	Set the name or id of the pool used by the listener if no L7 policies match.
--default-tls-container-ref <container_ref>	The uri to the key manager service secrets container containing the certificate and key for TERMINATED_TLS listeners.
--sni-container-refs [<container_ref> [<container_ref> ...]]	A list of uris to the key manager service secrets containers containing the certificates and keys for TERMINATED_TLS the listener using Server Name Indication.
--insert-headers <header=value,...>	A dictionary of optional headers to insert into the request before it is sent to the backend member.
--protocol-port <port>	Set the protocol port number for the listener.
--timeout-client-data <timeout>	Frontend client inactivity timeout in milliseconds. Default: 50000.
--timeout-member-connect <timeout>	Backend member connection timeout in milliseconds. Default: 5000.
--timeout-member-data <timeout>	Backend member inactivity timeout in milliseconds. Default: 50000.

Value	Summary
<code>--timeout-tcp-inspect <timeout></code>	Time, in milliseconds, to wait for additional tcp packets for content inspection. Default: 0.
<code>--enable</code>	Enable listener (default).
<code>--disable</code>	Disable listener.
<code>--client-ca-tls-container-ref <container_ref></code>	The uri to the key manager service secrets container containing the CA certificate for TERMINATED_TLS listeners.
<code>--client-authentication {NONE,OPTIONAL,MANDATORY}</code>	The tls client authentication verify options for TERMINATED_TLS listeners.
<code>--client-crl-container-ref <client_crl_container_ref></code>	The uri to the key manager service secrets container containing the CA revocation list file for TERMINATED_TLS listeners.
<code>--allowed-cidr [<allowed_cidr>]</code>	Cidr to allow access to the listener (can be set multiple times).

Table 47.145. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 47.146. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 47.147. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 47.148. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

47.39. LOADBALANCER LISTENER DELETE

Delete a listener

Usage:

```
openstack loadbalancer listener delete [-h] <listener>
```

Table 47.149. Positional arguments

Value	Summary
<code><listener></code>	Listener to delete (name or id)

Table 47.150. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

47.40. LOADBALANCER LISTENER LIST

List listeners

Usage:

```
openstack loadbalancer listener list [-h]
    [-f {csv,json,table,value,yaml}]
    [-c COLUMN]
    [--quote {all,minimal,none,nonnumeric}]
    [--noindent]
    [--max-width <integer>]
    [--fit-width] [--print-empty]
    [--sort-column SORT_COLUMN]
    [--name <name>]
```

```

[--loadbalancer <loadbalancer>]
[--enable | --disable]
[--project <project>]

```

Table 47.151. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--name <name></code>	List listeners by listener name.
<code>--loadbalancer <loadbalancer></code>	Filter by load balancer (name or id).
<code>--enable</code>	List enabled listeners.
<code>--disable</code>	List disabled listeners.
<code>--project <project></code>	List listeners by project id.

Table 47.152. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 47.153. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 47.154. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 47.155. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

47.41. LOADBALANCER LISTENER SET

Update a listener

Usage:

```

openstack loadbalancer listener set [-h] [--name <name>]
    [--description <description>]
    [--connection-limit <limit>]
    [--default-pool <pool>]
    [--default-tls-container-ref <container-ref>]
    [--sni-container-refs [<container-ref> [<container-ref> ...]]]
    [--insert-headers <header=value>]
    [--timeout-client-data <timeout>]
    [--timeout-member-connect <timeout>]
    [--timeout-member-data <timeout>]
    [--timeout-tcp-inspect <timeout>]
    [--enable | --disable]
    [--client-ca-tls-container-ref <container_ref>]
    [--client-authentication {NONE,OPTIONAL,MANDATORY}]
    [--client-crl-container-ref <client_crl_container_ref>]
    [--allowed-cidr [<allowed_cidr>]]
    <listener>

```

Table 47.156. Positional arguments

Value	Summary
<code><listener></code>	Listener to modify (name or id).

Table 47.157. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--name <name></code>	Set the listener name.

Value	Summary
--description <description>	Set the description of this listener.
--connection-limit <limit>	The maximum number of connections permitted for this listener. Default value is -1 which represents infinite connections.
--default-pool <pool>	The id of the pool used by the listener if no I7 policies match.
--default-tls-container-ref <container-ref>	The uri to the key manager service secrets container containing the certificate and key for TERMINATED_TLS listeners.
--sni-container-refs [<container-ref> [<container-ref> ...]]	A list of uris to the key manager service secrets containers containing the certificates and keys for TERMINATED_TLS the listener using Server Name Indication.
--insert-headers <header=value>	A dictionary of optional headers to insert into the request before it is sent to the backend member.
--timeout-client-data <timeout>	Frontend client inactivity timeout in milliseconds. Default: 50000.
--timeout-member-connect <timeout>	Backend member connection timeout in milliseconds. Default: 5000.
--timeout-member-data <timeout>	Backend member inactivity timeout in milliseconds. Default: 50000.
--timeout-tcp-inspect <timeout>	Time, in milliseconds, to wait for additional tcp packets for content inspection. Default: 0.
--enable	Enable listener.
--disable	Disable listener.
--client-ca-tls-container-ref <container_ref>	The uri to the key manager service secrets container containing the CA certificate for TERMINATED_TLS listeners.
--client-authentication {NONE,OPTIONAL,MANDATORY}	The tls client authentication verify options for TERMINATED_TLS listeners.
--client-crl-container-ref <client_crl_container_ref>	The uri to the key manager service secrets container containing the CA revocation list file for TERMINATED_TLS listeners.

Value	Summary
<code>--allowed-cidr [<allowed_cidr>]</code>	Cidr to allow access to the listener (can be set multiple times).

47.42. LOADBALANCER LISTENER SHOW

Show the details of a single listener

Usage:

```

openstack loadbalancer listener show [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     <listener>

```

Table 47.158. Positional arguments

Value	Summary
<code><listener></code>	Name or uuid of the listener

Table 47.159. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 47.160. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 47.161. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 47.162. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 47.163. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

47.43. LOADBALANCER LISTENER STATS SHOW

Shows the current statistics for a listener.

Usage:

```

openstack loadbalancer listener stats show [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width]
                                         [--print-empty]
                                         <listener>

```

Table 47.164. Positional arguments

Value	Summary
<listener>	Name or uuid of the listener

Table 47.165. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 47.166. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 47.167. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 47.168. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 47.169. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

47.44. LOADBALANCER LISTENER UNSET

Clear listener settings

Usage:

```
openstack loadbalancer listener unset [-h] [--name] [--description]
                                     [--connection-limit]
                                     [--default-pool]
                                     [--default-tls-container-ref]
                                     [--sni-container-refs]
                                     [--insert-headers]
                                     [--timeout-client-data]
                                     [--timeout-member-connect]
                                     [--timeout-member-data]
```

```

[--timeout-tcp-inspect]
[--client-ca-tls-container-ref]
[--client-authentication]
[--client-crl-container-ref]
[--allowed-cidrs]
<listener>

```

Table 47.170. Positional arguments

Value	Summary
<listener>	Listener to modify (name or id).

Table 47.171. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name	Clear the listener name.
--description	Clear the description of this listener.
--connection-limit	Reset the connection limit to the api default.
--default-pool	Clear the default pool from the listener.
--default-tls-container-ref	Remove the default tls container reference from the listener.
--sni-container-refs	Remove the tls sni container references from the listener.
--insert-headers	Clear the insert headers from the listener.
--timeout-client-data	Reset the client data timeout to the api default.
--timeout-member-connect	Reset the member connect timeout to the api default.
--timeout-member-data	Reset the member data timeout to the api default.
--timeout-tcp-inspect	Reset the tcp inspection timeout to the api default.
--client-ca-tls-container-ref	Clear the client ca tls container reference from the listener.
--client-authentication	Reset the client authentication setting to the api default.

Value	Summary
--client-crl-container-ref	Clear the client crl container reference from the listener.
--allowed-cidrs	Clear all allowed cidrs from the listener.

47.45. LOADBALANCER MEMBER CREATE

Creating a member in a pool

Usage:

```

openstack loadbalancer member create [-h]
    [-f {json,shell,table,value,yaml}]
    [-c COLUMN] [--noindent]
    [--prefix PREFIX]
    [--max-width <integer>]
    [--fit-width] [--print-empty]
    [--name <name>]
    [--disable-backup | --enable-backup]
    [--weight <weight>] --address
    <ip_address>
    [--subnet-id <subnet_id>]
    --protocol-port <protocol_port>
    [--monitor-port <monitor_port>]
    [--monitor-address <monitor_address>]
    [--enable | --disable]
    <pool>

```

Table 47.172. Positional arguments

Value	Summary
<pool>	Id or name of the pool to create the member for.

Table 47.173. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Name of the member.
--disable-backup	Disable member backup (default)
--enable-backup	Enable member backup

Value	Summary
--weight <weight>	The weight of a member determines the portion of requests or connections it services compared to the other members of the pool.
--address <ip_address>	The ip address of the backend member server
--subnet-id <subnet_id>	The subnet id the member service is accessible from.
--protocol-port <protocol_port>	The protocol port number the backend member server is listening on.
--monitor-port <monitor_port>	An alternate protocol port used for health monitoring a backend member.
--monitor-address <monitor_address>	An alternate ip address used for health monitoring a backend member.
--enable	Enable member (default)
--disable	Disable member

Table 47.174. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 47.175. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 47.176. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 47.177. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

47.46. LOADBALANCER MEMBER DELETE

Delete a member from a pool

Usage:

```
openstack loadbalancer member delete [-h] <pool> <member>
```

Table 47.178. Positional arguments

Value	Summary
<code><pool></code>	Pool name or id to delete the member from.
<code><member></code>	Name or id of the member to be deleted.

Table 47.179. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

47.47. LOADBALANCER MEMBER LIST

List members in a pool

Usage:

```
openstack loadbalancer member list [-h]
    [-f {csv,json,table,value,yaml}]
    [-c COLUMN]
    [--quote {all,minimal,none,nonnumeric}]
    [--noindent] [--max-width <integer>]
    [--fit-width] [--print-empty]
    [--sort-column SORT_COLUMN]
    <pool>
```

Table 47.180. Positional arguments

Value	Summary
<pool>	Pool name or id to list the members of.

Table 47.181. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 47.182. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 47.183. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 47.184. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 47.185. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

47.48. LOADBALANCER MEMBER SET

Update a member

Usage:

```
openstack loadbalancer member set [-h] [--name <name>]
                                [--disable-backup | --enable-backup]
                                [--weight <weight>]
                                [--monitor-port <monitor_port>]
                                [--monitor-address <monitor_address>]
                                [--enable | --disable]
                                <pool> <member>
```

Table 47.186. Positional arguments

Value	Summary
<pool>	Pool that the member to update belongs to (name or ID).
<member>	Name or id of the member to update

Table 47.187. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set the name of the member
--disable-backup	Disable member backup (default)
--enable-backup	Enable member backup
--weight <weight>	Set the weight of member in the pool

Value	Summary
<code>--monitor-port <monitor_port></code>	An alternate protocol port used for health monitoring a backend member
<code>--monitor-address <monitor_address></code>	An alternate ip address used for health monitoring a backend member.
<code>--enable</code>	Set the <code>admin_state_up</code> to true
<code>--disable</code>	Set the <code>admin_state_up</code> to false

47.49. LOADBALANCER MEMBER SHOW

Shows details of a single Member

Usage:

```
openstack loadbalancer member show [-h]
                                   [-f {json,shell,table,value,yaml}]
                                   [-c COLUMN] [--noindent]
                                   [--prefix PREFIX]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   <pool> <member>
```

Table 47.188. Positional arguments

Value	Summary
<code><pool></code>	Pool name or id to show the members of.
<code><member></code>	Name or id of the member to show.

Table 47.189. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 47.190. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table

Value	Summary
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 47.191. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 47.192. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 47.193. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

47.50. LOADBALANCER MEMBER UNSET

Clear member settings

Usage:

```
openstack loadbalancer member unset [-h] [--backup] [--monitor-address]
                                     [--monitor-port] [--name]
                                     [--weight]
                                     <pool> <member>
```

Table 47.194. Positional arguments

Value	Summary
<pool>	Pool that the member to update belongs to (name or id).

Value	Summary
<member>	Member to modify (name or id).

Table 47.195. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--backup	Clear the backup member flag.
--monitor-address	Clear the member monitor address.
--monitor-port	Clear the member monitor port.
--name	Clear the member name.
--weight	Reset the member weight to the api default.

47.51. LOADBALANCER POOL CREATE

Create a pool

Usage:

```

openstack loadbalancer pool create [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--name <name>]
                                [--description <description>]
                                --protocol
                                {TCP,HTTP,HTTPS,TERMINATED_HTTPS,PROXY,UDP}
                                (--listener <listener> | --loadbalancer <load_balancer>)
                                [--session-persistence <session persistence>]
                                --lb-algorithm

{SOURCE_IP,ROUND_ROBIN,LEAST_CONNECTIONS,SOURCE_IP_PORT}
                                [--enable | --disable]
                                [--tls-container-ref <container-ref>]
                                [--ca-tls-container-ref <ca_tls_container_ref>]
                                [--crl-container-ref <crl_container_ref>]
                                [--enable-tls | --disable-tls]

```

Table 47.196. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set pool name.
--description <description>	Set pool description.
--protocol {TCP,HTTP,HTTPS,TERMINATED_HTTPS,PROXY,UDP}	Set the pool protocol.
--listener <listener>	Listener to add the pool to (name or id).
--loadbalancer <load_balancer>	Load balancer to add the pool to (name or id)
--session-persistence <session persistence>	Set the session persistence for the listener (key=value).
--lb-algorithm {SOURCE_IP,ROUND_ROBIN,LEAST_CONNECTIONS,SOURCE_IP_PORT}	Load balancing algorithm to use.
--enable	Enable pool (default).
--disable	Disable pool.
--tls-container-ref <container-ref>	The reference to the key manager service secrets container containing the certificate and key for ``tls_enabled`` pools to re-encrypt the traffic to backend member servers.
--ca-tls-container-ref <ca_tls_container_ref>	The reference to the key manager service secrets container containing the CA certificate for ``tls_enabled`` pools to check the backend member servers certificates
--crl-container-ref <crl_container_ref>	The reference to the key manager service secrets container containing the CA revocation list file for ``tls_enabled`` pools to validate the backend member servers certificates.
--enable-tls	Enable backend member re-encryption.
--disable-tls	Disable backend member re-encryption.

Table 47.197. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 47.198. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 47.199. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 47.200. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

47.52. LOADBALANCER POOL DELETE

Delete a pool

Usage:

```
openstack loadbalancer pool delete [-h] <pool>
```

Table 47.201. Positional arguments

Value	Summary
<code><pool></code>	Pool to delete (name or id).

Table 47.202. Command arguments

Value	Summary
-h, --help	Show this help message and exit

47.53. LOADBALANCER POOL LIST

List pools

Usage:

```
openstack loadbalancer pool list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--loadbalancer <loadbalancer>]
```

Table 47.203. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--loadbalancer <loadbalancer>	Filter by load balancer (name or id).

Table 47.204. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 47.205. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 47.206. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 47.207. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

47.54. LOADBALANCER POOL SET

Update a pool

Usage:

```

openstack loadbalancer pool set [-h] [--name <name>]
                               [--description <description>]
                               [--session-persistence <session_persistence>]
                               [--lb-algorithm
{SOURCE_IP,ROUND_ROBIN,LEAST_CONNECTIONS,SOURCE_IP_PORT}]
                               [--enable | --disable]
                               [--tls-container-ref <container-ref>]
                               [--ca-tls-container-ref <ca_tls_container_ref>]
                               [--crl-container-ref <crl_container_ref>]
                               [--enable-tls | --disable-tls]
                               <pool>

```

Table 47.208. Positional arguments

Value	Summary
<pool>	Pool to update (name or id).

Table 47.209. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Value	Summary
<code>--name <name></code>	Set the name of the pool.
<code>--description <description></code>	Set the description of the pool.
<code>--session-persistence <session_persistence></code>	Set the session persistence for the listener (key=value).
<code>--lb-algorithm</code> {SOURCE_IP,ROUND_ROBIN,LEAST_CONNECTIONS,SOURCE_IP_PORT}	Set the load balancing algorithm to use.
<code>--enable</code>	Enable pool.
<code>--disable</code>	Disable pool.
<code>--tls-container-ref <container-ref></code>	The uri to the key manager service secrets container containing the certificate and key for TERMINATED_TLS pools to re-encrypt the traffic from TERMINATED_TLS listener to backend servers.
<code>--ca-tls-container-ref <ca_tls_container_ref></code>	The uri to the key manager service secrets container containing the CA certificate for TERMINATED_TLS listeners to check the backend servers certificates in ssl traffic.
<code>--crl-container-ref <crl_container_ref></code>	The uri to the key manager service secrets container containing the CA revocation list file for TERMINATED_TLS listeners to validate the backend servers certificates in ssl traffic.
<code>--enable-tls</code>	Enable backend associated members re-encryption.
<code>--disable-tls</code>	Disable backend associated members re-encryption.

47.55. LOADBALANCER POOL SHOW

Show the details of a single pool

Usage:

```

openstack loadbalancer pool show [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <pool>

```


Table 47.210. Positional arguments

Value	Summary
<pool>	Name or uuid of the pool.

Table 47.211. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 47.212. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 47.213. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 47.214. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 47.215. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

47.56. LOADBALANCER POOL UNSET

Clear pool settings

Usage:

```
openstack loadbalancer pool unset [-h] [--name] [--description]
                                [--ca-tls-container-ref]
                                [--crl-container-ref]
                                [--session-persistence]
                                [--tls-container-ref]
                                <pool>
```

Table 47.216. Positional arguments

Value	Summary
<pool>	Pool to modify (name or id).

Table 47.217. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name	Clear the pool name.
--description	Clear the description of this pool.
--ca-tls-container-ref	Clear the certificate authority certificate reference on this pool.
--crl-container-ref	Clear the certificate revocation list reference on this pool.
--session-persistence	Disables session persistence on the pool.
--tls-container-ref	Clear the certificate reference for this pool.

47.57. LOADBALANCER PROVIDER CAPABILITY LIST

List specified provider driver's flavor capabilities.

Usage:

```
openstack loadbalancer provider capability list [-h]
                                                [-f {csv,json,table,value,yaml}]
                                                [-c COLUMN]
                                                [--quote {all,minimal,none,nonnumeric}]
                                                [--noindent]
```

```

[--max-width <integer>]
[--fit-width]
[--print-empty]
[--sort-column SORT_COLUMN]
<provider_name>

```

Table 47.218. Positional arguments

Value	Summary
<provider_name>	Name of the provider driver.

Table 47.219. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 47.220. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 47.221. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 47.222. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 47.223. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

47.58. LOADBALANCER PROVIDER LIST

List all providers

Usage:

```
openstack loadbalancer provider list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]
```

Table 47.224. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 47.225. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 47.226. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 47.227. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 47.228. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

47.59. LOADBALANCER QUOTA DEFAULTS SHOW

Show quota defaults

Usage:

```
openstack loadbalancer quota defaults show [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width]
                                         [--print-empty]
```

Table 47.229. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 47.230. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 47.231. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 47.232. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 47.233. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

47.60. LOADBALANCER QUOTA LIST

List quotas

Usage:

```
openstack loadbalancer quota list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--project <project-id>]
```

Table 47.234. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--project <project-id>	Name or uuid of the project.

Table 47.235. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 47.236. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 47.237. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 47.238. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

47.61. LOADBALANCER QUOTA RESET

Resets quotas to default quotas

Usage:

```
openstack loadbalancer quota reset [-h] <project>
```

Table 47.239. Positional arguments

Value	Summary
<project>	Project to reset quotas (name or id)

Table 47.240. Command arguments

Value	Summary
-h, --help	Show this help message and exit

47.62. LOADBALANCER QUOTA SET

Update a quota

Usage:

```
openstack loadbalancer quota set [-h]
    [-f {json,shell,table,value,yaml}]
    [-c COLUMN] [--noindent]
    [--prefix PREFIX]
    [--max-width <integer>] [--fit-width]
    [--print-empty]
    [--healthmonitor <health_monitor>]
    [--listener <listener>]
    [--loadbalancer <load_balancer>]
    [--member <member>] [--pool <pool>]
    <project>
```

Table 47.241. Positional arguments

Value	Summary
<project>	Name or uuid of the project.

Table 47.242. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 47.243. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 47.244. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 47.245. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 47.246. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

Table 47.247. Quota limits

Value	Summary
At least one of the following arguments is required.--healthmonitor <health_monitor>	New value for the health monitor quota. value -1 means unlimited.
<code>--listener <listener></code>	New value for the listener quota. value -1 means unlimited.
<code>--loadbalancer <load_balancer></code>	New value for the load balancer quota limit. value -1 means unlimited.

Value	Summary
--member <member>	New value for the member quota limit. value -1 means unlimited.
--pool <pool>	New value for the pool quota limit. value -1 means unlimited.

47.63. LOADBALANCER QUOTA SHOW

Show the quota details for a project

Usage:

```

openstack loadbalancer quota show [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <project>

```

Table 47.248. Positional arguments

Value	Summary
<project>	Name or uuid of the project.

Table 47.249. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 47.250. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 47.251. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 47.252. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 47.253. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

47.64. LOADBALANCER QUOTA UNSET

Clear quota settings

Usage:

```
openstack loadbalancer quota unset [-h] [--loadbalancer] [--listener]
                                [--pool] [--member]
                                [--healthmonitor]
                                <project>
```

Table 47.254. Positional arguments

Value	Summary
<project>	Name or uuid of the project.

Table 47.255. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Value	Summary
--loadbalancer	Reset the load balancer quota to the default.
--listener	Reset the listener quota to the default.
--pool	Reset the pool quota to the default.
--member	Reset the member quota to the default.
--healthmonitor	Reset the health monitor quota to the default.

47.65. LOADBALANCER SET

Update a load balancer

Usage:

```
openstack loadbalancer set [-h] [--name <name>]
                          [--description <description>]
                          [--vip-qos-policy-id <vip_qos_policy_id>]
                          [--enable | --disable]
                          <load_balancer>
```

Table 47.256. Positional arguments

Value	Summary
<load_balancer>	Name or uuid of the load balancer to update.

Table 47.257. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set load balancer name.
--description <description>	Set load balancer description.
--vip-qos-policy-id <vip_qos_policy_id>	Set qos policy id for vip port. unset with <i>none</i> .
--enable	Enable load balancer.
--disable	Disable load balancer.

47.66. LOADBALANCER SHOW

Show the details for a single load balancer

Usage:

```
openstack loadbalancer show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             <load_balancer>
```

Table 47.258. Positional arguments

Value	Summary
<load_balancer>	Name or uuid of the load balancer.

Table 47.259. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 47.260. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 47.261. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 47.262. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 47.263. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

47.67. LOADBALANCER STATS SHOW

Shows the current statistics for a load balancer

Usage:

```

openstack loadbalancer stats show [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <load_balancer>

```

Table 47.264. Positional arguments

Value	Summary
<code><load_balancer></code>	Name or uuid of the load balancer.

Table 47.265. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 47.266. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 47.267. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 47.268. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 47.269. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

47.68. LOADBALANCER STATUS SHOW

Display load balancer status tree in json format

Usage:

```
openstack loadbalancer status show [-h] <load_balancer>
```

Table 47.270. Positional arguments

Value	Summary
<load_balancer>	Name or uuid of the load balancer.

Table 47.271. Command arguments

Value	Summary
-h, --help	Show this help message and exit

47.69. LOADBALANCER UNSET

Clear load balancer settings

Usage:

```
openstack loadbalancer unset [-h] [--name] [--description]
                             [--vip-qos-policy-id]
                             <load_balancer>
```

Table 47.272. Positional arguments

Value	Summary
<load_balancer>	Name or uuid of the load balancer to update.

Table 47.273. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name	Clear the load balancer name.
--description	Clear the load balancer description.
--vip-qos-policy-id	Clear the load balancer qos policy.

CHAPTER 48. MAPPING

This chapter describes the commands under the **mapping** command.

48.1. MAPPING CREATE

Create new mapping

Usage:

```
openstack mapping create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] --rules <filename>
                        <name>
```

Table 48.1. Positional arguments

Value	Summary
<name>	New mapping name (must be unique)

Table 48.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--rules <filename>	Filename that contains a set of mapping rules (required)

Table 48.3. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 48.4. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 48.5. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 48.6. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

48.2. MAPPING DELETE

Delete mapping(s)

Usage:

```
openstack mapping delete [-h] <mapping> [<mapping> ...]
```

Table 48.7. Positional arguments

Value	Summary
<code><mapping></code>	Mapping(s) to delete

Table 48.8. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

48.3. MAPPING LIST

List mappings

Usage:

```
openstack mapping list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
```

```
[--noindent] [--max-width <integer>]
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]
```

Table 48.9. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 48.10. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 48.11. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 48.12. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 48.13. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show.

48.4. MAPPING SET

Set mapping properties

Usage:

```
openstack mapping set [-h] [--rules <filename>] <name>
```

Table 48.14. Positional arguments

Value	Summary
<code><name></code>	Mapping to modify

Table 48.15. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--rules <filename></code>	Filename that contains a new set of mapping rules

48.5. MAPPING SHOW

Display mapping details

Usage:

```
openstack mapping show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        <mapping>
```

Table 48.16. Positional arguments

Value	Summary
<code><mapping></code>	Mapping to display

Table 48.17. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 48.18. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 48.19. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 48.20. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 48.21. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 49. MESSAGING

This chapter describes the commands under the **messaging** command.

49.1. MESSAGING CLAIM CREATE

Create claim and return a list of claimed messages

Usage:

```
openstack messaging claim create [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--ttl <ttl>] [--grace <grace>]
                                [--limit <limit>]
                                <queue_name>
```

Table 49.1. Positional arguments

Value	Summary
<queue_name>	Name of the queue to be claim

Table 49.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--ttl <ttl>	Time to live in seconds for claim
--grace <grace>	The message grace period in seconds
--limit <limit>	Claims a set of messages, up to limit

Table 49.3. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Value	Summary
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 49.4. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 49.5. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 49.6. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

49.2. MESSAGING CLAIM QUERY

Display claim details

Usage:

```
openstack messaging claim query [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN]
                               <queue_name> <claim_id>
```

Table 49.7. Positional arguments

Value	Summary
<queue_name>	Name of the claimed queue
<claim_id>	Id of the claim

Table 49.8. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 49.9. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 49.10. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 49.11. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 49.12. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

49.3. MESSAGING CLAIM RELEASE

Delete a claim

Usage:

```
openstack messaging claim release [-h] <queue_name> <claim_id>
```

Table 49.13. Positional arguments

Value	Summary
<queue_name>	Name of the claimed queue
<claim_id>	Claim id to delete

Table 49.14. Command arguments

Value	Summary
-h, --help	Show this help message and exit

49.4. MESSAGING CLAIM RENEW

Renew a claim

Usage:

```
openstack messaging claim renew [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--ttl <ttl>] [--grace <grace>]
                                <queue_name> <claim_id>
```

Table 49.15. Positional arguments

Value	Summary
<queue_name>	Name of the claimed queue
<claim_id>	Claim id

Table 49.16. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--ttl <ttl>	Time to live in seconds for claim
--grace <grace>	The message grace period in seconds

Table 49.17. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 49.18. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 49.19. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 49.20. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

49.5. MESSAGING FLAVOR CREATE

Create a pool flavor

Usage:

```

openstack messaging flavor create [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                [--pool_list <pool_list>]
                                [--capabilities <capabilities>]
                                <flavor_name>

```

Table 49.21. Positional arguments

Value	Summary
<code><flavor_name></code>	Name of the flavor

Table 49.22. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--pool_list <pool_list></code>	Pool list for flavor
<code>--capabilities <capabilities></code>	Describes flavor-specific capabilities, this option is only available in client api version < 2 .

Table 49.23. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 49.24. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 49.25. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 49.26. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

49.6. MESSAGING FLAVOR DELETE

Delete a pool flavor

Usage:

```
openstack messaging flavor delete [-h] <flavor_name>
```

Table 49.27. Positional arguments

Value	Summary
<code><flavor_name></code>	Name of the flavor

Table 49.28. Command arguments

Value	Summary
-h, --help	Show this help message and exit

49.7. MESSAGING FLAVOR LIST

List available pool flavors

Usage:

```
openstack messaging flavor list [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN]
                               [--marker <flavor_name>]
                               [--limit <limit>] [--detailed]
```

Table 49.29. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--marker <flavor_name>	Flavor's paging marker
--limit <limit>	Page size limit
--detailed	If show detailed capabilities of flavor

Table 49.30. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 49.31. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 49.32. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 49.33. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

49.8. MESSAGING FLAVOR SHOW

Display pool flavor details

Usage:

```
openstack messaging flavor show [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <flavor_name>
```

Table 49.34. Positional arguments

Value	Summary
<code><flavor_name></code>	Flavor to display (name)

Table 49.35. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 49.36. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 49.37. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 49.38. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 49.39. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

49.9. MESSAGING FLAVOR UPDATE

Update a flavor's attributes

Usage:

```
openstack messaging flavor update [-h]
```

```

[-f {json,shell,table,value,yaml}]
[-c COLUMN] [--noindent]
[--prefix PREFIX]
[--max-width <integer>] [--fit-width]
[--print-empty]
[--pool_list <pool_list>]
[--capabilities <capabilities>]
<flavor_name>

```

Table 49.40. Positional arguments

Value	Summary
<flavor_name>	Name of the flavor

Table 49.41. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--pool_list <pool_list>	Pool list the flavor sits on
--capabilities <capabilities>	Describes flavor-specific capabilities.

Table 49.42. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 49.43. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 49.44. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 49.45. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

49.10. MESSAGING HEALTH

Display detailed health status of Zaqr server

Usage:

```
openstack messaging health [-h]
```

Table 49.46. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

49.11. MESSAGING HOMEDOC

Display detailed resource doc of Zaqr server

Usage:

```
openstack messaging homedoc [-h]
```

Table 49.47. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

49.12. MESSAGING MESSAGE LIST

List all messages for a given queue

Usage:

```
openstack messaging message list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
```

```

[--quote {all,minimal,none,nonnumeric}]
[--noindent] [--max-width <integer>]
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]
[--message-ids <message_ids>]
[--limit <limit>] [--echo]
[--include-claimed]
[--include-delayed]
[--client-id <client_id>]
<queue_name>

```

Table 49.48. Positional arguments

Value	Summary
<queue_name>	Name of the queue

Table 49.49. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--message-ids <message_ids>	List of messages' ids to retrieve
--limit <limit>	Maximum number of messages to get
--echo	Whether to get this client's own messages
--include-claimed	Whether to include claimed messages
--include-delayed	Whether to include delayed messages
--client-id <client_id>	A uuid for each client instance.

Table 49.50. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 49.51. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 49.52. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 49.53. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

49.13. MESSAGING MESSAGE POST

Post messages for a given queue

Usage:

```
openstack messaging message post [-h] [--client-id <client_id>]
    <queue_name> <messages>
```

Table 49.54. Positional arguments

Value	Summary
<code><queue_name></code>	Name of the queue
<code><messages></code>	Messages to be posted.

Table 49.55. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Value	Summary
<code>--client-id <client_id></code>	A uuid for each client instance.

49.14. MESSAGING PING

Check if Zaqr server is alive or not

Usage:

```
openstack messaging ping [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
```

Table 49.56. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 49.57. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 49.58. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 49.59. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 49.60. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

49.15. MESSAGING POOL CREATE

Create a pool

Usage:

```
openstack messaging pool create [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty] [--flavor <flavor>]
                               [--pool_options <pool_options>]
                               <pool_name> <pool_uri> <pool_weight>
```

Table 49.61. Positional arguments

Value	Summary
<code><pool_name></code>	Name of the pool
<code><pool_uri></code>	Storage engine uri
<code><pool_weight></code>	Weight of the pool

Table 49.62. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--flavor <flavor></code>	Flavor of the pool
<code>--pool_options <pool_options></code>	An optional request component related to storage-specific options

Table 49.63. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 49.64. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 49.65. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 49.66. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

49.16. MESSAGING POOL DELETE

Delete a pool

Usage:

```
openstack messaging pool delete [-h] <pool_name>
```

Table 49.67. Positional arguments

Value	Summary
<code><pool_name></code>	Name of the pool

Table 49.68. Command arguments

Value	Summary
-h, --help	Show this help message and exit

49.17. MESSAGING POOL LIST

List available Pools

Usage:

```
openstack messaging pool list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--marker <pool_name>] [--limit <limit>]
                             [--detailed]
```

Table 49.69. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--marker <pool_name>	Pool's paging marker
--limit <limit>	Page size limit
--detailed	Detailed output

Table 49.70. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 49.71. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 49.72. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 49.73. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

49.18. MESSAGING POOL SHOW

Display pool details

Usage:

```
openstack messaging pool show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent]
                             [--prefix PREFIX] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             <pool_name>
```

Table 49.74. Positional arguments

Value	Summary
<code><pool_name></code>	Pool to display (name)

Table 49.75. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 49.76. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 49.77. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 49.78. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 49.79. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

49.19. MESSAGING POOL UPDATE

Update a pool attribute

Usage:

```
openstack messaging pool update [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty] [--pool_uri <pool_uri>]
                                [--pool_weight <pool_weight>]
```

```

[--flavor <flavor>]
[--pool_options <pool_options>]
<pool_name>

```

Table 49.80. Positional arguments

Value	Summary
<pool_name>	Name of the pool

Table 49.81. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--pool_uri <pool_uri>	Storage engine uri
--pool_weight <pool_weight>	Weight of the pool
--flavor <flavor>	Flavor of the pool
--pool_options <pool_options>	An optional request component related to storage-specific options

Table 49.82. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 49.83. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 49.84. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 49.85. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

49.20. MESSAGING QUEUE CREATE

Create a queue

Usage:

```
openstack messaging queue create [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <queue_name>
```

Table 49.86. Positional arguments

Value	Summary
<code><queue_name></code>	Name of the queue

Table 49.87. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 49.88. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 49.89. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 49.90. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 49.91. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

49.21. MESSAGING QUEUE DELETE

Delete a queue

Usage:

```
openstack messaging queue delete [-h] <queue_name>
```

Table 49.92. Positional arguments

Value	Summary
<code><queue_name></code>	Name of the queue

Table 49.93. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

49.22. MESSAGING QUEUE GET METADATA

Get queue metadata

Usage:

```
openstack messaging queue get metadata [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     <queue_name>
```

Table 49.94. Positional arguments

Value	Summary
<queue_name>	Name of the queue

Table 49.95. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 49.96. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 49.97. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 49.98. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 49.99. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

49.23. MESSAGING QUEUE LIST

List available queues

Usage:

```
openstack messaging queue list [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN]
                               [--marker <queue_id>] [--limit <limit>]
                               [--detailed]
```

Table 49.100. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--marker <queue_id></code>	Queue's paging marker
<code>--limit <limit></code>	Page size limit
<code>--detailed</code>	If show detailed information of queue

Table 49.101. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Value	Summary
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 49.102. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 49.103. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 49.104. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

49.24. MESSAGING QUEUE PURGE

Purge a queue

Usage:

```
openstack messaging queue purge [-h]
                               [--resource_types <resource_types>]
                               <queue_name>
```

Table 49.105. Positional arguments

Value	Summary
<queue_name>	Name of the queue

Table 49.106. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--resource_types <resource_types>	Resource types want to be purged.

49.25. MESSAGING QUEUE SET METADATA

Set queue metadata

Usage:

```
openstack messaging queue set metadata [-h]
                                     <queue_name> <queue_metadata>
```

Table 49.107. Positional arguments

Value	Summary
<queue_name>	Name of the queue
<queue_metadata>	Queue metadata, all the metadata of the queue will be replaced by queue_metadata

Table 49.108. Command arguments

Value	Summary
-h, --help	Show this help message and exit

49.26. MESSAGING QUEUE SIGNED URL

Create a pre-signed url

Usage:

```
openstack messaging queue signed url [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
```



```

[--fit-width] [--print-empty]
[--paths <paths>]
[--ttl-seconds <ttl_seconds>]
[--methods <methods>]
<queue_name>

```

Table 49.109. Positional arguments

Value	Summary
<queue_name>	Name of the queue

Table 49.110. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--paths <paths>	Allowed paths in a comma-separated list. options: messages, subscriptions, claims
--ttl-seconds <ttl_seconds>	Length of time (in seconds) until the signature expires
--methods <methods>	Http methods to allow as a comma-separated list. Options: GET, HEAD, OPTIONS, POST, PUT, DELETE

Table 49.111. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 49.112. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 49.113. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 49.114. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

49.27. MESSAGING QUEUE STATS

Get queue stats

Usage:

```

openstack messaging queue stats [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <queue_name>

```

Table 49.115. Positional arguments

Value	Summary
<queue_name>	Name of the queue

Table 49.116. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 49.117. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 49.118. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 49.119. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 49.120. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

49.28. MESSAGING SUBSCRIPTION CREATE

Create a subscription for queue

Usage:

```
openstack messaging subscription create [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--options <options>]
                                     <queue_name> <subscriber> <ttl>
```

-

Table 49.121. Positional arguments

Value	Summary
<queue_name>	Name of the queue to subscribe to
<subscriber>	Subscriber which will be notified
<ttl>	Time to live of the subscription in seconds

Table 49.122. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--options <options>	Metadata of the subscription in json format

Table 49.123. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 49.124. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 49.125. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 49.126. Table formatter options

Value	Summary
-------	---------

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

49.29. MESSAGING SUBSCRIPTION DELETE

Delete a subscription

Usage:

```
openstack messaging subscription delete [-h]
                                     <queue_name> <subscription_id>
```

Table 49.127. Positional arguments

Value	Summary
<code><queue_name></code>	Name of the queue for the subscription
<code><subscription_id></code>	Id of the subscription

Table 49.128. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

49.30. MESSAGING SUBSCRIPTION LIST

List available subscriptions

Usage:

```
openstack messaging subscription list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]
```

```

[--marker <subscription_id>]
[--limit <limit>]
<queue_name>

```

Table 49.129. Positional arguments

Value	Summary
<queue_name>	Name of the queue to subscribe to

Table 49.130. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--marker <subscription_id>	Subscription's paging marker, the id of the last subscription of the previous page
--limit <limit>	Page size limit, default value is 20

Table 49.131. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 49.132. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 49.133. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 49.134. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

49.31. MESSAGING SUBSCRIPTION SHOW

Display subscription details

Usage:

```
openstack messaging subscription show [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     <queue_name> <subscription_id>
```

Table 49.135. Positional arguments

Value	Summary
<code><queue_name></code>	Name of the queue to subscribe to
<code><subscription_id></code>	Id of the subscription

Table 49.136. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 49.137. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 49.138. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 49.139. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 49.140. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

49.32. MESSAGING SUBSCRIPTION UPDATE

Update a subscription

Usage:

```

openstack messaging subscription update [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--subscriber <subscriber>]
                                     [--ttl <ttl>]
                                     [--options <options>]
                                     <queue_name> <subscription_id>

```

Table 49.141. Positional arguments

Value	Summary
<queue_name>	Name of the queue to subscribe to

Value	Summary
<subscription_id>	Id of the subscription

Table 49.142. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--subscriber <subscriber>	Subscriber which will be notified
--ttl <ttl>	Time to live of the subscription in seconds
--options <options>	Metadata of the subscription in json format

Table 49.143. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 49.144. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 49.145. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 49.146. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 50. METRIC

This chapter describes the commands under the **metric** command.

50.1. METRIC AGGREGATES

Get measurements of aggregated metrics.

Usage:

```
openstack metric aggregates [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--resource-type RESOURCE_TYPE]
                             [--start START] [--stop STOP]
                             [--granularity GRANULARITY]
                             [--needed-overlap NEEDED_OVERLAP]
                             [--groupby GROUPBY] [--fill FILL]
                             operations [search]
```

Table 50.1. Positional arguments

Value	Summary
operations	Operations to apply to time series
search	A query to filter resource. the syntax is a combination of attribute, operator and value. For example: id=90d58eea-70d7-4294-a49a-170dcdf44c3c would filter resource with a certain id. More complex queries can be built, e.g.: not (flavor_id!="1" and memory>=24). Use "" to force data to be interpreted as string. Supported operators are: not, and, \wedge or, \vee , \gt , \lt , \leq , \geq , \neq , \in , like, \neq , \geq , \leq , like, in.

Table 50.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--resource-type RESOURCE_TYPE	Resource type to query
--start START	Beginning of the period
--stop STOP	End of the period

Value	Summary
<code>--granularity GRANULARITY</code>	Granularity to retrieve
<code>--needed-overlap NEEDED_OVERLAP</code>	Percentage of overlap across datapoints
<code>--groupby GROUPBY</code>	Attribute to use to group resources
<code>--fill FILL</code>	Value to use when backfilling timestamps with missing values in a subset of series. Value should be a float or <i>null</i> .

Table 50.3. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 50.4. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 50.5. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 50.6. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

50.2. METRIC ARCHIVE-POLICY CREATE

Create an archive policy.

Usage:

```
openstack metric archive-policy create [-h]
    [-f {json,shell,table,value,yaml}]
    [-c COLUMN] [--noindent]
    [--prefix PREFIX]
    [--max-width <integer>]
    [--fit-width] [--print-empty] -d
    <DEFINITION> [-b BACK_WINDOW]
    [-m AGGREGATION_METHODS]
    name
```

Table 50.7. Positional arguments

Value	Summary
name	Name of the archive policy

Table 50.8. Command arguments

Value	Summary
-h, --help	Show this help message and exit
-d <DEFINITION>, --definition <DEFINITION>	Two attributes (separated by ,) of an archive policy definition with its name and value separated with a :
-b BACK_WINDOW, --back-window BACK_WINDOW	Back window of the archive policy
-m AGGREGATION_METHODS, --aggregation-method AGGREGATION_METHODS	Aggregation method of the archive policy

Table 50.9. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 50.10. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 50.11. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 50.12. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

50.3. METRIC ARCHIVE-POLICY DELETE

Delete an archive policy.

Usage:

```
openstack metric archive-policy delete [-h] name
```

Table 50.13. Positional arguments

Value	Summary
name	Name of the archive policy

Table 50.14. Command arguments

Value	Summary
-h, --help	Show this help message and exit

50.4. METRIC ARCHIVE-POLICY LIST

List archive policies.

Usage:

```
openstack metric archive-policy list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]
```

Table 50.15. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 50.16. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 50.17. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 50.18. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 50.19. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

50.5. METRIC ARCHIVE-POLICY-RULE CREATE

Create an archive policy rule.

Usage:

```

openstack metric archive-policy-rule create [-h]
                                           [-f {json,shell,table,value,yaml}]
                                           [-c COLUMN] [--noindent]
                                           [--prefix PREFIX]
                                           [--max-width <integer>]
                                           [--fit-width]
                                           [--print-empty] -a
                                           ARCHIVE_POLICY_NAME -m
                                           METRIC_PATTERN
                                           name

```

Table 50.20. Positional arguments

Value	Summary
name	Rule name

Table 50.21. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Value	Summary
-a ARCHIVE_POLICY_NAME, --archive-policy-name ARCHIVE_POLICY_NAME	Archive policy name
-m METRIC_PATTERN, --metric-pattern METRIC_PATTERN	Wildcard of metric name to match

Table 50.22. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 50.23. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.24. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.25. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

50.6. METRIC ARCHIVE-POLICY-RULE DELETE

Delete an archive policy rule.

Usage:

```
openstack metric archive-policy-rule delete [-h] name
```

Table 50.26. Positional arguments

Value	Summary
name	Name of the archive policy rule

Table 50.27. Command arguments

Value	Summary
-h, --help	Show this help message and exit

50.7. METRIC ARCHIVE-POLICY-RULE LIST

List archive policy rules.

Usage:

```
openstack metric archive-policy-rule list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--sort-column SORT_COLUMN]
```

Table 50.28. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 50.29. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Value	Summary
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 50.30. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 50.31. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 50.32. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

50.8. METRIC ARCHIVE-POLICY-RULE SHOW

Show an archive policy rule.

Usage:

```
openstack metric archive-policy-rule show [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         name
```

Table 50.33. Positional arguments

Value	Summary
name	Name of the archive policy rule

Table 50.34. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 50.35. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 50.36. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.37. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.38. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

50.9. METRIC ARCHIVE-POLICY SHOW

Show an archive policy.

Usage:

```
openstack metric archive-policy show [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     name
```

Table 50.39. Positional arguments

Value	Summary
name	Name of the archive policy

Table 50.40. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 50.41. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 50.42. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.43. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.44. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

50.10. METRIC ARCHIVE-POLICY UPDATE

Update an archive policy.

Usage:

```

openstack metric archive-policy update [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty] -d
                                     <DEFINITION>
                                     name

```

Table 50.45. Positional arguments

Value	Summary
name	Name of the archive policy

Table 50.46. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>-d <DEFINITION>, --definition <DEFINITION></code>	Two attributes (separated by ,) of an archive policy definition with its name and value separated with a :

Table 50.47. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table

Value	Summary
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 50.48. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.49. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.50. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

50.11. METRIC BENCHMARK MEASURES ADD

Do benchmark testing of adding measurements.

Usage:

```
openstack metric benchmark measures add [-h]
    [--resource-id RESOURCE_ID]
    [-f {json,shell,table,value,yaml}]
    [-c COLUMN] [--noindent]
    [--prefix PREFIX]
    [--max-width <integer>]
    [--fit-width] [--print-empty]
    [--workers WORKERS] --count
    COUNT [--batch BATCH]
    [--timestamp-start TIMESTAMP_START]
```

```

[--timestamp-end TIMESTAMP_END]
[--wait]
metric

```

Table 50.51. Positional arguments

Value	Summary
metric	Id or name of the metric

Table 50.52. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--resource-id RESOURCE_ID, -r RESOURCE_ID	Id of the resource
--workers WORKERS, -w WORKERS	Number of workers to use
--count COUNT, -n COUNT	Number of total measures to send
--batch BATCH, -b BATCH	Number of measures to send in each batch
--timestamp-start TIMESTAMP_START, -s TIMESTAMP_START	First timestamp to use
--timestamp-end TIMESTAMP_END, -e TIMESTAMP_END	Last timestamp to use
--wait	Wait for all measures to be processed

Table 50.53. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 50.54. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.55. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.56. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

50.12. METRIC BENCHMARK MEASURES SHOW

Do benchmark testing of measurements show.

Usage:

```

openstack metric benchmark measures show [-h]
      [-f {json,shell,table,value,yaml}]
      [-c COLUMN] [--noindent]
      [--prefix PREFIX]
      [--max-width <integer>]
      [--fit-width] [--print-empty]
      [--sort-column SORT_COLUMN]
      [--utc]
      [--resource-id RESOURCE_ID]
      [--aggregation AGGREGATION]
      [--start START] [--stop STOP]
      [--granularity GRANULARITY]
      [--refresh]
      [--resample RESAMPLE]
      [--workers WORKERS] --count
      COUNT
      metric

```

Table 50.57. Positional arguments

Value	Summary
metric	Id or name of the metric

Table 50.58. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--utc	Return timestamps as utc
--resource-id RESOURCE_ID, -r RESOURCE_ID	Id of the resource
--aggregation AGGREGATION	Aggregation to retrieve
--start START	Beginning of the period
--stop STOP	End of the period
--granularity GRANULARITY	Granularity to retrieve
--refresh	Force aggregation of all known measures
--resample RESAMPLE	Granularity to resample time-series to (in seconds)
--workers WORKERS, -w WORKERS	Number of workers to use
--count COUNT, -n COUNT	Number of total measures to send

Table 50.59. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 50.60. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.61. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 50.62. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

50.13. METRIC BENCHMARK METRIC CREATE

Do benchmark testing of metric creation.

Usage:

```
openstack metric benchmark metric create [-h]
                                         [--resource-id RESOURCE_ID]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--archive-policy-name ARCHIVE_POLICY_NAME]
                                         [--workers WORKERS] --count
                                         COUNT [--keep]
```

Table 50.63. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--resource-id RESOURCE_ID, -r RESOURCE_ID</code>	Id of the resource
<code>--archive-policy-name ARCHIVE_POLICY_NAME, -a ARCHIVE_POLICY_NAME</code>	Name of the archive policy
<code>--workers WORKERS, -w WORKERS</code>	Number of workers to use

Value	Summary
<code>--count COUNT, -n COUNT</code>	Number of metrics to create
<code>--keep, -k</code>	Keep created metrics

Table 50.64. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 50.65. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 50.66. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 50.67. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

50.14. METRIC BENCHMARK METRIC SHOW

Do benchmark testing of metric show.

Usage:

```

openstack metric benchmark metric show [-h] [--resource-id RESOURCE_ID]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--workers WORKERS] --count
                                         COUNT
                                         metric [metric ...]

```

Table 50.68. Positional arguments

Value	Summary
metric	Id or name of the metrics

Table 50.69. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--resource-id RESOURCE_ID, -r RESOURCE_ID	Id of the resource
--workers WORKERS, -w WORKERS	Number of workers to use
--count COUNT, -n COUNT	Number of metrics to get

Table 50.70. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 50.71. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.72. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.73. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

50.15. METRIC CAPABILITIES LIST

List capabilities.

Usage:

```

openstack metric capabilities list [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>]
                                [--fit-width] [--print-empty]

```

Table 50.74. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 50.75. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 50.76. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.77. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.78. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

50.16. METRIC CREATE

Create a metric.

Usage:

```
openstack metric create [-h] [--resource-id RESOURCE_ID]
                        [-f {json,shell,table,value,yaml}] [-c COLUMN]
                        [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        [--archive-policy-name ARCHIVE_POLICY_NAME]
                        [--unit UNIT]
                        [METRIC_NAME]
```

Table 50.79. Positional arguments

Value	Summary
METRIC_NAME	Name of the metric

Table 50.80. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--resource-id RESOURCE_ID, -r RESOURCE_ID</code>	Id of the resource
<code>--archive-policy-name ARCHIVE_POLICY_NAME, -a ARCHIVE_POLICY_NAME</code>	Name of the archive policy
<code>--unit UNIT, -u UNIT</code>	Unit of the metric

Table 50.81. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 50.82. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 50.83. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 50.84. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

50.17. METRIC DELETE

Delete a metric.

Usage:

```
openstack metric delete [-h] [--resource-id RESOURCE_ID]
                        metric [metric ...]
```

Table 50.85. Positional arguments

Value	Summary
metric	Ids or names of the metric

Table 50.86. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--resource-id RESOURCE_ID, -r RESOURCE_ID	Id of the resource

50.18. METRIC LIST

List metrics.

Usage:

```
openstack metric list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>]
                    [--fit-width] [--print-empty]
                    [--sort-column SORT_COLUMN] [--limit <LIMIT>]
                    [--marker <MARKER>] [--sort <SORT>]
```

Table 50.87. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--limit <LIMIT>	Number of metrics to return (default is server default)
--marker <MARKER>	Last item of the previous listing. return the next results after this value

Value	Summary
<code>--sort <SORT></code>	Sort of metric attribute (example: user_id:desc-nullslast)

Table 50.88. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 50.89. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 50.90. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 50.91. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

50.19. METRIC MEASURES ADD

Add measurements to a metric.

Usage:

```
openstack metric measures add [-h] [--resource-id RESOURCE_ID] -m
    MEASURE
    metric
```

Table 50.92. Positional arguments

Value	Summary
metric	Id or name of the metric

Table 50.93. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--resource-id RESOURCE_ID, -r RESOURCE_ID	Id of the resource
-m MEASURE, --measure MEASURE	Timestamp and value of a measure separated with a @

50.20. METRIC MEASURES AGGREGATION

Get measurements of aggregated metrics.

Usage:

```
openstack metric measures aggregation [-h]
    [-f {csv,json,table,value,yaml}]
    [-c COLUMN]
    [--quote {all,minimal,none,nonnumeric}]
    [--noindent]
    [--max-width <integer>]
    [--fit-width] [--print-empty]
    [--sort-column SORT_COLUMN]
    [--utc] -m METRIC [METRIC ...]
    [--aggregation AGGREGATION]
    [--reaggregation REAGGREGATION]
    [--start START] [--stop STOP]
    [--granularity GRANULARITY]
    [--needed-overlap NEEDED_OVERLAP]
    [--query QUERY]
    [--resource-type RESOURCE_TYPE]
    [--groupby GROUPBY] [--refresh]
    [--resample RESAMPLE]
    [--fill FILL]
```

Table 50.94. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--utc	Return timestamps as utc
-m METRIC [METRIC ...], --metric METRIC [METRIC ...]	Metrics ids or metric name
--aggregation AGGREGATION	Granularity aggregation function to retrieve
--reaggregation REAGGREGATION	Groupby aggregation function to retrieve
--start START	Beginning of the period
--stop STOP	End of the period
--granularity GRANULARITY	Granularity to retrieve
--needed-overlap NEEDED_OVERLAP	Percent of datapoints in each metrics required
--query QUERY	A query to filter resource. the syntax is a combination of attribute, operator and value. For example: id=90d58eea-70d7-4294-a49a-170dcdf44c3c would filter resource with a certain id. More complex queries can be built, e.g.: not (flavor_id!="1" and memory>=24). Use "" to force data to be interpreted as string. Supported operators are: not, and, \wedge or, \vee , >=, <=, !=, >, <, =, ==, eq, ne, lt, gt, ge, le, in, like, ≠, ≥, ≤, like, in.
--resource-type RESOURCE_TYPE	Resource type to query
--groupby GROUPBY	Attribute to use to group resources
--refresh	Force aggregation of all known measures
--resample RESAMPLE	Granularity to resample time-series to (in seconds)
--fill FILL	Value to use when backfilling timestamps with missing values in a subset of series. Value should be a float or <i>null</i> .

Table 50.95. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 50.96. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 50.97. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 50.98. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

50.21. METRIC MEASURES BATCH-METRICS

Usage:

```
openstack metric measures batch-metrics [-h] file
```

Table 50.99. Positional arguments

Value	Summary
file	File containing measurements to batch or - for stdin (see Gnocchi REST API docs for the format

Table 50.100. Command arguments

Value	Summary
-h, --help	Show this help message and exit

50.22. METRIC MEASURES BATCH-RESOURCES-METRICS

Usage:

```
openstack metric measures batch-resources-metrics [-h]
                                                    [--create-metrics]
                                                    file
```

Table 50.101. Positional arguments

Value	Summary
file	File containing measurements to batch or - for stdin (see Gnocchi REST API docs for the format

Table 50.102. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--create-metrics	Create unknown metrics

50.23. METRIC MEASURES SHOW

Get measurements of a metric.

Usage:

```
openstack metric measures show [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN] [--utc]
                                [--resource-id RESOURCE_ID]
                                [--aggregation AGGREGATION]
```

```

[--start START] [--stop STOP]
[--granularity GRANULARITY] [--refresh]
[--resample RESAMPLE]
metric

```

Table 50.103. Positional arguments

Value	Summary
metric	Id or name of the metric

Table 50.104. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--utc	Return timestamps as utc
--resource-id RESOURCE_ID, -r RESOURCE_ID	Id of the resource
--aggregation AGGREGATION	Aggregation to retrieve
--start START	Beginning of the period
--stop STOP	End of the period
--granularity GRANULARITY	Granularity to retrieve
--refresh	Force aggregation of all known measures
--resample RESAMPLE	Granularity to resample time-series to (in seconds)

Table 50.105. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 50.106. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 50.107. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 50.108. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

50.24. METRIC METRIC CREATE

Deprecated: Create a metric.

Usage:

```
openstack metric metric create [-h] [--resource-id RESOURCE_ID]
                               [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty]
                               [--archive-policy-name ARCHIVE_POLICY_NAME]
                               [--unit UNIT]
                               [METRIC_NAME]
```

Table 50.109. Positional arguments

Value	Summary
<code>METRIC_NAME</code>	Name of the metric

Table 50.110. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--resource-id RESOURCE_ID, -r RESOURCE_ID	Id of the resource
--archive-policy-name ARCHIVE_POLICY_NAME, -a ARCHIVE_POLICY_NAME	Name of the archive policy
--unit UNIT, -u UNIT	Unit of the metric

Table 50.111. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 50.112. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.113. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.114. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

50.25. METRIC METRIC DELETE

Deprecated: Delete a metric.

Usage:

```
openstack metric metric delete [-h] [--resource-id RESOURCE_ID]
                               metric [metric ...]
```

Table 50.115. Positional arguments

Value	Summary
metric	Ids or names of the metric

Table 50.116. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--resource-id RESOURCE_ID, -r RESOURCE_ID	Id of the resource

50.26. METRIC METRIC LIST

Deprecated: List metrics.

Usage:

```
openstack metric metric list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--limit <LIMIT>] [--marker <MARKER>]
                             [--sort <SORT>]
```

Table 50.117. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--limit <LIMIT>	Number of metrics to return (default is server default)
--marker <MARKER>	Last item of the previous listing. return the next results after this value

Value	Summary
<code>--sort <SORT></code>	Sort of metric attribute (example: user_id:desc-nullslast)

Table 50.118. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 50.119. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 50.120. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 50.121. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

50.27. METRIC METRIC SHOW

Deprecated: Show a metric.

Usage:

```
openstack metric metric show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             [--resource-id RESOURCE_ID]
                             metric
```

Table 50.122. Positional arguments

Value	Summary
metric	Id or name of the metric

Table 50.123. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--resource-id RESOURCE_ID, -r RESOURCE_ID	Id of the resource

Table 50.124. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 50.125. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.126. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.127. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

50.28. METRIC RESOURCE BATCH DELETE

Delete a batch of resources based on attribute values.

Usage:

```
openstack metric resource batch delete [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--type RESOURCE_TYPE]
                                     query
```

Table 50.128. Positional arguments

Value	Summary
query	A query to filter resource. the syntax is a combination of attribute, operator and value. For example: <code>id=90d58eea-70d7-4294-a49a-170dcdf44c3c</code> would filter resource with a certain id. More complex queries can be built, e.g.: <code>not (flavor_id!="1" and memory>=24)</code> . Use <code>"</code> to force data to be interpreted as string. Supported operators are: <code>not</code> , <code>and</code> , <code>^</code> or <code>v</code> , <code>>=</code> , <code><=</code> , <code>!=</code> , <code>></code> , <code><</code> , <code>=</code> , <code>==</code> , <code>eq</code> , <code>ne</code> , <code>lt</code> , <code>gt</code> , <code>ge</code> , <code>le</code> , <code>in</code> , <code>like</code> , <code>≠</code> , <code>≥</code> , <code>≤</code> , <code>like</code> , <code>in</code> .

Table 50.129. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--type RESOURCE_TYPE, -t RESOURCE_TYPE</code>	Type of resource

Table 50.130. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 50.131. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 50.132. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 50.133. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

50.29. METRIC RESOURCE CREATE

Create a resource.

Usage:

```

openstack metric resource create [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty] [--type RESOURCE_TYPE]

```

```
[-a ATTRIBUTE] [-m ADD_METRIC]
[-n CREATE_METRIC]
resource_id
```

Table 50.134. Positional arguments

Value	Summary
resource_id	Id of the resource

Table 50.135. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--type RESOURCE_TYPE, -t RESOURCE_TYPE	Type of resource
-a ATTRIBUTE, --attribute ATTRIBUTE	Name and value of an attribute separated with a :
-m ADD_METRIC, --add-metric ADD_METRIC	Name:id of a metric to add
-n CREATE_METRIC, --create-metric CREATE_METRIC	Name:archive_policy_name of a metric to create

Table 50.136. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 50.137. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.138. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.139. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

50.30. METRIC RESOURCE DELETE

Delete a resource.

Usage:

```
openstack metric resource delete [-h] resource_id
```

Table 50.140. Positional arguments

Value	Summary
<code>resource_id</code>	Id of the resource

Table 50.141. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

50.31. METRIC RESOURCE HISTORY

Show the history of a resource.

Usage:

```
openstack metric resource history [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--details] [--limit <LIMIT>]
                                [--marker <MARKER>] [--sort <SORT>]
                                [--type RESOURCE_TYPE]
                                resource_id
```


Table 50.142. Positional arguments

Value	Summary
resource_id	Id of a resource

Table 50.143. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--details	Show all attributes of generic resources
--limit <LIMIT>	Number of resources to return (default is server default)
--marker <MARKER>	Last item of the previous listing. return the next results after this value
--sort <SORT>	Sort of resource attribute (example: user_id:desc-nullslast)
--type RESOURCE_TYPE, -t RESOURCE_TYPE	Type of resource

Table 50.144. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 50.145. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 50.146. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.147. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

50.32. METRIC RESOURCE LIST

List resources.

Usage:

```

openstack metric resource list [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN] [--details]
                               [--history] [--limit <LIMIT>]
                               [--marker <MARKER>] [--sort <SORT>]
                               [--type RESOURCE_TYPE]

```

Table 50.148. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--details	Show all attributes of generic resources
--history	Show history of the resources
--limit <LIMIT>	Number of resources to return (default is server default)

Value	Summary
<code>--marker <MARKER></code>	Last item of the previous listing. return the next results after this value
<code>--sort <SORT></code>	Sort of resource attribute (example: <code>user_id:desc-nullslast</code>)
<code>--type RESOURCE_TYPE, -t RESOURCE_TYPE</code>	Type of resource

Table 50.149. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 50.150. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 50.151. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 50.152. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show.

50.33. METRIC RESOURCE SEARCH

Search resources with specified query rules.

Usage:

```

openstack metric resource search [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--details] [--history]
                                [--limit <LIMIT>] [--marker <MARKER>]
                                [--sort <SORT>] [--type RESOURCE_TYPE]
                                query

```

Table 50.153. Positional arguments

Value	Summary
query	A query to filter resource. the syntax is a combination of attribute, operator and value. For example: <code>id=90d58eea-70d7-4294-a49a-170dcdf44c3c</code> would filter resource with a certain id. More complex queries can be built, e.g.: <code>not (flavor_id!="1" and memory>=24)</code> . Use "" to force data to be interpreted as string. Supported operators are: <code>not</code> , <code>and</code> , <code>∧</code> or <code>∨</code> , <code>>=</code> , <code>≠</code> , <code>!=</code> , <code>></code> , <code><</code> , <code>=</code> , <code>==</code> , <code>eq</code> , <code>ne</code> , <code>lt</code> , <code>gt</code> , <code>ge</code> , <code>le</code> , <code>in</code> , <code>like</code> , <code>≠</code> , <code>≥</code> , <code>≤</code> , <code>like</code> , <code>in</code> .

Table 50.154. Command arguments

Value	Summary
<code>-h</code> , <code>--help</code>	Show this help message and exit
<code>--details</code>	Show all attributes of generic resources
<code>--history</code>	Show history of the resources
<code>--limit <LIMIT></code>	Number of resources to return (default is server default)

Value	Summary
--marker <MARKER>	Last item of the previous listing. return the next results after this value
--sort <SORT>	Sort of resource attribute (example: user_id:desc-nullslast)
--type RESOURCE_TYPE, -t RESOURCE_TYPE	Type of resource

Table 50.155. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 50.156. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 50.157. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.158. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show.

50.34. METRIC RESOURCE SHOW

Show a resource.

Usage:

```
openstack metric resource show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty] [--type RESOURCE_TYPE]
                               resource_id
```

Table 50.159. Positional arguments

Value	Summary
<code>resource_id</code>	Id of a resource

Table 50.160. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--type RESOURCE_TYPE, -t RESOURCE_TYPE</code>	Type of resource

Table 50.161. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 50.162. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 50.163. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.164. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

50.35. METRIC RESOURCE-TYPE CREATE

Create a resource type.

Usage:

```
openstack metric resource-type create [-h]
    [-f {json,shell,table,value,yaml}]
    [-c COLUMN] [--noindent]
    [--prefix PREFIX]
    [--max-width <integer>]
    [--fit-width] [--print-empty]
    [-a ATTRIBUTE]
    name
```

Table 50.165. Positional arguments

Value	Summary
name	Name of the resource type

Table 50.166. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Value	Summary
-a ATTRIBUTE, --attribute ATTRIBUTE	Attribute definition, attribute_name:attribute_type:attribute_is_required:attribute_type_option_name=attribute_type_option_value:... For example: display_name:string:true:max_length=255

Table 50.167. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 50.168. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.169. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.170. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

50.36. METRIC RESOURCE-TYPE DELETE

Delete a resource type.

Usage:

```
openstack metric resource-type delete [-h] name
```

Table 50.171. Positional arguments

Value	Summary
name	Name of the resource type

Table 50.172. Command arguments

Value	Summary
-h, --help	Show this help message and exit

50.37. METRIC RESOURCE-TYPE LIST

List resource types.

Usage:

```
openstack metric resource-type list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]
```

Table 50.173. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 50.174. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Value	Summary
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 50.175. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 50.176. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 50.177. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

50.38. METRIC RESOURCE-TYPE SHOW

Show a resource type.

Usage:

```

openstack metric resource-type show [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     name

```

Table 50.178. Positional arguments

Value	Summary
name	Name of the resource type

Table 50.179. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 50.180. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 50.181. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.182. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.183. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

50.39. METRIC RESOURCE-TYPE UPDATE

Create a resource type.

Usage:

```
openstack metric resource-type update [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [-a ATTRIBUTE]
                                     [-r REMOVE_ATTRIBUTE]
                                     name
```

Table 50.184. Positional arguments

Value	Summary
name	Name of the resource type

Table 50.185. Command arguments

Value	Summary
-h, --help	Show this help message and exit
-a ATTRIBUTE, --attribute ATTRIBUTE	Attribute definition, attribute_name:attribute_type:attribute_is_required:attribute_type_option_name=attribute_type_option_value:... For example: display_name:string:true:max_length=255
-r REMOVE_ATTRIBUTE, --remove-attribute REMOVE_ATTRIBUTE	Attribute name

Table 50.186. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 50.187. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 50.188. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 50.189. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

50.40. METRIC RESOURCE UPDATE

Update a resource.

Usage:

```

openstack metric resource update [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty] [--type RESOURCE_TYPE]
                                [-a ATTRIBUTE] [-m ADD_METRIC]
                                [-n CREATE_METRIC] [-d DELETE_METRIC]
                                resource_id

```

Table 50.190. Positional arguments

Value	Summary
<code>resource_id</code>	Id of the resource

Table 50.191. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--type RESOURCE_TYPE, -t RESOURCE_TYPE	Type of resource
-a ATTRIBUTE, --attribute ATTRIBUTE	Name and value of an attribute separated with a :
-m ADD_METRIC, --add-metric ADD_METRIC	Name:id of a metric to add
-n CREATE_METRIC, --create-metric CREATE_METRIC	Name:archive_policy_name of a metric to create
-d DELETE_METRIC, --delete-metric DELETE_METRIC	Name of a metric to delete

Table 50.192. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 50.193. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.194. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.195. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

50.41. METRIC SERVER VERSION

Show the version of Gnocchi server.

Usage:

```
openstack metric server version [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
```

Table 50.196. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 50.197. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 50.198. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.199. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 50.200. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

50.42. METRIC SHOW

Show a metric.

Usage:

```

openstack metric show [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--resource-id RESOURCE_ID]
                    metric

```

Table 50.201. Positional arguments

Value	Summary
<code>metric</code>	Id or name of the metric

Table 50.202. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--resource-id RESOURCE_ID, -r RESOURCE_ID</code>	Id of the resource

Table 50.203. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 50.204. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 50.205. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 50.206. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

50.43. METRIC STATUS

Show the status of measurements processing.

Usage:

```
openstack metric status [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
```

Table 50.207. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 50.208. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 50.209. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 50.210. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 50.211. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 51. MODULE

This chapter describes the commands under the **module** command.

51.1. MODULE LIST

List module versions

Usage:

```
openstack module list [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--all]
```

Table 51.1. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all	Show all modules that have version information

Table 51.2. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 51.3. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 51.4. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 51.5. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 52. NETWORK

This chapter describes the commands under the **network** command.

52.1. NETWORK AGENT ADD NETWORK

Add network to an agent

Usage:

```
openstack network agent add network [-h] [--dhcp] <agent-id> <network>
```

Table 52.1. Positional arguments

Value	Summary
<agent-id>	Agent to which a network is added (id only)
<network>	Network to be added to an agent (name or id)

Table 52.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--dhcp	Add network to a dhcp agent

52.2. NETWORK AGENT ADD ROUTER

Add router to an agent

Usage:

```
openstack network agent add router [-h] [--l3] <agent-id> <router>
```

Table 52.3. Positional arguments

Value	Summary
<agent-id>	Agent to which a router is added (id only)
<router>	Router to be added to an agent (name or id)

Table 52.4. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--l3	Add router to an l3 agent

52.3. NETWORK AGENT DELETE

Delete network agent(s)

Usage:

```
openstack network agent delete [-h]
                               <network-agent> [<network-agent> ...]
```

Table 52.5. Positional arguments

Value	Summary
<network-agent>	Network agent(s) to delete (id only)

Table 52.6. Command arguments

Value	Summary
-h, --help	Show this help message and exit

52.4. NETWORK AGENT LIST

List network agents

Usage:

```
openstack network agent list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--agent-type <agent-type>]
                             [--host <host>]
                             [--network <network> | --router <router>]
                             [--long]
```

Table 52.7. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--agent-type <agent-type>	List only agents with the specified agent type. the supported agent types are: dhcp, open-vswitch, linux-bridge, ofa, l3, loadbalancer, metering, metadata, macvtap, nic.
--host <host>	List only agents running on the specified host
--network <network>	List agents hosting a network (name or id)
--router <router>	List agents hosting this router (name or id)
--long	List additional fields in output

Table 52.8. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 52.9. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 52.10. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.11. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

52.5. NETWORK AGENT REMOVE NETWORK

Remove network from an agent.

Usage:

```
openstack network agent remove network [-h] [--dhcp]
    <agent-id> <network>
```

Table 52.12. Positional arguments

Value	Summary
<code><agent-id></code>	Agent to which a network is removed (id only)
<code><network></code>	Network to be removed from an agent (name or id)

Table 52.13. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--dhcp</code>	Remove network from dhcp agent

52.6. NETWORK AGENT REMOVE ROUTER

Remove router from an agent

Usage:

```
openstack network agent remove router [-h] [--l3] <agent-id> <router>
```

Table 52.14. Positional arguments

Value	Summary
<agent-id>	Agent from which router will be removed (id only)
<router>	Router to be removed from an agent (name or id)

Table 52.15. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--l3	Remove router from an l3 agent

52.7. NETWORK AGENT SET

Set network agent properties

Usage:

```
openstack network agent set [-h] [--description <description>]
                             [--enable | --disable]
                             <network-agent>
```

Table 52.16. Positional arguments

Value	Summary
<network-agent>	Network agent to modify (id only)

Table 52.17. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Set network agent description
--enable	Enable network agent
--disable	Disable network agent

52.8. NETWORK AGENT SHOW

Display network agent details

Usage:

```

openstack network agent show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             <network-agent>

```

Table 52.18. Positional arguments

Value	Summary
<network-agent>	Network agent to display (id only)

Table 52.19. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 52.20. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 52.21. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.22. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 52.23. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

52.9. NETWORK AUTO ALLOCATED TOPOLOGY CREATE

Create the auto allocated topology for project

Usage:

```

openstack network auto allocated topology create [-h]
                                                [-f {json,shell,table,value,yaml}]
                                                [-c COLUMN]
                                                [--noindent]
                                                [--prefix PREFIX]
                                                [--max-width <integer>]
                                                [--fit-width]
                                                [--print-empty]
                                                [--project <project>]
                                                [--project-domain <project-domain>]
                                                [--check-resources]
                                                [--or-show]

```

Table 52.24. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--project <project>	Return the auto allocated topology for a given project. Default is current project
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--check-resources	Validate the requirements for auto allocated topology. Does not return a topology.
--or-show	If topology exists returns the topology's information (Default)

Table 52.25. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 52.26. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 52.27. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 52.28. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

52.10. NETWORK AUTO ALLOCATED TOPOLOGY DELETE

Delete auto allocated topology for project

Usage:

```
openstack network auto allocated topology delete [-h]
                                     [--project <project>]
                                     [--project-domain <project-domain>]
```

Table 52.29. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--project <project>	Delete auto allocated topology for a given project. Default is the current project
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

52.11. NETWORK CREATE

Create new network

Usage:

```
openstack network create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--share | --no-share]
                        [--enable | --disable] [--project <project>]
                        [--description <description>] [--mtu <mtu>]
                        [--project-domain <project-domain>]
                        [--availability-zone-hint <availability-zone>]
                        [--enable-port-security | --disable-port-security]
                        [--external | --internal]
                        [--default | --no-default]
                        [--qos-policy <qos-policy>]
                        [--transparent-vlan | --no-transparent-vlan]
                        [--provider-network-type <provider-network-type>]
                        [--provider-physical-network <provider-physical-network>]
                        [--provider-segment <provider-segment>]
                        [--dns-domain <dns-domain>]
                        [--tag <tag> | --no-tag]
                        <name>
```

Table 52.30. Positional arguments

Value	Summary
<name>	New network name

Table 52.31. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Value	Summary
--share	Share the network between projects
--no-share	Do not share the network between projects
--enable	Enable network (default)
--disable	Disable network
--project <project>	Owner's project (name or id)
--description <description>	Set network description
--mtu <mtu>	Set network mtu
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--availability-zone-hint <availability-zone>	Availability zone in which to create this network (Network Availability Zone extension required, repeat option to set multiple availability zones)
--enable-port-security	Enable port security by default for ports created on this network (default)
--disable-port-security	Disable port security by default for ports created on this network
--external	Set this network as an external network (external-net extension required)
--internal	Set this network as an internal network (default)
--default	Specify if this network should be used as the default external network
--no-default	Do not use the network as the default external network (default)
--qos-policy <qos-policy>	Qos policy to attach to this network (name or id)
--transparent-vlan	Make the network vlan transparent
--no-transparent-vlan	Do not make the network vlan transparent

Value	Summary
<code>--provider-network-type <provider-network-type></code>	The physical mechanism by which the virtual network is implemented. For example: flat, geneve, gre, local, vlan, vxlan.
<code>--provider-physical-network <provider-physical-network></code>	Name of the physical network over which the virtual network is implemented
<code>--provider-segment <provider-segment></code>	Vlan id for vlan networks or tunnel id for GENEVE/GRE/VXLAN networks
<code>--dns-domain <dns-domain></code>	Set dns domain for this network (requires dns integration extension)
<code>--tag <tag></code>	Tag to be added to the network (repeat option to set multiple tags)
<code>--no-tag</code>	No tags associated with the network

Table 52.32. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 52.33. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 52.34. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 52.35. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

52.12. NETWORK DELETE

Delete network(s)

Usage:

```
openstack network delete [-h] <network> [<network> ...]
```

Table 52.36. Positional arguments

Value	Summary
<code><network></code>	Network(s) to delete (name or id)

Table 52.37. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

52.13. NETWORK FLAVOR ADD PROFILE

Add a service profile to a network flavor

Usage:

```
openstack network flavor add profile [-h] <flavor> <service-profile>
```

Table 52.38. Positional arguments

Value	Summary
<code><flavor></code>	Network flavor (name or id)
<code><service-profile></code>	Service profile (id only)

Value	Summary
-------	---------

Table 52.39. Command arguments

Value	Summary
-h, --help	Show this help message and exit

52.14. NETWORK FLAVOR CREATE

Create new network flavor

Usage:

```

openstack network flavor create [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty] --service-type
                                <service-type>
                                [--description DESCRIPTION]
                                [--project <project>]
                                [--project-domain <project-domain>]
                                [--enable | --disable]
                                <name>

```

Table 52.40. Positional arguments

Value	Summary
<name>	Name for the flavor

Table 52.41. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--service-type <service-type>	Service type to which the flavor applies to: e.g. vpn (See openstack network service provider list for loaded examples.)
--description DESCRIPTION	Description for the flavor
--project <project>	Owner's project (name or id)

Value	Summary
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
<code>--enable</code>	Enable the flavor (default)
<code>--disable</code>	Disable the flavor

Table 52.42. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 52.43. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 52.44. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 52.45. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

52.15. NETWORK FLAVOR DELETE

Delete network flavors

Usage:

```
openstack network flavor delete [-h] <flavor> [<flavor> ...]
```

Table 52.46. Positional arguments

Value	Summary
<flavor>	Flavor(s) to delete (name or id)

Table 52.47. Command arguments

Value	Summary
-h, --help	Show this help message and exit

52.16. NETWORK FLAVOR LIST

List network flavors

Usage:

```
openstack network flavor list [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN]
```

Table 52.48. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 52.49. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Value	Summary
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 52.50. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 52.51. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 52.52. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

52.17. NETWORK FLAVOR PROFILE CREATE

Create new network flavor profile

Usage:

```

openstack network flavor profile create [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--project <project>]
                                         [--project-domain <project-domain>]
                                         [--description <description>]

```

```

[--enable | --disable]
[--driver DRIVER]
[--metainfo METAINFO]

```

Table 52.53. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--project <project>	Owner's project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--description <description>	Description for the flavor profile
--enable	Enable the flavor profile
--disable	Disable the flavor profile
--driver DRIVER	Python module path to driver. this becomes required if --metainfo is missing and vice versa
--metainfo METAINFO	Metainfo for the flavor profile. this becomes required if --driver is missing and vice versa

Table 52.54. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 52.55. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.56. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 52.57. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

52.18. NETWORK FLAVOR PROFILE DELETE

Delete network flavor profile

Usage:

```
openstack network flavor profile delete [-h]
                                     <flavor-profile>
                                     [<flavor-profile> ...]
```

Table 52.58. Positional arguments

Value	Summary
<flavor-profile>	Flavor profile(s) to delete (id only)

Table 52.59. Command arguments

Value	Summary
-h, --help	Show this help message and exit

52.19. NETWORK FLAVOR PROFILE LIST

List network flavor profile(s)

Usage:

```
openstack network flavor profile list [-h]
```

```
[-f {csv,json,table,value,yaml}]
[-c COLUMN]
[--quote {all,minimal,none,nonnumeric}]
[--noindent]
[--max-width <integer>]
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]
```

Table 52.60. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 52.61. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 52.62. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 52.63. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.64. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

52.20. NETWORK FLAVOR PROFILE SET

Set network flavor profile properties

Usage:

```

openstack network flavor profile set [-h]
                                     [--project-domain <project-domain>]
                                     [--description <description>]
                                     [--enable | --disable]
                                     [--driver DRIVER]
                                     [--metainfo METAINFO]
                                     <flavor-profile>

```

Table 52.65. Positional arguments

Value	Summary
<flavor-profile>	Flavor profile to update (id only)

Table 52.66. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--description <description>	Description for the flavor profile
--enable	Enable the flavor profile
--disable	Disable the flavor profile
--driver DRIVER	Python module path to driver. this becomes required if --metainfo is missing and vice versa

Value	Summary
<code>--metainfo METAINFO</code>	Metainfo for the flavor profile. this becomes required if <code>--driver</code> is missing and vice versa

52.21. NETWORK FLAVOR PROFILE SHOW

Display network flavor profile details

Usage:

```
openstack network flavor profile show [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     <flavor-profile>
```

Table 52.67. Positional arguments

Value	Summary
<code><flavor-profile></code>	Flavor profile to display (id only)

Table 52.68. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 52.69. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 52.70. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 52.71. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 52.72. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

52.22. NETWORK FLAVOR REMOVE PROFILE

Remove service profile from network flavor

Usage:

```
openstack network flavor remove profile [-h] <flavor> <service-profile>
```

Table 52.73. Positional arguments

Value	Summary
<code><flavor></code>	Network flavor (name or id)
<code><service-profile></code>	Service profile (id only)

Table 52.74. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

52.23. NETWORK FLAVOR SET

Set network flavor properties

Usage:

```
openstack network flavor set [-h] [--description DESCRIPTION]
                             [--disable | --enable] [--name <name>]
                             <flavor>
```

Table 52.75. Positional arguments

Value	Summary
<flavor>	Flavor to update (name or id)

Table 52.76. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--description DESCRIPTION	Set network flavor description
--disable	Disable network flavor
--enable	Enable network flavor
--name <name>	Set flavor name

52.24. NETWORK FLAVOR SHOW

Display network flavor details

Usage:

```
openstack network flavor show [-h] [-f {json,shell,table,value,yaml}]
                              [-c COLUMN] [--noindent]
                              [--prefix PREFIX] [--max-width <integer>]
                              [--fit-width] [--print-empty]
                              <flavor>
```

Table 52.77. Positional arguments

Value	Summary
<flavor>	Flavor to display (name or id)

Table 52.78. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 52.79. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 52.80. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 52.81. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 52.82. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

52.25. NETWORK LIST

List networks

Usage:

```
openstack network list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN]
                        [--external | --internal] [--long]
```

```

[--name <name>] [--enable | --disable]
[--project <project>]
[--project-domain <project-domain>]
[--share | --no-share] [--status <status>]
[--provider-network-type <provider-network-type>]
[--provider-physical-network <provider-physical-network>]
[--provider-segment <provider-segment>]
[--agent <agent-id>] [--tags <tag>[,<tag>,...]]
[--any-tags <tag>[,<tag>,...]]
[--not-tags <tag>[,<tag>,...]]
[--not-any-tags <tag>[,<tag>,...]]

```

Table 52.83. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--external	List external networks
--internal	List internal networks
--long	List additional fields in output
--name <name>	List networks according to their name
--enable	List enabled networks
--disable	List disabled networks
--project <project>	List networks according to their project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--share	List networks shared between projects
--no-share	List networks not shared between projects
--status <status>	List networks according to their status (<i>active</i> , <i>BUILD</i> , <i>DOWN</i> , <i>ERROR</i>)
--provider-network-type <provider-network-type>	List networks according to their physical mechanisms. The supported options are: flat, geneve, gre, local, vlan, vxlan.
--provider-physical-network <provider-physical-network>	List networks according to name of the physical network

Value	Summary
<code>--provider-segment <provider-segment></code>	List networks according to vlan id for vlan networks or Tunnel ID for GENEVE/GRE/VXLAN networks
<code>--agent <agent-id></code>	List networks hosted by agent (id only)
<code>--tags <tag>[,<tag>,...]</code>	List networks which have all given tag(s) (comma-separated list of tags)
<code>--any-tags <tag>[,<tag>,...]</code>	List networks which have any given tag(s) (comma-separated list of tags)
<code>--not-tags <tag>[,<tag>,...]</code>	Exclude networks which have all given tag(s) (comma-separated list of tags)
<code>--not-any-tags <tag>[,<tag>,...]</code>	Exclude networks which have any given tag(s) (comma-separated list of tags)

Table 52.84. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 52.85. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 52.86. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 52.87. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

52.26. NETWORK LOG CREATE

Create a new network log

Usage:

```
openstack network log create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             [--description <description>]
                             [--enable | --disable]
                             [--project <project>]
                             [--project-domain <project-domain>]
                             [--event {ALL,ACCEPT,DROP}]
                             --resource-type <resource-type>
                             [--resource <resource>]
                             [--target <target>]
                             <name>
```

Table 52.88. Positional arguments

Value	Summary
<code><name></code>	Name for the network log

Table 52.89. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--description <description></code>	Description of the network log
<code>--enable</code>	Enable this log (default is disabled)
<code>--disable</code>	Disable this log

Value	Summary
<code>--project <project></code>	Owner's project (name or id)
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
<code>--event {ALL,ACCEPT,DROP}</code>	An event to store with log
<code>--resource-type <resource-type></code>	Network log type(s). you can see supported type(s) with following command: <code>\$ openstack network loggable resources list</code>
<code>--resource <resource></code>	Name or id of resource (security group or firewall group) that used for logging. You can control for logging target combination with <code>--target</code> option.
<code>--target <target></code>	Port (name or id) for logging. you can control for logging target combination with <code>--resource</code> option.

Table 52.90. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 52.91. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 52.92. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 52.93. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

52.27. NETWORK LOG DELETE

Delete network log(s)

Usage:

```
openstack network log delete [-h] <network-log> [<network-log> ...]
```

Table 52.94. Positional arguments

Value	Summary
<code><network-log></code>	Network log(s) to delete (name or id)

Table 52.95. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

52.28. NETWORK LOG LIST

List network logs

Usage:

```
openstack network log list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN] [--long]
```

Table 52.96. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output

Table 52.97. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 52.98. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 52.99. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.100. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

52.29. NETWORK LOG SET

Set network log properties

Usage:

```
openstack network log set [-h] [--description <description>]
                          [--enable | --disable] [--name <name>]
                          <network-log>
```

Table 52.101. Positional arguments

Value	Summary
<network-log>	Network log to set (name or id)

Table 52.102. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Description of the network log
--enable	Enable this log (default is disabled)
--disable	Disable this log
--name <name>	Name of the network log

52.30. NETWORK LOG SHOW

Display network log details

Usage:

```
openstack network log show [-h] [-f {json,shell,table,value,yaml}]
                            [-c COLUMN] [--noindent] [--prefix PREFIX]
                            [--max-width <integer>] [--fit-width]
                            [--print-empty]
                            <network-log>
```

Table 52.103. Positional arguments

Value	Summary
<network-log>	Network log to show (name or id)

Table 52.104. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 52.105. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 52.106. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.107. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 52.108. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

52.31. NETWORK LOGGABLE RESOURCES LIST

List supported loggable resources

Usage:

```
openstack network loggable resources list [-h]
```

```

[-f {csv,json,table,value,yaml}]
[-c COLUMN]
[--quote {all,minimal,none,nonnumeric}]
[--noindent]
[--max-width <integer>]
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]
[--long]

```

Table 52.109. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output

Table 52.110. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 52.111. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 52.112. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.113. Table formatter options

Value	Summary
-------	---------

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

52.32. NETWORK METER CREATE

Create network meter

Usage:

```

openstack network meter create [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty]
                               [--description <description>]
                               [--project <project>]
                               [--project-domain <project-domain>]
                               [--share | --no-share]
                               <name>

```

Table 52.114. Positional arguments

Value	Summary
<code><name></code>	Name of meter

Table 52.115. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--description <description></code>	Create description for meter
<code>--project <project></code>	Owner's project (name or id)

Value	Summary
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
<code>--share</code>	Share meter between projects
<code>--no-share</code>	Do not share meter between projects

Table 52.116. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 52.117. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 52.118. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 52.119. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

52.33. NETWORK METER DELETE

Delete network meter

Usage:

```
openstack network meter delete [-h] <meter> [<meter> ...]
```

Table 52.120. Positional arguments

Value	Summary
<meter>	Meter to delete (name or id)

Table 52.121. Command arguments

Value	Summary
-h, --help	Show this help message and exit

52.34. NETWORK METER LIST

List network meters

Usage:

```
openstack network meter list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
```

Table 52.122. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 52.123. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Value	Summary
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 52.124. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 52.125. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 52.126. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

52.35. NETWORK METER RULE CREATE

Create a new meter rule

Usage:

```
openstack network meter rule create [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--project <project>]
                                     [--project-domain <project-domain>]
                                     [--exclude | --include]
                                     [--ingress | --egress]
```

```
--remote-ip-prefix
<remote-ip-prefix>
<meter>
```

Table 52.127. Positional arguments

Value	Summary
<meter>	Label to associate with this metering rule (name or ID)

Table 52.128. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--project <project>	Owner's project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--exclude	Exclude remote ip prefix from traffic count
--include	Include remote ip prefix from traffic count (default)
--ingress	Apply rule to incoming network traffic (default)
--egress	Apply rule to outgoing network traffic
--remote-ip-prefix <remote-ip-prefix>	The remote ip prefix to associate with this rule

Table 52.129. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 52.130. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.131. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 52.132. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

52.36. NETWORK METER RULE DELETE

Delete meter rule(s)

Usage:

```
openstack network meter rule delete [-h]
                                     <meter-rule-id>
                                     [<meter-rule-id> ...]
```

Table 52.133. Positional arguments

Value	Summary
<meter-rule-id>	Meter rule to delete (id only)

Table 52.134. Command arguments

Value	Summary
-h, --help	Show this help message and exit

52.37. NETWORK METER RULE LIST

List meter rules

Usage:

```

openstack network meter rule list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]

```

Table 52.135. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 52.136. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 52.137. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 52.138. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.139. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

52.38. NETWORK METER RULE SHOW

Display meter rules details

Usage:

```
openstack network meter rule show [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <meter-rule-id>
```

Table 52.140. Positional arguments

Value	Summary
<meter-rule-id>	Meter rule (id only)

Table 52.141. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 52.142. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 52.143. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.144. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 52.145. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

52.39. NETWORK METER SHOW

Show network meter

Usage:

```
openstack network meter show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             <meter>
```

Table 52.146. Positional arguments

Value	Summary
<meter>	Meter to display (name or id)

Table 52.147. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 52.148. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 52.149. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 52.150. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 52.151. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

52.40. NETWORK ONBOARD SUBNETS

Onboard network subnets into a subnet pool

Usage:

```
openstack network onboard subnets [-h] <network> <subnetpool>
```

Table 52.152. Positional arguments

Value	Summary
<network>	Onboard all subnets associated with this network
<subnetpool>	Target subnet pool for onboarding subnets

Table 52.153. Command arguments

Value	Summary
-h, --help	Show this help message and exit

52.41. NETWORK QoS POLICY CREATE

Create a QoS policy

Usage:

```

openstack network qos policy create [-h]
                                   [-f {json,shell,table,value,yaml}]
                                   [-c COLUMN] [--noindent]
                                   [--prefix PREFIX]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   [--description <description>]
                                   [--share | --no-share]
                                   [--project <project>]
                                   [--project-domain <project-domain>]
                                   [--default | --no-default]
                                   <name>

```

Table 52.154. Positional arguments

Value	Summary
<name>	Name of qos policy to create

Table 52.155. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Description of the qos policy
--share	Make the qos policy accessible by other projects

Value	Summary
--no-share	Make the qos policy not accessible by other projects (default)
--project <project>	Owner's project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--default	Set this as a default network qos policy
--no-default	Set this as a non-default network qos policy

Table 52.156. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 52.157. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.158. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 52.159. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

52.42. NETWORK QOS POLICY DELETE

Delete Qos Policy(s)

Usage:

```
openstack network qos policy delete [-h]
                                   <qos-policy> [<qos-policy> ...]
```

Table 52.160. Positional arguments

Value	Summary
<qos-policy>	Qos policy(s) to delete (name or id)

Table 52.161. Command arguments

Value	Summary
-h, --help	Show this help message and exit

52.43. NETWORK QOS POLICY LIST

List QoS policies

Usage:

```
openstack network qos policy list [-h] [-f {csv,json,table,value,yaml}]
                                   [-c COLUMN]
                                   [--quote {all,minimal,none,nonnumeric}]
                                   [--noindent] [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   [--sort-column SORT_COLUMN]
                                   [--project <project>]
                                   [--project-domain <project-domain>]
                                   [--share | --no-share]
```

Table 52.162. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--project <project>	List qos policies according to their project (name or ID)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--share	List qos policies shared between projects
--no-share	List qos policies not shared between projects

Table 52.163. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 52.164. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 52.165. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.166. Table formatter options

Value	Summary
-------	---------

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

52.44. NETWORK QOS POLICY SET

Set QoS policy properties

Usage:

```
openstack network qos policy set [-h] [--name <name>]
                                [--description <description>]
                                [--share | --no-share]
                                [--default | --no-default]
                                <qos-policy>
```

Table 52.167. Positional arguments

Value	Summary
<code><qos-policy></code>	Qos policy to modify (name or id)

Table 52.168. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--name <name></code>	Set qos policy name
<code>--description <description></code>	Description of the qos policy
<code>--share</code>	Make the qos policy accessible by other projects
<code>--no-share</code>	Make the qos policy not accessible by other projects
<code>--default</code>	Set this as a default network qos policy
<code>--no-default</code>	Set this as a non-default network qos policy

52.45. NETWORK QOS POLICY SHOW

Display QoS policy details

Usage:

```
openstack network qos policy show [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <qos-policy>
```

Table 52.169. Positional arguments

Value	Summary
<qos-policy>	Qos policy to display (name or id)

Table 52.170. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 52.171. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 52.172. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.173. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 52.174. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

52.46. NETWORK QOS RULE CREATE

Create new Network QoS rule

Usage:

```
openstack network qos rule create [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty] [--type <type>]
                                [--max-kbps <max-kbps>]
                                [--max-burst-kbits <max-burst-kbits>]
                                [--dscp-mark <dscp-mark>]
                                [--min-kbps <min-kbps>]
                                [--ingress | --egress]
                                <qos-policy>
```

Table 52.175. Positional arguments

Value	Summary
<code><qos-policy></code>	Qos policy that contains the rule (name or id)

Table 52.176. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--type <type></code>	Qos rule type (minimum-bandwidth, dscp-marking, bandwidth-limit)
<code>--max-kbps <max-kbps></code>	Maximum bandwidth in kbps

Value	Summary
<code>--max-burst-kbits <max-burst-kbits></code>	Maximum burst in kilobits, 0 or not specified means automatic, which is 80% of the bandwidth limit, which works for typical TCP traffic. For details check the QoS user workflow.
<code>--dscp-mark <dscp-mark></code>	Dscp mark: value can be 0, even numbers from 8-56, excluding 42, 44, 50, 52, and 54
<code>--min-kbps <min-kbps></code>	Minimum guaranteed bandwidth in kbps
<code>--ingress</code>	Ingress traffic direction from the project point of view
<code>--egress</code>	Egress traffic direction from the project point of view

Table 52.177. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 52.178. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 52.179. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 52.180. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

52.47. NETWORK QOS RULE DELETE

Delete Network QoS rule

Usage:

```
openstack network qos rule delete [-h] <qos-policy> <rule-id>
```

Table 52.181. Positional arguments

Value	Summary
<qos-policy>	Qos policy that contains the rule (name or id)
<rule-id>	Network qos rule to delete (id)

Table 52.182. Command arguments

Value	Summary
-h, --help	Show this help message and exit

52.48. NETWORK QOS RULE LIST

List Network QoS rules

Usage:

```
openstack network qos rule list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                <qos-policy>
```

Table 52.183. Positional arguments

Value	Summary
<qos-policy>	Qos policy that contains the rule (name or id)

Table 52.184. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 52.185. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 52.186. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 52.187. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.188. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

52.49. NETWORK QOS RULE SET

Set Network QoS rule properties

Usage:

```
openstack network qos rule set [-h] [--max-kbps <max-kbps>]
                               [--max-burst-kbits <max-burst-kbits>]
                               [--dscp-mark <dscp-mark>]
                               [--min-kbps <min-kbps>]
                               [--ingress | --egress]
                               <qos-policy> <rule-id>
```

Table 52.189. Positional arguments

Value	Summary
<qos-policy>	Qos policy that contains the rule (name or id)
<rule-id>	Network qos rule to delete (id)

Table 52.190. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--max-kbps <max-kbps>	Maximum bandwidth in kbps
--max-burst-kbits <max-burst-kbits>	Maximum burst in kilobits, 0 or not specified means automatic, which is 80% of the bandwidth limit, which works for typical TCP traffic. For details check the QoS user workflow.
--dscp-mark <dscp-mark>	Dscp mark: value can be 0, even numbers from 8-56, excluding 42, 44, 50, 52, and 54
--min-kbps <min-kbps>	Minimum guaranteed bandwidth in kbps

Value	Summary
--ingress	Ingress traffic direction from the project point of view
--egress	Egress traffic direction from the project point of view

52.50. NETWORK QOS RULE SHOW

Display Network QoS rule details

Usage:

```
openstack network qos rule show [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <qos-policy> <rule-id>
```

Table 52.191. Positional arguments

Value	Summary
<qos-policy>	Qos policy that contains the rule (name or id)
<rule-id>	Network qos rule to delete (id)

Table 52.192. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 52.193. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 52.194. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 52.195. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 52.196. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

52.51. NETWORK QOS RULE TYPE LIST

List QoS rule types

Usage:

```

openstack network qos rule type list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]

```

Table 52.197. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 52.198. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 52.199. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 52.200. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 52.201. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

52.52. NETWORK QOS RULE TYPE SHOW

Show details about supported QoS rule type

Usage:

```
openstack network qos rule type show [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
```

```

[--max-width <integer>]
[--fit-width] [--print-empty]
<qos-rule-type-name>

```

Table 52.202. Positional arguments

Value	Summary
<qos-rule-type-name>	Name of qos rule type

Table 52.203. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 52.204. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 52.205. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.206. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 52.207. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

52.53. NETWORK RBAC CREATE

Create network RBAC policy

Usage:

```
openstack network rbac create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent]
                             [--prefix PREFIX] [--max-width <integer>]
                             [--fit-width] [--print-empty] --type
                             <type> --action <action>
                             [--target-project <target-project> | --target-all-projects]
                             [--target-project-domain <target-project-domain>]
                             [--project <project>]
                             [--project-domain <project-domain>]
                             <rbac-object>
```

Table 52.208. Positional arguments

Value	Summary
<rbac-object>	The object to which this rbac policy affects (name or ID)

Table 52.209. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--type <type>	Type of the object that rbac policy affects ("security_group", "qos_policy" or "network")
--action <action>	Action for the rbac policy ("access_as_external" or "access_as_shared")
--target-project <target-project>	The project to which the rbac policy will be enforced (name or ID)

Value	Summary
<code>--target-all-projects</code>	Allow creating rbac policy for all projects.
<code>--target-project-domain <target-project-domain></code>	Domain the target project belongs to (name or id). This can be used in case collisions between project names exist.
<code>--project <project></code>	The owner project (name or id)
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 52.210. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 52.211. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 52.212. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 52.213. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show.

52.54. NETWORK RBAC DELETE

Delete network RBAC policy(s)

Usage:

```
openstack network rbac delete [-h] <rbac-policy> [<rbac-policy> ...]
```

Table 52.214. Positional arguments

Value	Summary
<code><rbac-policy></code>	Rbac policy(s) to delete (id only)

Table 52.215. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

52.55. NETWORK RBAC LIST

List network RBAC policies

Usage:

```
openstack network rbac list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN] [--type <type>]
                             [--action <action>] [--long]
```

Table 52.216. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--type <type></code>	List network rbac policies according to given object type ("security_group", "qos_policy" or "network")

Value	Summary
<code>--action <action></code>	List network rbac policies according to given action ("access_as_external" or "access_as_shared")
<code>--long</code>	List additional fields in output

Table 52.217. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 52.218. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 52.219. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 52.220. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

52.56. NETWORK RBAC SET

Set network RBAC policy properties

Usage:

```
openstack network rbac set [-h] [--target-project <target-project>]
                          [--target-project-domain <target-project-domain>]
                          <rbac-policy>
```

Table 52.221. Positional arguments

Value	Summary
<rbac-policy>	Rbac policy to be modified (id only)

Table 52.222. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--target-project <target-project>	The project to which the rbac policy will be enforced (name or ID)
--target-project-domain <target-project-domain>	Domain the target project belongs to (name or id). This can be used in case collisions between project names exist.

52.57. NETWORK RBAC SHOW

Display network RBAC policy details

Usage:

```
openstack network rbac show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             <rbac-policy>
```

Table 52.223. Positional arguments

Value	Summary
<rbac-policy>	Rbac policy (id only)

Table 52.224. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 52.225. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 52.226. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.227. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 52.228. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

52.58. NETWORK SEGMENT CREATE

Create new network segment

Usage:

```
openstack network segment create [-h]
```

```

[-f {json,shell,table,value,yaml}]
[-c COLUMN] [--noindent]
[--prefix PREFIX]
[--max-width <integer>] [--fit-width]
[--print-empty]
[--description <description>]
[--physical-network <physical-network>]
[--segment <segment>] --network
<network> --network-type
<network-type>
<name>

```

Table 52.229. Positional arguments

Value	Summary
<name>	New network segment name

Table 52.230. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Network segment description
--physical-network <physical-network>	Physical network name of this network segment
--segment <segment>	Segment identifier for this network segment which is based on the network type, VLAN ID for vlan network type and tunnel ID for geneve, gre and vxlan network types
--network <network>	Network this network segment belongs to (name or id)
--network-type <network-type>	Network type of this network segment (flat, geneve, gre, local, vlan or vxlan)

Table 52.231. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 52.232. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.233. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 52.234. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

52.59. NETWORK SEGMENT DELETE

Delete network segment(s)

Usage:

```
openstack network segment delete [-h]
                                <network-segment>
                                [<network-segment> ...]
```

Table 52.235. Positional arguments

Value	Summary
<network-segment>	Network segment(s) to delete (name or id)

Table 52.236. Command arguments

Value	Summary
-h, --help	Show this help message and exit

52.60. NETWORK SEGMENT LIST

List network segments

Usage:

```
openstack network segment list [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN] [--long]
                               [--network <network>]
```

Table 52.237. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output
--network <network>	List network segments that belong to this network (name or ID)

Table 52.238. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 52.239. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 52.240. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.241. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

52.61. NETWORK SEGMENT RANGE CREATE

Create new network segment range

Usage:

```

openstack network segment range create [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--private | --shared]
                                     [--project <project>]
                                     [--project-domain <project-domain>]
                                     --network-type <network-type>
                                     [--physical-network <physical-network-name>]
                                     --minimum
                                     <minimum-segmentation-id>
                                     --maximum
                                     <maximum-segmentation-id>
                                     <name>

```

Table 52.242. Positional arguments

Value	Summary
<name>	Name of new network segment range

Table 52.243. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--private	Network segment range is assigned specifically to the project
--shared	Network segment range is shared with other projects
--project <project>	Network segment range owner (name or id). optional when the segment range is shared
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--network-type <network-type>	Network type of this network segment range (geneve, gre, vlan or vxlan)
--physical-network <physical-network-name>	Physical network name of this network segment range
--minimum <minimum-segmentation-id>	Minimum segment identifier for this network segment range which is based on the network type, VLAN ID for vlan network type and tunnel ID for geneve, gre and vxlan network types
--maximum <maximum-segmentation-id>	Maximum segment identifier for this network segment range which is based on the network type, VLAN ID for vlan network type and tunnel ID for geneve, gre and vxlan network types

Table 52.244. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 52.245. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.246. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 52.247. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

52.62. NETWORK SEGMENT RANGE DELETE

Delete network segment range(s)

Usage:

```
openstack network segment range delete [-h]
                                     <network-segment-range>
                                     [<network-segment-range> ...]
```

Table 52.248. Positional arguments

Value	Summary
<network-segment-range>	Network segment range(s) to delete (name or id)

Table 52.249. Command arguments

Value	Summary
-h, --help	Show this help message and exit

52.63. NETWORK SEGMENT RANGE LIST

List network segment ranges

Usage:

```
openstack network segment range list [-h]
```

```

[-f {csv,json,table,value,yaml}]
[-c COLUMN]
[--quote {all,minimal,none,nonnumeric}]
[--noindent]
[--max-width <integer>]
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]
[--long] [--used | --unused]
[--available | --unavailable]

```

Table 52.250. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output
--used	List network segment ranges that have segments in use
--unused	List network segment ranges that have segments not in use
--available	List network segment ranges that have available segments
--unavailable	List network segment ranges without available segments

Table 52.251. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 52.252. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 52.253. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.254. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

52.64. NETWORK SEGMENT RANGE SET

Set network segment range properties

Usage:

```
openstack network segment range set [-h] [--name <name>]
                                     [--minimum <minimum-segmentation-id>]
                                     [--maximum <maximum-segmentation-id>]
                                     <network-segment-range>
```

Table 52.255. Positional arguments

Value	Summary
<network-segment-range>	Network segment range to modify (name or id)

Table 52.256. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set network segment name
--minimum <minimum-segmentation-id>	Set network segment range minimum segment identifier

Value	Summary
<code>--maximum <maximum-segmentation-id></code>	Set network segment range maximum segment identifier

52.65. NETWORK SEGMENT RANGE SHOW

Display network segment range details

Usage:

```
openstack network segment range show [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     <network-segment-range>
```

Table 52.257. Positional arguments

Value	Summary
<code><network-segment-range></code>	Network segment range to display (name or id)

Table 52.258. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 52.259. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 52.260. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 52.261. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 52.262. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

52.66. NETWORK SEGMENT SET

Set network segment properties

Usage:

```
openstack network segment set [-h] [--description <description>]
                               [--name <name>]
                               <network-segment>
```

Table 52.263. Positional arguments

Value	Summary
<code><network-segment></code>	Network segment to modify (name or id)

Table 52.264. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--description <description></code>	Set network segment description
<code>--name <name></code>	Set network segment name

52.67. NETWORK SEGMENT SHOW

Display network segment details

Usage:

```
openstack network segment show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty]
                               <network-segment>
```

Table 52.265. Positional arguments

Value	Summary
<network-segment>	Network segment to display (name or id)

Table 52.266. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 52.267. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 52.268. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.269. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 52.270. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

52.68. NETWORK SERVICE PROVIDER LIST

List Service Providers

Usage:

```

openstack network service provider list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--sort-column SORT_COLUMN]

```

Table 52.271. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 52.272. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 52.273. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 52.274. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.275. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

52.69. NETWORK SET

Set network properties

Usage:

```
openstack network set [-h] [--name <name>] [--enable | --disable]
                    [--share | --no-share]
                    [--description <description>] [--mtu <mtu>]
                    [--enable-port-security | --disable-port-security]
                    [--external | --internal]
                    [--default | --no-default]
                    [--qos-policy <qos-policy> | --no-qos-policy]
                    [--tag <tag>] [--no-tag]
                    [--provider-network-type <provider-network-type>]
                    [--provider-physical-network <provider-physical-network>]
                    [--provider-segment <provider-segment>]
                    [--dns-domain <dns-domain>]
                    <network>
```

Table 52.276. Positional arguments

Value	Summary
<network>	Network to modify (name or id)

Table 52.277. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set network name
--enable	Enable network
--disable	Disable network
--share	Share the network between projects
--no-share	Do not share the network between projects
--description <description>	Set network description
--mtu <mtu>	Set network mtu
--enable-port-security	Enable port security by default for ports created on this network
--disable-port-security	Disable port security by default for ports created on this network
--external	Set this network as an external network (external-net extension required)
--internal	Set this network as an internal network
--default	Set the network as the default external network
--no-default	Do not use the network as the default external network
--qos-policy <qos-policy>	Qos policy to attach to this network (name or id)
--no-qos-policy	Remove the qos policy attached to this network
--tag <tag>	Tag to be added to the network (repeat option to set multiple tags)

Value	Summary
<code>--no-tag</code>	Clear tags associated with the network. specify both <code>--tag</code> and <code>--no-tag</code> to overwrite current tags
<code>--provider-network-type <provider-network-type></code>	The physical mechanism by which the virtual network is implemented. For example: flat, geneve, gre, local, vlan, vxlan.
<code>--provider-physical-network <provider-physical-network></code>	Name of the physical network over which the virtual network is implemented
<code>--provider-segment <provider-segment></code>	Vlan id for vlan networks or tunnel id for GENEVE/GRE/VXLAN networks
<code>--dns-domain <dns-domain></code>	Set dns domain for this network (requires dns integration extension)

52.70. NETWORK SHOW

Show network details

Usage:

```
openstack network show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        <network>
```

Table 52.278. Positional arguments

Value	Summary
<code><network></code>	Network to display (name or id)

Table 52.279. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 52.280. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table

Value	Summary
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 52.281. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.282. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 52.283. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

52.71. NETWORK SUPPORT LIST

List all subports for a given network trunk

Usage:

```
openstack network subport list [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN] --trunk
                               <trunk>
```

Table 52.284. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--trunk <trunk>	List subports belonging to this trunk (name or id)

Table 52.285. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 52.286. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 52.287. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.288. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

52.72. NETWORK TRUNK CREATE

Create a network trunk for a given project

Usage:

```
openstack network trunk create [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty]
                               [--description <description>]
                               --parent-port <parent-port>
                               [--subport <port=,segmentation-type=,segmentation-id=>]
                               [--enable | --disable]
                               [--project <project>]
                               [--project-domain <project-domain>]
                               <name>
```

Table 52.289. Positional arguments

Value	Summary
<name>	Name of the trunk to create

Table 52.290. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	A description of the trunk
--parent-port <parent-port>	Parent port belonging to this trunk (name or id)
--subport <port=,segmentation-type=,segmentation-id=>	Subport to add. subport is of form <i>port=<name or ID>,segmentation-type=,segmentation-ID=</i> (--subport) option can be repeated
--enable	Enable trunk (default)
--disable	Disable trunk
--project <project>	Owner's project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 52.291. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 52.292. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 52.293. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 52.294. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

52.73. NETWORK TRUNK DELETE

Delete a given network trunk

Usage:

```
openstack network trunk delete [-h] <trunk> [<trunk> ...]
```

Table 52.295. Positional arguments

Value	Summary
<code><trunk></code>	Trunk(s) to delete (name or id)

Table 52.296. Command arguments

Value	Summary
-h, --help	Show this help message and exit

52.74. NETWORK TRUNK LIST

List all network trunks

Usage:

```
openstack network trunk list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN] [--long]
```

Table 52.297. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output

Table 52.298. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 52.299. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 52.300. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.301. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

52.75. NETWORK TRUNK SET

Set network trunk properties

Usage:

```
openstack network trunk set [-h] [--name <name>]
                             [--description <description>]
                             [--subport <port=,segmentation-type=,segmentation-id=>]
                             [--enable | --disable]
                             <trunk>
```

Table 52.302. Positional arguments

Value	Summary
<trunk>	Trunk to modify (name or id)

Table 52.303. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set trunk name
--description <description>	A description of the trunk

Value	Summary
<code>--subport <port=,segmentation-type=,segmentation-id=></code>	Subport to add. subport is of form <i>port=<name or ID>,segmentation-type=,segmentation-ID=(--subport)</i> option can be repeated
<code>--enable</code>	Enable trunk
<code>--disable</code>	Disable trunk

52.76. NETWORK TRUNK SHOW

Show information of a given network trunk

Usage:

```
openstack network trunk show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             <trunk>
```

Table 52.304. Positional arguments

Value	Summary
<code><trunk></code>	Trunk to display (name or id)

Table 52.305. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 52.306. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 52.307. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 52.308. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 52.309. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

52.77. NETWORK TRUNK UNSET

Unset subports from a given network trunk

Usage:

```
openstack network trunk unset [-h] --subport <subport> <trunk>
```

Table 52.310. Positional arguments

Value	Summary
<trunk>	Unset subports from this trunk (name or id)

Table 52.311. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--subport <subport>	Subport to delete (name or id of the port) (--subport) option can be repeated

52.78. NETWORK UNSET

Unset network properties

Usage:

```
openstack network unset [-h] [--tag <tag> | --all-tag] <network>
```

Table 52.312. Positional arguments

Value	Summary
<network>	Network to modify (name or id)

Table 52.313. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--tag <tag>	Tag to be removed from the network (repeat option to remove multiple tags)
--all-tag	Clear all tags associated with the network

CHAPTER 53. OBJECT

This chapter describes the commands under the **object** command.

53.1. OBJECT CREATE

Upload object to container

Usage:

```
openstack object create [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--name <name>]
                        <container> <filename> [<filename> ...]
```

Table 53.1. Positional arguments

Value	Summary
<container>	Container for new object
<filename>	Local filename(s) to upload

Table 53.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Upload a file and rename it. can only be used when uploading a single object

Table 53.3. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 53.4. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 53.5. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 53.6. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

53.2. OBJECT DELETE

Delete object from container

Usage:

```
openstack object delete [-h] <container> <object> [<object> ...]
```

Table 53.7. Positional arguments

Value	Summary
<code><container></code>	Delete object(s) from <container>
<code><object></code>	Object(s) to delete

Table 53.8. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

53.3. OBJECT LIST

List objects

Usage:

```
openstack object list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>]
                    [--fit-width] [--print-empty]
                    [--sort-column SORT_COLUMN] [--prefix <prefix>]
                    [--delimiter <delimiter>] [--marker <marker>]
                    [--end-marker <end-marker>]
                    [--limit <num-objects>] [--long] [--all]
                    <container>
```

Table 53.9. Positional arguments

Value	Summary
<container>	Container to list

Table 53.10. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--prefix <prefix>	Filter list using <prefix>
--delimiter <delimiter>	Roll up items with <delimiter>
--marker <marker>	Anchor for paging
--end-marker <end-marker>	End anchor for paging
--limit <num-objects>	Limit the number of objects returned
--long	List additional fields in output
--all	List all objects in container (default is 10000)

Table 53.11. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table

Value	Summary
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 53.12. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 53.13. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 53.14. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

53.4. OBJECT SAVE

Save object locally

Usage:

```
openstack object save [-h] [--file <filename>] <container> <object>
```

Table 53.15. Positional arguments

Value	Summary
<container>	Download <object> from <container>
<object>	Object to save

Table 53.16. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--file <filename>	Destination filename (defaults to object name); using - as the filename will print the file to stdout

53.5. OBJECT SET

Set object properties

Usage:

```
openstack object set [-h] --property <key=value> <container> <object>
```

Table 53.17. Positional arguments

Value	Summary
<container>	Modify <object> from <container>
<object>	Object to modify

Table 53.18. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--property <key=value>	Set a property on this object (repeat option to set multiple properties)

53.6. OBJECT SHOW

Display object details

Usage:

```
openstack object show [-h] [-f {json,shell,table,value,yaml}]
```

```

[-c COLUMN] [--noindent] [--prefix PREFIX]
[--max-width <integer>] [--fit-width]
[--print-empty]
<container> <object>

```

Table 53.19. Positional arguments

Value	Summary
<container>	Display <object> from <container>
<object>	Object to display

Table 53.20. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 53.21. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 53.22. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 53.23. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 53.24. Table formatter options

Value	Summary
-------	---------

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

53.7. OBJECT STORE ACCOUNT SET

Set account properties

Usage:

```
openstack object store account set [-h] --property <key=value>
```

Table 53.25. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--property <key=value></code>	Set a property on this account (repeat option to set multiple properties)

53.8. OBJECT STORE ACCOUNT SHOW

Display account details

Usage:

```
openstack object store account show [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
```

Table 53.26. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 53.27. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 53.28. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 53.29. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 53.30. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

53.9. OBJECT STORE ACCOUNT UNSET

Unset account properties

Usage:

```
openstack object store account unset [-h] --property <key>
```

Table 53.31. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--property <key>	Property to remove from account (repeat option to remove multiple properties)

53.10. OBJECT UNSET

Unset object properties

Usage:

```
openstack object unset [-h] --property <key> <container> <object>
```

Table 53.32. Positional arguments

Value	Summary
<container>	Modify <object> from <container>
<object>	Object to modify

Table 53.33. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--property <key>	Property to remove from object (repeat option to remove multiple properties)

CHAPTER 54. ORCHESTRATION

This chapter describes the commands under the **orchestration** command.

54.1. ORCHESTRATION BUILD INFO

Retrieve build information.

Usage:

```
openstack orchestration build info [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>]
                                [--fit-width] [--print-empty]
```

Table 54.1. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 54.2. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 54.3. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 54.4. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 54.5. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

54.2. ORCHESTRATION RESOURCE TYPE LIST

List resource types.

Usage:

```

openstack orchestration resource type list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width]
                                         [--print-empty]
                                         [--sort-column SORT_COLUMN]
                                         [--filter <key=value>]
                                         [--long]

```

Table 54.6. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--filter <key=value></code>	Filter parameters to apply on returned resource types. This can be specified multiple times. It can be any of name, version or support_status
<code>--long</code>	Show resource types with corresponding description of each resource type.

Table 54.7. Output formatter options

Value	Summary
-------	---------

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 54.8. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 54.9. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 54.10. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

54.3. ORCHESTRATION RESOURCE TYPE SHOW

Show details and optionally generate a template for a resource type.

Usage:

```
openstack orchestration resource type show [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
```



```

[--fit-width]
[--print-empty]
[--template-type <template-type>]
[--long]
<resource-type>

```

Table 54.11. Positional arguments

Value	Summary
<resource-type>	Resource type to show details for

Table 54.12. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--template-type <template-type>	Optional template type to generate, hot or cfn
--long	Show resource type with corresponding description.

Table 54.13. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to yaml
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 54.14. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 54.15. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 54.16. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

54.4. ORCHESTRATION SERVICE LIST

List the Heat engines.

Usage:

```

openstack orchestration service list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]

```

Table 54.17. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 54.18. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 54.19. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 54.20. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 54.21. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

54.5. ORCHESTRATION TEMPLATE FUNCTION LIST

List the available functions.

Usage:

```

openstack orchestration template function list [-h]
        [-f {csv,json,table,value,yaml}]
        [-c COLUMN]
        [--quote {all,minimal,none,nonnumeric}]
        [--noindent]
        [--max-width <integer>]
        [--fit-width]
        [--print-empty]
        [--sort-column SORT_COLUMN]
        [--with_conditions]
        <template-version>

```

Table 54.22. Positional arguments

Value	Summary
<code><template-version></code>	Template version to get the functions for

Table 54.23. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--with_conditions	Show condition functions for template.

Table 54.24. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 54.25. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 54.26. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 54.27. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

54.6. ORCHESTRATION TEMPLATE VALIDATE

Validate a template

Usage:

```
openstack orchestration template validate [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [-e <environment>]
                                         [--show-nested]
                                         [--parameter <key=value>]
                                         [--ignore-errors <error1,error2,...>]
                                         -t <template>
```

Table 54.28. Command arguments

Value	Summary
-h, --help	Show this help message and exit
-e <environment>, --environment <environment>	Path to the environment. can be specified multiple times
--show-nested	Resolve parameters from nested templates as well
--parameter <key=value>	Parameter values used to create the stack. this can be specified multiple times
--ignore-errors <error1,error2,...>	List of heat errors to ignore
-t <template>, --template <template>	Path to the template

Table 54.29. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to yaml
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 54.30. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 54.31. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 54.32. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

54.7. ORCHESTRATION TEMPLATE VERSION LIST

List the available template versions.

Usage:

```

openstack orchestration template version list [-h]
                                         [-f {csv,json,table,value,yaml}]
                                         [-c COLUMN]
                                         [--quote {all,minimal,none,nonnumeric}]
                                         [--noindent]
                                         [--max-width <integer>]
                                         [--fit-width]
                                         [--print-empty]
                                         [--sort-column SORT_COLUMN]

```

Table 54.33. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 54.34. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 54.35. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 54.36. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 54.37. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 55. OVERCLOUD

This chapter describes the commands under the **overcloud** command.

55.1. OVERCLOUD ADMIN AUTHORIZE

Deploy the ssh keys needed by Mistral.

Usage:

```
openstack overcloud admin authorize [-h] [--stack STACK]
                                   [--overcloud-ssh-user OVERCLOUD_SSH_USER]
                                   [--overcloud-ssh-key OVERCLOUD_SSH_KEY]
                                   [--overcloud-ssh-network OVERCLOUD_SSH_NETWORK]
                                   [--overcloud-ssh-enable-timeout
OVERCLOUD_SSH_ENABLE_TIMEOUT]
                                   [--overcloud-ssh-port-timeout OVERCLOUD_SSH_PORT_TIMEOUT]
```

Table 55.1. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--stack STACK	Name or id of heat stack (default=env: OVERCLOUD_STACK_NAME)
--overcloud-ssh-user OVERCLOUD_SSH_USER	User for ssh access to overcloud nodes
--overcloud-ssh-key OVERCLOUD_SSH_KEY	Key path for ssh access to overcloud nodes. When undefined the key will be autodetected.
--overcloud-ssh-network OVERCLOUD_SSH_NETWORK	Network name to use for ssh access to overcloud nodes.
--overcloud-ssh-enable-timeout OVERCLOUD_SSH_ENABLE_TIMEOUT	Timeout for the ssh enable process to finish.
--overcloud-ssh-port-timeout OVERCLOUD_SSH_PORT_TIMEOUT	Timeout for to wait for the ssh port to become active.

55.2. OVERCLOUD CELL EXPORT

Export cell information used as import of another cell

Usage:

```
openstack overcloud cell export [-h]
                                [--control-plane-stack <control plane stack>]
                                [--cell-stack <cell stack>]
```



```

[--output-file <output file>]
[--config-download-dir CONFIG_DOWNLOAD_DIR]
[--force-overwrite]
<cell name>

```

Table 55.2. Positional arguments

Value	Summary
<cell name>	Name of the stack used for the additional cell.

Table 55.3. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--control-plane-stack <control plane stack>	Name of the environment main heat stack to export information from. (default=Env: OVERCLOUD_STACK_NAME)
--cell-stack <cell stack>, -e <cell stack>	Name of the controller cell heat stack to export information from. Used in case of: control plane stack → cell controller stack → multiple compute stacks
--output-file <output file>, -o <output file>	Name of the output file for the cell data export. it will default to "<name>.yaml"
--config-download-dir CONFIG_DOWNLOAD_DIR	Directory to search for config-download export data. Defaults to \$HOME/config-download
--force-overwrite, -f	Overwrite output file if it exists.

55.3. OVERCLOUD CONFIG DOWNLOAD

Download Overcloud Config

Usage:

```

openstack overcloud config download [-h] [--name NAME]
                                     [--config-dir CONFIG_DIR]
                                     [--config-type CONFIG_TYPE]
                                     [--no-preserve-config]

```

Table 55.4. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Value	Summary
<code>--name NAME</code>	The name of the plan, which is used for the object storage container, workflow environment and orchestration stack names.
<code>--config-dir CONFIG_DIR</code>	The directory where the configuration files will be pushed
<code>--config-type CONFIG_TYPE</code>	Type of object config to be extract from the deployment, defaults to all keys available
<code>--no-preserve-config</code>	If specified, will delete and recreate the <code>--config-dir</code> if it already exists. Default is to use the existing dir location and overwrite files. Files in <code>--config-dir</code> not from the stack will be preserved by default.

55.4. OVERCLOUD CONTAINER IMAGE BUILD

Build overcloud container images with `kolla-build`.

Usage:

```

openstack overcloud container image build [-h]
                                         [--config-file <yaml config file>]
                                         --kolla-config-file <config
                                         file> [--list-images]
                                         [--list-dependencies]
                                         [--exclude <container-name>]
                                         [--use-buildah]
                                         [--work-dir <container builds directory>]

```

Table 55.5. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--config-file <yaml config file></code>	Yaml config file specifying the images to build. may be specified multiple times. Order is preserved, and later files will override some options in previous files. Other options will append. If not specified, the default set of containers will be built.
<code>--kolla-config-file <config file></code>	Path to a kolla config file to use. multiple config files can be specified, with values in later files taking precedence. By default, <code>tripleo kolla conf file /usr/share/tripleo-common/container-images/tripleo_kolla_config_overrides.conf</code> is added.

Value	Summary
<code>--list-images</code>	Show the images which would be built instead of building them.
<code>--list-dependencies</code>	Show the image build dependencies instead of building them.
<code>--exclude <container-name></code>	Name of a container to match against the list of containers to be built to skip. Can be specified multiple times.
<code>--use-buildah</code>	Use buildah instead of docker to build the images with Kolla.
<code>--work-dir <container builds directory></code>	Tripleo container builds directory, storing configs and logs for each image and its dependencies.

55.5. OVERCLOUD CONTAINER IMAGE PREPARE

Generate files defining the images, tags and registry.

Usage:

```

openstack overcloud container image prepare [-h]
                                           [--template-file <yaml template file>]
                                           [--push-destination <location>]
                                           [--tag <tag>]
                                           [--tag-from-label <image label>]
                                           [--namespace <namespace>]
                                           [--prefix <prefix>]
                                           [--suffix <suffix>]
                                           [--set <variable=value>]
                                           [--exclude <regex>]
                                           [--include <regex>]
                                           [--output-images-file <file path>]
                                           [--environment-file <file path>]
                                           [--environment-directory <HEAT ENVIRONMENT DIRECTORY>]
                                           [--output-env-file <file path>]
                                           [--roles-file ROLES_FILE]
                                           [--modify-role MODIFY_ROLE]
                                           [--modify-vars MODIFY_VARS]

```

Table 55.6. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Value	Summary
<code>--template-file <yaml template file></code>	Yaml template file which the images config file will be built from. Default: <code>/usr/share/tripleo-common/container-images/overcloud_containers.yaml.j2</code>
<code>--push-destination <location></code>	Location of image registry to push images to. if specified, a <code>push_destination</code> will be set for every image entry.
<code>--tag <tag></code>	Override the default tag substitution. if <code>--tag-from-label</code> is specified, start discovery with this tag. Default: 16.1
<code>--tag-from-label <image label></code>	Use the value of the specified label(s) to discover the tag. Labels can be combined in a template format, for example: <code>{version}-{release}</code>
<code>--namespace <namespace></code>	Override the default namespace substitution. Default: <code>registry.redhat.io/rhosp-rhel8</code>
<code>--prefix <prefix></code>	Override the default name prefix substitution. Default: <code>openstack-</code>
<code>--suffix <suffix></code>	Override the default name suffix substitution. Default:
<code>--set <variable=value></code>	Set the value of a variable in the template, even if it has no dedicated argument such as <code>--suffix</code> .
<code>--exclude <regex></code>	Pattern to match against resulting imagename entries to exclude from the final output. Can be specified multiple times.
<code>--include <regex></code>	Pattern to match against resulting imagename entries to include in final output. Can be specified multiple times, entries not matching any <code>--include</code> will be excluded. <code>--exclude</code> is ignored if <code>--include</code> is used.
<code>--output-images-file <file path></code>	File to write resulting image entries to, as well as stdout. Any existing file will be overwritten.
<code>--environment-file <file path>, -e <file path></code>	Environment files specifying which services are containerized. Entries will be filtered to only contain images used by containerized services. (Can be specified more than once.)

Value	Summary
<code>--environment-directory <HEAT ENVIRONMENT DIRECTORY></code>	Environment file directories that are automatically added to the update command. Entries will be filtered to only contain images used by containerized services. Can be specified more than once. Files in directories are loaded in ascending sort order.
<code>--output-env-file <file path></code>	File to write heat environment file which specifies all image parameters. Any existing file will be overwritten.
<code>--roles-file ROLES_FILE, -r ROLES_FILE</code>	Roles file, overrides the default roles_data.yaml in the t-h-t templates directory used for deployment. May be an absolute path or the path relative to the templates dir.
<code>--modify-role MODIFY_ROLE</code>	Name of ansible role to run between every image upload pull and push.
<code>--modify-vars MODIFY_VARS</code>	Ansible variable file containing variables to use when invoking the role <code>--modify-role</code> .

55.6. OVERCLOUD CONTAINER IMAGE TAG DISCOVER

Discover the versioned tag for an image.

Usage:

```
openstack overcloud container image tag discover [-h] --image
          <container image>
          [--tag-from-label <image label>]
```

Table 55.7. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--image <container image></code>	Fully qualified name of the image to discover the tag for (Including registry and stable tag).
<code>--tag-from-label <image label></code>	Use the value of the specified label(s) to discover the tag. Labels can be combined in a template format, for example: <code>{version}-{release}</code>

55.7. OVERCLOUD CONTAINER IMAGE UPLOAD

Push overcloud container images to registries.

Usage:

```
openstack overcloud container image upload [-h] --config-file <yaml
config file>
[--cleanup <full, partial, none>]
```

Table 55.8. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--config-file <yaml config file>	Yaml config file specifying the image build. may be specified multiple times. Order is preserved, and later files will override some options in previous files. Other options will append.
--cleanup <full, partial, none>	Cleanup behavior for local images left after upload. The default <i>full</i> will attempt to delete all local images. <i>partial</i> will leave images required for deployment on this host. <i>none</i> will do no cleanup.

55.8. OVERCLOUD CREDENTIALS

Create the overcloudrc files

Usage:

```
openstack overcloud credentials [-h] [--directory [DIRECTORY]] plan
```

Table 55.9. Positional arguments

Value	Summary
plan	The name of the plan you want to create rc files for.

Table 55.10. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--directory [DIRECTORY]	The directory to create the rc files. defaults to the current directory.

55.9. OVERCLOUD DELETE

Delete overcloud stack and plan

Usage:

```
openstack overcloud delete [-h] [-y] [-s] [stack]
```

Table 55.11. Positional arguments

Value	Summary
stack	Name or id of heat stack to delete(default=env: OVERCLOUD_STACK_NAME)

Table 55.12. Command arguments

Value	Summary
-h, --help	Show this help message and exit
-y, --yes	Skip yes/no prompt (assume yes).
-s, --skip-ipa-cleanup	Skip removing overcloud hosts, services, and dns records from FreeIPA. This is particularly relevant for deployments using certificates from FreeIPA for TLS. By default, overcloud hosts, services, and DNS records will be removed from FreeIPA before deleting the overcloud. Using this option might require you to manually cleanup FreeIPA later.

55.10. OVERCLOUD DEPLOY

Deploy Overcloud

Usage:

```
openstack overcloud deploy [--templates [TEMPLATES]] [--stack STACK]
    [--timeout <TIMEOUT>]
    [--control-scale CONTROL_SCALE]
    [--compute-scale COMPUTE_SCALE]
    [--ceph-storage-scale CEPH_STORAGE_SCALE]
    [--block-storage-scale BLOCK_STORAGE_SCALE]
    [--swift-storage-scale SWIFT_STORAGE_SCALE]
    [--control-flavor CONTROL_FLAVOR]
    [--compute-flavor COMPUTE_FLAVOR]
    [--ceph-storage-flavor CEPH_STORAGE_FLAVOR]
    [--block-storage-flavor BLOCK_STORAGE_FLAVOR]
    [--swift-storage-flavor SWIFT_STORAGE_FLAVOR]
    [--libvirt-type {kvm,qemu}]
    [--ntp-server NTP_SERVER]
    [--no-proxy NO_PROXY]
    [--overcloud-ssh-user OVERCLOUD_SSH_USER]
```

```

[--overcloud-ssh-key OVERCLOUD_SSH_KEY]
[--overcloud-ssh-network OVERCLOUD_SSH_NETWORK]
[--overcloud-ssh-enable-timeout OVERCLOUD_SSH_ENABLE_TIMEOUT]
[--overcloud-ssh-port-timeout OVERCLOUD_SSH_PORT_TIMEOUT]
[--environment-file <HEAT ENVIRONMENT FILE>]
[--environment-directory <HEAT ENVIRONMENT DIRECTORY>]
[--roles-file ROLES_FILE]
[--networks-file NETWORKS_FILE]
[--plan-environment-file PLAN_ENVIRONMENT_FILE]
[--no-cleanup] [--update-plan-only]
[--validation-errors-nonfatal]
[--validation-warnings-fatal]
[--disable-validations]
[--inflight-validations] [--dry-run]
[--run-validations] [--skip-postconfig]
[--force-postconfig]
[--skip-deploy-identifier]
[--answers-file ANSWERS_FILE]
[--disable-password-generation]
[--deployed-server] [--config-download]
[--no-config-download]
[--config-download-only]
[--output-dir OUTPUT_DIR]
[--override-ansible-cfg OVERRIDE_ANSIBLE_CFG]
[--config-download-timeout CONFIG_DOWNLOAD_TIMEOUT]
[--deployment-python-interpreter DEPLOYMENT_PYTHON_INTERPRETER]
[-b <baremetal_deployment.yaml>]
[--limit LIMIT] [--tags TAGS]
[--skip-tags SKIP_TAGS]

```

Table 55.13. Command arguments

Value	Summary
--templates [TEMPLATES]	The directory containing the heat templates to deploy
--stack STACK	Stack name to create or update
--timeout <TIMEOUT>, -t <TIMEOUT>	Deployment timeout in minutes.
--control-scale CONTROL_SCALE	New number of control nodes. (deprecated. use an environment file and set the parameter ControllerCount. This option will be removed in the "U" release.)
--compute-scale COMPUTE_SCALE	New number of compute nodes. (deprecated. use an environment file and set the parameter ComputeCount. This option will be removed in the "U" release.)

Value	Summary
<code>--ceph-storage-scale CEPH_STORAGE_SCALE</code>	New number of ceph storage nodes. (deprecated. use an environment file and set the parameter <code>CephStorageCount</code> . This option will be removed in the "U" release.)
<code>--block-storage-scale BLOCK_STORAGE_SCALE</code>	New number of cinder storage nodes. (deprecated. use an environment file and set the parameter <code>BlockStorageCount</code> . This option will be removed in the "U" release.)
<code>--swift-storage-scale SWIFT_STORAGE_SCALE</code>	New number of swift storage nodes. (deprecated. use an environment file and set the parameter <code>ObjectStorageCount</code> . This option will be removed in the "U" release.)
<code>--control-flavor CONTROL_FLAVOR</code>	Nova flavor to use for control nodes. (deprecated. use an environment file and set the parameter <code>OvercloudControlFlavor</code> . This option will be removed in the "U" release.)
<code>--compute-flavor COMPUTE_FLAVOR</code>	Nova flavor to use for compute nodes. (deprecated. use an environment file and set the parameter <code>OvercloudComputeFlavor</code> . This option will be removed in the "U" release.)
<code>--ceph-storage-flavor CEPH_STORAGE_FLAVOR</code>	Nova flavor to use for ceph storage nodes. (DEPRECATED. Use an environment file and set the parameter <code>OvercloudCephStorageFlavor</code> . This option will be removed in the "U" release.)
<code>--block-storage-flavor BLOCK_STORAGE_FLAVOR</code>	Nova flavor to use for cinder storage nodes (DEPRECATED. Use an environment file and set the parameter <code>OvercloudBlockStorageFlavor</code> . This option will be removed in the "U" release.)
<code>--swift-storage-flavor SWIFT_STORAGE_FLAVOR</code>	Nova flavor to use for swift storage nodes (DEPRECATED. Use an environment file and set the parameter <code>OvercloudSwiftStorageFlavor</code> . This option will be removed in the "U" release.)
<code>--libvirt-type {kvm,qemu}</code>	Libvirt domain type.
<code>--ntp-server NTP_SERVER</code>	The ntp for overcloud nodes.
<code>--no-proxy NO_PROXY</code>	A comma separated list of hosts that should not be proxied.
<code>--overcloud-ssh-user OVERCLOUD_SSH_USER</code>	User for ssh access to overcloud nodes

Value	Summary
<code>--overcloud-ssh-key OVERCLOUD_SSH_KEY</code>	Key path for ssh access to overcloud nodes. When undefined the key will be autodetected.
<code>--overcloud-ssh-network OVERCLOUD_SSH_NETWORK</code>	Network name to use for ssh access to overcloud nodes.
<code>--overcloud-ssh-enable-timeout OVERCLOUD_SSH_ENABLE_TIMEOUT</code>	Timeout for the ssh enable process to finish.
<code>--overcloud-ssh-port-timeout OVERCLOUD_SSH_PORT_TIMEOUT</code>	Timeout for to wait for the ssh port to become active.
<code>--environment-file <HEAT ENVIRONMENT FILE>, -e <HEAT ENVIRONMENT FILE></code>	Environment files to be passed to the heat stack-create or heat stack-update command. (Can be specified more than once.)
<code>--environment-directory <HEAT ENVIRONMENT DIRECTORY></code>	Environment file directories that are automatically added to the heat stack-create or heat stack-update commands. Can be specified more than once. Files in directories are loaded in ascending sort order.
<code>--roles-file ROLES_FILE, -r ROLES_FILE</code>	Roles file, overrides the default roles_data.yaml in the --templates directory. May be an absolute path or the path relative to --templates
<code>--networks-file NETWORKS_FILE, -n NETWORKS_FILE</code>	Networks file, overrides the default network_data.yaml in the --templates directory
<code>--plan-environment-file PLAN_ENVIRONMENT_FILE, -p PLAN_ENVIRONMENT_FILE</code>	Plan environment file, overrides the default plan-environment.yaml in the --templates directory
<code>--no-cleanup</code>	Don't cleanup temporary files, just log their location
<code>--update-plan-only</code>	Only update the plan. do not perform the actual deployment. NOTE: Will move to a discrete command in a future release.
<code>--validation-errors-nonfatal</code>	Allow the deployment to continue in spite of validation errors. Note that attempting deployment while errors exist is likely to fail.
<code>--validation-warnings-fatal</code>	Exit if there are warnings from the configuration pre-checks.

Value	Summary
<code>--disable-validations</code>	Deprecated. disable the pre-deployment validations entirely. These validations are the built-in pre-deployment validations. To enable external validations from tripleo-validations, use the <code>--run-validations</code> flag. These validations are now run via the external validations in tripleo-validations.
<code>--inflight-validations</code>	Activate in-flight validations during the deploy. in-flight validations provide a robust way to ensure deployed services are running right after their activation. Defaults to False.
<code>--dry-run</code>	Only run validations, but do not apply any changes.
<code>--run-validations</code>	Run external validations from the tripleo-validations project.
<code>--skip-postconfig</code>	Skip the overcloud post-deployment configuration.
<code>--force-postconfig</code>	Force the overcloud post-deployment configuration.
<code>--skip-deploy-identifier</code>	Skip generation of a unique identifier for the <code>DeployIdentifier</code> parameter. The software configuration deployment steps will only be triggered if there is an actual change to the configuration. This option should be used with Caution, and only if there is confidence that the software configuration does not need to be run, such as when scaling out certain roles.
<code>--answers-file ANSWERS_FILE</code>	Path to a yaml file with arguments and parameters.
<code>--disable-password-generation</code>	Disable password generation.
<code>--deployed-server</code>	Use pre-provisioned overcloud nodes. removes baremetal,compute and image services requirements from the undercloud node. Must only be used with the <code>--disable-validations</code> .
<code>--config-download</code>	Run deployment via config-download mechanism. this is now the default, and this CLI options may be removed in the future.
<code>--no-config-download, --stack-only</code>	Disable the config-download workflow and only create the stack and associated OpenStack resources. No software configuration will be applied.

Value	Summary
<code>--config-download-only</code>	Disable the stack create/update, and only run the config-download workflow to apply the software configuration.
<code>--output-dir OUTPUT_DIR</code>	Directory to use for saved output when using <code>--config-download</code> . The directory must be writeable by the mistral user. When not specified, the default server side value will be used (<code>/var/lib/mistral/<execution id></code>).
<code>--override-ansible-cfg OVERRIDE_ANSIBLE_CFG</code>	Path to ansible configuration file. the configuration in the file will override any configuration used by config-download by default.
<code>--config-download-timeout CONFIG_DOWNLOAD_TIMEOUT</code>	Timeout (in minutes) to use for config-download steps. If unset, will default to however much time is leftover from the <code>--timeout</code> parameter after the stack operation.
<code>--deployment-python-interpreter DEPLOYMENT_PYTHON_INTERPRETER</code>	The path to python interpreter to use for the deployment actions. This may need to be used if deploying on a python2 host from a python3 system or vice versa.
<code>-b <baremetal_deployment.yaml>, --baremetal-deployment <baremetal_deployment.yaml></code>	Configuration file describing the baremetal deployment
<code>--limit LIMIT</code>	A string that identifies a single node or comma-separated list of nodes the config-download Ansible playbook execution will be limited to. For example: <code>--limit "compute-0,compute-1,compute-5"</code> .
<code>--tags TAGS</code>	A list of tags to use when running the config-download ansible-playbook command.
<code>--skip-tags SKIP_TAGS</code>	A list of tags to skip when running the config-download ansible-playbook command.

55.11. OVERCLOUD EXECUTE

Execute a Heat software config on the servers.

Usage:

```
openstack overcloud execute [-h] [-s SERVER_NAME] [-g GROUP] file_in
```

Table 55.14. Positional arguments

Value	Summary
file_in	None

Table 55.15. Command arguments

Value	Summary
-h, --help	Show this help message and exit
-s SERVER_NAME, --server_name SERVER_NAME	Nova server_name or partial name to match.
-g GROUP, --group GROUP	Heat software config "group" type. defaults to "script".

55.12. OVERCLOUD EXPORT CEPH

Export Ceph information used as import of another stack Export Ceph information from one or more stacks to be used as input of another stack. Creates a valid YAML file with the CephExternalMultiConfig parameter populated.

Usage:

```
openstack overcloud export ceph [-h] [--stack <stack>]
                                [--cephx-key-client-name <cephx>]
                                [--output-file <output file>]
                                [--force-overwrite]
                                [--config-download-dir CONFIG_DOWNLOAD_DIR]
```

Table 55.16. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--stack <stack>	Name of the overcloud stack(s) to export ceph information from. If a comma delimited list of stacks is passed, Ceph information for all stacks will be exported into a single file. (default=Env: OVERCLOUD_STACK_NAME)
--cephx-key-client-name <cephx>, -k <cephx>	Name of the cephx client key to export. (default=openstack)
--output-file <output file>, -o <output file>	Name of the output file for the ceph data export. Defaults to "ceph-export-<STACK>.yaml" if one stack is provided. Defaults to "ceph-export-<N>-stacks.yaml" if N stacks are provided.

Value	Summary
<code>--force-overwrite, -f</code>	Overwrite output file if it exists.
<code>--config-download-dir CONFIG_DOWNLOAD_DIR</code>	Directory to search for config-download export data. Defaults to <code>/var/lib/mistral</code>

55.13. OVERCLOUD EXPORT

Export stack information used as import of another stack

Usage:

```
openstack overcloud export [-h] [--stack <stack>]
                          [--output-file <output file>]
                          [--force-overwrite]
                          [--config-download-dir CONFIG_DOWNLOAD_DIR]
                          [--no-password-excludes]
```

Table 55.17. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--stack <stack></code>	Name of the environment main heat stack to export information from. (default=Env: OVERCLOUD_STACK_NAME)
<code>--output-file <output file>, -o <output file></code>	Name of the output file for the stack data export. it will default to " <code><name>.yaml</code> "
<code>--force-overwrite, -f</code>	Overwrite output file if it exists.
<code>--config-download-dir CONFIG_DOWNLOAD_DIR</code>	Directory to search for config-download export data. Defaults to <code>/var/lib/mistral/<stack></code>
<code>--no-password-excludes</code>	Dont exclude certain passwords from the password export. Defaults to False in that some passwords will be excluded that are not typically necessary.

55.14. OVERCLOUD EXTERNAL-UPDATE RUN

Run external minor update Ansible playbook This will run the external minor update Ansible playbook, executing tasks from the undercloud. The update playbooks are made available after completion of the `overcloud update prepare` command.

Usage:

-

```

openstack overcloud external-update run [-h]
    [--static-inventory STATIC_INVENTORY]
    [--ssh-user SSH_USER]
    [--tags TAGS]
    [--skip-tags SKIP_TAGS]
    [--stack STACK] [-e EXTRA_VARS]
    [--no-workflow] [-y]
    [--limit LIMIT]

```

Table 55.18. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--static-inventory STATIC_INVENTORY	Path to an existing ansible inventory to use. if not specified, one will be generated in ~/tripleo-ansible-inventory.yaml
--ssh-user SSH_USER	Deprecated: only tripleo-admin should be used as ssh user.
--tags TAGS	A string specifying the tag or comma separated list of tags to be passed as --tags to ansible-playbook.
--skip-tags SKIP_TAGS	A string specifying the tag or comma separated list of tags to be passed as --skip-tags to ansible-playbook.
--stack STACK	Name or id of heat stack (default=env: OVERCLOUD_STACK_NAME)
-e EXTRA_VARS, --extra-vars EXTRA_VARS	Set additional variables as key=value or yaml/json
--no-workflow	Run ansible-playbook directly via system command instead of running Ansible via the TripleO mistral workflows.
-y, --yes	Use -y or --yes to skip the confirmation required before any upgrade operation. Use this with caution!
--limit LIMIT	A string that identifies a single node or comma-separated list of nodes the config-download Ansible playbook execution will be limited to. For example: --limit "compute-0,compute-1,compute-5".

55.15. OVERCLOUD EXTERNAL-UPGRADE RUN

Run external major upgrade Ansible playbook This will run the external major upgrade Ansible playbook, executing tasks from the undercloud. The upgrade playbooks are made available after completion of the *overcloud upgrade prepare* command.

Usage:

```

openstack overcloud external-upgrade run [-h]
                                         [--static-inventory STATIC_INVENTORY]
                                         [--ssh-user SSH_USER]
                                         [--tags TAGS]
                                         [--skip-tags SKIP_TAGS]
                                         [--stack STACK]
                                         [-e EXTRA_VARS]
                                         [--no-workflow] [-y]
                                         [--limit LIMIT]

```

Table 55.19. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--static-inventory STATIC_INVENTORY	Path to an existing ansible inventory to use. if not specified, one will be generated in ~/tripleo-ansible-inventory.yaml
--ssh-user SSH_USER	Deprecated: only tripleo-admin should be used as ssh user.
--tags TAGS	A string specifying the tag or comma separated list of tags to be passed as --tags to ansible-playbook.
--skip-tags SKIP_TAGS	A string specifying the tag or comma separated list of tags to be passed as --skip-tags to ansible-playbook.
--stack STACK	Name or id of heat stack (default=env: OVERCLOUD_STACK_NAME)
-e EXTRA_VARS, --extra-vars EXTRA_VARS	Set additional variables as key=value or yaml/json
--no-workflow	Run ansible-playbook directly via system command instead of running Ansible via the TripleO mistral workflows.
-y, --yes	Use -y or --yes to skip the confirmation required before any upgrade operation. Use this with caution!
--limit LIMIT	A string that identifies a single node or comma-separated list of nodes the config-download Ansible playbook execution will be limited to. For example: --limit "compute-0,compute-1,compute-5".

55.16. OVERCLOUD FAILURES

Get deployment failures

Usage:

```
openstack overcloud failures [-h] [--plan PLAN]
```

Table 55.20. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--plan PLAN, --stack PLAN	Name of the stack/plan. (default: overcloud)

55.17. OVERCLOUD GENERATE FENCING

Generate fencing parameters

Usage:

```
openstack overcloud generate fencing [-h] [-a FENCE_ACTION]
                                     [--delay DELAY] [--ipmi-lanplus]
                                     [--ipmi-no-lanplus]
                                     [--ipmi-cipher IPMI_CIPHER]
                                     [--ipmi-level IPMI_LEVEL]
                                     [--output OUTPUT]
instackenv
```

Table 55.21. Positional arguments

Value	Summary
instackenv	None

Table 55.22. Command arguments

Value	Summary
-h, --help	Show this help message and exit
-a FENCE_ACTION, --action FENCE_ACTION	Deprecated: this option is ignored.
--delay DELAY	Wait delay seconds before fencing is started
--ipmi-lanplus	Deprecated: this is the default.
--ipmi-no-lanplus	Do not use lanplus. defaults to: false

Value	Summary
--ipmi-cipher IPMI_CIPHER	Ciphersuite to use (same as ipmitool -c parameter.
--ipmi-level IPMI_LEVEL	Privilege level on ipmi device. valid levels: callback, user, operator, administrator.
--output OUTPUT	Write parameters to a file

55.18. OVERCLOUD IMAGE BUILD

Build images for the overcloud

Usage:

```
openstack overcloud image build [-h] [--config-file <yaml config file>]
                                [--image-name <image name>] [--no-skip]
                                [--output-directory OUTPUT_DIRECTORY]
```

Table 55.23. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--config-file <yaml config file>	Yaml config file specifying the image build. may be specified multiple times. Order is preserved, and later files will override some options in previous files. Other options will append.
--image-name <image name>	Name of image to build. may be specified multiple times. If unspecified, will build all images in given YAML files.
--no-skip	Skip build if cached image exists.
--output-directory OUTPUT_DIRECTORY	Output directory for images. defaults to \$TRIPLEO_ROOT, or current directory if unset.

55.19. OVERCLOUD IMAGE UPLOAD

Make existing image files available for overcloud deployment.

Usage:

```
openstack overcloud image upload [-h] [--image-path IMAGE_PATH]
                                  [--os-image-name OS_IMAGE_NAME]
                                  [--ironic-python-agent-name IPA_NAME]
                                  [--http-boot HTTP_BOOT]
```

```

[--update-existing] [--whole-disk]
[--architecture ARCHITECTURE]
[--platform PLATFORM]
[--image-type {os,ironic-python-agent}]
[--progress] [--local]
[--local-path LOCAL_PATH]

```

Table 55.24. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--image-path IMAGE_PATH	Path to directory containing image files
--os-image-name OS_IMAGE_NAME	Openstack disk image filename
--ironic-python-agent-name IPA_NAME	Openstack ironic-python-agent (agent) image filename
--http-boot HTTP_BOOT	Root directory for the ironic-python-agent image. if uploading images for multiple architectures/platforms, vary this argument such that a distinct folder is created for each architecture/platform.
--update-existing	Update images if already exist
--whole-disk	When set, the overcloud-full image to be uploaded will be considered as a whole disk one
--architecture ARCHITECTURE	Architecture type for these images, <i>x86_64</i> , <i>i386</i> and <i>ppc64le</i> are common options. This option should match at least one <i>arch</i> value in <i>instackenv.json</i>
--platform PLATFORM	Platform type for these images. platform is a sub-category of architecture. For example you may have generic images for <i>x86_64</i> but offer images specific to SandyBridge (SNB).
--image-type {os,ironic-python-agent}	If specified, allows to restrict the image type to upload (os for the overcloud image or ironic-python-agent for the ironic-python-agent one)
--progress	Show progress bar for upload files action
--local	Copy files locally, even if there is an image service endpoint

Value	Summary
<code>--local-path LOCAL_PATH</code>	Root directory for image file copy destination when there is no image endpoint, or when <code>--local</code> is specified

55.20. OVERCLOUD NETENV VALIDATE

Validate the network environment file.

Usage:

```
openstack overcloud netenv validate [-h] [-f NETENV]
```

Table 55.25. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>-f NETENV, --file NETENV</code>	Path to the network environment file

55.21. OVERCLOUD NODE BIOS CONFIGURE

Apply BIOS configuration on given nodes

Usage:

```
openstack overcloud node bios configure [-h] [--all-manageable]
    [--configuration <configuration>]
    [<node_uuid> [<node_uuid> ...]]
```

Table 55.26. Positional arguments

Value	Summary
<code><node_uuid></code>	Baremetal node uuids for the node(s) to configure bios

Table 55.27. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Value	Summary
<code>--all-manageable</code>	Configure bios for all nodes currently in <i>manageable</i> state
<code>--configuration <configuration></code>	Bios configuration (yaml/json string or file name).

55.22. OVERCLOUD NODE BIOS RESET

Reset BIOS configuration to factory default

Usage:

```
openstack overcloud node bios reset [-h] [--all-manageable]
                                     [<node_uuid> [<node_uuid> ...]]
```

Table 55.28. Positional arguments

Value	Summary
<code><node_uuid></code>	Baremetal node uuids for the node(s) to reset bios

Table 55.29. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--all-manageable</code>	Reset bios on all nodes currently in <i>manageable</i> state

55.23. OVERCLOUD NODE CLEAN

Run node(s) through cleaning.

Usage:

```
openstack overcloud node clean [-h] [--all-manageable] [--provide]
                                 [<node_uuid> [<node_uuid> ...]]
```

Table 55.30. Positional arguments

Value	Summary
<code><node_uuid></code>	Baremetal node uuids for the node(s) to be cleaned

Table 55.31. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-manageable	Clean all nodes currently in <i>manageable</i> state
--provide	Provide (make available) the nodes once cleaned

55.24. OVERCLOUD NODE CONFIGURE

Configure Node boot options.

Usage:

```

openstack overcloud node configure [-h] [--all-manageable]
                                   [--deploy-kernel DEPLOY_KERNEL]
                                   [--deploy-ramdisk DEPLOY_RAMDISK]
                                   [--instance-boot-option {local,netboot}]
                                   [--root-device ROOT_DEVICE]
                                   [--root-device-minimum-size ROOT_DEVICE_MINIMUM_SIZE]
                                   [--overwrite-root-device-hints]
                                   [<node_uuid> [<node_uuid> ...]]

```

Table 55.32. Positional arguments

Value	Summary
<node_uuid>	Baremetal node uuids for the node(s) to be configured

Table 55.33. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-manageable	Configure all nodes currently in <i>manageable</i> state
--deploy-kernel DEPLOY_KERNEL	Image with deploy kernel.
--deploy-ramdisk DEPLOY_RAMDISK	Image with deploy ramdisk.
--instance-boot-option {local,netboot}	Whether to set instances for booting from local hard drive (local) or network (netboot).

Value	Summary
<code>--root-device ROOT_DEVICE</code>	Define the root device for nodes. can be either a list of device names (without /dev) to choose from or one of two strategies: largest or smallest. For it to work this command should be run after the introspection.
<code>--root-device-minimum-size ROOT_DEVICE_MINIMUM_SIZE</code>	Minimum size (in gib) of the detected root device. Used with <code>--root-device</code> .
<code>--overwrite-root-device-hints</code>	Whether to overwrite existing root device hints when <code>--root-device</code> is used.

55.25. OVERCLOUD NODE DELETE

Delete overcloud nodes.

Usage:

```
openstack overcloud node delete [-h] [-b <BAREMETAL DEPLOYMENT FILE>]
                                [--stack STACK]
                                [--templates [TEMPLATES]]
                                [-e <HEAT ENVIRONMENT FILE>]
                                [--timeout <TIMEOUT>] [-y]
                                [<node> [<node> ...]]
```

Table 55.34. Positional arguments

Value	Summary
<code><node></code>	Node id(s) to delete (otherwise specified in the <code>--baremetal-deployment</code> file)

Table 55.35. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>-b <BAREMETAL DEPLOYMENT FILE>, --baremetal-deployment <BAREMETAL DEPLOYMENT FILE></code>	Configuration file describing the baremetal deployment
<code>--stack STACK</code>	Name or id of heat stack to scale (default=env: OVERCLOUD_STACK_NAME)

Value	Summary
<code>--templates [TEMPLATES]</code>	The directory containing the heat templates to deploy. This argument is deprecated. The command now utilizes a deployment plan, which should be updated prior to running this command, should that be required. Otherwise this argument will be silently ignored.
<code>-e <HEAT ENVIRONMENT FILE>, --environment-file <HEAT ENVIRONMENT FILE></code>	Environment files to be passed to the heat stack-create or heat stack-update command. (Can be specified more than once.) This argument is deprecated. The command now utilizes a deployment plan, which should be updated prior to running this command, should that be required. Otherwise this argument will be silently ignored.
<code>--timeout <TIMEOUT></code>	Timeout in minutes to wait for the nodes to be deleted. Keep in mind that due to keystone session duration that timeout has an upper bound of 4 hours
<code>-y, --yes</code>	Skip yes/no prompt (assume yes).

55.26. OVERCLOUD NODE DISCOVER

Discover overcloud nodes by polling their BMCs.

Usage:

```
openstack overcloud node discover [-h] (--ip <ips> | --range <range>)
                                --credentials <key:value>
                                [--port <ports>] [--introspect]
                                [--run-validations] [--provide]
                                [--no-deploy-image]
                                [--instance-boot-option {local,netboot}]
                                [--concurrency CONCURRENCY]
```

Table 55.36. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--ip <ips></code>	Ip address(es) to probe
<code>--range <range></code>	Ip range to probe
<code>--credentials <key:value></code>	Key/value pairs of possible credentials

Value	Summary
<code>--port <ports></code>	Bmc port(s) to probe
<code>--introspect</code>	Introspect the imported nodes
<code>--run-validations</code>	Run the pre-deployment validations. these external validations are from the TripleO Validations project.
<code>--provide</code>	Provide (make available) the nodes
<code>--no-deploy-image</code>	Skip setting the deploy kernel and ramdisk.
<code>--instance-boot-option {local,netboot}</code>	Whether to set instances for booting from local hard drive (local) or network (netboot).
<code>--concurrency CONCURRENCY</code>	Maximum number of nodes to introspect at once.

55.27. OVERCLOUD NODE IMPORT

Import baremetal nodes from a JSON, YAML or CSV file. The node status will be set to *manageable* by default.

Usage:

```
openstack overcloud node import [-h] [--introspect] [--run-validations]
                                [--validate-only] [--provide]
                                [--no-deploy-image]
                                [--instance-boot-option {local,netboot}]
                                [--http-boot HTTP_BOOT]
                                [--concurrency CONCURRENCY]
                                env_file
```

Table 55.37. Positional arguments

Value	Summary
<code>env_file</code>	None

Table 55.38. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--introspect</code>	Introspect the imported nodes

Value	Summary
<code>--run-validations</code>	Run the pre-deployment validations. these external validations are from the TripleO Validations project.
<code>--validate-only</code>	Validate the <code>env_file</code> and then exit without actually importing the nodes.
<code>--provide</code>	Provide (make available) the nodes
<code>--no-deploy-image</code>	Skip setting the deploy kernel and ramdisk.
<code>--instance-boot-option {local,netboot}</code>	Whether to set instances for booting from local hard drive (local) or network (netboot).
<code>--http-boot HTTP_BOOT</code>	Root directory for the ironic-python-agent image
<code>--concurrency CONCURRENCY</code>	Maximum number of nodes to introspect at once.

55.28. OVERCLOUD NODE INTROSPECT

Introspect specified nodes or all nodes in *manageable* state.

Usage:

```
openstack overcloud node introspect [-h] [--all-manageable] [--provide]
                                     [--run-validations]
                                     [--concurrency CONCURRENCY]
                                     [<node_uuid> [<node_uuid> ...]]
```

Table 55.39. Positional arguments

Value	Summary
<code><node_uuid></code>	Baremetal node uuids for the node(s) to be introspected

Table 55.40. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--all-manageable</code>	Introspect all nodes currently in <i>manageable</i> state

Value	Summary
--provide	Provide (make available) the nodes once introspected
--run-validations	Run the pre-deployment validations. these external validations are from the TripleO Validations project.
--concurrency CONCURRENCY	Maximum number of nodes to introspect at once.

55.29. OVERCLOUD NODE PROVIDE

Mark nodes as available based on UUIDs or current *manageable* state.

Usage:

```
openstack overcloud node provide [-h] [--all-manageable]
    [<node_uuid> [<node_uuid> ...]]
```

Table 55.41. Positional arguments

Value	Summary
<node_uuid>	Baremetal node uuids for the node(s) to be provided

Table 55.42. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-manageable	Provide all nodes currently in <i>manageable</i> state

55.30. OVERCLOUD NODE PROVISION

Provision new nodes using Ironic.

Usage:

```
openstack overcloud node provision [-h] [-o OUTPUT] [--stack STACK]
    [--overcloud-ssh-user OVERCLOUD_SSH_USER]
    [--overcloud-ssh-key OVERCLOUD_SSH_KEY]
    [--concurrency CONCURRENCY]
    [--timeout TIMEOUT]
    <baremetal_deployment.yaml>
```

Table 55.43. Positional arguments

Value	Summary
<baremetal_deployment.yaml>	Configuration file describing the baremetal deployment

Table 55.44. Command arguments

Value	Summary
-h, --help	Show this help message and exit
-o OUTPUT, --output OUTPUT	The output environment file path
--stack STACK	Name or id of heat stack (default=env: OVERCLOUD_STACK_NAME)
--overcloud-ssh-user OVERCLOUD_SSH_USER	User for ssh access to newly deployed nodes
--overcloud-ssh-key OVERCLOUD_SSH_KEY	Key path for ssh access to overcloud nodes. when undefined the key will be autodetected.
--concurrency CONCURRENCY	Maximum number of nodes to provision at once. (default=20)
--timeout TIMEOUT	Number of seconds to wait for the node provision to complete. (default=3600)

55.31. OVERCLOUD NODE UNPROVISION

Unprovisions nodes using Ironic.

Usage:

```
openstack overcloud node unprovision [-h] [--stack STACK] [--all] [-y]
<baremetal_deployment.yaml>
```

Table 55.45. Positional arguments

Value	Summary
<baremetal_deployment.yaml>	Configuration file describing the baremetal deployment

Table 55.46. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--stack STACK	Name or id of heat stack (default=env: OVERCLOUD_STACK_NAME)
--all	Unprovision every instance in the deployment
-y, --yes	Skip yes/no prompt (assume yes)

55.32. OVERCLOUD PARAMETERS SET

Set a parameters for a plan

Usage:

```
openstack overcloud parameters set [-h] name file_in
```

Table 55.47. Positional arguments

Value	Summary
name	The name of the plan, which is used for the swift container, Mistral environment and Heat stack names.
file_in	None

Table 55.48. Command arguments

Value	Summary
-h, --help	Show this help message and exit

55.33. OVERCLOUD PLAN CREATE

Create a deployment plan

Usage:

```
openstack overcloud plan create [-h] [--templates TEMPLATES]
                                [--plan-environment-file PLAN_ENVIRONMENT_FILE]
                                [--disable-password-generation]
                                [--source-url SOURCE_URL]
                                name
```

Table 55.49. Positional arguments

Value	Summary
name	The name of the plan, which is used for the object storage container, workflow environment and orchestration stack names.

Table 55.50. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--templates TEMPLATES	The directory containing the heat templates to deploy. If this or --source_url isn't provided, the templates packaged on the Undercloud will be used.
--plan-environment-file PLAN_ENVIRONMENT_FILE, -p PLAN_ENVIRONMENT_FILE	Plan environment file, overrides the default plan-environment.yaml in the --templates directory
--disable-password-generation	Disable password generation.
--source-url SOURCE_URL	The url of a git repository containing the heat templates to deploy. If this or --templates isn't provided, the templates packaged on the Undercloud will be used.

55.34. OVERCLOUD PLAN DELETE

Delete an overcloud deployment plan. The plan will not be deleted if a stack exists with the same name.

Usage:

```
openstack overcloud plan delete [-h] <name> [<name> ...]
```

Table 55.51. Positional arguments

Value	Summary
<name>	Name of the plan(s) to delete

Table 55.52. Command arguments

Value	Summary
-h, --help	Show this help message and exit

55.35. OVERCLOUD PLAN DEPLOY

Deploy a deployment plan

Usage:

```
openstack overcloud plan deploy [-h] [--timeout <TIMEOUT>]
                                [--run-validations]
                                name
```

Table 55.53. Positional arguments

Value	Summary
name	The name of the plan to deploy.

Table 55.54. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--timeout <TIMEOUT>, -t <TIMEOUT>	Deployment timeout in minutes.
--run-validations	Run the pre-deployment validations. these external validations are from the TripleO Validations project.

55.36. OVERCLOUD PLAN EXPORT

Export a deployment plan

Usage:

```
openstack overcloud plan export [-h] [--output-file <output file>]
                                [--force-overwrite]
                                <name>
```

Table 55.55. Positional arguments

Value	Summary
<name>	Name of the plan to export.

Table 55.56. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Value	Summary
<code>--output-file <output file>, -o <output file></code>	Name of the output file for export. it will default to " <code><name>.tar.gz</code> ".
<code>--force-overwrite, -f</code>	Overwrite output file if it exists.

55.37. OVERCLOUD PLAN LIST

List overcloud deployment plans.

Usage:

```
openstack overcloud plan list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
```

Table 55.57. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 55.58. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 55.59. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 55.60. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 55.61. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

55.38. OVERCLOUD PROFILES LIST

List overcloud node profiles

Usage:

```

openstack overcloud profiles list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN] [--all]
                                [--control-scale CONTROL_SCALE]
                                [--compute-scale COMPUTE_SCALE]
                                [--ceph-storage-scale CEPH_STORAGE_SCALE]
                                [--block-storage-scale BLOCK_STORAGE_SCALE]
                                [--swift-storage-scale SWIFT_STORAGE_SCALE]
                                [--control-flavor CONTROL_FLAVOR]
                                [--compute-flavor COMPUTE_FLAVOR]
                                [--ceph-storage-flavor CEPH_STORAGE_FLAVOR]
                                [--block-storage-flavor BLOCK_STORAGE_FLAVOR]
                                [--swift-storage-flavor SWIFT_STORAGE_FLAVOR]

```

Table 55.62. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--all</code>	List all nodes, even those not available to nova.

Value	Summary
<code>--control-scale CONTROL_SCALE</code>	New number of control nodes.
<code>--compute-scale COMPUTE_SCALE</code>	New number of compute nodes.
<code>--ceph-storage-scale CEPH_STORAGE_SCALE</code>	New number of ceph storage nodes.
<code>--block-storage-scale BLOCK_STORAGE_SCALE</code>	New number of cinder storage nodes.
<code>--swift-storage-scale SWIFT_STORAGE_SCALE</code>	New number of swift storage nodes.
<code>--control-flavor CONTROL_FLAVOR</code>	Nova flavor to use for control nodes.
<code>--compute-flavor COMPUTE_FLAVOR</code>	Nova flavor to use for compute nodes.
<code>--ceph-storage-flavor CEPH_STORAGE_FLAVOR</code>	Nova flavor to use for ceph storage nodes.
<code>--block-storage-flavor BLOCK_STORAGE_FLAVOR</code>	Nova flavor to use for cinder storage nodes
<code>--swift-storage-flavor SWIFT_STORAGE_FLAVOR</code>	Nova flavor to use for swift storage nodes

Table 55.63. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 55.64. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 55.65. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 55.66. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

55.39. OVERCLOUD PROFILES MATCH

Assign and validate profiles on nodes

Usage:

```

openstack overcloud profiles match [-h] [--dry-run]
                                [--control-scale CONTROL_SCALE]
                                [--compute-scale COMPUTE_SCALE]
                                [--ceph-storage-scale CEPH_STORAGE_SCALE]
                                [--block-storage-scale BLOCK_STORAGE_SCALE]
                                [--swift-storage-scale SWIFT_STORAGE_SCALE]
                                [--control-flavor CONTROL_FLAVOR]
                                [--compute-flavor COMPUTE_FLAVOR]
                                [--ceph-storage-flavor CEPH_STORAGE_FLAVOR]
                                [--block-storage-flavor BLOCK_STORAGE_FLAVOR]
                                [--swift-storage-flavor SWIFT_STORAGE_FLAVOR]

```

Table 55.67. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--dry-run</code>	Only run validations, but do not apply any changes.
<code>--control-scale CONTROL_SCALE</code>	New number of control nodes.
<code>--compute-scale COMPUTE_SCALE</code>	New number of compute nodes.
<code>--ceph-storage-scale CEPH_STORAGE_SCALE</code>	New number of ceph storage nodes.
<code>--block-storage-scale BLOCK_STORAGE_SCALE</code>	New number of cinder storage nodes.
<code>--swift-storage-scale SWIFT_STORAGE_SCALE</code>	New number of swift storage nodes.

Value	Summary
<code>--control-flavor CONTROL_FLAVOR</code>	Nova flavor to use for control nodes.
<code>--compute-flavor COMPUTE_FLAVOR</code>	Nova flavor to use for compute nodes.
<code>--ceph-storage-flavor CEPH_STORAGE_FLAVOR</code>	Nova flavor to use for ceph storage nodes.
<code>--block-storage-flavor BLOCK_STORAGE_FLAVOR</code>	Nova flavor to use for cinder storage nodes
<code>--swift-storage-flavor SWIFT_STORAGE_FLAVOR</code>	Nova flavor to use for swift storage nodes

55.40. OVERCLOUD RAID CREATE

Create RAID on given nodes

Usage:

```
openstack overcloud raid create [-h] --node NODE configuration
```

Table 55.68. Positional arguments

Value	Summary
configuration	Raid configuration (yaml/json string or file name).

Table 55.69. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--node NODE</code>	Nodes to create raid on (expected to be in manageable state). Can be specified multiple times.

55.41. OVERCLOUD ROLE LIST

List available roles (DEPRECATED). Please use "openstack overcloud roles list" instead.

Usage:

```
openstack overcloud role list [-h] [--roles-path <roles directory>]
```

Table 55.70. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--roles-path <roles directory>	Filesystem path containing the role yaml files. by default this is /usr/share/openstack-tripleo-heat-templates/roles

55.42. OVERCLOUD ROLE SHOW

Show information about a given role (DEPRECATED). Please use "openstack overcloud roles show" instead.

Usage:

```
openstack overcloud role show [-h] [--roles-path <roles directory>]
                               <role>
```

Table 55.71. Positional arguments

Value	Summary
<role>	Role to display more information about.

Table 55.72. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--roles-path <roles directory>	Filesystem path containing the role yaml files. by default this is /usr/share/openstack-tripleo-heat-templates/roles

55.43. OVERCLOUD ROLES GENERATE

Generate roles_data.yaml file

Usage:

```
openstack overcloud roles generate [-h]
                                   [--roles-path <roles directory>]
                                   [-o <output file>] [--skip-validate]
                                   <role> [<role> ...]
```

Table 55.73. Positional arguments

Value	Summary
<role>	List of roles to use to generate the roles_data.yaml file for the deployment. NOTE: Ordering is important if no role has the "primary" and "controller" tags. If no role is tagged then the first role listed will be considered the primary role. This usually is the controller role.

Table 55.74. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--roles-path <roles directory>	Filesystem path containing the role yaml files. by default this is /usr/share/openstack-tripleo-heat-templates/roles
-o <output file>, --output-file <output file>	File to capture all output to. for example, roles_data.yaml
--skip-validate	Skip role metadata type validation whengenerating the roles_data.yaml

55.44. OVERCLOUD ROLES LIST

List the current and available roles in a given plan

Usage:

```
openstack overcloud roles list [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN]
                               [--name NAME] [--detail] [--current]
```

Table 55.75. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name NAME	The name of the plan, which is used for the object storage container, workflow environment and orchestration stack names.

Value	Summary
<code>--detail</code>	Include details about each role
<code>--current</code>	Only show the information for the roles currently enabled for the plan.

Table 55.76. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 55.77. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 55.78. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 55.79. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

55.45. OVERCLOUD ROLES SHOW

Show details for a specific role, given a plan

Usage:

```
openstack overcloud roles show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty] [--name NAME]
                               <role>
```

Table 55.80. Positional arguments

Value	Summary
<role>	Name of the role to look up.

Table 55.81. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name NAME	The name of the plan, which is used for the object storage container, workflow environment and orchestration stack names.

Table 55.82. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 55.83. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 55.84. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 55.85. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

55.46. OVERCLOUD STATUS

Get deployment status

Usage:

```
openstack overcloud status [-h] [--plan PLAN]
```

Table 55.86. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--plan PLAN, --stack PLAN	Name of the stack/plan. (default: overcloud)

55.47. OVERCLOUD SUPPORT REPORT COLLECT

Run sosreport on selected servers.

Usage:

```
openstack overcloud support report collect [-h] [-c] [-o DESTINATION]
                                           [--stack STACK]
                                           [--skip-container-delete]
                                           [-t TIMEOUT]
                                           [-n CONCURRENCY]
                                           [--collect-only | --download-only]
                                           [-v VERBOSITY]
                                           server_name
```

Table 55.87. Positional arguments

Value	Summary
server_name	Server name, group name, or partial name to match. for example "Controller" will match all controllers for an environment.

Table 55.88. Command arguments

Value	Summary
-h, --help	Show this help message and exit
-c, --container	Deprecated: swift container to store logs to
-o DESTINATION, --output DESTINATION	Output directory for the report
--stack STACK	Stack name to use for log collection.
--skip-container-delete	Deprecated: do not delete the container after the files have been downloaded. Ignored if --collect-only or --download-only is provided.
-t TIMEOUT, --timeout TIMEOUT	Maximum time to wait for the log collection and container deletion workflows to finish.
-n CONCURRENCY, --concurrency CONCURRENCY	Number of parallel log collection and object deletion tasks to run.
--collect-only	Deprecated: skip log downloads, only collect logs and put in the container
--download-only	Deprecated: skip generation, only download from the provided container
-v VERBOSITY, --verbose VERBOSITY	None

55.48. OVERCLOUD UPDATE CONVERGE

Converge the update on Overcloud nodes. This restores the plan and stack so that normal deployment workflow is back in place.

Usage:

```
openstack overcloud update converge [--templates [TEMPLATES]]
                                     [--stack STACK]
                                     [--timeout <TIMEOUT>]
                                     [--control-scale CONTROL_SCALE]
```

```

[--compute-scale COMPUTE_SCALE]
[--ceph-storage-scale CEPH_STORAGE_SCALE]
[--block-storage-scale BLOCK_STORAGE_SCALE]
[--swift-storage-scale SWIFT_STORAGE_SCALE]
[--control-flavor CONTROL_FLAVOR]
[--compute-flavor COMPUTE_FLAVOR]
[--ceph-storage-flavor CEPH_STORAGE_FLAVOR]
[--block-storage-flavor BLOCK_STORAGE_FLAVOR]
[--swift-storage-flavor SWIFT_STORAGE_FLAVOR]
[--libvirt-type {kvm,qemu}]
[--ntp-server NTP_SERVER]
[--no-proxy NO_PROXY]
[--overcloud-ssh-user OVERCLOUD_SSH_USER]
[--overcloud-ssh-key OVERCLOUD_SSH_KEY]
[--overcloud-ssh-network OVERCLOUD_SSH_NETWORK]
[--overcloud-ssh-enable-timeout
OVERCLOUD_SSH_ENABLE_TIMEOUT]
[--overcloud-ssh-port-timeout OVERCLOUD_SSH_PORT_TIMEOUT]
[--environment-file <HEAT ENVIRONMENT FILE>]
[--environment-directory <HEAT ENVIRONMENT DIRECTORY>]
[--roles-file ROLES_FILE]
[--networks-file NETWORKS_FILE]
[--plan-environment-file PLAN_ENVIRONMENT_FILE]
[--no-cleanup] [--update-plan-only]
[--validation-errors-nonfatal]
[--validation-warnings-fatal]
[--disable-validations]
[--inflight-validations]
[--dry-run] [--run-validations]
[--skip-postconfig]
[--force-postconfig]
[--skip-deploy-identifier]
[--answers-file ANSWERS_FILE]
[--disable-password-generation]
[--deployed-server]
[--config-download]
[--no-config-download]
[--config-download-only]
[--output-dir OUTPUT_DIR]
[--override-ansible-cfg OVERRIDE_ANSIBLE_CFG]
[--config-download-timeout CONFIG_DOWNLOAD_TIMEOUT]
[--deployment-python-interpreter
DEPLOYMENT_PYTHON_INTERPRETER]
[-b <baremetal_deployment.yaml>]
[--limit LIMIT] [--tags TAGS]
[--skip-tags SKIP_TAGS] [-y]

```

Table 55.89. Command arguments

Value	Summary
--templates [TEMPLATES]	The directory containing the heat templates to deploy

Value	Summary
<code>--stack STACK</code>	Stack name to create or update
<code>--timeout <TIMEOUT>, -t <TIMEOUT></code>	Deployment timeout in minutes.
<code>--control-scale CONTROL_SCALE</code>	New number of control nodes. (deprecated. use an environment file and set the parameter <code>ControllerCount</code> . This option will be removed in the "U" release.)
<code>--compute-scale COMPUTE_SCALE</code>	New number of compute nodes. (deprecated. use an environment file and set the parameter <code>ComputeCount</code> . This option will be removed in the "U" release.)
<code>--ceph-storage-scale CEPH_STORAGE_SCALE</code>	New number of ceph storage nodes. (deprecated. use an environment file and set the parameter <code>CephStorageCount</code> . This option will be removed in the "U" release.)
<code>--block-storage-scale BLOCK_STORAGE_SCALE</code>	New number of cinder storage nodes. (deprecated. use an environment file and set the parameter <code>BlockStorageCount</code> . This option will be removed in the "U" release.)
<code>--swift-storage-scale SWIFT_STORAGE_SCALE</code>	New number of swift storage nodes. (deprecated. use an environment file and set the parameter <code>ObjectStorageCount</code> . This option will be removed in the "U" release.)
<code>--control-flavor CONTROL_FLAVOR</code>	Nova flavor to use for control nodes. (deprecated. use an environment file and set the parameter <code>OvercloudControlFlavor</code> . This option will be removed in the "U" release.)
<code>--compute-flavor COMPUTE_FLAVOR</code>	Nova flavor to use for compute nodes. (deprecated. use an environment file and set the parameter <code>OvercloudComputeFlavor</code> . This option will be removed in the "U" release.)
<code>--ceph-storage-flavor CEPH_STORAGE_FLAVOR</code>	Nova flavor to use for ceph storage nodes. (DEPRECATED. Use an environment file and set the parameter <code>OvercloudCephStorageFlavor</code> . This option will be removed in the "U" release.)
<code>--block-storage-flavor BLOCK_STORAGE_FLAVOR</code>	Nova flavor to use for cinder storage nodes (DEPRECATED. Use an environment file and set the parameter <code>OvercloudBlockStorageFlavor</code> . This option will be removed in the "U" release.)

Value	Summary
<code>--swift-storage-flavor SWIFT_STORAGE_FLAVOR</code>	Nova flavor to use for swift storage nodes (DEPRECATED. Use an environment file and set the parameter <code>OvercloudSwiftStorageFlavor</code> . This option will be removed in the "U" release.)
<code>--libvirt-type {kvm,qemu}</code>	Libvirt domain type.
<code>--ntp-server NTP_SERVER</code>	The ntp for overcloud nodes.
<code>--no-proxy NO_PROXY</code>	A comma separated list of hosts that should not be proxied.
<code>--overcloud-ssh-user OVERCLOUD_SSH_USER</code>	User for ssh access to overcloud nodes
<code>--overcloud-ssh-key OVERCLOUD_SSH_KEY</code>	Key path for ssh access to overcloud nodes. When undefined the key will be autodetected.
<code>--overcloud-ssh-network OVERCLOUD_SSH_NETWORK</code>	Network name to use for ssh access to overcloud nodes.
<code>--overcloud-ssh-enable-timeout OVERCLOUD_SSH_ENABLE_TIMEOUT</code>	Timeout for the ssh enable process to finish.
<code>--overcloud-ssh-port-timeout OVERCLOUD_SSH_PORT_TIMEOUT</code>	Timeout for to wait for the ssh port to become active.
<code>--environment-file <HEAT ENVIRONMENT FILE>, -e <HEAT ENVIRONMENT FILE></code>	Environment files to be passed to the heat stack-create or heat stack-update command. (Can be specified more than once.)
<code>--environment-directory <HEAT ENVIRONMENT DIRECTORY></code>	Environment file directories that are automatically added to the heat stack-create or heat stack-update commands. Can be specified more than once. Files in directories are loaded in ascending sort order.
<code>--roles-file ROLES_FILE, -r ROLES_FILE</code>	Roles file, overrides the default <code>roles_data.yaml</code> in the <code>--templates</code> directory. May be an absolute path or the path relative to <code>--templates</code>
<code>--networks-file NETWORKS_FILE, -n NETWORKS_FILE</code>	Networks file, overrides the default <code>network_data.yaml</code> in the <code>--templates</code> directory
<code>--plan-environment-file PLAN_ENVIRONMENT_FILE, -p PLAN_ENVIRONMENT_FILE</code>	Plan environment file, overrides the default <code>plan-environment.yaml</code> in the <code>--templates</code> directory
<code>--no-cleanup</code>	Don't cleanup temporary files, just log their location

Value	Summary
<code>--update-plan-only</code>	Only update the plan. do not perform the actual deployment. NOTE: Will move to a discrete command in a future release.
<code>--validation-errors-nonfatal</code>	Allow the deployment to continue in spite of validation errors. Note that attempting deployment while errors exist is likely to fail.
<code>--validation-warnings-fatal</code>	Exit if there are warnings from the configuration pre-checks.
<code>--disable-validations</code>	Deprecated. disable the pre-deployment validations entirely. These validations are the built-in pre-deployment validations. To enable external validations from tripleo-validations, use the <code>--run-validations</code> flag. These validations are now run via the external validations in tripleo-validations.
<code>--inflight-validations</code>	Activate in-flight validations during the deploy. in-flight validations provide a robust way to ensure deployed services are running right after their activation. Defaults to False.
<code>--dry-run</code>	Only run validations, but do not apply any changes.
<code>--run-validations</code>	Run external validations from the tripleo-validations project.
<code>--skip-postconfig</code>	Skip the overcloud post-deployment configuration.
<code>--force-postconfig</code>	Force the overcloud post-deployment configuration.
<code>--skip-deploy-identifier</code>	Skip generation of a unique identifier for the <code>DeployIdentifier</code> parameter. The software configuration deployment steps will only be triggered if there is an actual change to the configuration. This option should be used with Caution, and only if there is confidence that the software configuration does not need to be run, such as when scaling out certain roles.
<code>--answers-file ANSWERS_FILE</code>	Path to a yaml file with arguments and parameters.
<code>--disable-password-generation</code>	Disable password generation.

Value	Summary
<code>--deployed-server</code>	Use pre-provisioned overcloud nodes. removes baremetal,compute and image services requirements from the undercloud node. Must only be used with the <code>--disable-validations</code> .
<code>--config-download</code>	Run deployment via config-download mechanism. this is now the default, and this CLI options may be removed in the future.
<code>--no-config-download, --stack-only</code>	Disable the config-download workflow and only create the stack and associated OpenStack resources. No software configuration will be applied.
<code>--config-download-only</code>	Disable the stack create/update, and only run the config-download workflow to apply the software configuration.
<code>--output-dir OUTPUT_DIR</code>	Directory to use for saved output when using <code>--config-download</code> . The directory must be writeable by the mistral user. When not specified, the default server side value will be used <code>/var/lib/mistral/<execution id></code> .
<code>--override-ansible-cfg OVERRIDE_ANSIBLE_CFG</code>	Path to ansible configuration file. the configuration in the file will override any configuration used by config-download by default.
<code>--config-download-timeout</code> <code>CONFIG_DOWNLOAD_TIMEOUT</code>	Timeout (in minutes) to use for config-download steps. If unset, will default to however much time is leftover from the <code>--timeout</code> parameter after the stack operation.
<code>--deployment-python-interpreter</code> <code>DEPLOYMENT_PYTHON_INTERPRETER</code>	The path to python interpreter to use for the deployment actions. This may need to be used if deploying on a python2 host from a python3 system or vice versa.
<code>-b <baremetal_deployment.yaml>, --baremetal-deployment <baremetal_deployment.yaml></code>	Configuration file describing the baremetal deployment
<code>--limit LIMIT</code>	A string that identifies a single node or comma-separated list of nodes the config-download Ansible playbook execution will be limited to. For example: <code>--limit "compute-0,compute-1,compute-5"</code> .
<code>--tags TAGS</code>	A list of tags to use when running the config-download ansible-playbook command.

Value	Summary
<code>--skip-tags SKIP_TAGS</code>	A list of tags to skip when running the <code>config-download ansible-playbook</code> command.
<code>-y, --yes</code>	Use <code>-y</code> or <code>--yes</code> to skip the confirmation required before any update operation. Use this with caution!

55.49. OVERCLOUD UPDATE PREPARE

Run `heat stack update` for overcloud nodes to refresh heat stack outputs. The heat stack outputs are what we use later on to generate ansible playbooks which deliver the minor update workflow. This is used as the first step for a minor update of your overcloud.

Usage:

```

openstack overcloud update prepare [--templates [TEMPLATES]]
    [--stack STACK]
    [--timeout <TIMEOUT>]
    [--control-scale CONTROL_SCALE]
    [--compute-scale COMPUTE_SCALE]
    [--ceph-storage-scale CEPH_STORAGE_SCALE]
    [--block-storage-scale BLOCK_STORAGE_SCALE]
    [--swift-storage-scale SWIFT_STORAGE_SCALE]
    [--control-flavor CONTROL_FLAVOR]
    [--compute-flavor COMPUTE_FLAVOR]
    [--ceph-storage-flavor CEPH_STORAGE_FLAVOR]
    [--block-storage-flavor BLOCK_STORAGE_FLAVOR]
    [--swift-storage-flavor SWIFT_STORAGE_FLAVOR]
    [--libvirt-type {kvm,qemu}]
    [--ntp-server NTP_SERVER]
    [--no-proxy NO_PROXY]
    [--overcloud-ssh-user OVERCLOUD_SSH_USER]
    [--overcloud-ssh-key OVERCLOUD_SSH_KEY]
    [--overcloud-ssh-network OVERCLOUD_SSH_NETWORK]
    [--overcloud-ssh-enable-timeout OVERCLOUD_SSH_ENABLE_TIMEOUT]
    [--overcloud-ssh-port-timeout OVERCLOUD_SSH_PORT_TIMEOUT]
    [--environment-file <HEAT ENVIRONMENT FILE>]
    [--environment-directory <HEAT ENVIRONMENT DIRECTORY>]
    [--roles-file ROLES_FILE]
    [--networks-file NETWORKS_FILE]
    [--plan-environment-file PLAN_ENVIRONMENT_FILE]
    [--no-cleanup] [--update-plan-only]
    [--validation-errors-nonfatal]
    [--validation-warnings-fatal]
    [--disable-validations]
    [--inflight-validations] [--dry-run]
    [--run-validations]
    [--skip-postconfig]
    [--force-postconfig]
    [--skip-deploy-identifier]
    [--answers-file ANSWERS_FILE]
    [--disable-password-generation]

```



```

[--deployed-server]
[--config-download]
[--no-config-download]
[--config-download-only]
[--output-dir OUTPUT_DIR]
[--override-ansible-cfg OVERRIDE_ANSIBLE_CFG]
[--config-download-timeout CONFIG_DOWNLOAD_TIMEOUT]
[--deployment-python-interpreter
DEPLOYMENT_PYTHON_INTERPRETER]
[-b <baremetal_deployment.yaml>]
[--limit LIMIT] [--tags TAGS]
[--skip-tags SKIP_TAGS] [-y]

```

Table 55.90. Command arguments

Value	Summary
--templates [TEMPLATES]	The directory containing the heat templates to deploy
--stack STACK	Stack name to create or update
--timeout <TIMEOUT>, -t <TIMEOUT>	Deployment timeout in minutes.
--control-scale CONTROL_SCALE	New number of control nodes. (deprecated. use an environment file and set the parameter ControllerCount. This option will be removed in the "U" release.)
--compute-scale COMPUTE_SCALE	New number of compute nodes. (deprecated. use an environment file and set the parameter ComputeCount. This option will be removed in the "U" release.)
--ceph-storage-scale CEPH_STORAGE_SCALE	New number of ceph storage nodes. (deprecated. use an environment file and set the parameter CephStorageCount. This option will be removed in the "U" release.)
--block-storage-scale BLOCK_STORAGE_SCALE	New number of cinder storage nodes. (deprecated. use an environment file and set the parameter BlockStorageCount. This option will be removed in the "U" release.)
--swift-storage-scale SWIFT_STORAGE_SCALE	New number of swift storage nodes. (deprecated. use an environment file and set the parameter ObjectStorageCount. This option will be removed in the "U" release.)

Value	Summary
<code>--control-flavor CONTROL_FLAVOR</code>	Nova flavor to use for control nodes. (deprecated. use an environment file and set the parameter <code>OvercloudControlFlavor</code> . This option will be removed in the "U" release.)
<code>--compute-flavor COMPUTE_FLAVOR</code>	Nova flavor to use for compute nodes. (deprecated. use an environment file and set the parameter <code>OvercloudComputeFlavor</code> . This option will be removed in the "U" release.)
<code>--ceph-storage-flavor CEPH_STORAGE_FLAVOR</code>	Nova flavor to use for ceph storage nodes. (DEPRECATED. Use an environment file and set the parameter <code>OvercloudCephStorageFlavor</code> . This option will be removed in the "U" release.)
<code>--block-storage-flavor BLOCK_STORAGE_FLAVOR</code>	Nova flavor to use for cinder storage nodes (DEPRECATED. Use an environment file and set the parameter <code>OvercloudBlockStorageFlavor</code> . This option will be removed in the "U" release.)
<code>--swift-storage-flavor SWIFT_STORAGE_FLAVOR</code>	Nova flavor to use for swift storage nodes (DEPRECATED. Use an environment file and set the parameter <code>OvercloudSwiftStorageFlavor</code> . This option will be removed in the "U" release.)
<code>--libvirt-type {kvm,qemu}</code>	Libvirt domain type.
<code>--ntp-server NTP_SERVER</code>	The ntp for overcloud nodes.
<code>--no-proxy NO_PROXY</code>	A comma separated list of hosts that should not be proxied.
<code>--overcloud-ssh-user OVERCLOUD_SSH_USER</code>	User for ssh access to overcloud nodes
<code>--overcloud-ssh-key OVERCLOUD_SSH_KEY</code>	Key path for ssh access to overcloud nodes. When undefined the key will be autodetected.
<code>--overcloud-ssh-network OVERCLOUD_SSH_NETWORK</code>	Network name to use for ssh access to overcloud nodes.
<code>--overcloud-ssh-enable-timeout OVERCLOUD_SSH_ENABLE_TIMEOUT</code>	Timeout for the ssh enable process to finish.
<code>--overcloud-ssh-port-timeout OVERCLOUD_SSH_PORT_TIMEOUT</code>	Timeout for to wait for the ssh port to become active.

Value	Summary
<code>--environment-file <HEAT ENVIRONMENT FILE>, -e <HEAT ENVIRONMENT FILE></code>	Environment files to be passed to the <code>heat stack-create</code> or <code>heat stack-update</code> command. (Can be specified more than once.)
<code>--environment-directory <HEAT ENVIRONMENT DIRECTORY></code>	Environment file directories that are automatically added to the <code>heat stack-create</code> or <code>heat stack-update</code> commands. Can be specified more than once. Files in directories are loaded in ascending sort order.
<code>--roles-file ROLES_FILE, -r ROLES_FILE</code>	Roles file, overrides the default <code>roles_data.yaml</code> in the <code>--templates</code> directory. May be an absolute path or the path relative to <code>--templates</code>
<code>--networks-file NETWORKS_FILE, -n NETWORKS_FILE</code>	Networks file, overrides the default <code>network_data.yaml</code> in the <code>--templates</code> directory
<code>--plan-environment-file PLAN_ENVIRONMENT_FILE, -p PLAN_ENVIRONMENT_FILE</code>	Plan environment file, overrides the default <code>plan-environment.yaml</code> in the <code>--templates</code> directory
<code>--no-cleanup</code>	Don't cleanup temporary files, just log their location
<code>--update-plan-only</code>	Only update the plan. do not perform the actual deployment. NOTE: Will move to a discrete command in a future release.
<code>--validation-errors-nonfatal</code>	Allow the deployment to continue in spite of validation errors. Note that attempting deployment while errors exist is likely to fail.
<code>--validation-warnings-fatal</code>	Exit if there are warnings from the configuration pre-checks.
<code>--disable-validations</code>	Deprecated. disable the pre-deployment validations entirely. These validations are the built-in pre-deployment validations. To enable external validations from <code>tripleo-validations</code> , use the <code>--run-validations</code> flag. These validations are now run via the external validations in <code>tripleo-validations</code> .
<code>--inflight-validations</code>	Activate in-flight validations during the deploy. in-flight validations provide a robust way to ensure deployed services are running right after their activation. Defaults to <code>False</code> .
<code>--dry-run</code>	Only run validations, but do not apply any changes.

Value	Summary
<code>--run-validations</code>	Run external validations from the tripleo-validations project.
<code>--skip-postconfig</code>	Skip the overcloud post-deployment configuration.
<code>--force-postconfig</code>	Force the overcloud post-deployment configuration.
<code>--skip-deploy-identifier</code>	Skip generation of a unique identifier for the <code>DeployIdentifier</code> parameter. The software configuration deployment steps will only be triggered if there is an actual change to the configuration. This option should be used with Caution, and only if there is confidence that the software configuration does not need to be run, such as when scaling out certain roles.
<code>--answers-file ANSWERS_FILE</code>	Path to a yaml file with arguments and parameters.
<code>--disable-password-generation</code>	Disable password generation.
<code>--deployed-server</code>	Use pre-provisioned overcloud nodes. removes baremetal,compute and image services requirements from the undercloud node. Must only be used with the <code>--disable-validations</code> .
<code>--config-download</code>	Run deployment via config-download mechanism. this is now the default, and this CLI options may be removed in the future.
<code>--no-config-download, --stack-only</code>	Disable the config-download workflow and only create the stack and associated OpenStack resources. No software configuration will be applied.
<code>--config-download-only</code>	Disable the stack create/update, and only run the config-download workflow to apply the software configuration.
<code>--output-dir OUTPUT_DIR</code>	Directory to use for saved output when using <code>--config-download</code> . The directory must be writeable by the mistral user. When not specified, the default server side value will be used <code>(/var/lib/mistral/<execution id>)</code> .
<code>--override-ansible-cfg OVERRIDE_ANSIBLE_CFG</code>	Path to ansible configuration file. the configuration in the file will override any configuration used by config-download by default.

Value	Summary
<code>--config-download-timeout</code> <code>CONFIG_DOWNLOAD_TIMEOUT</code>	Timeout (in minutes) to use for config-download steps. If unset, will default to however much time is leftover from the <code>--timeout</code> parameter after the stack operation.
<code>--deployment-python-interpreter</code> <code>DEPLOYMENT_PYTHON_INTERPRETER</code>	The path to python interpreter to use for the deployment actions. This may need to be used if deploying on a python2 host from a python3 system or vice versa.
<code>-b <baremetal_deployment.yaml></code> , <code>--baremetal-deployment <baremetal_deployment.yaml></code>	Configuration file describing the baremetal deployment
<code>--limit LIMIT</code>	A string that identifies a single node or comma-separated list of nodes the config-download Ansible playbook execution will be limited to. For example: <code>--limit "compute-0,compute-1,compute-5"</code> .
<code>--tags TAGS</code>	A list of tags to use when running the config-download ansible-playbook command.
<code>--skip-tags SKIP_TAGS</code>	A list of tags to skip when running the config-download ansible-playbook command.
<code>-y, --yes</code>	Use <code>-y</code> or <code>--yes</code> to skip the confirmation required before any update operation. Use this with caution!

55.50. OVERCLOUD UPDATE RUN

Run minor update ansible playbooks on Overcloud nodes

Usage:

```
openstack overcloud update run [-h] --limit LIMIT [--playbook PLAYBOOK]
                               [--ssh-user SSH_USER]
                               [--static-inventory STATIC_INVENTORY]
                               [--stack STACK] [--no-workflow]
                               [--tags TAGS] [--skip-tags SKIP_TAGS]
                               [-y]
```

Table 55.91. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Value	Summary
<code>--limit LIMIT</code>	A string that identifies a single node or comma-separated list of nodes the config-download Ansible playbook execution will be limited to. For example: <code>--limit "compute-0,compute-1,compute-5"</code> .
<code>--playbook PLAYBOOK</code>	Ansible playbook to use for the minor update. defaults to the special value <code>all</code> which causes all the update playbooks to be executed. That is the <code>update_steps_playbook.yaml</code> and then <code>thedeploy_steps_playbook.yaml</code> . Set this to each of those playbooks in consecutive invocations of this command if you prefer to run them manually. Note: make sure to run both those playbooks so that all services are updated and running with the target version configuration.
<code>--ssh-user SSH_USER</code>	Deprecated: only <code>tripleo-admin</code> should be used as ssh user.
<code>--static-inventory STATIC_INVENTORY</code>	Path to an existing ansible inventory to use. if not specified, one will be generated in <code>~/tripleo-ansible-inventory.yaml</code>
<code>--stack STACK</code>	Name or id of heat stack (default= <code>env: OVERCLOUD_STACK_NAME</code>)
<code>--no-workflow</code>	Run <code>ansible-playbook</code> directly via system command instead of running Ansible via the TripleO mistral workflows.
<code>--tags TAGS</code>	A list of tags to use when running the <code>config-download ansible-playbook</code> command.
<code>--skip-tags SKIP_TAGS</code>	A list of tags to skip when running the <code>config-download ansible-playbook</code> command.
<code>-y, --yes</code>	Use <code>-y</code> or <code>--yes</code> to skip the confirmation required before any update operation. Use this with caution!

55.51. OVERCLOUD UPGRADE CONVERGE

Major upgrade converge - reset Heat resources in the stored plan This is the last step for completion of a overcloud major upgrade. The main task is updating the plan and stack to unblock future stack updates. For the major upgrade workflow we have set specific values for some stack Heat resources. This unsets those back to their default values.

Usage:

-

```

openstack overcloud upgrade converge [--templates [TEMPLATES]]
    [--stack STACK]
    [--timeout <TIMEOUT>]
    [--control-scale CONTROL_SCALE]
    [--compute-scale COMPUTE_SCALE]
    [--ceph-storage-scale CEPH_STORAGE_SCALE]
    [--block-storage-scale BLOCK_STORAGE_SCALE]
    [--swift-storage-scale SWIFT_STORAGE_SCALE]
    [--control-flavor CONTROL_FLAVOR]
    [--compute-flavor COMPUTE_FLAVOR]
    [--ceph-storage-flavor CEPH_STORAGE_FLAVOR]
    [--block-storage-flavor BLOCK_STORAGE_FLAVOR]
    [--swift-storage-flavor SWIFT_STORAGE_FLAVOR]
    [--libvirt-type {kvm,qemu}]
    [--ntp-server NTP_SERVER]
    [--no-proxy NO_PROXY]
    [--overcloud-ssh-user OVERCLOUD_SSH_USER]
    [--overcloud-ssh-key OVERCLOUD_SSH_KEY]
    [--overcloud-ssh-network OVERCLOUD_SSH_NETWORK]
    [--overcloud-ssh-enable-timeout
OVERCLOUD_SSH_ENABLE_TIMEOUT]
    [--overcloud-ssh-port-timeout OVERCLOUD_SSH_PORT_TIMEOUT]
    [--environment-file <HEAT ENVIRONMENT FILE>]
    [--environment-directory <HEAT ENVIRONMENT DIRECTORY>]
    [--roles-file ROLES_FILE]
    [--networks-file NETWORKS_FILE]
    [--plan-environment-file PLAN_ENVIRONMENT_FILE]
    [--no-cleanup]
    [--update-plan-only]
    [--validation-errors-nonfatal]
    [--validation-warnings-fatal]
    [--disable-validations]
    [--inflight-validations]
    [--dry-run] [--run-validations]
    [--skip-postconfig]
    [--force-postconfig]
    [--skip-deploy-identifier]
    [--answers-file ANSWERS_FILE]
    [--disable-password-generation]
    [--deployed-server]
    [--config-download]
    [--no-config-download]
    [--config-download-only]
    [--output-dir OUTPUT_DIR]
    [--override-ansible-cfg OVERRIDE_ANSIBLE_CFG]
    [--config-download-timeout CONFIG_DOWNLOAD_TIMEOUT]
    [--deployment-python-interpreter
DEPLOYMENT_PYTHON_INTERPRETER]
    [-b <baremetal_deployment.yaml>]
    [--limit LIMIT] [--tags TAGS]
    [--skip-tags SKIP_TAGS] [-y]

```

Table 55.92. Command arguments

Value	Summary
<code>--templates [TEMPLATES]</code>	The directory containing the heat templates to deploy
<code>--stack STACK</code>	Stack name to create or update
<code>--timeout <TIMEOUT>, -t <TIMEOUT></code>	Deployment timeout in minutes.
<code>--control-scale CONTROL_SCALE</code>	New number of control nodes. (deprecated. use an environment file and set the parameter <code>ControllerCount</code> . This option will be removed in the "U" release.)
<code>--compute-scale COMPUTE_SCALE</code>	New number of compute nodes. (deprecated. use an environment file and set the parameter <code>ComputeCount</code> . This option will be removed in the "U" release.)
<code>--ceph-storage-scale CEPH_STORAGE_SCALE</code>	New number of ceph storage nodes. (deprecated. use an environment file and set the parameter <code>CephStorageCount</code> . This option will be removed in the "U" release.)
<code>--block-storage-scale BLOCK_STORAGE_SCALE</code>	New number of cinder storage nodes. (deprecated. use an environment file and set the parameter <code>BlockStorageCount</code> . This option will be removed in the "U" release.)
<code>--swift-storage-scale SWIFT_STORAGE_SCALE</code>	New number of swift storage nodes. (deprecated. use an environment file and set the parameter <code>ObjectStorageCount</code> . This option will be removed in the "U" release.)
<code>--control-flavor CONTROL_FLAVOR</code>	Nova flavor to use for control nodes. (deprecated. use an environment file and set the parameter <code>OvercloudControlFlavor</code> . This option will be removed in the "U" release.)
<code>--compute-flavor COMPUTE_FLAVOR</code>	Nova flavor to use for compute nodes. (deprecated. use an environment file and set the parameter <code>OvercloudComputeFlavor</code> . This option will be removed in the "U" release.)
<code>--ceph-storage-flavor CEPH_STORAGE_FLAVOR</code>	Nova flavor to use for ceph storage nodes. (DEPRECATED. Use an environment file and set the parameter <code>OvercloudCephStorageFlavor</code> . This option will be removed in the "U" release.)

Value	Summary
<code>--block-storage-flavor BLOCK_STORAGE_FLAVOR</code>	Nova flavor to use for cinder storage nodes (DEPRECATED. Use an environment file and set the parameter <code>OvercloudBlockStorageFlavor</code> . This option will be removed in the "U" release.)
<code>--swift-storage-flavor SWIFT_STORAGE_FLAVOR</code>	Nova flavor to use for swift storage nodes (DEPRECATED. Use an environment file and set the parameter <code>OvercloudSwiftStorageFlavor</code> . This option will be removed in the "U" release.)
<code>--libvirt-type {kvm,qemu}</code>	Libvirt domain type.
<code>--ntp-server NTP_SERVER</code>	The ntp for overcloud nodes.
<code>--no-proxy NO_PROXY</code>	A comma separated list of hosts that should not be proxied.
<code>--overcloud-ssh-user OVERCLOUD_SSH_USER</code>	User for ssh access to overcloud nodes
<code>--overcloud-ssh-key OVERCLOUD_SSH_KEY</code>	Key path for ssh access to overcloud nodes. When undefined the key will be autodetected.
<code>--overcloud-ssh-network OVERCLOUD_SSH_NETWORK</code>	Network name to use for ssh access to overcloud nodes.
<code>--overcloud-ssh-enable-timeout OVERCLOUD_SSH_ENABLE_TIMEOUT</code>	Timeout for the ssh enable process to finish.
<code>--overcloud-ssh-port-timeout OVERCLOUD_SSH_PORT_TIMEOUT</code>	Timeout for to wait for the ssh port to become active.
<code>--environment-file <HEAT ENVIRONMENT FILE>, -e <HEAT ENVIRONMENT FILE></code>	Environment files to be passed to the heat stack-create or heat stack-update command. (Can be specified more than once.)
<code>--environment-directory <HEAT ENVIRONMENT DIRECTORY></code>	Environment file directories that are automatically added to the heat stack-create or heat stack-update commands. Can be specified more than once. Files in directories are loaded in ascending sort order.
<code>--roles-file ROLES_FILE, -r ROLES_FILE</code>	Roles file, overrides the default <code>roles_data.yaml</code> in the <code>--templates</code> directory. May be an absolute path or the path relative to <code>--templates</code>
<code>--networks-file NETWORKS_FILE, -n NETWORKS_FILE</code>	Networks file, overrides the default <code>network_data.yaml</code> in the <code>--templates</code> directory

Value	Summary
--plan-environment-file PLAN_ENVIRONMENT_FILE, -p PLAN_ENVIRONMENT_FILE	Plan environment file, overrides the default plan-environment.yaml in the --templates directory
--no-cleanup	Don't cleanup temporary files, just log their location
--update-plan-only	Only update the plan. do not perform the actual deployment. NOTE: Will move to a discrete command in a future release.
--validation-errors-nonfatal	Allow the deployment to continue in spite of validation errors. Note that attempting deployment while errors exist is likely to fail.
--validation-warnings-fatal	Exit if there are warnings from the configuration pre-checks.
--disable-validations	Deprecated. disable the pre-deployment validations entirely. These validations are the built-in pre-deployment validations. To enable external validations from tripleo-validations, use the --run-validations flag. These validations are now run via the external validations in tripleo-validations.
--inflight-validations	Activate in-flight validations during the deploy. in-flight validations provide a robust way to ensure deployed services are running right after their activation. Defaults to False.
--dry-run	Only run validations, but do not apply any changes.
--run-validations	Run external validations from the tripleo-validations project.
--skip-postconfig	Skip the overcloud post-deployment configuration.
--force-postconfig	Force the overcloud post-deployment configuration.
--skip-deploy-identifier	Skip generation of a unique identifier for the DeployIdentifier parameter. The software configuration deployment steps will only be triggered if there is an actual change to the configuration. This option should be used with Caution, and only if there is confidence that the software configuration does not need to be run, such as when scaling out certain roles.
--answers-file ANSWERS_FILE	Path to a yaml file with arguments and parameters.

Value	Summary
<code>--disable-password-generation</code>	Disable password generation.
<code>--deployed-server</code>	Use pre-provisioned overcloud nodes. removes baremetal,compute and image services requirements from the undercloud node. Must only be used with the <code>--disable-validations</code> .
<code>--config-download</code>	Run deployment via config-download mechanism. this is now the default, and this CLI options may be removed in the future.
<code>--no-config-download, --stack-only</code>	Disable the config-download workflow and only create the stack and associated OpenStack resources. No software configuration will be applied.
<code>--config-download-only</code>	Disable the stack create/update, and only run the config-download workflow to apply the software configuration.
<code>--output-dir OUTPUT_DIR</code>	Directory to use for saved output when using <code>--config-download</code> . The directory must be writeable by the mistral user. When not specified, the default server side value will be used (<code>/var/lib/mistral/<execution id></code>).
<code>--override-ansible-cfg OVERRIDE_ANSIBLE_CFG</code>	Path to ansible configuration file. the configuration in the file will override any configuration used by config-download by default.
<code>--config-download-timeout CONFIG_DOWNLOAD_TIMEOUT</code>	Timeout (in minutes) to use for config-download steps. If unset, will default to however much time is leftover from the <code>--timeout</code> parameter after the stack operation.
<code>--deployment-python-interpreter DEPLOYMENT_PYTHON_INTERPRETER</code>	The path to python interpreter to use for the deployment actions. This may need to be used if deploying on a python2 host from a python3 system or vice versa.
<code>-b <baremetal_deployment.yaml>, --baremetal-deployment <baremetal_deployment.yaml></code>	Configuration file describing the baremetal deployment
<code>--limit LIMIT</code>	A string that identifies a single node or comma-separated list of nodes the config-download Ansible playbook execution will be limited to. For example: <code>--limit "compute-0,compute-1,compute-5"</code> .

Value	Summary
<code>--tags TAGS</code>	A list of tags to use when running the <code>config-download ansible-playbook</code> command.
<code>--skip-tags SKIP_TAGS</code>	A list of tags to skip when running the <code>config-download ansible-playbook</code> command.
<code>-y, --yes</code>	Use <code>-y</code> or <code>--yes</code> to skip the confirmation required before any upgrade operation. Use this with caution!

55.52. OVERCLOUD UPGRADE PREPARE

Run `heat stack update` for overcloud nodes to refresh heat stack outputs. The heat stack outputs are what we use later on to generate ansible playbooks which deliver the major upgrade workflow. This is used as the first step for a major upgrade of your overcloud.

Usage:

```

openstack overcloud upgrade prepare [--templates [TEMPLATES]]
    [--stack STACK]
    [--timeout <TIMEOUT>]
    [--control-scale CONTROL_SCALE]
    [--compute-scale COMPUTE_SCALE]
    [--ceph-storage-scale CEPH_STORAGE_SCALE]
    [--block-storage-scale BLOCK_STORAGE_SCALE]
    [--swift-storage-scale SWIFT_STORAGE_SCALE]
    [--control-flavor CONTROL_FLAVOR]
    [--compute-flavor COMPUTE_FLAVOR]
    [--ceph-storage-flavor CEPH_STORAGE_FLAVOR]
    [--block-storage-flavor BLOCK_STORAGE_FLAVOR]
    [--swift-storage-flavor SWIFT_STORAGE_FLAVOR]
    [--libvirt-type {kvm,qemu}]
    [--ntp-server NTP_SERVER]
    [--no-proxy NO_PROXY]
    [--overcloud-ssh-user OVERCLOUD_SSH_USER]
    [--overcloud-ssh-key OVERCLOUD_SSH_KEY]
    [--overcloud-ssh-network OVERCLOUD_SSH_NETWORK]
    [--overcloud-ssh-enable-timeout
OVERCLOUD_SSH_ENABLE_TIMEOUT]
    [--overcloud-ssh-port-timeout OVERCLOUD_SSH_PORT_TIMEOUT]
    [--environment-file <HEAT ENVIRONMENT FILE>]
    [--environment-directory <HEAT ENVIRONMENT DIRECTORY>]
    [--roles-file ROLES_FILE]
    [--networks-file NETWORKS_FILE]
    [--plan-environment-file PLAN_ENVIRONMENT_FILE]
    [--no-cleanup] [--update-plan-only]
    [--validation-errors-nonfatal]
    [--validation-warnings-fatal]
    [--disable-validations]
    [--inflight-validations]
    [--dry-run] [--run-validations]
    [--skip-postconfig]

```

```

    [--force-postconfig]
    [--skip-deploy-identifier]
    [--answers-file ANSWERS_FILE]
    [--disable-password-generation]
    [--deployed-server]
    [--config-download]
    [--no-config-download]
    [--config-download-only]
    [--output-dir OUTPUT_DIR]
    [--override-ansible-cfg OVERRIDE_ANSIBLE_CFG]
    [--config-download-timeout CONFIG_DOWNLOAD_TIMEOUT]
    [--deployment-python-interpreter
DEPLOYMENT_PYTHON_INTERPRETER]
    [-b <baremetal_deployment.yaml>]
    [--limit LIMIT] [--tags TAGS]
    [--skip-tags SKIP_TAGS] [-y]

```

Table 55.93. Command arguments

Value	Summary
--templates [TEMPLATES]	The directory containing the heat templates to deploy
--stack STACK	Stack name to create or update
--timeout <TIMEOUT>, -t <TIMEOUT>	Deployment timeout in minutes.
--control-scale CONTROL_SCALE	New number of control nodes. (deprecated. use an environment file and set the parameter ControllerCount. This option will be removed in the "U" release.)
--compute-scale COMPUTE_SCALE	New number of compute nodes. (deprecated. use an environment file and set the parameter ComputeCount. This option will be removed in the "U" release.)
--ceph-storage-scale CEPH_STORAGE_SCALE	New number of ceph storage nodes. (deprecated. use an environment file and set the parameter CephStorageCount. This option will be removed in the "U" release.)
--block-storage-scale BLOCK_STORAGE_SCALE	New number of cinder storage nodes. (deprecated. use an environment file and set the parameter BlockStorageCount. This option will be removed in the "U" release.)
--swift-storage-scale SWIFT_STORAGE_SCALE	New number of swift storage nodes. (deprecated. use an environment file and set the parameter ObjectStorageCount. This option will be removed in the "U" release.)

Value	Summary
<code>--control-flavor CONTROL_FLAVOR</code>	Nova flavor to use for control nodes. (deprecated. use an environment file and set the parameter <code>OvercloudControlFlavor</code> . This option will be removed in the "U" release.)
<code>--compute-flavor COMPUTE_FLAVOR</code>	Nova flavor to use for compute nodes. (deprecated. use an environment file and set the parameter <code>OvercloudComputeFlavor</code> . This option will be removed in the "U" release.)
<code>--ceph-storage-flavor CEPH_STORAGE_FLAVOR</code>	Nova flavor to use for ceph storage nodes. (DEPRECATED. Use an environment file and set the parameter <code>OvercloudCephStorageFlavor</code> . This option will be removed in the "U" release.)
<code>--block-storage-flavor BLOCK_STORAGE_FLAVOR</code>	Nova flavor to use for cinder storage nodes (DEPRECATED. Use an environment file and set the parameter <code>OvercloudBlockStorageFlavor</code> . This option will be removed in the "U" release.)
<code>--swift-storage-flavor SWIFT_STORAGE_FLAVOR</code>	Nova flavor to use for swift storage nodes (DEPRECATED. Use an environment file and set the parameter <code>OvercloudSwiftStorageFlavor</code> . This option will be removed in the "U" release.)
<code>--libvirt-type {kvm,qemu}</code>	Libvirt domain type.
<code>--ntp-server NTP_SERVER</code>	The ntp for overcloud nodes.
<code>--no-proxy NO_PROXY</code>	A comma separated list of hosts that should not be proxied.
<code>--overcloud-ssh-user OVERCLOUD_SSH_USER</code>	User for ssh access to overcloud nodes
<code>--overcloud-ssh-key OVERCLOUD_SSH_KEY</code>	Key path for ssh access to overcloud nodes. When undefined the key will be autodetected.
<code>--overcloud-ssh-network OVERCLOUD_SSH_NETWORK</code>	Network name to use for ssh access to overcloud nodes.
<code>--overcloud-ssh-enable-timeout OVERCLOUD_SSH_ENABLE_TIMEOUT</code>	Timeout for the ssh enable process to finish.
<code>--overcloud-ssh-port-timeout OVERCLOUD_SSH_PORT_TIMEOUT</code>	Timeout for to wait for the ssh port to become active.

Value	Summary
<code>--environment-file <HEAT ENVIRONMENT FILE>, -e <HEAT ENVIRONMENT FILE></code>	Environment files to be passed to the <code>heat stack-create</code> or <code>heat stack-update</code> command. (Can be specified more than once.)
<code>--environment-directory <HEAT ENVIRONMENT DIRECTORY></code>	Environment file directories that are automatically added to the <code>heat stack-create</code> or <code>heat stack-update</code> commands. Can be specified more than once. Files in directories are loaded in ascending sort order.
<code>--roles-file ROLES_FILE, -r ROLES_FILE</code>	Roles file, overrides the default <code>roles_data.yaml</code> in the <code>--templates</code> directory. May be an absolute path or the path relative to <code>--templates</code>
<code>--networks-file NETWORKS_FILE, -n NETWORKS_FILE</code>	Networks file, overrides the default <code>network_data.yaml</code> in the <code>--templates</code> directory
<code>--plan-environment-file PLAN_ENVIRONMENT_FILE, -p PLAN_ENVIRONMENT_FILE</code>	Plan environment file, overrides the default <code>plan-environment.yaml</code> in the <code>--templates</code> directory
<code>--no-cleanup</code>	Don't cleanup temporary files, just log their location
<code>--update-plan-only</code>	Only update the plan. do not perform the actual deployment. NOTE: Will move to a discrete command in a future release.
<code>--validation-errors-nonfatal</code>	Allow the deployment to continue in spite of validation errors. Note that attempting deployment while errors exist is likely to fail.
<code>--validation-warnings-fatal</code>	Exit if there are warnings from the configuration pre-checks.
<code>--disable-validations</code>	Deprecated. disable the pre-deployment validations entirely. These validations are the built-in pre-deployment validations. To enable external validations from <code>tripleo-validations</code> , use the <code>--run-validations</code> flag. These validations are now run via the external validations in <code>tripleo-validations</code> .
<code>--inflight-validations</code>	Activate in-flight validations during the deploy. in-flight validations provide a robust way to ensure deployed services are running right after their activation. Defaults to <code>False</code> .
<code>--dry-run</code>	Only run validations, but do not apply any changes.

Value	Summary
<code>--run-validations</code>	Run external validations from the tripleo-validations project.
<code>--skip-postconfig</code>	Skip the overcloud post-deployment configuration.
<code>--force-postconfig</code>	Force the overcloud post-deployment configuration.
<code>--skip-deploy-identifier</code>	Skip generation of a unique identifier for the <code>DeployIdentifier</code> parameter. The software configuration deployment steps will only be triggered if there is an actual change to the configuration. This option should be used with Caution, and only if there is confidence that the software configuration does not need to be run, such as when scaling out certain roles.
<code>--answers-file ANSWERS_FILE</code>	Path to a yaml file with arguments and parameters.
<code>--disable-password-generation</code>	Disable password generation.
<code>--deployed-server</code>	Use pre-provisioned overcloud nodes. removes baremetal,compute and image services requirements from the undercloud node. Must only be used with the <code>--disable-validations</code> .
<code>--config-download</code>	Run deployment via config-download mechanism. this is now the default, and this CLI options may be removed in the future.
<code>--no-config-download, --stack-only</code>	Disable the config-download workflow and only create the stack and associated OpenStack resources. No software configuration will be applied.
<code>--config-download-only</code>	Disable the stack create/update, and only run the config-download workflow to apply the software configuration.
<code>--output-dir OUTPUT_DIR</code>	Directory to use for saved output when using <code>--config-download</code> . The directory must be writeable by the mistral user. When not specified, the default server side value will be used <code>(/var/lib/mistral/<execution id>)</code> .
<code>--override-ansible-cfg OVERRIDE_ANSIBLE_CFG</code>	Path to ansible configuration file. the configuration in the file will override any configuration used by config-download by default.

Value	Summary
<code>--config-download-timeout</code> <code>CONFIG_DOWNLOAD_TIMEOUT</code>	Timeout (in minutes) to use for config-download steps. If unset, will default to however much time is leftover from the <code>--timeout</code> parameter after the stack operation.
<code>--deployment-python-interpreter</code> <code>DEPLOYMENT_PYTHON_INTERPRETER</code>	The path to python interpreter to use for the deployment actions. This may need to be used if deploying on a python2 host from a python3 system or vice versa.
<code>-b <baremetal_deployment.yaml></code> , <code>--baremetal-deployment <baremetal_deployment.yaml></code>	Configuration file describing the baremetal deployment
<code>--limit LIMIT</code>	A string that identifies a single node or comma-separated list of nodes the config-download Ansible playbook execution will be limited to. For example: <code>--limit "compute-0,compute-1,compute-5"</code> .
<code>--tags TAGS</code>	A list of tags to use when running the config-download ansible-playbook command.
<code>--skip-tags SKIP_TAGS</code>	A list of tags to skip when running the config-download ansible-playbook command.
<code>-y</code> , <code>--yes</code>	Use <code>-y</code> or <code>--yes</code> to skip the confirmation required before any upgrade operation. Use this with caution!

55.53. OVERCLOUD UPGRADE RUN

Run major upgrade ansible playbooks on Overcloud nodes This will run the major upgrade ansible playbooks on the overcloud. By default all playbooks are executed, that is the `upgrade_steps_playbook.yaml` then the `deploy_steps_playbook.yaml` and then the `post_upgrade_steps_playbook.yaml`. The upgrade playbooks are made available after completion of the `overcloud upgrade prepare` command. This `overcloud upgrade run` command is the second step in the major upgrade workflow.

Usage:

```
openstack overcloud upgrade run [-h] --limit LIMIT
                               [--playbook PLAYBOOK]
                               [--static-inventory STATIC_INVENTORY]
                               [--ssh-user SSH_USER] [--tags TAGS]
                               [--skip-tags SKIP_TAGS] [--stack STACK]
                               [--no-workflow] [-y]
```

Table 55.94. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--limit LIMIT	A string that identifies a single node or comma-separated list of nodes the config-download Ansible playbook execution will be limited to. For example: --limit "compute-0,compute-1,compute-5".
--playbook PLAYBOOK	Ansible playbook to use for the major upgrade. Defaults to the special value <i>all</i> which causes all the upgrade playbooks to run. That is the <code>upgrade_steps_playbook.yaml</code> then <code>deploy_steps_playbook.yaml</code> and then <code>post_upgrade_steps_playbook.yaml</code> . Set this to each of those playbooks in consecutive invocations of this command if you prefer to run them manually. Note: you will have to run all of those playbooks so that all services are upgraded and running with the target version configuration.
--static-inventory STATIC_INVENTORY	Path to an existing ansible inventory to use. if not specified, one will be generated in <code>~/tripleo-ansible-inventory.yaml</code>
--ssh-user SSH_USER	Deprecated: only <code>tripleo-admin</code> should be used as ssh user.
--tags TAGS	A string specifying the tag or comma separated list of tags to be passed as <code>--tags</code> to <code>ansible-playbook</code> .
--skip-tags SKIP_TAGS	A string specifying the tag or comma separated list of tags to be passed as <code>--skip-tags</code> to <code>ansible-playbook</code> . The currently supported values are <i>validation</i> and <i>pre-upgrade</i> . In particular <i>validation</i> is useful if you must re-run following a failed upgrade and some services cannot be started.
--stack STACK	Name or id of heat stack (default= <code>env: OVERCLOUD_STACK_NAME</code>)
--no-workflow	Run <code>ansible-playbook</code> directly via system command instead of running Ansible via the TripleO mistral workflows.
-y, --yes	Use <code>-y</code> or <code>--yes</code> to skip the confirmation required before any upgrade operation. Use this with caution!

CHAPTER 56. POLICY

This chapter describes the commands under the **policy** command.

56.1. POLICY CREATE

Create new policy

Usage:

```
openstack policy create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--type <type>]
                        <filename>
```

Table 56.1. Positional arguments

Value	Summary
<filename>	New serialized policy rules file

Table 56.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--type <type>	New mime type of the policy rules file (defaults to application/json)

Table 56.3. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 56.4. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 56.5. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 56.6. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

56.2. POLICY DELETE

Delete policy(s)

Usage:

```
openstack policy delete [-h] <policy> [<policy> ...]
```

Table 56.7. Positional arguments

Value	Summary
<code><policy></code>	Policy(s) to delete

Table 56.8. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

56.3. POLICY LIST

List policies

Usage:

```
openstack policy list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>]
```

```

[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN] [--long]

```

Table 56.9. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output

Table 56.10. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 56.11. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 56.12. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 56.13. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show.

56.4. POLICY SET

Set policy properties

Usage:

```
openstack policy set [-h] [--type <type>] [--rules <filename>] <policy>
```

Table 56.14. Positional arguments

Value	Summary
<code><policy></code>	Policy to modify

Table 56.15. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--type <type></code>	New mime type of the policy rules file
<code>--rules <filename></code>	New serialized policy rules file

56.5. POLICY SHOW

Display policy details

Usage:

```
openstack policy show [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty]
                    <policy>
```

Table 56.16. Positional arguments

Value	Summary
<code><policy></code>	Policy to display

Table 56.17. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 56.18. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 56.19. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 56.20. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 56.21. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 57. PORT

This chapter describes the commands under the **port** command.

57.1. PORT CREATE

Create a new port

Usage:

```
openstack port create [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] --network <network>
                    [--description <description>]
                    [--device <device-id>]
                    [--mac-address <mac-address>]
                    [--device-owner <device-owner>]
                    [--vnic-type <vnic-type>] [--host <host-id>]
                    [--dns-domain dns-domain] [--dns-name <dns-name>]
                    [--fixed-ip subnet=<subnet>,ip-address=<ip-address> | --no-fixed-ip]
                    [--binding-profile <binding-profile>]
                    [--enable | --disable]
                    [--enable-uplink-status-propagation | --disable-uplink-status-propagation]
                    [--project <project>]
                    [--project-domain <project-domain>]
                    [--extra-dhcp-option name=<name>[,value=<value>,ip-version={4,6}]]
                    [--security-group <security-group> | --no-security-group]
                    [--qos-policy <qos-policy>]
                    [--enable-port-security | --disable-port-security]
                    [--allowed-address ip-address=<ip-address>[,mac-address=<mac-address>]]
                    [--tag <tag> | --no-tag]
                    <name>
```

Table 57.1. Positional arguments

Value	Summary
<name>	Name of this port

Table 57.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--network <network>	Network this port belongs to (name or id)
--description <description>	Description of this port
--device <device-id>	Port device id

Value	Summary
<code>--mac-address <mac-address></code>	Mac address of this port (admin only)
<code>--device-owner <device-owner></code>	Device owner of this port. this is the entity that uses the port (for example, network:dhcp).
<code>--vnic-type <vnic-type></code>	Vnic type for this port (direct direct-physical macvtap normal baremetal virtio-forwarder, default: normal)
<code>--host <host-id></code>	Allocate port on host <host-id> (id only)
<code>--dns-domain dns-domain</code>	Set dns domain to this port (requires dns_domain extension for ports)
<code>--dns-name <dns-name></code>	Set dns name for this port (requires dns integration extension)
<code>--fixed-ip subnet=<subnet>,ip-address=<ip-address></code>	Desired ip and/or subnet for this port (name or id): subnet=<subnet>,ip-address=<ip-address> (repeat option to set multiple fixed IP addresses)
<code>--no-fixed-ip</code>	No ip or subnet for this port.
<code>--binding-profile <binding-profile></code>	Custom data to be passed as binding:profile. data may be passed as <key>=<value> or JSON. (repeat option to set multiple binding:profile data)
<code>--enable</code>	Enable port (default)
<code>--disable</code>	Disable port
<code>--enable-uplink-status-propagation</code>	Enable uplink status propagate
<code>--disable-uplink-status-propagation</code>	Disable uplink status propagate (default)
<code>--project <project></code>	Owner's project (name or id)
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
<code>--extra-dhcp-option name=<name>[,value=<value>],ip-version={4,6}</code>	Extra dhcp options to be assigned to this port: name=<name>[,value=<value>],ip-version={4,6} (repeat option to set multiple extra DHCP options)
<code>--security-group <security-group></code>	Security group to associate with this port (name or ID) (repeat option to set multiple security groups)

Value	Summary
<code>--no-security-group</code>	Associate no security groups with this port
<code>--qos-policy <qos-policy></code>	Attach qos policy to this port (name or id)
<code>--enable-port-security</code>	Enable port security for this port (default)
<code>--disable-port-security</code>	Disable port security for this port
<code>--allowed-address ip-address=<ip-address>[,mac-address=<mac-address>]</code>	Add allowed-address pair associated with this port: ip-address=<ip-address>[,mac-address=<mac-address>] (repeat option to set multiple allowed-address pairs)
<code>--tag <tag></code>	Tag to be added to the port (repeat option to set multiple tags)
<code>--no-tag</code>	No tags associated with the port

Table 57.3. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 57.4. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 57.5. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 57.6. Table formatter options

Value	Summary
-------	---------

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

57.2. PORT DELETE

Delete port(s)

Usage:

```
openstack port delete [-h] <port> [<port> ...]
```

Table 57.7. Positional arguments

Value	Summary
<code><port></code>	Port(s) to delete (name or id)

Table 57.8. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

57.3. PORT LIST

List ports

Usage:

```
openstack port list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
  [--quote {all,minimal,none,nonnumeric}]
  [--noindent] [--max-width <integer>] [--fit-width]
  [--print-empty] [--sort-column SORT_COLUMN]
  [--device-owner <device-owner>]
  [--network <network>]
  [--router <router> | --server <server> | --device-id <device-id>]
  [--mac-address <mac-address>] [--long]
  [--project <project>]
```

```

[--project-domain <project-domain>]
[--fixed-ip subnet=<subnet>,ip-address=<ip-address>,ip-substring=<ip-substring>]
[--tags <tag>[,<tag>,...]]
[--any-tags <tag>[,<tag>,...]]
[--not-tags <tag>[,<tag>,...]]
[--not-any-tags <tag>[,<tag>,...]]

```

Table 57.9. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--device-owner <device-owner>	List only ports with the specified device owner. this is the entity that uses the port (for example, network:dhcp).
--network <network>	List only ports connected to this network (name or id)
--router <router>	List only ports attached to this router (name or id)
--server <server>	List only ports attached to this server (name or id)
--device-id <device-id>	List only ports with the specified device id
--mac-address <mac-address>	List only ports with this mac address
--long	List additional fields in output
--project <project>	List ports according to their project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--fixed-ip subnet=<subnet>,ip-address=<ip-address>,ip-substring=<ip-substring>	Desired ip and/or subnet for filtering ports (name or ID): subnet=<subnet>,ip-address=<ip-address>,ip-substring=<ip-substring> (repeat option to set multiple fixed IP addresses)
--tags <tag>[,<tag>,...]	List ports which have all given tag(s) (comma-separated list of tags)
--any-tags <tag>[,<tag>,...]	List ports which have any given tag(s) (comma-separated list of tags)
--not-tags <tag>[,<tag>,...]	Exclude ports which have all given tag(s) (comma-separated list of tags)

Value	Summary
<code>--not-any-tags <tag>[,<tag>,...]</code>	Exclude ports which have any given tag(s) (comma-separated list of tags)

Table 57.10. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 57.11. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 57.12. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 57.13. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

57.4. PORT SET

Set port properties

Usage:

```
openstack port set [-h] [--description <description>]
                  [--device <device-id>] [--mac-address <mac-address>]
                  [--device-owner <device-owner>]
                  [--vnic-type <vnic-type>] [--host <host-id>]
                  [--dns-domain dns-domain] [--dns-name <dns-name>]
                  [--enable | --disable] [--name <name>]
                  [--fixed-ip subnet=<subnet>,ip-address=<ip-address>]
                  [--no-fixed-ip]
                  [--binding-profile <binding-profile>]
                  [--no-binding-profile] [--qos-policy <qos-policy>]
                  [--security-group <security-group>]
                  [--no-security-group]
                  [--enable-port-security | --disable-port-security]
                  [--allowed-address ip-address=<ip-address>[,mac-address=<mac-address>]]
                  [--no-allowed-address]
                  [--data-plane-status <status>] [--tag <tag>]
                  [--no-tag]
                  <port>
```

Table 57.14. Positional arguments

Value	Summary
<port>	Port to modify (name or id)

Table 57.15. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Description of this port
--device <device-id>	Port device id
--mac-address <mac-address>	Mac address of this port (admin only)
--device-owner <device-owner>	Device owner of this port. this is the entity that uses the port (for example, network:dhcp).
--vnic-type <vnic-type>	Vnic type for this port (direct direct-physical macvtap normal baremetal virtio-forwarder, default: normal)
--host <host-id>	Allocate port on host <host-id> (id only)

Value	Summary
<code>--dns-domain dns-domain</code>	Set dns domain to this port (requires dns_domain extension for ports)
<code>--dns-name <dns-name></code>	Set dns name for this port (requires dns integration extension)
<code>--enable</code>	Enable port
<code>--disable</code>	Disable port
<code>--name <name></code>	Set port name
<code>--fixed-ip subnet=<subnet>,ip-address=<ip-address></code>	Desired ip and/or subnet for this port (name or id): subnet=<subnet>,ip-address=<ip-address> (repeat option to set multiple fixed IP addresses)
<code>--no-fixed-ip</code>	Clear existing information of fixed ip addresses.Specify both --fixed-ip and --no-fixed-ip to overwrite the current fixed IP addresses.
<code>--binding-profile <binding-profile></code>	Custom data to be passed as binding:profile. data may be passed as <key>=<value> or JSON. (repeat option to set multiple binding:profile data)
<code>--no-binding-profile</code>	Clear existing information of binding:profile. specify both --binding-profile and --no-binding-profile to overwrite the current binding:profile information.
<code>--qos-policy <qos-policy></code>	Attach qos policy to this port (name or id)
<code>--security-group <security-group></code>	Security group to associate with this port (name or ID) (repeat option to set multiple security groups)
<code>--no-security-group</code>	Clear existing security groups associated with this port
<code>--enable-port-security</code>	Enable port security for this port
<code>--disable-port-security</code>	Disable port security for this port
<code>--allowed-address ip-address=<ip-address>[,mac-address=<mac-address>]</code>	Add allowed-address pair associated with this port: ip-address=<ip-address>[,mac-address=<mac-address>] (repeat option to set multiple allowed-address pairs)

Value	Summary
<code>--no-allowed-address</code>	Clear existing allowed-address pairs associated with this port. (Specify both <code>--allowed-address</code> and <code>--no-allowed-address</code> to overwrite the current allowed-address pairs)
<code>--data-plane-status <status></code>	Set data plane status of this port (active down). Unset it to None with the <i>port unset</i> command (requires data plane status extension)
<code>--tag <tag></code>	Tag to be added to the port (repeat option to set multiple tags)
<code>--no-tag</code>	Clear tags associated with the port. specify both <code>--tag</code> and <code>--no-tag</code> to overwrite current tags

57.5. PORT SHOW

Display port details

Usage:

```
openstack port show [-h] [-f {json,shell,table,value,yaml}] [-c COLUMN]
                   [--noindent] [--prefix PREFIX]
                   [--max-width <integer>] [--fit-width]
                   [--print-empty]
                   <port>
```

Table 57.16. Positional arguments

Value	Summary
<code><port></code>	Port to display (name or id)

Table 57.17. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 57.18. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 57.19. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 57.20. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 57.21. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

57.6. PORT UNSET

Unset port properties

Usage:

```
openstack port unset [-h]
                    [--fixed-ip subnet=<subnet>,ip-address=<ip-address>]
                    [--binding-profile <binding-profile-key>]
                    [--security-group <security-group>]
                    [--allowed-address ip-address=<ip-address>[,mac-address=<mac-address>]]
```

```

[--qos-policy] [--data-plane-status]
[--tag <tag> | --all-tag]
<port>

```

Table 57.22. Positional arguments

Value	Summary
<port>	Port to modify (name or id)

Table 57.23. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--fixed-ip subnet=<subnet>,ip-address=<ip-address>	Desired ip and/or subnet which should be removed from this port (name or ID): subnet=<subnet>,ip-address=<ip-address> (repeat option to unset multiple fixed IP addresses)
--binding-profile <binding-profile-key>	Desired key which should be removed from binding:profile (repeat option to unset multiple binding:profile data)
--security-group <security-group>	Security group which should be removed this port (name or ID) (repeat option to unset multiple security groups)
--allowed-address ip-address=<ip-address>[,mac-address=<mac-address>]	Desired allowed-address pair which should be removed from this port: ip-address=<ip-address> [,mac-address=<mac-address>] (repeat option to unset multiple allowed-address pairs)
--qos-policy	Remove the qos policy attached to the port
--data-plane-status	Clear existing information of data plane status
--tag <tag>	Tag to be removed from the port (repeat option to remove multiple tags)
--all-tag	Clear all tags associated with the port

CHAPTER 58. PROJECT

This chapter describes the commands under the **project** command.

58.1. PROJECT CREATE

Create new project

Usage:

```
openstack project create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--domain <domain>]
                        [--parent <project>]
                        [--description <description>]
                        [--enable | --disable]
                        [--property <key=value>] [--or-show]
                        [--tag <tag>]
                        <project-name>
```

Table 58.1. Positional arguments

Value	Summary
<project-name>	New project name

Table 58.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Domain owning the project (name or id)
--parent <project>	Parent of the project (name or id)
--description <description>	Project description
--enable	Enable project
--disable	Disable project
--property <key=value>	Add a property to <name> (repeat option to set multiple properties)
--or-show	Return existing project

Value	Summary
<code>--tag <tag></code>	Tag to be added to the project (repeat option to set multiple tags)

Table 58.3. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 58.4. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 58.5. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 58.6. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

58.2. PROJECT DELETE

Delete project(s)

Usage:

```
openstack project delete [-h] [--domain <domain>]
                        <project> [<project> ...]
```

Table 58.7. Positional arguments

Value	Summary
<project>	Project(s) to delete (name or id)

Table 58.8. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Domain owning <project> (name or id)

58.3. PROJECT LIST

List projects

Usage:

```
openstack project list [-h] [-f {csv,json,table,value,yaml}]
                      [-c COLUMN]
                      [--quote {all,minimal,none,nonnumeric}]
                      [--noindent] [--max-width <integer>]
                      [--fit-width] [--print-empty]
                      [--sort-column SORT_COLUMN] [--domain <domain>]
                      [--user <user>] [--my-projects] [--long]
                      [--sort <key>[:<direction>]]
                      [--tags <tag>[,<tag>,...]]
                      [--tags-any <tag>[,<tag>,...]]
                      [--not-tags <tag>[,<tag>,...]]
                      [--not-tags-any <tag>[,<tag>,...]]
```

Table 58.9. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Filter projects by <domain> (name or id)
--user <user>	Filter projects by <user> (name or id)
--my-projects	List projects for the authenticated user. supersedes other filters.

Value	Summary
<code>--long</code>	List additional fields in output
<code>--sort <key>[:<direction>]</code>	Sort output by selected keys and directions (asc or desc) (default: asc), repeat this option to specify multiple keys and directions.
<code>--tags <tag>[,<tag>,...]</code>	List projects which have all given tag(s) (comma-separated list of tags)
<code>--tags-any <tag>[,<tag>,...]</code>	List projects which have any given tag(s) (comma-separated list of tags)
<code>--not-tags <tag>[,<tag>,...]</code>	Exclude projects which have all given tag(s) (comma-separated list of tags)
<code>--not-tags-any <tag>[,<tag>,...]</code>	Exclude projects which have any given tag(s) (comma-separated list of tags)

Table 58.10. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 58.11. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 58.12. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 58.13. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

58.4. PROJECT PURGE

Clean resources associated with a project

Usage:

```
openstack project purge [-h] [--dry-run] [--keep-project]
                        [--auth-project | --project <project>]
                        [--project-domain <project-domain>]
```

Table 58.14. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--dry-run</code>	List a project's resources
<code>--keep-project</code>	Clean project resources, but don't delete the project
<code>--auth-project</code>	Delete resources of the project used to authenticate
<code>--project <project></code>	Project to clean (name or id)
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

58.5. PROJECT SET

Set project properties

Usage:

```
openstack project set [-h] [--name <name>] [--domain <domain>]
                      [--description <description>]
                      [--enable | --disable] [--property <key=value>]
```

```

[--tag <tag>] [--clear-tags] [--remove-tag <tag>]
<project>

```

Table 58.15. Positional arguments

Value	Summary
<project>	Project to modify (name or id)

Table 58.16. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set project name
--domain <domain>	Domain owning <project> (name or id)
--description <description>	Set project description
--enable	Enable project
--disable	Disable project
--property <key=value>	Set a property on <project> (repeat option to set multiple properties)
--tag <tag>	Tag to be added to the project (repeat option to set multiple tags)
--clear-tags	Clear tags associated with the project. specify both -tag and --clear-tags to overwrite current tags
--remove-tag <tag>	Tag to be deleted from the project (repeat option to delete multiple tags)

58.6. PROJECT SHOW

Display project details

Usage:

```

openstack project show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--domain <domain>] [--parents]
                        [--children]
                        <project>

```


Table 58.17. Positional arguments

Value	Summary
<project>	Project to display (name or id)

Table 58.18. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Domain owning <project> (name or id)
--parents	Show the project's parents as a list
--children	Show project's subtree (children) as a list

Table 58.19. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 58.20. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 58.21. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 58.22. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 59. PTR

This chapter describes the commands under the **ptr** command.

59.1. PTR RECORD LIST

List floatingip ptr records

Usage:

```
openstack ptr record list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--all-projects]
                        [--edit-managed]
                        [--sudo-project-id SUDO_PROJECT_ID]
```

Table 59.1. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 59.2. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 59.3. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 59.4. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 59.5. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

59.2. PTR RECORD SET

Set floatingip ptr record

Usage:

```
openstack ptr record set [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        [--description DESCRIPTION | --no-description]
                        [--ttl TTL | --no-ttl] [--all-projects]
                        [--edit-managed]
                        [--sudo-project-id SUDO_PROJECT_ID]
                        floatingip_id ptrdname
```

Table 59.6. Positional arguments

Value	Summary
<code>floatingip_id</code>	Floating ip id in format region:floatingip_id
<code>ptrdname</code>	Ptrd name

Table 59.7. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--description DESCRIPTION	Description
--no-description--ttl TTL	Ttl
--no-ttl--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 59.8. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 59.9. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 59.10. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 59.11. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

59.3. PTR RECORD SHOW

Show floatingip ptr record details

Usage:

```
openstack ptr record show [-h] [-f {json,shell,table,value,yaml}]
                          [-c COLUMN] [--noindent] [--prefix PREFIX]
                          [--max-width <integer>] [--fit-width]
                          [--print-empty] [--all-projects]
                          [--edit-managed]
                          [--sudo-project-id SUDO_PROJECT_ID]
                          floatingip_id
```

Table 59.12. Positional arguments

Value	Summary
<code>floatingip_id</code>	Floating ip id in format region:floatingip_id

Table 59.13. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--all-projects</code>	Show results from all projects. default: false
<code>--edit-managed</code>	Edit resources marked as managed. default: false
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None

Table 59.14. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 59.15. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 59.16. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 59.17. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

59.4. PTR RECORD UNSET

Unset floatingip ptr record

Usage:

```
openstack ptr record unset [-h] [--all-projects] [--edit-managed]
                          [--sudo-project-id SUDO_PROJECT_ID]
                          floatingip_id
```

Table 59.18. Positional arguments

Value	Summary
floatingip_id	Floating ip id in format region:floatingip_id

Table 59.19. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

CHAPTER 60. QUOTA

This chapter describes the commands under the **quota** command.

60.1. QUOTA LIST

List quotas for all projects with non-default quota values or list detailed quota informations for requested project

Usage:

```
openstack quota list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>] [--fit-width]
                    [--print-empty] [--sort-column SORT_COLUMN]
                    [--project <project>] [--detail]
                    (--compute | --volume | --network)
```

Table 60.1. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--project <project>	List quotas for this project <project> (name or id)
--detail	Show details about quotas usage
--compute	List compute quota
--volume	List volume quota
--network	List network quota

Table 60.2. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 60.3. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 60.4. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 60.5. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

60.2. QUOTA SET

Set quotas for project or class

Usage:

```

openstack quota set [-h] [--class] [--cores <cores>]
                    [--fixed-ips <fixed-ips>]
                    [--injected-file-size <injected-file-size>]
                    [--injected-path-size <injected-path-size>]
                    [--injected-files <injected-files>]
                    [--instances <instances>] [--key-pairs <key-pairs>]
                    [--properties <properties>] [--ram <ram>]
                    [--server-groups <server-groups>]
                    [--server-group-members <server-group-members>]
                    [--backups <backups>]
                    [--backup-gigabytes <backup-gigabytes>]
                    [--gigabytes <gigabytes>]
                    [--per-volume-gigabytes <per-volume-gigabytes>]
                    [--snapshots <snapshots>] [--volumes <volumes>]
                    [--floating-ips <floating-ips>]
                    [--secgroup-rules <secgroup-rules>]
                    [--secgroups <secgroups>] [--networks <networks>]
                    [--subnets <subnets>] [--ports <ports>]
                    [--routers <routers>]
                    [--rbac-policies <rbac-policies>]

```

```

[--subnetpools <subnetpools>]
[--volume-type <volume-type>]
<project/class>

```

Table 60.6. Positional arguments

Value	Summary
<project/class>	Set quotas for this project or class (name/id)

Table 60.7. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--class	Set quotas for <class>
--cores <cores>	New value for the cores quota
--fixed-ips <fixed-ips>	New value for the fixed-ips quota
--injected-file-size <injected-file-size>	New value for the injected-file-size quota
--injected-path-size <injected-path-size>	New value for the injected-path-size quota
--injected-files <injected-files>	New value for the injected-files quota
--instances <instances>	New value for the instances quota
--key-pairs <key-pairs>	New value for the key-pairs quota
--properties <properties>	New value for the properties quota
--ram <ram>	New value for the ram quota
--server-groups <server-groups>	New value for the server-groups quota
--server-group-members <server-group-members>	New value for the server-group-members quota
--backups <backups>	New value for the backups quota
--backup-gigabytes <backup-gigabytes>	New value for the backup-gigabytes quota
--gigabytes <gigabytes>	New value for the gigabytes quota
--per-volume-gigabytes <per-volume-gigabytes>	New value for the per-volume-gigabytes quota

Value	Summary
--snapshots <snapshots>	New value for the snapshots quota
--volumes <volumes>	New value for the volumes quota
--floating-ips <floating-ips>	New value for the floating-ips quota
--secgroup-rules <secgroup-rules>	New value for the secgroup-rules quota
--secgroups <secgroups>	New value for the secgroups quota
--networks <networks>	New value for the networks quota
--subnets <subnets>	New value for the subnets quota
--ports <ports>	New value for the ports quota
--routers <routers>	New value for the routers quota
--rbac-policies <rbac-policies>	New value for the rbac-policies quota
--subnetpools <subnetpools>	New value for the subnetpools quota
--volume-type <volume-type>	Set quotas for a specific <volume-type>

60.3. QUOTA SHOW

Show quotas for project or class. Specify ``--os-compute-api-version 2.50`` or higher to see ``server-groups`` and ``server-group-members`` output for a given quota class.

Usage:

```
openstack quota show [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--class | --default]
                    [<project/class>]
```

Table 60.8. Positional arguments

Value	Summary
<project/class>	Show quotas for this project or class (name or id)

Table 60.9. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--class	Show quotas for <class>
--default	Show default quotas for <project>

Table 60.10. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 60.11. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 60.12. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 60.13. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 61. RECORDSET

This chapter describes the commands under the **recordset** command.

61.1. RECORDSET CREATE

Create new recordset

Usage:

```
openstack recordset create [-h] [-f {json,shell,table,value,yaml}]
                          [-c COLUMN] [--noindent] [--prefix PREFIX]
                          [--max-width <integer>] [--fit-width]
                          [--print-empty] --record RECORD --type TYPE
                          [--ttl TTL] [--description DESCRIPTION]
                          [--all-projects] [--edit-managed]
                          [--sudo-project-id SUDO_PROJECT_ID]
                          zone_id name
```

Table 61.1. Positional arguments

Value	Summary
zone_id	Zone id
name	Recordset name

Table 61.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--record RECORD	Recordset record, repeat if necessary
--type TYPE	Recordset type
--ttl TTL	Time to live (seconds)
--description DESCRIPTION	Description
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 61.3. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 61.4. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 61.5. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 61.6. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

61.2. RECORDSET DELETE

Delete recordset

Usage:

```
openstack recordset delete [-h] [-f {json,shell,table,value,yaml}]
                          [-c COLUMN] [--noindent] [--prefix PREFIX]
                          [--max-width <integer>] [--fit-width]
                          [--print-empty] [--all-projects]
                          [--edit-managed]
                          [--sudo-project-id SUDO_PROJECT_ID]
                          zone_id id
```

Table 61.7. Positional arguments

Value	Summary
zone_id	Zone id
id	Recordset id

Table 61.8. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 61.9. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 61.10. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 61.11. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 61.12. Table formatter options

Value	Summary
-------	---------

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

61.3. RECORDSET LIST

List recordsets

Usage:

```

openstack recordset list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--name NAME]
                        [--type TYPE] [--data DATA] [--ttl TTL]
                        [--description DESCRIPTION] [--status STATUS]
                        [--action ACTION] [--all-projects]
                        [--edit-managed]
                        [--sudo-project-id SUDO_PROJECT_ID]
                        zone_id

```

Table 61.13. Positional arguments

Value	Summary
<code>zone_id</code>	Zone id. to list all recordsets specify <i>all</i>

Table 61.14. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--name NAME</code>	Recordset name
<code>--type TYPE</code>	Recordset type

Value	Summary
--data DATA	Recordset record data
--ttl TTL	Time to live (seconds)
--description DESCRIPTION	Description
--status STATUS	Recordset status
--action ACTION	Recordset action
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 61.15. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 61.16. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 61.17. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 61.18. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

61.4. RECORDSET SET

Set recordset properties

Usage:

```
openstack recordset set [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--record RECORD]
                        [--description DESCRIPTION | --no-description]
                        [--ttl TTL | --no-ttl] [--all-projects]
                        [--edit-managed]
                        [--sudo-project-id SUDO_PROJECT_ID]
                        zone_id id
```

Table 61.19. Positional arguments

Value	Summary
<code>zone_id</code>	Zone id
<code>id</code>	Recordset id

Table 61.20. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--record RECORD</code>	Recordset record, repeat if necessary
<code>--description DESCRIPTION</code>	Description
<code>--no-description--ttl TTL</code>	Ttl

Value	Summary
<code>--no-ttl--all-projects</code>	Show results from all projects. default: false
<code>--edit-managed</code>	Edit resources marked as managed. default: false
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None

Table 61.21. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 61.22. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 61.23. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 61.24. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

61.5. RECORDSET SHOW

Show recordset details

Usage:

```
openstack recordset show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--all-projects]
                        [--edit-managed]
                        [--sudo-project-id SUDO_PROJECT_ID]
                        zone_id id
```

Table 61.25. Positional arguments

Value	Summary
zone_id	Zone id
id	Recordset id

Table 61.26. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 61.27. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 61.28. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 61.29. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 61.30. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 62. REGION

This chapter describes the commands under the **region** command.

62.1. REGION CREATE

Create new region

Usage:

```
openstack region create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--parent-region <region-id>]
                        [--description <description>]
                        <region-id>
```

Table 62.1. Positional arguments

Value	Summary
<region-id>	New region id

Table 62.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--parent-region <region-id>	Parent region id
--description <description>	New region description

Table 62.3. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 62.4. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 62.5. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 62.6. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

62.2. REGION DELETE

Delete region(s)

Usage:

```
openstack region delete [-h] <region-id> [<region-id> ...]
```

Table 62.7. Positional arguments

Value	Summary
<code><region-id></code>	Region id(s) to delete

Table 62.8. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

62.3. REGION LIST

List regions

Usage:

```
openstack region list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
  [--quote {all,minimal,none,nonnumeric}]
```



```

[--noindent] [--max-width <integer>]
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]
[--parent-region <region-id>]

```

Table 62.9. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--parent-region <region-id>	Filter by parent region id

Table 62.10. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 62.11. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 62.12. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 62.13. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

62.4. REGION SET

Set region properties

Usage:

```
openstack region set [-h] [--parent-region <region-id>]
                    [--description <description>]
                    <region-id>
```

Table 62.14. Positional arguments

Value	Summary
<region-id>	Region to modify

Table 62.15. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--parent-region <region-id>	New parent region id
--description <description>	New region description

62.5. REGION SHOW

Display region details

Usage:

```
openstack region show [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty]
                    <region-id>
```

Table 62.16. Positional arguments

Value	Summary
<region-id>	Region to display

Table 62.17. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 62.18. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 62.19. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 62.20. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 62.21. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 63. REGISTERED

This chapter describes the commands under the **registered** command.

63.1. REGISTERED LIMIT CREATE

Create a registered limit

Usage:

```
openstack registered limit create [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                [--description <description>]
                                [--region <region>] --service
                                <service> --default-limit
                                <default-limit>
                                <resource-name>
```

Table 63.1. Positional arguments

Value	Summary
<resource-name>	The name of the resource to limit

Table 63.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Description of the registered limit
--region <region>	Region for the registered limit to affect
--service <service>	Service responsible for the resource to limit (required)
--default-limit <default-limit>	The default limit for the resources to assume (required)

Table 63.3. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 63.4. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 63.5. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 63.6. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

63.2. REGISTERED LIMIT DELETE

Delete a registered limit

Usage:

```
openstack registered limit delete [-h]
                                <registered-limit-id>
                                [<registered-limit-id> ...]
```

Table 63.7. Positional arguments

Value	Summary
<registered-limit-id>	Registered limit to delete (id)

Table 63.8. Command arguments

Value	Summary
-h, --help	Show this help message and exit

63.3. REGISTERED LIMIT LIST

List registered limits

Usage:

```
openstack registered limit list [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN]
                               [--service <service>]
                               [--resource-name <resource-name>]
                               [--region <region>]
```

Table 63.9. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--service <service>	Service responsible for the resource to limit
--resource-name <resource-name>	The name of the resource to limit
--region <region>	Region for the limit to affect.

Table 63.10. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Value	Summary
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 63.11. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 63.12. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 63.13. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

63.4. REGISTERED LIMIT SET

Update information about a registered limit

Usage:

```
openstack registered limit set [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty] [--service <service>]
                               [--resource-name <resource-name>]
                               [--default-limit <default-limit>]
                               [--description <description>]
                               [--region <region>]
                               <registered-limit-id>
```

■

Table 63.14. Positional arguments

Value	Summary
<registered-limit-id>	Registered limit to update (id)

Table 63.15. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--service <service>	Service to be updated responsible for the resource to limit. Either --service, --resource-name or --region must be different than existing value otherwise it will be duplicate entry
--resource-name <resource-name>	Resource to be updated responsible for the resource to limit. Either --service, --resource-name or --region must be different than existing value otherwise it will be duplicate entry
--default-limit <default-limit>	The default limit for the resources to assume
--description <description>	Description to update of the registered limit
--region <region>	Region for the registered limit to affect. either --service, --resource-name or --region must be different than existing value otherwise it will be duplicate entry

Table 63.16. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 63.17. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 63.18. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 63.19. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

63.5. REGISTERED LIMIT SHOW

Display registered limit details

Usage:

```
openstack registered limit show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty]
                               <registered-limit-id>
```

Table 63.20. Positional arguments

Value	Summary
<code><registered-limit-id></code>	Registered limit to display (id)

Table 63.21. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 63.22. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 63.23. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 63.24. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 63.25. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 64. REQUEST

This chapter describes the commands under the **request** command.

64.1. REQUEST TOKEN AUTHORIZE

Authorize a request token

Usage:

```
openstack request token authorize [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty] --request-key
                                <request-key> --role <role>
```

Table 64.1. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--request-key <request-key>	Request token to authorize (id only) (required)
--role <role>	Roles to authorize (name or id) (repeat option to set multiple values) (required)

Table 64.2. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 64.3. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 64.4. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 64.5. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

64.2. REQUEST TOKEN CREATE

Create a request token

Usage:

```
openstack request token create [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty] --consumer-key
                               <consumer-key> --consumer-secret
                               <consumer-secret> --project <project>
                               [--domain <domain>]
```

Table 64.6. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--consumer-key <consumer-key>	Consumer key (required)
--consumer-secret <consumer-secret>	Consumer secret (required)
--project <project>	Project that consumer wants to access (name or id) (required)
--domain <domain>	Domain owning <project> (name or id)

Table 64.7. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 64.8. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 64.9. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 64.10. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 65. RESOURCE

This chapter describes the commands under the **resource** command.

65.1. RESOURCE MEMBER CREATE

Shares a resource to another tenant.

Usage:

```
openstack resource member create [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                resource_id resource_type member_id
```

Table 65.1. Positional arguments

Value	Summary
resource_id	Resource id to be shared.
resource_type	Resource type.
member_id	Project id to whom the resource is shared to.

Table 65.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 65.3. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 65.4. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 65.5. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 65.6. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

65.2. RESOURCE MEMBER DELETE

Delete a resource sharing relationship.

Usage:

```
openstack resource member delete [-h] resource resource_type member_id
```

Table 65.7. Positional arguments

Value	Summary
resource	Resource id to be shared.
resource_type	Resource type.
member_id	Project id to whom the resource is shared to.

Table 65.8. Command arguments

Value	Summary
-h, --help	Show this help message and exit

65.3. RESOURCE MEMBER LIST

List all members.

Usage:

```

openstack resource member list [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN]
                               [--marker [MARKER]] [--limit [LIMIT]]
                               [--sort_keys [SORT_KEYS]]
                               [--sort_dirs [SORT_DIRS]]
                               [--filter FILTERS]
                               resource_id resource_type

```

Table 65.9. Positional arguments

Value	Summary
resource_id	Resource id to be shared.
resource_type	Resource type.

Table 65.10. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--marker [MARKER]	The last execution uuid of the previous page, displays list of executions after "marker".
--limit [LIMIT]	Maximum number of entries to return in a single result.
--sort_keys [SORT_KEYS]	Comma-separated list of sort keys to sort results by. Default: created_at. Example: mistral execution-list --sort_keys=id,description
--sort_dirs [SORT_DIRS]	Comma-separated list of sort directions. default: asc. Example: mistral execution-list --sort_keys=id,description --sort_dirs=asc,desc
--filter FILTERS	Filters. can be repeated.

Table 65.11. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 65.12. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 65.13. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 65.14. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

65.4. RESOURCE MEMBER SHOW

Show specific member information.

Usage:

```
openstack resource member show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
```

```

[--max-width <integer>] [--fit-width]
[--print-empty] [-m MEMBER_ID]
resource resource_type

```

Table 65.15. Positional arguments

Value	Summary
resource	Resource id to be shared.
resource_type	Resource type.

Table 65.16. Command arguments

Value	Summary
-h, --help	Show this help message and exit
-m MEMBER_ID, --member-id MEMBER_ID	Project id to whom the resource is shared to. no need to provide this param if you are the resource member.

Table 65.17. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 65.18. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 65.19. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 65.20. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

65.5. RESOURCE MEMBER UPDATE

Update resource sharing status.

Usage:

```
openstack resource member update [-h]
    [-f {json,shell,table,value,yaml}]
    [-c COLUMN] [--noindent]
    [--prefix PREFIX]
    [--max-width <integer>] [--fit-width]
    [--print-empty] [-m MEMBER_ID]
    [-s {pending,accepted,rejected}]
    resource_id resource_type
```

Table 65.21. Positional arguments

Value	Summary
<code>resource_id</code>	Resource id to be shared.
<code>resource_type</code>	Resource type.

Table 65.22. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>-m MEMBER_ID, --member-id MEMBER_ID</code>	Project id to whom the resource is shared to. no need to provide this param if you are the resource member.
<code>-s {pending,accepted,rejected}, --status {pending,accepted,rejected}</code>	Status of the sharing.

Table 65.23. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 65.24. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 65.25. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 65.26. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 66. ROLE

This chapter describes the commands under the **role** command.

66.1. ROLE ADD

Adds a role assignment to a user or group on the system, a domain, or a project

Usage:

```
openstack role add [-h]
                   [--system <system> | --domain <domain> | --project <project>]
                   [--user <user> | --group <group>]
                   [--group-domain <group-domain>]
                   [--project-domain <project-domain>]
                   [--user-domain <user-domain>] [--inherited]
                   [--role-domain <role-domain>]
                   <role>
```

Table 66.1. Positional arguments

Value	Summary
<role>	Role to add to <user> (name or id)

Table 66.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--system <system>	Include <system> (all)
--domain <domain>	Include <domain> (name or id)
--project <project>	Include <project> (name or id)
--user <user>	Include <user> (name or id)
--group <group>	Include <group> (name or id)
--group-domain <group-domain>	Domain the group belongs to (name or id). this can be used in case collisions between group names exist.
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Value	Summary
<code>--user-domain <user-domain></code>	Domain the user belongs to (name or id). this can be used in case collisions between user names exist.
<code>--inherited</code>	Specifies if the role grant is inheritable to the sub projects
<code>--role-domain <role-domain></code>	Domain the role belongs to (name or id). this must be specified when the name of a domain specific role is used.

66.2. ROLE ASSIGNMENT LIST

List role assignments

Usage:

```

openstack role assignment list [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN]
                               [--effective] [--role <role>]
                               [--role-domain <role-domain>] [--names]
                               [--user <user>]
                               [--user-domain <user-domain>]
                               [--group <group>]
                               [--group-domain <group-domain>]
                               [--domain <domain> | --project <project> | --system <system>]
                               [--project-domain <project-domain>]
                               [--inherited] [--auth-user]
                               [--auth-project]

```

Table 66.3. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--effective</code>	Returns only effective role assignments
<code>--role <role></code>	Role to filter (name or id)
<code>--role-domain <role-domain></code>	Domain the role belongs to (name or id). this must be specified when the name of a domain specific role is used.
<code>--names</code>	Display names instead of ids

Value	Summary
<code>--user <user></code>	User to filter (name or id)
<code>--user-domain <user-domain></code>	Domain the user belongs to (name or id). this can be used in case collisions between user names exist.
<code>--group <group></code>	Group to filter (name or id)
<code>--group-domain <group-domain></code>	Domain the group belongs to (name or id). this can be used in case collisions between group names exist.
<code>--domain <domain></code>	Domain to filter (name or id)
<code>--project <project></code>	Project to filter (name or id)
<code>--system <system></code>	Filter based on system role assignments
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
<code>--inherited</code>	Specifies if the role grant is inheritable to the sub projects
<code>--auth-user</code>	Only list assignments for the authenticated user
<code>--auth-project</code>	Only list assignments for the project to which the authenticated user's token is scoped

Table 66.4. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 66.5. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 66.6. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 66.7. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

66.3. ROLE CREATE

Create new role

Usage:

```
openstack role create [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--domain <domain>] [--or-show]
                    <role-name>
```

Table 66.8. Positional arguments

Value	Summary
<code><role-name></code>	New role name

Table 66.9. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Value	Summary
<code>--domain <domain></code>	Domain the role belongs to (name or id)
<code>--or-show</code>	Return existing role

Table 66.10. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 66.11. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 66.12. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 66.13. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

66.4. ROLE DELETE

Delete role(s)

Usage:

```
openstack role delete [-h] [--domain <domain>] <role> [<role> ...]
```

Table 66.14. Positional arguments

Value	Summary
<role>	Role(s) to delete (name or id)

Table 66.15. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Domain the role belongs to (name or id)

66.5. ROLE LIST

List roles

Usage:

```
openstack role list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>] [--fit-width]
                    [--print-empty] [--sort-column SORT_COLUMN]
                    [--domain <domain>]
```

Table 66.16. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Include <domain> (name or id)

Table 66.17. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Value	Summary
-------	---------

Table 66.18. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 66.19. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 66.20. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

66.6. ROLE REMOVE

Removes a role assignment from `system/domain/project : user/group`

Usage:

```
openstack role remove [-h]
                      [--system <system> | --domain <domain> | --project <project>]
                      [--user <user> | --group <group>]
                      [--group-domain <group-domain>]
                      [--project-domain <project-domain>]
                      [--user-domain <user-domain>] [--inherited]
                      [--role-domain <role-domain>]
                      <role>
```

Table 66.21. Positional arguments

Value	Summary
<role>	Role to remove (name or id)

Table 66.22. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--system <system>	Include <system> (all)
--domain <domain>	Include <domain> (name or id)
--project <project>	Include <project> (name or id)
--user <user>	Include <user> (name or id)
--group <group>	Include <group> (name or id)
--group-domain <group-domain>	Domain the group belongs to (name or id). this can be used in case collisions between group names exist.
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--user-domain <user-domain>	Domain the user belongs to (name or id). this can be used in case collisions between user names exist.
--inherited	Specifies if the role grant is inheritable to the sub projects
--role-domain <role-domain>	Domain the role belongs to (name or id). this must be specified when the name of a domain specific role is used.

66.7. ROLE SET

Set role properties

Usage:

```
openstack role set [-h] [--domain <domain>] [--name <name>] <role>
```

Table 66.23. Positional arguments

Value	Summary
<role>	Role to modify (name or id)

Table 66.24. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Domain the role belongs to (name or id)
--name <name>	Set role name

66.8. ROLE SHOW

Display role details

Usage:

```
openstack role show [-h] [-f {json,shell,table,value,yaml}] [-c COLUMN]
                    [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--domain <domain>]
                    <role>
```

Table 66.25. Positional arguments

Value	Summary
<role>	Role to display (name or id)

Table 66.26. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Domain the role belongs to (name or id)

Table 66.27. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table

Value	Summary
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 66.28. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 66.29. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 66.30. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 67. ROUTER

This chapter describes the commands under the **router** command.

67.1. ROUTER ADD PORT

Add a port to a router

Usage:

```
openstack router add port [-h] <router> <port>
```

Table 67.1. Positional arguments

Value	Summary
<router>	Router to which port will be added (name or id)
<port>	Port to be added (name or id)

Table 67.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit

67.2. ROUTER ADD SUBNET

Add a subnet to a router

Usage:

```
openstack router add subnet [-h] <router> <subnet>
```

Table 67.3. Positional arguments

Value	Summary
<router>	Router to which subnet will be added (name or id)
<subnet>	Subnet to be added (name or id)

Table 67.4. Command arguments

Value	Summary
-h, --help	Show this help message and exit

67.3. ROUTER CREATE

Create a new router

Usage:

```
openstack router create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--enable | --disable]
                        [--distributed | --centralized]
                        [--ha | --no-ha] [--description <description>]
                        [--project <project>]
                        [--project-domain <project-domain>]
                        [--availability-zone-hint <availability-zone>]
                        [--tag <tag> | --no-tag]
                        <name>
```

Table 67.5. Positional arguments

Value	Summary
<name>	New router name

Table 67.6. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--enable	Enable router (default)
--disable	Disable router
--distributed	Create a distributed router
--centralized	Create a centralized router
--ha	Create a highly available router
--no-ha	Create a legacy router
--description <description>	Set router description
--project <project>	Owner's project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Value	Summary
<code>--availability-zone-hint <availability-zone></code>	Availability zone in which to create this router (Router Availability Zone extension required, repeat option to set multiple availability zones)
<code>--tag <tag></code>	Tag to be added to the router (repeat option to set multiple tags)
<code>--no-tag</code>	No tags associated with the router

Table 67.7. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 67.8. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 67.9. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 67.10. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

67.4. ROUTER DELETE

Delete router(s)

Usage:

```
openstack router delete [-h] <router> [<router> ...]
```

Table 67.11. Positional arguments

Value	Summary
<router>	Router(s) to delete (name or id)

Table 67.12. Command arguments

Value	Summary
-h, --help	Show this help message and exit

67.5. ROUTER LIST

List routers

Usage:

```
openstack router list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
    [--quote {all,minimal,none,nonnumeric}]
    [--noindent] [--max-width <integer>]
    [--fit-width] [--print-empty]
    [--sort-column SORT_COLUMN] [--name <name>]
    [--enable | --disable] [--long]
    [--project <project>]
    [--project-domain <project-domain>]
    [--agent <agent-id>] [--tags <tag>[,<tag>,...]]
    [--any-tags <tag>[,<tag>,...]]
    [--not-tags <tag>[,<tag>,...]]
    [--not-any-tags <tag>[,<tag>,...]]
```

Table 67.13. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	List routers according to their name
--enable	List enabled routers

Value	Summary
<code>--disable</code>	List disabled routers
<code>--long</code>	List additional fields in output
<code>--project <project></code>	List routers according to their project (name or id)
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
<code>--agent <agent-id></code>	List routers hosted by an agent (id only)
<code>--tags <tag>[,<tag>,...]</code>	List routers which have all given tag(s) (comma-separated list of tags)
<code>--any-tags <tag>[,<tag>,...]</code>	List routers which have any given tag(s) (comma-separated list of tags)
<code>--not-tags <tag>[,<tag>,...]</code>	Exclude routers which have all given tag(s) (comma-separated list of tags)
<code>--not-any-tags <tag>[,<tag>,...]</code>	Exclude routers which have any given tag(s) (comma-separated list of tags)

Table 67.14. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 67.15. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 67.16. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 67.17. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

67.6. ROUTER REMOVE PORT

Remove a port from a router

Usage:

```
openstack router remove port [-h] <router> <port>
```

Table 67.18. Positional arguments

Value	Summary
<router>	Router from which port will be removed (name or id)
<port>	Port to be removed and deleted (name or id)

Table 67.19. Command arguments

Value	Summary
-h, --help	Show this help message and exit

67.7. ROUTER REMOVE SUBNET

Remove a subnet from a router

Usage:

```
openstack router remove subnet [-h] <router> <subnet>
```

Table 67.20. Positional arguments

Value	Summary
<router>	Router from which the subnet will be removed (name or id)
<subnet>	Subnet to be removed (name or id)

Table 67.21. Command arguments

Value	Summary
-h, --help	Show this help message and exit

67.8. ROUTER SET

Set router properties

Usage:

```

openstack router set [-h] [--name <name>] [--description <description>]
                    [--enable | --disable]
                    [--distributed | --centralized]
                    [--route destination=<subnet>,gateway=<ip-address>]
                    [--no-route] [--ha | --no-ha]
                    [--external-gateway <network>]
                    [--fixed-ip subnet=<subnet>,ip-address=<ip-address>]
                    [--enable-snat | --disable-snat]
                    [--qos-policy <qos-policy> | --no-qos-policy]
                    [--tag <tag>] [--no-tag]
                    <router>

```

Table 67.22. Positional arguments

Value	Summary
<router>	Router to modify (name or id)

Table 67.23. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set router name
--description <description>	Set router description

Value	Summary
--enable	Enable router
--disable	Disable router
--distributed	Set router to distributed mode (disabled router only)
--centralized	Set router to centralized mode (disabled router only)
--route destination=<subnet>,gateway=<ip-address>	Routes associated with the router destination: destination subnet (in CIDR notation) gateway: nexthop IP address (repeat option to set multiple routes)
--no-route	Clear routes associated with the router. specify both --route and --no-route to overwrite current value of route.
--ha	Set the router as highly available (disabled router only)
--no-ha	Clear high availability attribute of the router (disabled router only)
--external-gateway <network>	External network used as router's gateway (name or id)
--fixed-ip subnet=<subnet>,ip-address=<ip-address>	Desired ip and/or subnet (name or id) on external gateway: subnet=<subnet>,ip-address=<ip-address> (repeat option to set multiple fixed IP addresses)
--enable-snat	Enable source nat on external gateway
--disable-snat	Disable source nat on external gateway
--qos-policy <qos-policy>	Attach qos policy to router gateway ips
--no-qos-policy	Remove qos policy from router gateway ips
--tag <tag>	Tag to be added to the router (repeat option to set multiple tags)
--no-tag	Clear tags associated with the router. specify both --tag and --no-tag to overwrite current tags

67.9. ROUTER SHOW

Display router details

Usage:

```
openstack router show [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty]
                    <router>
```

Table 67.24. Positional arguments

Value	Summary
<router>	Router to display (name or id)

Table 67.25. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 67.26. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 67.27. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 67.28. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 67.29. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

67.10. ROUTER UNSET

Unset router properties

Usage:

```

openstack router unset [-h]
                        [--route destination=<subnet>,gateway=<ip-address>]
                        [--external-gateway] [--qos-policy]
                        [--tag <tag> | --all-tag]
                        <router>

```

Table 67.30. Positional arguments

Value	Summary
<code><router></code>	Router to modify (name or id)

Table 67.31. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--route destination=<subnet>,gateway=<ip-address></code>	Routes to be removed from the router destination: destination subnet (in CIDR notation) gateway: nexthop IP address (repeat option to unset multiple routes)
<code>--external-gateway</code>	Remove external gateway information from the router
<code>--qos-policy</code>	Remove qos policy from router gateway ips
<code>--tag <tag></code>	Tag to be removed from the router (repeat option to remove multiple tags)

Value	Summary
--all-tag	Clear all tags associated with the router

CHAPTER 68. SECRET

This chapter describes the commands under the **secret** command.

68.1. SECRET CONTAINER CREATE

Store a container in Barbican.

Usage:

```
openstack secret container create [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty] [--name NAME]
                                [--type TYPE] [--secret SECRET]
```

Table 68.1. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name NAME, -n NAME	A human-friendly name.
--type TYPE	Type of container to create (default: generic).
--secret SECRET, -s SECRET	One secret to store in a container (can be set multiple times). Example: --secret "private_key=https://url.test/v1/secrets/1-2-3-4"

Table 68.2. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 68.3. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 68.4. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 68.5. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

68.2. SECRET CONTAINER DELETE

Delete a container by providing its href.

Usage:

```
openstack secret container delete [-h] URI
```

Table 68.6. Positional arguments

Value	Summary
URI	The uri reference for the container

Table 68.7. Command arguments

Value	Summary
-h, --help	Show this help message and exit

68.3. SECRET CONTAINER GET

Retrieve a container by providing its URI.

Usage:

```
openstack secret container get [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
```

```

[--max-width <integer>] [--fit-width]
[--print-empty]
URI

```

Table 68.8. Positional arguments

Value	Summary
URI	The uri reference for the container.

Table 68.9. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 68.10. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 68.11. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 68.12. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 68.13. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

68.4. SECRET CONTAINER LIST

List containers.

Usage:

```
openstack secret container list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--limit LIMIT] [--offset OFFSET]
                                [--name NAME] [--type TYPE]
```

Table 68.14. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--limit LIMIT, -l LIMIT	Specify the limit to the number of items to list per page (default: 10; maximum: 100)
--offset OFFSET, -o OFFSET	Specify the page offset (default: 0)
--name NAME, -n NAME	Specify the container name (default: none)
--type TYPE, -t TYPE	Specify the type filter for the list (default: none).

Table 68.15. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Value	Summary
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 68.16. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 68.17. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 68.18. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

68.5. SECRET DELETE

Delete a secret by providing its URI.

Usage:

```
openstack secret delete [-h] URI
```

Table 68.19. Positional arguments

Value	Summary
URI	The uri reference for the secret

Table 68.20. Command arguments

Value	Summary
-h, --help	Show this help message and exit

68.6. SECRET GET

Retrieve a secret by providing its URI.

Usage:

```
openstack secret get [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty]
                    [--decrypt | --payload | --file <filename>]
                    [--payload_content_type PAYLOAD_CONTENT_TYPE]
                    URI
```

Table 68.21. Positional arguments

Value	Summary
URI	The uri reference for the secret.

Table 68.22. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--decrypt, -d	If specified, retrieve the unencrypted secret data.
--payload, -p	If specified, retrieve the unencrypted secret data.
--file <filename>, -F <filename>	If specified, save the payload to a new file with the given filename.
--payload_content_type PAYLOAD_CONTENT_TYPE, -t PAYLOAD_CONTENT_TYPE	The content type of the decrypted secret (default: text/plain).

Table 68.23. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table

Value	Summary
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 68.24. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 68.25. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 68.26. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

68.7. SECRET LIST

List secrets.

Usage:

```
openstack secret list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>]
                    [--fit-width] [--print-empty]
                    [--sort-column SORT_COLUMN] [--limit LIMIT]
                    [--offset OFFSET] [--name NAME]
                    [--algorithm ALGORITHM] [--bit-length BIT_LENGTH]
                    [--mode MODE] [--secret-type SECRET_TYPE]
```

Table 68.27. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--limit LIMIT, -l LIMIT	Specify the limit to the number of items to list per page (default: 10; maximum: 100)
--offset OFFSET, -o OFFSET	Specify the page offset (default: 0)
--name NAME, -n NAME	Specify the secret name (default: none)
--algorithm ALGORITHM, -a ALGORITHM	The algorithm filter for the list(default: none).
--bit-length BIT_LENGTH, -b BIT_LENGTH	The bit length filter for the list (default: 0).
--mode MODE, -m MODE	The algorithm mode filter for the list (default: None).
--secret-type SECRET_TYPE, -s SECRET_TYPE	Specify the secret type (default: none).

Table 68.28. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 68.29. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 68.30. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 68.31. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

68.8. SECRET ORDER CREATE

Create a new order.

Usage:

```

openstack secret order create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent]
                             [--prefix PREFIX] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--name NAME] [--algorithm ALGORITHM]
                             [--bit-length BIT_LENGTH] [--mode MODE]
                             [--payload-content-type PAYLOAD_CONTENT_TYPE]
                             [--expiration EXPIRATION]
                             [--request-type REQUEST_TYPE]
                             [--subject-dn SUBJECT_DN]
                             [--source-container-ref SOURCE_CONTAINER_REF]
                             [--ca-id CA_ID] [--profile PROFILE]
                             [--request-file REQUEST_FILE]
                             type

```

Table 68.32. Positional arguments

Value	Summary
<code>type</code>	The type of the order (key, asymmetric, certificate) to create.

Table 68.33. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--name NAME, -n NAME</code>	A human-friendly name.

Value	Summary
--algorithm ALGORITHM, -a ALGORITHM	The algorithm to be used with the requested key (default: aes).
--bit-length BIT_LENGTH, -b BIT_LENGTH	The bit length of the requested secret key (default: 256).
--mode MODE, -m MODE	The algorithm mode to be used with the requested key (default: cbc).
--payload-content-type PAYLOAD_CONTENT_TYPE, -t PAYLOAD_CONTENT_TYPE	The type/format of the secret to be generated (default: application/octet-stream).
--expiration EXPIRATION, -x EXPIRATION	The expiration time for the secret in iso 8601 format.
--request-type REQUEST_TYPE	The type of the certificate request.
--subject-dn SUBJECT_DN	The subject of the certificate.
--source-container-ref SOURCE_CONTAINER_REF	The source of the certificate when using stored-key requests.
--ca-id CA_ID	The identifier of the ca to use for the certificate request.
--profile PROFILE	The profile of certificate to use.
--request-file REQUEST_FILE	The file containing the csr.

Table 68.34. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 68.35. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 68.36. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 68.37. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

68.9. SECRET ORDER DELETE

Delete an order by providing its href.

Usage:

```
openstack secret order delete [-h] URI
```

Table 68.38. Positional arguments

Value	Summary
URI	The uri reference for the order

Table 68.39. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

68.10. SECRET ORDER GET

Retrieve an order by providing its URI.

Usage:

```
openstack secret order get [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
```

`[--print-empty]`
URI

Table 68.40. Positional arguments

Value	Summary
URI	The uri reference order.

Table 68.41. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 68.42. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 68.43. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 68.44. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 68.45. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show.

68.11. SECRET ORDER LIST

List orders.

Usage:

```
openstack secret order list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN] [--limit LIMIT]
                             [--offset OFFSET]
```

Table 68.46. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--limit LIMIT, -l LIMIT</code>	Specify the limit to the number of items to list per page (default: 10; maximum: 100)
<code>--offset OFFSET, -o OFFSET</code>	Specify the page offset (default: 0)

Table 68.47. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 68.48. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 68.49. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 68.50. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

68.12. SECRET STORE

Store a secret in Barbican.

Usage:

```
openstack secret store [-h] [-f {json,shell,table,value,yaml}]
                       [-c COLUMN] [--noindent] [--prefix PREFIX]
                       [--max-width <integer>] [--fit-width]
                       [--print-empty] [--name NAME]
                       [--secret-type SECRET_TYPE]
                       [--payload-content-type PAYLOAD_CONTENT_TYPE]
                       [--payload-content-encoding PAYLOAD_CONTENT_ENCODING]
                       [--algorithm ALGORITHM]
                       [--bit-length BIT_LENGTH] [--mode MODE]
                       [--expiration EXPIRATION]
                       [--payload PAYLOAD | --file <filename>]
```

Table 68.51. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Value	Summary
<code>--name NAME, -n NAME</code>	A human-friendly name.
<code>--secret-type SECRET_TYPE, -s SECRET_TYPE</code>	The secret type; must be one of symmetric, public, private, certificate, passphrase, opaque (default)
<code>--payload-content-type PAYLOAD_CONTENT_TYPE, -t PAYLOAD_CONTENT_TYPE</code>	The type/format of the provided secret data; "text/plain" is assumed to be UTF-8; required when <code>-payload</code> is supplied.
<code>--payload-content-encoding PAYLOAD_CONTENT_ENCODING, -e PAYLOAD_CONTENT_ENCODING</code>	Required if <code>--payload-content-type</code> is "application/octet-stream".
<code>--algorithm ALGORITHM, -a ALGORITHM</code>	The algorithm (default: aes).
<code>--bit-length BIT_LENGTH, -b BIT_LENGTH</code>	The bit length (default: 256).
<code>--mode MODE, -m MODE</code>	The algorithm mode; used only for reference (default: cbc)
<code>--expiration EXPIRATION, -x EXPIRATION</code>	The expiration time for the secret in iso 8601 format.
<code>--payload PAYLOAD, -p PAYLOAD</code>	The unencrypted secret data.
<code>--file <filename>, -F <filename></code>	File containing the secret payload

Table 68.52. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 68.53. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 68.54. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 68.55. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

68.13. SECRET UPDATE

Update a secret with no payload in Barbican.

Usage:

```
openstack secret update [-h] URI payload
```

Table 68.56. Positional arguments

Value	Summary
URI	The uri reference for the secret.
payload	The unencrypted secret

Table 68.57. Command arguments

Value	Summary
-h, --help	Show this help message and exit

CHAPTER 69. SECURITY

This chapter describes the commands under the **security** command.

69.1. SECURITY GROUP CREATE

Create a new security group

Usage:

```
openstack security group create [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                [--description <description>]
                                [--project <project>]
                                [--project-domain <project-domain>]
                                [--tag <tag> | --no-tag]
                                <name>
```

Table 69.1. Positional arguments

Value	Summary
<name>	New security group name

Table 69.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Security group description
--project <project>	Owner's project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--tag <tag>	Tag to be added to the security group (repeat option to set multiple tags)
--no-tag	No tags associated with the security group

Table 69.3. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 69.4. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 69.5. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 69.6. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

69.2. SECURITY GROUP DELETE

Delete security group(s)

Usage:

```
openstack security group delete [-h] <group> [<group> ...]
```

Table 69.7. Positional arguments

Value	Summary
<code><group></code>	Security group(s) to delete (name or id)

Table 69.8. Command arguments

Value	Summary
-h, --help	Show this help message and exit

69.3. SECURITY GROUP LIST

List security groups

Usage:

```

openstack security group list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--project <project>]
                             [--project-domain <project-domain>]
                             [--tags <tag>[,<tag>,...]]
                             [--any-tags <tag>[,<tag>,...]]
                             [--not-tags <tag>[,<tag>,...]]
                             [--not-any-tags <tag>[,<tag>,...]]

```

Table 69.9. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--project <project>	List security groups according to the project (name or ID)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--tags <tag>[,<tag>,...]	List security group which have all given tag(s) (Comma-separated list of tags)
--any-tags <tag>[,<tag>,...]	List security group which have any given tag(s) (Comma-separated list of tags)
--not-tags <tag>[,<tag>,...]	Exclude security group which have all given tag(s) (Comma-separated list of tags)
--not-any-tags <tag>[,<tag>,...]	Exclude security group which have any given tag(s) (Comma-separated list of tags)

Table 69.10. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 69.11. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 69.12. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 69.13. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

69.4. SECURITY GROUP RULE CREATE

Create a new security group rule

Usage:

```
openstack security group rule create [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
```

```

[--prefix PREFIX]
[--max-width <integer>]
[--fit-width] [--print-empty]
[--remote-ip <ip-address> | --remote-group <group>]
[--description <description>]
[--dst-port <port-range>]
[--icmp-type <icmp-type>]
[--icmp-code <icmp-code>]
[--protocol <protocol>]
[--ingress | --egress]
[--ethertype <ethertype>]
[--project <project>]
[--project-domain <project-domain>]
<group>

```

Table 69.14. Positional arguments

Value	Summary
<group>	Create rule in this security group (name or id)

Table 69.15. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--remote-ip <ip-address>	Remote ip address block (may use cidr notation; default for IPv4 rule: 0.0.0.0/0, default for IPv6 rule: ::/0)
--remote-group <group>	Remote security group (name or id)
--description <description>	Set security group rule description
--dst-port <port-range>	Destination port, may be a single port or a starting and ending port range: 137:139. Required for IP protocols TCP and UDP. Ignored for ICMP IP protocols.
--icmp-type <icmp-type>	Icmp type for icmp ip protocols
--icmp-code <icmp-code>	Icmp code for icmp ip protocols
--protocol <protocol>	Ip protocol (ah, dccp, egp, esp, gre, icmp, igmp, ipv6-encap, ipv6-frag, ipv6-icmp, ipv6-nonxt, ipv6-opts, ipv6-route, ospf, pgm, rsvp, sctp, tcp, udp, udplite, vrrp and integer representations [0-255] or any; default: any (all protocols))

Value	Summary
<code>--ingress</code>	Rule applies to incoming network traffic (default)
<code>--egress</code>	Rule applies to outgoing network traffic
<code>--ethertype <ethertype></code>	Ethertype of network traffic (ipv4, ipv6; default: based on IP protocol)
<code>--project <project></code>	Owner's project (name or id)
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 69.16. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 69.17. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 69.18. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 69.19. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

69.5. SECURITY GROUP RULE DELETE

Delete security group rule(s)

Usage:

```
openstack security group rule delete [-h] <rule> [<rule> ...]
```

Table 69.20. Positional arguments

Value	Summary
<rule>	Security group rule(s) to delete (id only)

Table 69.21. Command arguments

Value	Summary
-h, --help	Show this help message and exit

69.6. SECURITY GROUP RULE LIST

List security group rules

Usage:

```
openstack security group rule list [-h]
                                [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--protocol <protocol>]
                                [--ethertype <ethertype>]
                                [--ingress | --egress] [--long]
                                [<group>]
```

Table 69.22. Positional arguments

Value	Summary
<group>	List all rules in this security group (name or id)

Table 69.23. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--protocol <protocol>	List rules by the ip protocol (ah, dhcp, egp, esp, gre, icmp, igmp, ipv6-encap, ipv6-frag, ipv6-icmp, ipv6-nonxt, ipv6-opts, ipv6-route, ospf, pgm, rsvp, sctp, tcp, udp, udplite, vrrp and integer representations [0-255] or any; default: any (all protocols))
--ethertype <ethertype>	List rules by the ethertype (ipv4 or ipv6)
--ingress	List rules applied to incoming network traffic
--egress	List rules applied to outgoing network traffic
--long	List additional fields in output

Table 69.24. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 69.25. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 69.26. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 69.27. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

69.7. SECURITY GROUP RULE SHOW

Display security group rule details

Usage:

```

openstack security group rule show [-h]
                                  [-f {json,shell,table,value,yaml}]
                                  [-c COLUMN] [--noindent]
                                  [--prefix PREFIX]
                                  [--max-width <integer>]
                                  [--fit-width] [--print-empty]
                                  <rule>

```

Table 69.28. Positional arguments

Value	Summary
<rule>	Security group rule to display (id only)

Table 69.29. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 69.30. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 69.31. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 69.32. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 69.33. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

69.8. SECURITY GROUP SET

Set security group properties

Usage:

```
openstack security group set [-h] [--name <new-name>]
                             [--description <description>]
                             [--tag <tag>] [--no-tag]
                             <group>
```

Table 69.34. Positional arguments

Value	Summary
<group>	Security group to modify (name or id)

Table 69.35. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <new-name>	New security group name
--description <description>	New security group description
--tag <tag>	Tag to be added to the security group (repeat option to set multiple tags)
--no-tag	Clear tags associated with the security group. specify both --tag and --no-tag to overwrite current tags

69.9. SECURITY GROUP SHOW

Display security group details

Usage:

```
openstack security group show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               <group>
```

Table 69.36. Positional arguments

Value	Summary
<group>	Security group to display (name or id)

Table 69.37. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 69.38. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 69.39. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 69.40. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 69.41. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

69.10. SECURITY GROUP UNSET

Unset security group properties

Usage:

```
openstack security group unset [-h] [--tag <tag> | --all-tag] <group>
```

Table 69.42. Positional arguments

Value	Summary
<code><group></code>	Security group to modify (name or id)

Table 69.43. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--tag <tag>	Tag to be removed from the security group (repeat option to remove multiple tags)
--all-tag	Clear all tags associated with the security group

CHAPTER 70. SERVER

This chapter describes the commands under the **server** command.

70.1. SERVER ADD FIXED IP

Add fixed IP address to server

Usage:

```
openstack server add fixed ip [-h] [--fixed-ip-address <ip-address>]
                               <server> <network>
```

Table 70.1. Positional arguments

Value	Summary
<server>	Server to receive the fixed ip address (name or id)
<network>	Network to allocate the fixed ip address from (name or ID)

Table 70.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--fixed-ip-address <ip-address>	Requested fixed ip address

70.2. SERVER ADD FLOATING IP

Add floating IP address to server

Usage:

```
openstack server add floating ip [-h] [--fixed-ip-address <ip-address>]
                                   <server> <ip-address>
```

Table 70.3. Positional arguments

Value	Summary
<server>	Server to receive the floating ip address (name or id)
<ip-address>	Floating ip address to assign to the first available server port (IP only)

Table 70.4. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--fixed-ip-address <ip-address>	Fixed ip address to associate with this floating ip address. The first server port containing the fixed IP address will be used

70.3. SERVER ADD NETWORK

Add network to server

Usage:

```
openstack server add network [-h] <server> <network>
```

Table 70.5. Positional arguments

Value	Summary
<server>	Server to add the network to (name or id)
<network>	Network to add to the server (name or id)

Table 70.6. Command arguments

Value	Summary
-h, --help	Show this help message and exit

70.4. SERVER ADD PORT

Add port to server

Usage:

```
openstack server add port [-h] <server> <port>
```

Table 70.7. Positional arguments

Value	Summary
<server>	Server to add the port to (name or id)
<port>	Port to add to the server (name or id)

Table 70.8. Command arguments

Value	Summary
-h, --help	Show this help message and exit

70.5. SERVER ADD SECURITY GROUP

Add security group to server

Usage:

```
openstack server add security group [-h] <server> <group>
```

Table 70.9. Positional arguments

Value	Summary
<server>	Server (name or id)
<group>	Security group to add (name or id)

Table 70.10. Command arguments

Value	Summary
-h, --help	Show this help message and exit

70.6. SERVER ADD VOLUME

Add volume to server. Specify ``--os-compute-api-version 2.20`` or higher to add a volume to a server with status ``SHELVED`` or ``SHELVED_OFFLOADED``.

Usage:

```
openstack server add volume [-h] [--device <device>] <server> <volume>
```

Table 70.11. Positional arguments

Value	Summary
<server>	Server (name or id)
<volume>	Volume to add (name or id)

Table 70.12. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--device <device>	Server internal device name for volume

70.7. SERVER BACKUP CREATE

Create a server backup image

Usage:

```
openstack server backup create [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty] [--name <image-name>]
                               [--type <backup-type>]
                               [--rotate <count>] [--wait]
                               <server>
```

Table 70.13. Positional arguments

Value	Summary
<server>	Server to back up (name or id)

Table 70.14. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <image-name>	Name of the backup image (default: server name)
--type <backup-type>	Used to populate the backup_type property of the backup image (default: empty)
--rotate <count>	Number of backups to keep (default: 1)
--wait	Wait for backup image create to complete

Table 70.15. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 70.16. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 70.17. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 70.18. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

70.8. SERVER CREATE

Create a new server

Usage:

```
openstack server create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        (--image <image> | --image-property <key=value> | --volume <volume>)
                        --flavor <flavor>
                        [--security-group <security-group>]
                        [--key-name <key-name>]
                        [--property <key=value>]
```

```

--file <dest-filename=source-filename>]
--user-data <user-data>]
--description <description>]
--availability-zone <zone-name>]
--host <host>]
--hypervisor-hostname <hypervisor-hostname>]
--boot-from-volume <volume-size>]
--block-device-mapping <dev-name=mapping>]
--nic <net-id=net-uuid,v4-fixed-ip=ip-addr,v6-fixed-ip=ip-addr,port-id=port-
uuid,auto,none>]
--network <network>] [--port <port>]
--hint <key=value>]
--config-drive <config-drive-volume>|True]
--min <count>] [--max <count>] [--wait
<server-name>

```

Table 70.19. Positional arguments

Value	Summary
<server-name>	New server name

Table 70.20. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--image <image>	Create server boot disk from this image (name or id)
--image-property <key=value>	Image property to be matched
--volume <volume>	Create server using this volume as the boot disk (name or ID). This option automatically creates a block device mapping with a boot index of 0. On many hypervisors (libvirt/kvm for example) this will be device vda. Do not create a duplicate mapping using --block-device-mapping for this volume.
--flavor <flavor>	Create server with this flavor (name or id)
--security-group <security-group>	Security group to assign to this server (name or id) (repeat option to set multiple groups)
--key-name <key-name>	Keypair to inject into this server (optional extension)
--property <key=value>	Set a property on this server (repeat option to set multiple values)

Value	Summary
<code>--file <dest-filename=source-filename></code>	File to inject into image before boot (repeat option to set multiple files)
<code>--user-data <user-data></code>	User data file to serve from the metadata server
<code>--description <description></code>	Set description for the server (supported by <code>--os-compute-api-version 2.19</code> or above)
<code>--availability-zone <zone-name></code>	Select an availability zone for the server
<code>--host <host></code>	Requested host to create servers. admin only by default. (supported by <code>--os-compute-api-version 2.74</code> or above)
<code>--hypervisor-hostname <hypervisor-hostname></code>	Requested hypervisor hostname to create servers. admin only by default. (supported by <code>--os-compute-api-version 2.74</code> or above)
<code>--boot-from-volume <volume-size></code>	When used in conjunction with the <code>--image</code> or <code>--image-property</code> option, this option automatically creates a block device mapping with a boot index of 0 and tells the compute service to create a volume of the given size (in GB) from the specified image and use it as the root disk of the server. The root volume will not be deleted when the server is deleted. This option is mutually exclusive with the <code>--volume</code> option.
<code>--block-device-mapping <dev-name=mapping></code>	Create a block device on the server. Block device mapping in the format <code><dev-name>=<id>:<type>:<size(GB)>:<delete-on-terminate> <dev-name>: block device name, like: vdb, xvdc (required) <id>: Name or ID of the volume, volume snapshot or image (required) <type>: volume, snapshot or image; default: volume (optional) <size(GB)>: volume size if create from image or snapshot (optional) <delete-on-terminate>: true or false; default: false (optional) (optional extension)</code>
<code>--nic <net-id=net-uuid,v4-fixed-ip=ip-addr,v6-fixed-ip=ip-addr,port-id=port-uuid,auto,none></code>	Create a nic on the server. specify option multiple times to create multiple NICs. Either <code>net-id</code> or <code>port-id</code> must be provided, but not both. <code>net-id</code> : attach NIC to network with this UUID, <code>port-id</code> : attach NIC to port with this UUID, <code>v4-fixed-ip</code> : IPv4 fixed address for NIC (optional), <code>v6-fixed-ip</code> : IPv6 fixed address for NIC (optional), <code>none</code> : (v2.37+) no network is attached, <code>auto</code> : (v2.37+) the compute service will automatically allocate a network. Specifying a <code>--nic</code> of <code>auto</code> or <code>none</code> cannot be used with any other <code>--nic</code> value.

Value	Summary
<code>--network <network></code>	Create a nic on the server and connect it to network. Specify option multiple times to create multiple NICs. This is a wrapper for the <code>--nic net-id=<network></code> parameter that provides simple syntax for the standard use case of connecting a new server to a given network. For more advanced use cases, refer to the <code>--nic</code> parameter.
<code>--port <port></code>	Create a nic on the server and connect it to port. Specify option multiple times to create multiple NICs. This is a wrapper for the <code>--nic port-id=<port></code> parameter that provides simple syntax for the standard use case of connecting a new server to a given port. For more advanced use cases, refer to the <code>--nic</code> parameter.
<code>--hint <key=value></code>	Hints for the scheduler (optional extension)
<code>--config-drive <config-drive-volume> True</code>	Use specified volume as the config drive, or <i>true</i> to use an ephemeral drive
<code>--min <count></code>	Minimum number of servers to launch (default=1)
<code>--max <count></code>	Maximum number of servers to launch (default=1)
<code>--wait</code>	Wait for build to complete

Table 70.21. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 70.22. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 70.23. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 70.24. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

70.9. SERVER DELETE

Delete server(s)

Usage:

```
openstack server delete [-h] [--wait] <server> [<server> ...]
```

Table 70.25. Positional arguments

Value	Summary
<server>	Server(s) to delete (name or id)

Table 70.26. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--wait	Wait for delete to complete

70.10. SERVER DUMP CREATE

Create a dump file in server(s) Trigger crash dump in server(s) with features like kdump in Linux. It will create a dump file in the server(s) dumping the server(s)' memory, and also crash the server(s). OSC sees the dump file (server dump) as a kind of resource. This command requires ``--os-compute-api-version`` 2.17 or greater.

Usage:

```
openstack server dump create [-h] <server> [<server> ...]
```

Table 70.27. Positional arguments

Value	Summary
<server>	Server(s) to create dump file (name or id)

Table 70.28. Command arguments

Value	Summary
-h, --help	Show this help message and exit

70.11. SERVER EVENT LIST

List recent events of a server. Specify ``--os-compute-api-version 2.21`` or higher to show events for a deleted server, specified by ID only.

Usage:

```
openstack server event list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN] [--long]
                             <server>
```

Table 70.29. Positional arguments

Value	Summary
<server>	Server to list events (name or id)

Table 70.30. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output

Table 70.31. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 70.32. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 70.33. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 70.34. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

70.12. SERVER EVENT SHOW

Show server event details. Specify `--os-compute-api-version 2.21` or higher to show event details for a deleted server, specified by ID only. Specify `--os-compute-api-version 2.51` or higher to show event details for non-admin users.

Usage:

```
openstack server event show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
```

```

[--print-empty]
<server> <request-id>

```

Table 70.35. Positional arguments

Value	Summary
<server>	Server to show event details (name or id)
<request-id>	Request id of the event to show (id only)

Table 70.36. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 70.37. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 70.38. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 70.39. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 70.40. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

70.13. SERVER GROUP CREATE

Create a new server group.

Usage:

```
openstack server group create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent]
                             [--prefix PREFIX] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--policy <policy>]
                             <name>
```

Table 70.41. Positional arguments

Value	Summary
<code><name></code>	New server group name

Table 70.42. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--policy <policy></code>	Add a policy to <code><name></code> (<i>affinity</i> or <i>anti-affinity</i> , defaults to <i>affinity</i>). Specify <code>--os-compute-api-version 2.15</code> or higher for the <i>soft-affinity</i> or <i>soft-anti-affinity</i> policy.

Table 70.43. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 70.44. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 70.45. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 70.46. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

70.14. SERVER GROUP DELETE

Delete existing server group(s).

Usage:

```
openstack server group delete [-h] <server-group> [<server-group> ...]
```

Table 70.47. Positional arguments

Value	Summary
<server-group>	Server group(s) to delete (name or id)

Table 70.48. Command arguments

Value	Summary
-h, --help	Show this help message and exit

70.15. SERVER GROUP LIST

List all server groups.

Usage:

```
openstack server group list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--all-projects] [--long]
```

Table 70.49. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Display information from all projects (admin only)
--long	List additional fields in output

Table 70.50. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 70.51. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 70.52. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 70.53. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

70.16. SERVER GROUP SHOW

Display server group details.

Usage:

```
openstack server group show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             <server-group>
```

Table 70.54. Positional arguments

Value	Summary
<code><server-group></code>	Server group to display (name or id)

Table 70.55. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 70.56. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 70.57. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 70.58. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 70.59. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

70.17. SERVER IMAGE CREATE

Create a new server disk image from an existing server

Usage:

```
openstack server image create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent]
                             [--prefix PREFIX] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--name <image-name>] [--wait]
                             <server>
```

Table 70.60. Positional arguments

Value	Summary
<code><server></code>	Server to create image (name or id)

Table 70.61. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <image-name>	Name of new disk image (default: server name)
--wait	Wait for operation to complete

Table 70.62. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 70.63. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 70.64. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 70.65. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

70.18. SERVER LIST

List servers

Usage:

```

openstack server list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                      [--quote {all,minimal,none,nonnumeric}]
                      [--noindent] [--max-width <integer>]
                      [--fit-width] [--print-empty]
                      [--sort-column SORT_COLUMN]
                      [--reservation-id <reservation-id>]
                      [--ip <ip-address-regex>]
                      [--ip6 <ip-address-regex>] [--name <name-regex>]
                      [--instance-name <server-name>]
                      [--status <status>] [--flavor <flavor>]
                      [--image <image>] [--host <hostname>]
                      [--all-projects] [--project <project>]
                      [--project-domain <project-domain>]
                      [--user <user>] [--user-domain <user-domain>]
                      [--long] [-n | --name-lookup-one-by-one]
                      [--marker <server>] [--limit <num-servers>]
                      [--deleted] [--changes-before <changes-before>]
                      [--changes-since <changes-since>]
                      [--locked | --unlocked]

```

Table 70.66. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--reservation-id <reservation-id>	Only return instances that match the reservation
--ip <ip-address-regex>	Regular expression to match ip addresses
--ip6 <ip-address-regex>	Regular expression to match ipv6 addresses. note that this option only applies for non-admin users when using ``--os-compute-api-version`` 2.5 or greater.
--name <name-regex>	Regular expression to match names
--instance-name <server-name>	Regular expression to match instance name (admin only)
--status <status>	Search by server status
--flavor <flavor>	Search by flavor (name or id)
--image <image>	Search by image (name or id)
--host <hostname>	Search by hostname
--all-projects	Include all projects (admin only)

Value	Summary
<code>--project <project></code>	Search by project (admin only) (name or id)
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
<code>--user <user></code>	Search by user (admin only) (name or id)
<code>--user-domain <user-domain></code>	Domain the user belongs to (name or id). this can be used in case collisions between user names exist.
<code>--long</code>	List additional fields in output
<code>-n, --no-name-lookup</code>	Skip flavor and image name lookup. mutually exclusive with " <code>--name-lookup-one-by-one</code> " option.
<code>--name-lookup-one-by-one</code>	When looking up flavor and image names, look them up one by one as needed instead of all together (default). Mutually exclusive with " <code>--no-name-lookup -n</code> " option.
<code>--marker <server></code>	The last server of the previous page. display list of servers after marker. Display all servers if not specified. When used with <code>--deleted</code> , the marker must be an ID, otherwise a name or ID can be used.
<code>--limit <num-servers></code>	Maximum number of servers to display. if limit equals -1, all servers will be displayed. If limit is greater than <code>osapi_max_limit</code> option of Nova API, <code>osapi_max_limit</code> will be used instead.
<code>--deleted</code>	Only display deleted servers (admin only).
<code>--changes-before <changes-before></code>	List only servers changed before a certain point of time. The provided time should be an ISO 8061 formatted time (e.g., 2016-03-05T06:27:59Z). (Supported by API versions 2.66 - 2.latest)
<code>--changes-since <changes-since></code>	List only servers changed after a certain point of time. The provided time should be an ISO 8061 formatted time (e.g., 2016-03-04T06:27:59Z).
<code>--locked</code>	Only display locked servers. requires <code>--os-compute-api-version` ` 2.73</code> or greater.
<code>--unlocked</code>	Only display unlocked servers. requires <code>--os-compute-api-version` ` 2.73</code> or greater.

Table 70.67. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 70.68. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 70.69. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 70.70. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

70.19. SERVER LOCK

Lock server(s). A non-admin user will not be able to execute actions

Usage:

```
openstack server lock [-h] [--reason <reason>] <server> [<server> ...]
```

Table 70.71. Positional arguments

Value	Summary
<server>	Server(s) to lock (name or id)

Table 70.72. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--reason <reason>	Reason for locking the server(s). requires ``--os-compute-api-version`` 2.73 or greater.

70.20. SERVER MIGRATE

Migrate server to different host

Usage:

```

openstack server migrate [-h] [--live-migration]
                        [--live <hostname> | --host <hostname>]
                        [--shared-migration | --block-migration]
                        [--disk-overcommit | --no-disk-overcommit]
                        [--wait]
                        <server>

```

Table 70.73. Positional arguments

Value	Summary
<server>	Server (name or id)

Table 70.74. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--live-migration	Live migrate the server. use the ``--host`` option to specify a target host for the migration which will be validated by the scheduler.

Value	Summary
<code>--live <hostname></code>	deprecated this option is problematic in that it requires a host and prior to compute API version 2.30, specifying a host during live migration will bypass validation by the scheduler which could result in failures to actually migrate the server to the specified host or over-subscribe the host. Use the <code>--live-migration</code> option instead. If both this option and <code>--live-migration</code> are used, <code>--live-migration</code> takes priority.
<code>--host <hostname></code>	Migrate the server to the specified host. requires <code>--os-compute-api-version</code> 2.30 or greater when used with the <code>--live-migration</code> option, otherwise requires <code>--os-compute-api-version</code> 2.56 or greater.
<code>--shared-migration</code>	Perform a shared live migration (default)
<code>--block-migration</code>	Perform a block live migration
<code>--disk-overcommit</code>	Allow disk over-commit on the destination host
<code>--no-disk-overcommit</code>	Do not over-commit disk on the destination host (default)
<code>--wait</code>	Wait for migrate to complete

70.21. SERVER PAUSE

Pause server(s)

Usage:

```
openstack server pause [-h] <server> [<server> ...]
```

Table 70.75. Positional arguments

Value	Summary
<code><server></code>	Server(s) to pause (name or id)

Table 70.76. Command arguments

Value	Summary
-h, --help	Show this help message and exit

70.22. SERVER REBOOT

Perform a hard or soft server reboot

Usage:

```
openstack server reboot [-h] [--hard | --soft] [--wait] <server>
```

Table 70.77. Positional arguments

Value	Summary
<server>	Server (name or id)

Table 70.78. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--hard	Perform a hard reboot
--soft	Perform a soft reboot
--wait	Wait for reboot to complete

70.23. SERVER REBUILD

Rebuild server

Usage:

```
openstack server rebuild [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--image <image>]
                        [--password <password>]
                        [--property <key=value>]
                        [--description <description>] [--wait]
                        [--key-name <key-name> | --key-unset]
                        <server>
```

Table 70.79. Positional arguments

Value	Summary
<server>	Server (name or id)

Table 70.80. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--image <image>	Recreate server from the specified image (name or id). Defaults to the currently used one.
--password <password>	Set the password on the rebuilt instance
--property <key=value>	Set a property on the rebuilt instance (repeat option to set multiple values)
--description <description>	New description for the server (supported by --os-compute-api-version 2.19 or above)
--wait	Wait for rebuild to complete
--key-name <key-name>	Set the key name of key pair on the rebuilt instance. Cannot be specified with the --key-unset option. (Supported by API versions 2.54 - 2.latest)
--key-unset	Unset the key name of key pair on the rebuilt instance. Cannot be specified with the --key-name option. (Supported by API versions 2.54 - 2.latest)

Table 70.81. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 70.82. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 70.83. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 70.84. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

70.24. SERVER REMOVE FIXED IP

Remove fixed IP address from server

Usage:

```
openstack server remove fixed ip [-h] <server> <ip-address>
```

Table 70.85. Positional arguments

Value	Summary
<server>	Server to remove the fixed ip address from (name or id)
<ip-address>	Fixed ip address to remove from the server (ip only)

Table 70.86. Command arguments

Value	Summary
-h, --help	Show this help message and exit

70.25. SERVER REMOVE FLOATING IP

Remove floating IP address from server

Usage:


```
openstack server remove floating ip [-h] <server> <ip-address>
```

Table 70.87. Positional arguments

Value	Summary
<server>	Server to remove the floating ip address from (name or id)
<ip-address>	Floating ip address to remove from server (ip only)

Table 70.88. Command arguments

Value	Summary
-h, --help	Show this help message and exit

70.26. SERVER REMOVE NETWORK

Remove all ports of a network from server

Usage:

```
openstack server remove network [-h] <server> <network>
```

Table 70.89. Positional arguments

Value	Summary
<server>	Server to remove the port from (name or id)
<network>	Network to remove from the server (name or id)

Table 70.90. Command arguments

Value	Summary
-h, --help	Show this help message and exit

70.27. SERVER REMOVE PORT

Remove port from server

Usage:

```
openstack server remove port [-h] <server> <port>
```

Table 70.91. Positional arguments

Value	Summary
<server>	Server to remove the port from (name or id)
<port>	Port to remove from the server (name or id)

Table 70.92. Command arguments

Value	Summary
-h, --help	Show this help message and exit

70.28. SERVER REMOVE SECURITY GROUP

Remove security group from server

Usage:

```
openstack server remove security group [-h] <server> <group>
```

Table 70.93. Positional arguments

Value	Summary
<server>	Name or id of server to use
<group>	Name or id of security group to remove from server

Table 70.94. Command arguments

Value	Summary
-h, --help	Show this help message and exit

70.29. SERVER REMOVE VOLUME

Remove volume from server. Specify `--os-compute-api-version 2.20` or higher to remove a volume from a server with status `SHELVED` or `SHELVED_OFFLOADED`.

Usage:

```
openstack server remove volume [-h] <server> <volume>
```

Table 70.95. Positional arguments

Value	Summary
<server>	Server (name or id)
<volume>	Volume to remove (name or id)

Table 70.96. Command arguments

Value	Summary
-h, --help	Show this help message and exit

70.30. SERVER RESCUE

Put server in rescue mode

Usage:

```
openstack server rescue [-h] [--image <image>] [--password <password>]
                        <server>
```

Table 70.97. Positional arguments

Value	Summary
<server>	Server (name or id)

Table 70.98. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--image <image>	Image (name or id) to use for the rescue mode. Defaults to the currently used one.
--password <password>	Set the password on the rescued instance

70.31. SERVER RESIZE CONFIRM

Confirm server resize. Confirm (verify) success of resize operation and release the old server.

Usage:

```
openstack server resize confirm [-h] <server>
```

Table 70.99. Positional arguments

Value	Summary
<server>	Server (name or id)

Table 70.100. Command arguments

Value	Summary
-h, --help	Show this help message and exit

70.32. SERVER RESIZE REVERT

Revert server resize. Revert the resize operation. Release the new server and restart the old one.

Usage:

```
openstack server resize revert [-h] <server>
```

Table 70.101. Positional arguments

Value	Summary
<server>	Server (name or id)

Table 70.102. Command arguments

Value	Summary
-h, --help	Show this help message and exit

70.33. SERVER RESIZE

Scale server to a new flavor. A resize operation is implemented by creating a new server and copying the contents of the original disk into a new one. It is also a two-step process for the user: the first is to perform the *resize*, the second is to either confirm (verify) success and release the old server, or to declare a *revert* to release the new server and restart the old one.

Usage:

```
openstack server resize [-h] [--flavor <flavor> | --confirm | --revert]
                        [--wait]
                        <server>
```

Table 70.103. Positional arguments

Value	Summary
<server>	Server (name or id)

Table 70.104. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--flavor <flavor>	Resize server to specified flavor
--confirm	Confirm server resize is complete
--revert	Restore server state before resize
--wait	Wait for resize to complete

70.34. SERVER RESTORE

Restore server(s)

Usage:

```
openstack server restore [-h] <server> [<server> ...]
```

Table 70.105. Positional arguments

Value	Summary
<server>	Server(s) to restore (name or id)

Table 70.106. Command arguments

Value	Summary
-h, --help	Show this help message and exit

70.35. SERVER RESUME

Resume server(s)

Usage:

```
openstack server resume [-h] <server> [<server> ...]
```

Table 70.107. Positional arguments

Value	Summary
<server>	Server(s) to resume (name or id)

Table 70.108. Command arguments

Value	Summary
-h, --help	Show this help message and exit

70.36. SERVER SET

Set server properties

Usage:

```
openstack server set [-h] [--name <new-name>] [--root-password]
                    [--property <key=value>] [--state <state>]
                    [--description <description>]
                    <server>
```

Table 70.109. Positional arguments

Value	Summary
<server>	Server (name or id)

Table 70.110. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <new-name>	New server name
--root-password	Set new root password (interactive only)
--property <key=value>	Property to add/change for this server (repeat option to set multiple properties)
--state <state>	New server state (valid value: active, error)
--description <description>	New server description (supported by --os-compute-api- version 2.19 or above)

70.37. SERVER SHELVE

Shelve server(s)

Usage:

```
openstack server shelve [-h] <server> [<server> ...]
```

Table 70.111. Positional arguments

Value	Summary
<server>	Server(s) to shelve (name or id)

Table 70.112. Command arguments

Value	Summary
-h, --help	Show this help message and exit

70.38. SERVER SHOW

Show server details. Specify ``--os-compute-api-version 2.47`` or higher to see the embedded flavor information for the server.

Usage:

```
openstack server show [-h] [-f {json,shell,table,value,yaml}]
    [-c COLUMN] [--noindent] [--prefix PREFIX]
    [--max-width <integer>] [--fit-width]
    [--print-empty] [--diagnostics]
    <server>
```

Table 70.113. Positional arguments

Value	Summary
<server>	Server (name or id)

Table 70.114. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--diagnostics	Display server diagnostics information

Table 70.115. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 70.116. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 70.117. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 70.118. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

70.39. SERVER SSH

SSH to server

Usage:

```
openstack server ssh [-h] [--login <login-name>] [--port <port>]
                    [--identity <keyfile>] [--option <config-options>]
                    [-4 | -6]
                    [--public | --private | --address-type <address-type>]
                    <server>
```

Table 70.119. Positional arguments

Value	Summary
<server>	Server (name or id)

Table 70.120. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--login <login-name>	Login name (ssh -l option)
--port <port>	Destination port (ssh -p option)
--identity <keyfile>	Private key file (ssh -i option)
--option <config-options>	Options in ssh_config(5) format (ssh -o option)
-4	Use only ipv4 addresses
-6	Use only ipv6 addresses
--public	Use public ip address
--private	Use private ip address
--address-type <address-type>	Use other ip address (public, private, etc)

70.40. SERVER START

Start server(s).

Usage:

```
openstack server start [-h] <server> [<server> ...]
```

Table 70.121. Positional arguments

Value	Summary
<server>	Server(s) to start (name or id)

Table 70.122. Command arguments

Value	Summary
-h, --help	Show this help message and exit

70.41. SERVER STOP

Stop server(s).

Usage:

```
openstack server stop [-h] <server> [<server> ...]
```

Table 70.123. Positional arguments

Value	Summary
<server>	Server(s) to stop (name or id)

Table 70.124. Command arguments

Value	Summary
-h, --help	Show this help message and exit

70.42. SERVER SUSPEND

Suspend server(s)

Usage:

```
openstack server suspend [-h] <server> [<server> ...]
```

Table 70.125. Positional arguments

Value	Summary
<server>	Server(s) to suspend (name or id)

Table 70.126. Command arguments

Value	Summary
-h, --help	Show this help message and exit

70.43. SERVER UNLOCK

Unlock server(s)

Usage:

```
openstack server unlock [-h] <server> [<server> ...]
```

Table 70.127. Positional arguments

Value	Summary
<server>	Server(s) to unlock (name or id)

Table 70.128. Command arguments

Value	Summary
-h, --help	Show this help message and exit

70.44. SERVER UNPAUSE

Unpause server(s)

Usage:

```
openstack server unpause [-h] <server> [<server> ...]
```

Table 70.129. Positional arguments

Value	Summary
<server>	Server(s) to unpause (name or id)

Table 70.130. Command arguments

Value	Summary
-h, --help	Show this help message and exit

70.45. SERVER UNRESCUE

Restore server from rescue mode

Usage:

```
openstack server unrescue [-h] <server>
```

Table 70.131. Positional arguments

Value	Summary
<server>	Server (name or id)

Table 70.132. Command arguments

Value	Summary
-h, --help	Show this help message and exit

70.46. SERVER UNSET

Unset server properties

Usage:

```
openstack server unset [-h] [--property <key>] [--description] <server>
```

Table 70.133. Positional arguments

Value	Summary
<server>	Server (name or id)

Table 70.134. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--property <key>	Property key to remove from server (repeat option to remove multiple values)
--description	Unset server description (supported by --os-compute-api- version 2.19 or above)

70.47. SERVER UNSHELVE

Unshelve server(s)

Usage:

```
openstack server unshelve [-h] [--availability-zone AVAILABILITY_ZONE]
                           <server> [<server> ...]
```

Table 70.135. Positional arguments

Value	Summary
<server>	Server(s) to unshelve (name or id)

Table 70.136. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--availability-zone AVAILABILITY_ZONE	Name of the availability zone in which to unshelve a SHELVED_OFFLOADED server (supported by --os-compute-api-version 2.77 or above)

CHAPTER 71. SERVICE

This chapter describes the commands under the **service** command.

71.1. SERVICE CREATE

Create new service

Usage:

```
openstack service create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--name <name>]
                        [--description <description>]
                        [--enable | --disable]
                        <type>
```

Table 71.1. Positional arguments

Value	Summary
<type>	New service type (compute, image, identity, volume, etc)

Table 71.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	New service name
--description <description>	New service description
--enable	Enable service (default)
--disable	Disable service

Table 71.3. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 71.4. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 71.5. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 71.6. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

71.2. SERVICE DELETE

Delete service(s)

Usage:

```
openstack service delete [-h] <service> [<service> ...]
```

Table 71.7. Positional arguments

Value	Summary
<code><service></code>	Service(s) to delete (type, name or id)

Table 71.8. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

71.3. SERVICE LIST

List services

Usage:

```
openstack service list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--long]
```

Table 71.9. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output

Table 71.10. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 71.11. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 71.12. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 71.13. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

71.4. SERVICE PROVIDER CREATE

Create new service provider

Usage:

```

openstack service provider create [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty] --auth-url <auth-url>
                                [--description <description>]
                                --service-provider-url <sp-url>
                                [--enable | --disable]
                                <name>

```

Table 71.14. Positional arguments

Value	Summary
<code><name></code>	New service provider name (must be unique)

Table 71.15. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--auth-url <auth-url></code>	Authentication url of remote federated service provider (required)
<code>--description <description></code>	New service provider description
<code>--service-provider-url <sp-url></code>	A service url where saml assertions are being sent (required)

Value	Summary
<code>--enable</code>	Enable the service provider (default)
<code>--disable</code>	Disable the service provider

Table 71.16. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 71.17. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 71.18. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 71.19. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

71.5. SERVICE PROVIDER DELETE

Delete service provider(s)

Usage:

```

openstack service provider delete [-h]
                                <service-provider>
                                [<service-provider> ...]

```

Table 71.20. Positional arguments

Value	Summary
<service-provider>	Service provider(s) to delete

Table 71.21. Command arguments

Value	Summary
-h, --help	Show this help message and exit

71.6. SERVICE PROVIDER LIST

List service providers

Usage:

```

openstack service provider list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]

```

Table 71.22. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 71.23. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 71.24. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 71.25. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 71.26. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

71.7. SERVICE PROVIDER SET

Set service provider properties

Usage:

```

openstack service provider set [-h] [--auth-url <auth-url>]
                               [--description <description>]
                               [--service-provider-url <sp-url>]
                               [--enable | --disable]
                               <service-provider>

```

Table 71.27. Positional arguments

Value	Summary
<code><service-provider></code>	Service provider to modify

Table 71.28. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--auth-url <auth-url>	New authentication url of remote federated service provider
--description <description>	New service provider description
--service-provider-url <sp-url>	New service provider url, where saml assertions are sent
--enable	Enable the service provider
--disable	Disable the service provider

71.8. SERVICE PROVIDER SHOW

Display service provider details

Usage:

```
openstack service provider show [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <service-provider>
```

Table 71.29. Positional arguments

Value	Summary
<service-provider>	Service provider to display

Table 71.30. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 71.31. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table

Value	Summary
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 71.32. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 71.33. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 71.34. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

71.9. SERVICE SET

Set service properties

Usage:

```

openstack service set [-h] [--type <type>] [--name <service-name>]
                    [--description <description>]
                    [--enable | --disable]
                    <service>

```

Table 71.35. Positional arguments

Value	Summary
<service>	Service to modify (type, name or id)

Table 71.36. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--type <type>	New service type (compute, image, identity, volume, etc)
--name <service-name>	New service name
--description <description>	New service description
--enable	Enable service
--disable	Disable service

71.10. SERVICE SHOW

Display service details

Usage:

```
openstack service show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty]
                        <service>
```

Table 71.37. Positional arguments

Value	Summary
<service>	Service to display (type, name or id)

Table 71.38. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 71.39. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table

Value	Summary
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 71.40. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 71.41. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 71.42. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 72. SFC

This chapter describes the commands under the **sfc** command.

72.1. SFC FLOW CLASSIFIER CREATE

Create a flow classifier

Usage:

```
openstack sfc flow classifier create [-h]
                                   [-f {json,shell,table,value,yaml}]
                                   [-c COLUMN] [--noindent]
                                   [--prefix PREFIX]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   [--description <description>]
                                   [--protocol <protocol>]
                                   [--ethertype {IPv4,IPv6}]
                                   [--source-port <min-port>:<max-port>]
                                   [--destination-port <min-port>:<max-port>]
                                   [--source-ip-prefix <source-ip-prefix>]
                                   [--destination-ip-prefix <destination-ip-prefix>]
                                   [--logical-source-port <logical-source-port>]
                                   [--logical-destination-port <logical-destination-port>]
                                   [--l7-parameters L7_PARAMETERS]
                                   <name>
```

Table 72.1. Positional arguments

Value	Summary
<name>	Name of the flow classifier

Table 72.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Description for the flow classifier
--protocol <protocol>	Ip protocol name. protocol name should be as per iana standard.
--ethertype {IPv4,IPv6}	L2 ethertype, default is ipv4
--source-port <min-port>:<max-port>	Source protocol port (allowed range [1,65535]. must be specified as a:b, where a=min-port and b=max-port) in the allowed range.

Value	Summary
<code>--destination-port <min-port>:<max-port></code>	Destination protocol port (allowed range [1,65535]. Must be specified as a:b, where a=min-port and b=max-port) in the allowed range.
<code>--source-ip-prefix <source-ip-prefix></code>	Source ip address in cidr notation
<code>--destination-ip-prefix <destination-ip-prefix></code>	Destination ip address in cidr notation
<code>--logical-source-port <logical-source-port></code>	Neutron source port (name or id)
<code>--logical-destination-port <logical-destination-port></code>	Neutron destination port (name or id)
<code>--l7-parameters L7_PARAMETERS</code>	Dictionary of l7 parameters. currently, no value is supported for this option.

Table 72.3. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 72.4. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 72.5. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 72.6. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

72.2. SFC FLOW CLASSIFIER DELETE

Delete a given flow classifier

Usage:

```
openstack sfc flow classifier delete [-h] <flow-classifier>
```

Table 72.7. Positional arguments

Value	Summary
<code><flow-classifier></code>	Flow classifier to delete (name or id)

Table 72.8. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

72.3. SFC FLOW CLASSIFIER LIST

List flow classifiers

Usage:

```
openstack sfc flow classifier list [-h]
                                [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN] [--long]
```

Table 72.9. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Value	Summary
<code>--long</code>	List additional fields in output

Table 72.10. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 72.11. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 72.12. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 72.13. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

72.4. SFC FLOW CLASSIFIER SET

Set flow classifier properties

Usage:

```
openstack sfc flow classifier set [-h] [--name <name>]
                                [--description <description>]
                                <flow-classifier>
```

Table 72.14. Positional arguments

Value	Summary
<flow-classifier>	Flow classifier to modify (name or id)

Table 72.15. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Name of the flow classifier
--description <description>	Description for the flow classifier

72.5. SFC FLOW CLASSIFIER SHOW

Display flow classifier details

Usage:

```
openstack sfc flow classifier show [-h]
                                   [-f {json,shell,table,value,yaml}]
                                   [-c COLUMN] [--noindent]
                                   [--prefix PREFIX]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   <flow-classifier>
```

Table 72.16. Positional arguments

Value	Summary
<flow-classifier>	Flow classifier to display (name or id)

Table 72.17. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 72.18. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 72.19. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 72.20. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 72.21. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

72.6. SFC PORT CHAIN CREATE

Create a port chain

Usage:

```
openstack sfc port chain create [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty]
                               [--description <description>]
                               [--flow-classifier <flow-classifier>]
```

```

[--chain-parameters correlation=<correlation-type>,symmetric=<boolean>]
--port-pair-group <port-pair-group>
<name>

```

Table 72.22. Positional arguments

Value	Summary
<name>	Name of the port chain

Table 72.23. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Description for the port chain
--flow-classifier <flow-classifier>	Add flow classifier (name or id). this option can be repeated.
--chain-parameters correlation=<correlation-type>,symmetric=<boolean>	Dictionary of chain parameters. supports correlation=(mpls nsh) (default is mpls) and symmetric=(true false).
--port-pair-group <port-pair-group>	Add port pair group (name or id). this option can be repeated.

Table 72.24. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 72.25. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 72.26. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 72.27. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

72.7. SFC PORT CHAIN DELETE

Delete a given port chain

Usage:

```
openstack sfc port chain delete [-h] <port-chain>
```

Table 72.28. Positional arguments

Value	Summary
<code><port-chain></code>	Port chain to delete (name or id)

Table 72.29. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

72.8. SFC PORT CHAIN LIST

List port chains

Usage:

```
openstack sfc port chain list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
```



```

[--noindent] [--max-width <integer>]
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN] [--long]

```

Table 72.30. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output

Table 72.31. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 72.32. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 72.33. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 72.34. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

72.9. SFC PORT CHAIN SET

Set port chain properties

Usage:

```

openstack sfc port chain set [-h] [--name <name>]
                             [--description <description>]
                             [--flow-classifier <flow-classifier>]
                             [--no-flow-classifier]
                             [--port-pair-group <port-pair-group>]
                             [--no-port-pair-group]
                             <port-chain>

```

Table 72.35. Positional arguments

Value	Summary
<port-chain>	Port chain to modify (name or id)

Table 72.36. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Name of the port chain
--description <description>	Description for the port chain
--flow-classifier <flow-classifier>	Add flow classifier (name or id). this option can be repeated.
--no-flow-classifier	Remove associated flow classifiers from the port chain
--port-pair-group <port-pair-group>	Add port pair group (name or id). current port pair groups order is kept, the added port pair group will be placed at the end of the port chain. This option can be repeated.

Value	Summary
<code>--no-port-pair-group</code>	Remove associated port pair groups from the port chain. At least one <code>--port-pair-group</code> must be specified together.

72.10. SFC PORT CHAIN SHOW

Display port chain details

Usage:

```
openstack sfc port chain show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent]
                             [--prefix PREFIX] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             <port-chain>
```

Table 72.37. Positional arguments

Value	Summary
<code><port-chain></code>	Port chain to display (name or id)

Table 72.38. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 72.39. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 72.40. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 72.41. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 72.42. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

72.11. SFC PORT CHAIN UNSET

Unset port chain properties

Usage:

```

openstack sfc port chain unset [-h]
                               [--flow-classifier <flow-classifier> | --all-flow-classifier]
                               [--port-pair-group <port-pair-group>]
                               <port-chain>

```

Table 72.43. Positional arguments

Value	Summary
<code><port-chain></code>	Port chain to unset (name or id)

Table 72.44. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--flow-classifier <flow-classifier></code>	Remove flow classifier(s) from the port chain (name or ID). This option can be repeated.
<code>--all-flow-classifier</code>	Remove all flow classifiers from the port chain

Value	Summary
<code>--port-pair-group <port-pair-group></code>	Remove port pair group(s) from the port chain (name or ID). This option can be repeated.

72.12. SFC PORT PAIR CREATE

Create a port pair

Usage:

```

openstack sfc port pair create [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty]
                               [--description <description>]
                               [--service-function-parameters correlation=<correlation-type>,weight=
<weight>]
                               --ingress <ingress> --egress <egress>
                               <name>

```

Table 72.45. Positional arguments

Value	Summary
<code><name></code>	Name of the port pair

Table 72.46. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--description <description></code>	Description for the port pair
<code>--service-function-parameters correlation=<correlation-type>,weight=<weight></code>	Dictionary of service function parameters. currently, correlation=(None impls nsh) and weight are supported. Weight is an integer that influences the selection of a port pair within a port pair group for a flow. The higher the weight, the more flows will hash to the port pair. The default weight is 1.
<code>--ingress <ingress></code>	Ingress neutron port (name or id)
<code>--egress <egress></code>	Egress neutron port (name or id)

Table 72.47. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 72.48. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 72.49. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 72.50. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

72.13. SFC PORT PAIR DELETE

Delete a given port pair

Usage:

```
openstack sfc port pair delete [-h] <port-pair>
```

Table 72.51. Positional arguments

Value	Summary
<code><port-pair></code>	Port pair to delete (name or id)

Table 72.52. Command arguments

Value	Summary
-h, --help	Show this help message and exit

72.14. SFC PORT PAIR GROUP CREATE

Create a port pair group

Usage:

```
openstack sfc port pair group create [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--description <description>]
                                     [--port-pair <port-pair>]
                                     [--enable-tap | --disable-tap]
                                     [--port-pair-group-parameters lb-fields=<lb-fields>]
                                     <name>
```

Table 72.53. Positional arguments

Value	Summary
<name>	Name of the port pair group

Table 72.54. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Description for the port pair group
--port-pair <port-pair>	Port pair (name or id). this option can be repeated.
--enable-tap	Port pairs of this port pair group are deployed as passive tap service function
--disable-tap	Port pairs of this port pair group are deployed as l3 service function (default)
--port-pair-group-parameters lb-fields=<lb-fields>	Dictionary of port pair group parameters. currently only one parameter lb-fields is supported. <lb-fields> is a & separated list of load-balancing fields.

Table 72.55. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 72.56. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 72.57. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 72.58. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

72.15. SFC PORT PAIR GROUP DELETE

Delete a given port pair group

Usage:

```
openstack sfc port pair group delete [-h] <port-pair-group>
```

Table 72.59. Positional arguments

Value	Summary
<port-pair-group>	Port pair group to delete (name or id)

Table 72.60. Command arguments

Value	Summary
-h, --help	Show this help message and exit

72.16. SFC PORT PAIR GROUP LIST

List port pair group

Usage:

```
openstack sfc port pair group list [-h]
                                [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN] [--long]
```

Table 72.61. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output

Table 72.62. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 72.63. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 72.64. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 72.65. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

72.17. SFC PORT PAIR GROUP SET

Set port pair group properties

Usage:

```
openstack sfc port pair group set [-h] [--name <name>]
                                [--description <description>]
                                [--port-pair <port-pair>]
                                [--no-port-pair]
                                <port-pair-group>
```

Table 72.66. Positional arguments

Value	Summary
<code><port-pair-group></code>	Port pair group to modify (name or id)

Table 72.67. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Value	Summary
<code>--name <name></code>	Name of the port pair group
<code>--description <description></code>	Description for the port pair group
<code>--port-pair <port-pair></code>	Port pair (name or id). this option can be repeated.
<code>--no-port-pair</code>	Remove all port pair from port pair group

72.18. SFC PORT PAIR GROUP SHOW

Display port pair group details

Usage:

```
openstack sfc port pair group show [-h]
                                   [-f {json,shell,table,value,yaml}]
                                   [-c COLUMN] [--noindent]
                                   [--prefix PREFIX]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   <port-pair-group>
```

Table 72.68. Positional arguments

Value	Summary
<code><port-pair-group></code>	Port pair group to display (name or id)

Table 72.69. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 72.70. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 72.71. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 72.72. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 72.73. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

72.19. SFC PORT PAIR GROUP UNSET

Unset port pairs from port pair group

Usage:

```
openstack sfc port pair group unset [-h]
                                [--port-pair <port-pair> | --all-port-pair]
                                <port-pair-group>
```

Table 72.74. Positional arguments

Value	Summary
<code><port-pair-group></code>	Port pair group to unset (name or id)

Table 72.75. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Value	Summary
<code>--port-pair <port-pair></code>	Remove port pair(s) from the port pair group (name or ID). This option can be repeated.
<code>--all-port-pair</code>	Remove all port pairs from the port pair group

72.20. SFC PORT PAIR LIST

List port pairs

Usage:

```
openstack sfc port pair list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN] [--long]
```

Table 72.76. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--long</code>	List additional fields in output

Table 72.77. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 72.78. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 72.79. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 72.80. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

72.21. SFC PORT PAIR SET

Set port pair properties

Usage:

```
openstack sfc port pair set [-h] [--name <name>]
                          [--description <description>]
                          <port-pair>
```

Table 72.81. Positional arguments

Value	Summary
<port-pair>	Port pair to modify (name or id)

Table 72.82. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Name of the port pair
--description <description>	Description for the port pair

72.22. SFC PORT PAIR SHOW

Display port pair details

Usage:

```
openstack sfc port pair show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             <port-pair>
```

Table 72.83. Positional arguments

Value	Summary
<port-pair>	Port pair to display (name or id)

Table 72.84. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 72.85. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 72.86. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 72.87. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 72.88. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

72.23. SFC SERVICE GRAPH CREATE

Create a service graph.

Usage:

```
openstack sfc service graph create [-h]
                                   [-f {json,shell,table,value,yaml}]
                                   [-c COLUMN] [--noindent]
                                   [--prefix PREFIX]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   [--description DESCRIPTION]
                                   --branching-point
                                   SRC_CHAIN:DST_CHAIN_1,DST_CHAIN_2,DST_CHAIN_N
                                   <name>
```

Table 72.89. Positional arguments

Value	Summary
<code><name></code>	Name of the service graph.

Table 72.90. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--description DESCRIPTION</code>	Description for the service graph.
<code>--branching-point</code> <code>SRC_CHAIN:DST_CHAIN_1,DST_CHAIN_2,DST_CHAI</code> <code>N_N</code>	Service graph branching point: the key is the source Port Chain while the value is a list of destination Port Chains. This option can be repeated.

Table 72.91. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 72.92. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 72.93. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 72.94. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

72.24. SFC SERVICE GRAPH DELETE

Delete a given service graph.

Usage:

```
openstack sfc service graph delete [-h] <service-graph>
```

Table 72.95. Positional arguments

Value	Summary
<code><service-graph></code>	Id or name of the service graph to delete.

Table 72.96. Command arguments

Value	Summary
-h, --help	Show this help message and exit

72.25. SFC SERVICE GRAPH LIST

List service graphs

Usage:

```
openstack sfc service graph list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN] [--long]
```

Table 72.97. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output

Table 72.98. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 72.99. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 72.100. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 72.101. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

72.26. SFC SERVICE GRAPH SET

Set service graph properties

Usage:

```
openstack sfc service graph set [-h] [--name <name>]
                                [--description <description>]
                                <service-graph>
```

Table 72.102. Positional arguments

Value	Summary
<service-graph>	Service graph to modify (name or id)

Table 72.103. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Name of the service graph
--description <description>	Description for the service graph

72.27. SFC SERVICE GRAPH SHOW

Show information of a given service graph.

Usage:

```

openstack sfc service graph show [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <service-graph>

```

Table 72.104. Positional arguments

Value	Summary
<service-graph>	Id or name of the service graph to display.

Table 72.105. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 72.106. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 72.107. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 72.108. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 72.109. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 73. SOFTWARE

This chapter describes the commands under the **software** command.

73.1. SOFTWARE CONFIG CREATE

Create software config

Usage:

```
openstack software config create [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                [--config-file <config-file>]
                                [--definition-file <destination-file>]
                                [--group <group>]
                                <config-name>
```

Table 73.1. Positional arguments

Value	Summary
<config-name>	Name of the software config to create

Table 73.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--config-file <config-file>	Path to json/yaml containing map defining <inputs>, <outputs>, and <options>
--definition-file <destination-file>	Path to software config script/data
--group <group>	Group name of tool expected by the software config

Table 73.3. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to json
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 73.4. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 73.5. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 73.6. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

73.2. SOFTWARE CONFIG DELETE

Delete software configs

Usage:

```
openstack software config delete [-h] <config> [<config> ...]
```

Table 73.7. Positional arguments

Value	Summary
<code><config></code>	Ids of the software configs to delete

Table 73.8. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

73.3. SOFTWARE CONFIG LIST

List software configs

Usage:

```
openstack software config list [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN]
                               [--limit <limit>] [--marker <id>]
```

Table 73.9. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--limit <limit>	Limit the number of configs returned
--marker <id>	Return configs that appear after the given config id

Table 73.10. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 73.11. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 73.12. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 73.13. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

73.4. SOFTWARE CONFIG SHOW

Show software config details

Usage:

```
openstack software config show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty] [--config-only]
                               <config>
```

Table 73.14. Positional arguments

Value	Summary
<code><config></code>	Id of the config

Table 73.15. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--config-only</code>	Only display the value of the <code><config></code> property.

Table 73.16. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to <code>yaml</code>

Value	Summary
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 73.17. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 73.18. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 73.19. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

73.5. SOFTWARE DEPLOYMENT CREATE

Create a software deployment.

Usage:

```

openstack software deployment create [-h]
    [-f {json,shell,table,value,yaml}]
    [-c COLUMN] [--noindent]
    [--prefix PREFIX]
    [--max-width <integer>]
    [--fit-width] [--print-empty]
    [--input-value <key=value>]
    [--action <action>]
    [--config <config>]
    [--signal-transport <signal-transport>]
    [--container <container>]

```

```

[--timeout <timeout>] --server
<server>
<deployment-name>

```

Table 73.20. Positional arguments

Value	Summary
<deployment-name>	Name of the derived config associated with this deployment. This is used to apply a sort order to the list of configurations currently deployed to the server.

Table 73.21. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--input-value <key=value>	Input value to set on the deployment. this can be specified multiple times.
--action <action>	Name of an action for this deployment. this can be a custom action, or one of CREATE, UPDATE, DELETE, SUSPEND, RESUME. Default is UPDATE
--config <config>	Id of the configuration to deploy
--signal-transport <signal-transport>	How the server should signal to heat with the deployment output values. TEMP_URL_SIGNAL will create a Swift TempURL to be signaled via HTTP PUT. ZAQR_SIGNAL will create a dedicated zaqr queue to be signaled using the provided keystone credentials. NO_SIGNAL will result in the resource going to the COMPLETE state without waiting for any signal
--container <container>	Optional name of container to store temp_url_signal objects in. If not specified a container will be created with a name derived from the DEPLOY_NAME
--timeout <timeout>	Deployment timeout in minutes
--server <server>	Id of the server being deployed to

Table 73.22. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to yaml
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 73.23. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 73.24. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 73.25. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

73.6. SOFTWARE DEPLOYMENT DELETE

Delete software deployment(s) and correlative config(s).

Usage:

```
openstack software deployment delete [-h]
                                     <deployment> [<deployment> ...]
```

Table 73.26. Positional arguments

Value	Summary
<deployment>	Id of the deployment(s) to delete.

Table 73.27. Command arguments

Value	Summary
-h, --help	Show this help message and exit

73.7. SOFTWARE DEPLOYMENT LIST

List software deployments.

Usage:

```

openstack software deployment list [-h]
                                  [-f {csv,json,table,value,yaml}]
                                  [-c COLUMN]
                                  [--quote {all,minimal,none,nonnumeric}]
                                  [--noindent] [--max-width <integer>]
                                  [--fit-width] [--print-empty]
                                  [--sort-column SORT_COLUMN]
                                  [--server <server>] [--long]

```

Table 73.28. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--server <server>	Id of the server to fetch deployments for
--long	List more fields in output

Table 73.29. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 73.30. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 73.31. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 73.32. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

73.8. SOFTWARE DEPLOYMENT METADATA SHOW

Get deployment configuration metadata for the specified server.

Usage:

```
openstack software deployment metadata show [-h] <server>
```

Table 73.33. Positional arguments

Value	Summary
<code><server></code>	Id of the server to fetch deployments for

Table 73.34. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

73.9. SOFTWARE DEPLOYMENT OUTPUT SHOW

Show a specific deployment output.

Usage:

```
openstack software deployment output show [-h] [--all] [--long]
    <deployment> [<output-name>]
```

Table 73.35. Positional arguments

Value	Summary
<deployment>	Id of deployment to show the output for
<output-name>	Name of an output to display

Table 73.36. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all	Display all deployment outputs
--long	Show full deployment logs in output

73.10. SOFTWARE DEPLOYMENT SHOW

Show SoftwareDeployment Details.

Usage:

```
openstack software deployment show [-h]
    [-f {json,shell,table,value,yaml}]
    [-c COLUMN] [--noindent]
    [--prefix PREFIX]
    [--max-width <integer>]
    [--fit-width] [--print-empty]
    [--long]
    <deployment>
```

Table 73.37. Positional arguments

Value	Summary
<deployment>	Id of the deployment

Table 73.38. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--long	Show more fields in output

Table 73.39. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 73.40. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 73.41. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 73.42. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 74. STACK

This chapter describes the commands under the **stack** command.

74.1. STACK ABANDON

Abandon stack and output results.

Usage:

```
openstack stack abandon [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--output-file <output-file>]
                        <stack>
```

Table 74.1. Positional arguments

Value	Summary
<stack>	Name or id of stack to abandon

Table 74.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--output-file <output-file>	File to output abandon results

Table 74.3. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to json
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 74.4. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 74.5. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 74.6. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

74.2. STACK ADOPT

Adopt a stack.

Usage:

```
openstack stack adopt [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [-e <environment>]
                    [--timeout <timeout>] [--enable-rollback]
                    [--parameter <key=value>] [--wait] --adopt-file
                    <adopt-file>
                    <stack-name>
```

Table 74.7. Positional arguments

Value	Summary
<stack-name>	Name of the stack to adopt

Table 74.8. Command arguments

Value	Summary
-h, --help	Show this help message and exit
-e <environment>, --environment <environment>	Path to the environment. can be specified multiple times

Value	Summary
<code>--timeout <timeout></code>	Stack creation timeout in minutes
<code>--enable-rollback</code>	Enable rollback on create/update failure
<code>--parameter <key=value></code>	Parameter values used to create the stack. can be specified multiple times
<code>--wait</code>	Wait until stack adopt completes
<code>--adopt-file <adopt-file></code>	Path to adopt stack data file

Table 74.9. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 74.10. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 74.11. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 74.12. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show.

74.3. STACK CANCEL

Cancel current task for a stack. Supported tasks for cancellation: * update * create

Usage:

```
openstack stack cancel [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--wait]
                        [--no-rollback]
                        <stack> [<stack> ...]
```

Table 74.13. Positional arguments

Value	Summary
<code><stack></code>	Stack(s) to cancel (name or id)

Table 74.14. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--wait</code>	Wait for cancel to complete
<code>--no-rollback</code>	Cancel without rollback

Table 74.15. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 74.16. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 74.17. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 74.18. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

74.4. STACK CHECK

Check a stack.

Usage:

```
openstack stack check [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>]
                    [--fit-width] [--print-empty]
                    [--sort-column SORT_COLUMN] [--wait]
                    <stack> [<stack> ...]
```

Table 74.19. Positional arguments

Value	Summary
<code><stack></code>	Stack(s) to check update (name or id)

Table 74.20. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--wait	Wait for check to complete

Table 74.21. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 74.22. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 74.23. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 74.24. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

74.5. STACK CREATE

Create a stack.

Usage:

```
openstack stack create [-h] [-f {json,shell,table,value,yaml}]
                       [-c COLUMN] [--noindent] [--prefix PREFIX]
                       [--max-width <integer>] [--fit-width]
                       [--print-empty] [-e <environment>]
                       [--timeout <timeout>] [--pre-create <resource>]
                       [--enable-rollback] [--parameter <key=value>]
                       [--parameter-file <key=file>] [--wait]
                       [--tags <tag1,tag2...>] [--dry-run] -t
                       <template>
                       <stack-name>
```

Table 74.25. Positional arguments

Value	Summary
<stack-name>	Name of the stack to create

Table 74.26. Command arguments

Value	Summary
-h, --help	Show this help message and exit
-e <environment>, --environment <environment>	Path to the environment. can be specified multiple times
--timeout <timeout>	Stack creating timeout in minutes
--pre-create <resource>	Name of a resource to set a pre-create hook to. Resources in nested stacks can be set using slash as a separator: ``nested_stack/another/my_resource``. You can use wildcards to match multiple stacks or resources: ``nested_stack/an*/*_resource``. This can be specified multiple times
--enable-rollback	Enable rollback on create/update failure
--parameter <key=value>	Parameter values used to create the stack. this can be specified multiple times
--parameter-file <key=file>	Parameter values from file used to create the stack. This can be specified multiple times. Parameter values would be the content of the file

Value	Summary
<code>--wait</code>	Wait until stack goes to <code>create_complete</code> or <code>CREATE_FAILED</code>
<code>--tags <tag1,tag2...></code>	A list of tags to associate with the stack
<code>--dry-run</code>	Do not actually perform the stack create, but show what would be created
<code>-t <template>, --template <template></code>	Path to the template

Table 74.27. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 74.28. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 74.29. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 74.30. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

74.6. STACK DELETE

Delete stack(s).

Usage:

```
openstack stack delete [-h] [-y] [--wait] <stack> [<stack> ...]
```

Table 74.31. Positional arguments

Value	Summary
<stack>	Stack(s) to delete (name or id)

Table 74.32. Command arguments

Value	Summary
-h, --help	Show this help message and exit
-y, --yes	Skip yes/no prompt (assume yes)
--wait	Wait for stack delete to complete

74.7. STACK ENVIRONMENT SHOW

Show a stack's environment.

Usage:

```
openstack stack environment show [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <NAME or ID>
```

Table 74.33. Positional arguments

Value	Summary
<NAME or ID>	Name or id of stack to query

Table 74.34. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 74.35. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to yaml
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 74.36. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 74.37. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 74.38. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

74.8. STACK EVENT LIST

List events.

Usage:

```
openstack stack event list [-h] [-f {csv,json,log,table,value,yaml}]
```

```

[-c COLUMN]
[--quote {all,minimal,none,nonnumeric}]
[--noindent] [--max-width <integer>]
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]
[--resource <resource>]
[--filter <key=value>] [--limit <limit>]
[--marker <id>] [--nested-depth <depth>]
[--sort <key>[:<direction>]] [--follow]
<stack>

```

Table 74.39. Positional arguments

Value	Summary
<stack>	Name or id of stack to show events for

Table 74.40. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--resource <resource>	Name of resource to show events for. note: this cannot be specified with --nested-depth
--filter <key=value>	Filter parameters to apply on returned events
--limit <limit>	Limit the number of events returned
--marker <id>	Only return events that appear after the given id
--nested-depth <depth>	Depth of nested stacks from which to display events. Note: this cannot be specified with --resource
--sort <key>[:<direction>]	Sort output by selected keys and directions (asc or desc) (default: asc). Specify multiple times to sort on multiple keys. Sort key can be: "event_time" (default), "resource_name", "links", "logical_resource_id", "resource_status", "resource_status_reason", "physical_resource_id", or "id". You can leave the key empty and specify ":desc" for sorting by reverse time.
--follow	Print events until process is halted

Table 74.41. Output formatter options

Value	Summary
<code>-f {csv,json,log,table,value,yaml}, --format {csv,json,log,table,value,yaml}</code>	The output format, defaults to log
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 74.42. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 74.43. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 74.44. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

74.9. STACK EVENT SHOW

Show event details.

Usage:

```
openstack stack event show [-h] [-f {json,shell,table,value,yaml}]
                          [-c COLUMN] [--noindent] [--prefix PREFIX]
                          [--max-width <integer>] [--fit-width]
                          [--print-empty]
                          <stack> <resource> <event>
```

Table 74.45. Positional arguments

Value	Summary
<stack>	Name or id of stack to show events for
<resource>	Name of the resource event belongs to
<event>	Id of event to display details for

Table 74.46. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 74.47. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 74.48. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 74.49. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 74.50. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

74.10. STACK EXPORT

Export stack data json.

Usage:

```
openstack stack export [-h] [-f {json,shell,table,value,yaml}]
                       [-c COLUMN] [--noindent] [--prefix PREFIX]
                       [--max-width <integer>] [--fit-width]
                       [--print-empty] [--output-file <output-file>]
                       <stack>
```

Table 74.51. Positional arguments

Value	Summary
<code><stack></code>	Name or id of stack to export

Table 74.52. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--output-file <output-file></code>	File to output export data

Table 74.53. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to json
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 74.54. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 74.55. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 74.56. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

74.11. STACK FAILURES LIST

Show information about failed stack resources.

Usage:

```
openstack stack failures list [-h] [--long] <stack>
```

Table 74.57. Positional arguments

Value	Summary
<code><stack></code>	Stack to display (name or id)

Table 74.58. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--long</code>	Show full deployment logs in output

74.12. STACK FILE LIST

Show a stack's files map.

Usage:

```
openstack stack file list [-h] [-f {json,shell,table,value,yaml}]
                          [-c COLUMN] [--noindent] [--prefix PREFIX]
                          [--max-width <integer>] [--fit-width]
                          [--print-empty]
                          <NAME or ID>
```

Table 74.59. Positional arguments

Value	Summary
<NAME or ID>	Name or id of stack to query

Table 74.60. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 74.61. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to yaml
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 74.62. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 74.63. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 74.64. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

74.13. STACK HOOK CLEAR

Clear resource hooks on a given stack.

Usage:

```
openstack stack hook clear [-h] [--pre-create] [--pre-update]
                          [--pre-delete]
                          <stack> <resource> [<resource> ...]
```

Table 74.65. Positional arguments

Value	Summary
<code><stack></code>	Stack to display (name or id)
<code><resource></code>	Resource names with hooks to clear. resources in nested stacks can be set using slash as a separator: <code>``nested_stack/another/my_resource``</code> . You can use wildcards to match multiple stacks or resources: <code>``nested_stack/an*/*_resource``</code>

Table 74.66. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--pre-create</code>	Clear the pre-create hooks
<code>--pre-update</code>	Clear the pre-update hooks
<code>--pre-delete</code>	Clear the pre-delete hooks

74.14. STACK HOOK POLL

List resources with pending hook for a stack.

Usage:

```
openstack stack hook poll [-h] [-f {csv,json,table,value,yaml}]
                          [-c COLUMN]
                          [--quote {all,minimal,none,nonnumeric}]
                          [--noindent] [--max-width <integer>]
                          [--fit-width] [--print-empty]
                          [--sort-column SORT_COLUMN]
                          [--nested-depth <nested-depth>]
                          <stack>
```

Table 74.67. Positional arguments

Value	Summary
<stack>	Stack to display (name or id)

Table 74.68. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--nested-depth <nested-depth>	Depth of nested stacks from which to display hooks

Table 74.69. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 74.70. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 74.71. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 74.72. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

74.15. STACK LIST

List stacks.

Usage:

```
openstack stack list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>] [--fit-width]
                    [--print-empty] [--sort-column SORT_COLUMN]
                    [--deleted] [--nested] [--hidden]
                    [--property <key=value>] [--tags <tag1,tag2...>]
                    [--tag-mode <mode>] [--limit <limit>]
                    [--marker <id>] [--sort <key>[:<direction>]]
                    [--all-projects] [--short] [--long]
```

Table 74.73. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--deleted</code>	Include soft-deleted stacks in the stack listing
<code>--nested</code>	Include nested stacks in the stack listing
<code>--hidden</code>	Include hidden stacks in the stack listing
<code>--property <key=value></code>	Filter properties to apply on returned stacks (repeat to filter on multiple properties)

Value	Summary
<code>--tags <tag1,tag2...></code>	List of tags to filter by. can be combined with <code>--tag-mode</code> to specify how to filter tags
<code>--tag-mode <mode></code>	Method of filtering tags. must be one of "any", "not", or "not-any". If not specified, multiple tags will be combined with the boolean AND expression
<code>--limit <limit></code>	The number of stacks returned
<code>--marker <id></code>	Only return stacks that appear after the given id
<code>--sort <key>[:<direction>]</code>	Sort output by selected keys and directions (asc or desc) (default: asc). Specify multiple times to sort on multiple properties
<code>--all-projects</code>	Include all projects (admin only)
<code>--short</code>	List fewer fields in output
<code>--long</code>	List additional fields in output, this is implied by <code>--all-projects</code>

Table 74.74. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 74.75. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 74.76. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 74.77. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

74.16. STACK OUTPUT LIST

List stack outputs.

Usage:

```

openstack stack output list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             <stack>

```

Table 74.78. Positional arguments

Value	Summary
<stack>	Name or id of stack to query

Table 74.79. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 74.80. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 74.81. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 74.82. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 74.83. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

74.17. STACK OUTPUT SHOW

Show stack output.

Usage:

```
openstack stack output show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty] [--all]
                             <stack> [<output>]
```

Table 74.84. Positional arguments

Value	Summary
<stack>	Name or id of stack to query
<output>	Name of an output to display

Table 74.85. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all	Display all stack outputs

Table 74.86. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 74.87. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 74.88. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 74.89. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

74.18. STACK RESOURCE LIST

List stack resources.

Usage:

```

openstack stack resource list [-h] [-f {csv,dot,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN] [--long]
                               [-n <nested-depth>]
                               [--filter <key=value>]
                               <stack>

```

Table 74.90. Positional arguments

Value	Summary
<stack>	Name or id of stack to query

Table 74.91. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--long	Enable detailed information presented for each resource in resource list
-n <nested-depth>, --nested-depth <nested-depth>	Depth of nested stacks from which to display resources
--filter <key=value>	Filter parameters to apply on returned resources based on their name, status, type, action, id and physical_resource_id

Table 74.92. Output formatter options

Value	Summary
<code>-f {csv,dot,json,table,value,yaml}, --format {csv,dot,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 74.93. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 74.94. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 74.95. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

74.19. STACK RESOURCE MARK UNHEALTHY

Set resource's health.

Usage:

```
openstack stack resource mark unhealthy [-h] [--reset]
    <stack> <resource> [reason]
```

Table 74.96. Positional arguments

Value	Summary
<stack>	Name or id of stack the resource belongs to
<resource>	Name of the resource
reason	Reason for state change

Table 74.97. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--reset	Set the resource as healthy

74.20. STACK RESOURCE METADATA

Show resource metadata

Usage:

```

openstack stack resource metadata [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <stack> <resource>

```

Table 74.98. Positional arguments

Value	Summary
<stack>	Stack to display (name or id)
<resource>	Name of the resource to show the metadata for

Table 74.99. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 74.100. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to json
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 74.101. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 74.102. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 74.103. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

74.21. STACK RESOURCE SHOW

Display stack resource.

Usage:

```
openstack stack resource show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--with-attr <attribute>]
                               <stack> <resource>
```

Table 74.104. Positional arguments

Value	Summary
<stack>	Name or id of stack to query
<resource>	Name of resource

Table 74.105. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--with-attr <attribute>	Attribute to show, can be specified multiple times

Table 74.106. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 74.107. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 74.108. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 74.109. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable

Value	Summary
<code>--print-empty</code>	Print empty table if there is no data to show.

74.22. STACK RESOURCE SIGNAL

Signal a resource with optional data.

Usage:

```
openstack stack resource signal [-h] [--data <data>]
                               [--data-file <data-file>]
                               <stack> <resource>
```

Table 74.110. Positional arguments

Value	Summary
<code><stack></code>	Name or id of stack the resource belongs to
<code><resource></code>	Name of the resource to signal

Table 74.111. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--data <data></code>	Json data to send to the signal handler
<code>--data-file <data-file></code>	File containing json data to send to the signal handler

74.23. STACK RESUME

Resume a stack.

Usage:

```
openstack stack resume [-h] [-f {csv,json,table,value,yaml}]
                       [-c COLUMN]
                       [--quote {all,minimal,none,nonnumeric}]
                       [--noindent] [--max-width <integer>]
                       [--fit-width] [--print-empty]
                       [--sort-column SORT_COLUMN] [--wait]
                       <stack> [<stack> ...]
```

Table 74.112. Positional arguments

Value	Summary
<stack>	Stack(s) to resume (name or id)

Table 74.113. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--wait	Wait for resume to complete

Table 74.114. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 74.115. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 74.116. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 74.117. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

74.24. STACK SHOW

Show stack details.

Usage:

```
openstack stack show [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--no-resolve-outputs]
                    <stack>
```

Table 74.118. Positional arguments

Value	Summary
<code><stack></code>	Stack to display (name or id)

Table 74.119. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--no-resolve-outputs</code>	Do not resolve outputs of the stack.

Table 74.120. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 74.121. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 74.122. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 74.123. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

74.25. STACK SNAPSHOT CREATE

Create stack snapshot.

Usage:

```
openstack stack snapshot create [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty] [--name <name>]
                               <stack>
```

Table 74.124. Positional arguments

Value	Summary
<stack>	Name or id of stack

Table 74.125. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Name of snapshot

Table 74.126. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 74.127. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 74.128. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 74.129. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

74.26. STACK SNAPSHOT DELETE

Delete stack snapshot.

Usage:

```
openstack stack snapshot delete [-h] [-y] <stack> <snapshot>
```

Table 74.130. Positional arguments

Value	Summary
<stack>	Name or id of stack
<snapshot>	Id of stack snapshot

Table 74.131. Command arguments

Value	Summary
-h, --help	Show this help message and exit
-y, --yes	Skip yes/no prompt (assume yes)

74.27. STACK SNAPSHOT LIST

List stack snapshots.

Usage:

```
openstack stack snapshot list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             <stack>
```

Table 74.132. Positional arguments

Value	Summary
<stack>	Name or id of stack containing the snapshots

Table 74.133. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 74.134. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 74.135. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 74.136. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 74.137. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

74.28. STACK SNAPSHOT RESTORE

Restore stack snapshot

Usage:

```
openstack stack snapshot restore [-h] <stack> <snapshot>
```

Table 74.138. Positional arguments

Value	Summary
<stack>	Name or id of stack containing the snapshot
<snapshot>	Id of the snapshot to restore

Table 74.139. Command arguments

Value	Summary
-h, --help	Show this help message and exit

74.29. STACK SNAPSHOT SHOW

Show stack snapshot.

Usage:

```

openstack stack snapshot show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               <stack> <snapshot>

```

Table 74.140. Positional arguments

Value	Summary
<stack>	Name or id of stack containing the snapshot
<snapshot>	Id of the snapshot to show

Table 74.141. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 74.142. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to yaml
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 74.143. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 74.144. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 74.145. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

74.30. STACK SUSPEND

Suspend a stack.

Usage:

```
openstack stack suspend [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--wait]
                        <stack> [<stack> ...]
```

Table 74.146. Positional arguments

Value	Summary
<stack>	Stack(s) to suspend (name or id)

Table 74.147. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--wait	Wait for suspend to complete

Table 74.148. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 74.149. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 74.150. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 74.151. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

74.31. STACK TEMPLATE SHOW

Display stack template.

Usage:

```
openstack stack template show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent]
                             [--prefix PREFIX] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             <stack>
```

Table 74.152. Positional arguments

Value	Summary
<stack>	Name or id of stack to query

Table 74.153. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 74.154. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to yaml
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 74.155. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 74.156. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 74.157. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

74.32. STACK UPDATE

Update a stack.

Usage:

```
openstack stack update [-h] [-f {json,shell,table,value,yaml}]
  [-c COLUMN] [--noindent] [--prefix PREFIX]
  [--max-width <integer>] [--fit-width]
  [--print-empty] [-t <template>]
  [-e <environment>] [--pre-update <resource>]
  [--timeout <timeout>] [--rollback <value>]
  [--dry-run] [--show-nested]
  [--parameter <key=value>]
  [--parameter-file <key=file>] [--existing]
  [--clear-parameter <parameter>]
  [--tags <tag1,tag2...>] [--wait] [--converge]
  <stack>
```

Table 74.158. Positional arguments

Value	Summary
<code><stack></code>	Name or id of stack to update

Table 74.159. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>-t <template>, --template <template></code>	Path to the template
<code>-e <environment>, --environment <environment></code>	Path to the environment. can be specified multiple times

Value	Summary
<code>--pre-update <resource></code>	Name of a resource to set a pre-update hook to. Resources in nested stacks can be set using slash as a separator: <code>``nested_stack/another/my_resource``</code> . You can use wildcards to match multiple stacks or resources: <code>``nested_stack/an*/*_resource``</code> . This can be specified multiple times
<code>--timeout <timeout></code>	Stack update timeout in minutes
<code>--rollback <value></code>	Set rollback on update failure. value "enabled" sets rollback to enabled. Value "disabled" sets rollback to disabled. Value "keep" uses the value of existing stack to be updated (default)
<code>--dry-run</code>	Do not actually perform the stack update, but show what would be changed
<code>--show-nested</code>	Show nested stacks when performing <code>--dry-run</code>
<code>--parameter <key=value></code>	Parameter values used to create the stack. this can be specified multiple times
<code>--parameter-file <key=file></code>	Parameter values from file used to create the stack. This can be specified multiple times. Parameter value would be the content of the file
<code>--existing</code>	Re-use the template, parameters and environment of the current stack. If the template argument is omitted then the existing template is used. If no <code>--environment</code> is specified then the existing environment is used. Parameters specified in <code>--parameter</code> will patch over the existing values in the current stack. Parameters omitted will keep the existing values
<code>--clear-parameter <parameter></code>	Remove the parameters from the set of parameters of current stack for the stack-update. The default value in the template will be used. This can be specified multiple times
<code>--tags <tag1,tag2...></code>	An updated list of tags to associate with the stack
<code>--wait</code>	Wait until stack goes to <code>update_complete</code> or <code>UPDATE_FAILED</code>
<code>--converge</code>	Stack update with observe on reality.

Table 74.160. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 74.161. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 74.162. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 74.163. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 75. SUBNET

This chapter describes the commands under the **subnet** command.

75.1. SUBNET CREATE

Create a subnet

Usage:

```
openstack subnet create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--project <project>]
                        [--project-domain <project-domain>]
                        [--subnet-pool <subnet-pool> | --use-prefix-delegation
                        USE_PREFIX_DELEGATION | --use-default-subnet-pool]
                        [--prefix-length <prefix-length>]
                        [--subnet-range <subnet-range>]
                        [--dhcp | --no-dhcp] [--gateway <gateway>]
                        [--ip-version {4,6}]
                        [--ipv6-ra-mode {dhcpv6-stateful,dhcpv6-stateless,slaac}]
                        [--ipv6-address-mode {dhcpv6-stateful,dhcpv6-stateless,slaac}]
                        [--network-segment <network-segment>] --network
                        <network> [--description <description>]
                        [--allocation-pool start=<ip-address>,end=<ip-address>]
                        [--dns-nameserver <dns-nameserver>]
                        [--host-route destination=<subnet>,gateway=<ip-address>]
                        [--service-type <service-type>]
                        [--tag <tag> | --no-tag]
                        <name>
```

Table 75.1. Positional arguments

Value	Summary
<name>	New subnet name

Table 75.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--project <project>	Owner's project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Value	Summary
<code>--subnet-pool <subnet-pool></code>	Subnet pool from which this subnet will obtain a cidr (Name or ID)
<code>--use-prefix-delegation</code> <code>USE_PREFIX_DELEGATION</code>	Use <i>prefix-delegation</i> if ip is ipv6 format and ip would be delegated externally
<code>--use-default-subnet-pool</code>	Use default subnet pool for <code>--ip-version</code>
<code>--prefix-length <prefix-length></code>	Prefix length for subnet allocation from subnet pool
<code>--subnet-range <subnet-range></code>	Subnet range in cidr notation (required if <code>--subnet-pool</code> is not specified, optional otherwise)
<code>--dhcp</code>	Enable dhcp (default)
<code>--no-dhcp</code>	Disable dhcp
<code>--gateway <gateway></code>	Specify a gateway for the subnet. the three options are: <code><ip-address></code> : Specific IP address to use as the gateway, <i>auto</i> : Gateway address should automatically be chosen from within the subnet itself, <i>none</i> : This subnet will not use a gateway, e.g.: <code>--gateway 192.168.9.1</code> , <code>--gateway auto</code> , <code>--gateway none</code> (default is <i>auto</i>).
<code>--ip-version {4,6}</code>	Ip version (default is 4). note that when subnet pool is specified, IP version is determined from the subnet pool and this option is ignored.
<code>--ipv6-ra-mode {dhcpv6-stateful,dhcpv6-stateless,slaac}</code>	Ipv6 ra (router advertisement) mode, valid modes: [dhcpv6-stateful, dhcpv6-stateless, slaac]
<code>--ipv6-address-mode {dhcpv6-stateful,dhcpv6-stateless,slaac}</code>	Ipv6 address mode, valid modes: [dhcpv6-stateful, dhcpv6-stateless, slaac]
<code>--network-segment <network-segment></code>	Network segment to associate with this subnet (name or ID)
<code>--network <network></code>	Network this subnet belongs to (name or id)
<code>--description <description></code>	Set subnet description
<code>--allocation-pool start=<ip-address>,end=<ip-address></code>	Allocation pool ip addresses for this subnet e.g.: <code>start=192.168.199.2,end=192.168.199.254</code> (repeat option to add multiple IP addresses)

Value	Summary
<code>--dns-nameserver <dns-nameserver></code>	Dns server for this subnet (repeat option to set multiple DNS servers)
<code>--host-route destination=<subnet>,gateway=<ip-address></code>	Additional route for this subnet e.g.: destination=10.10.0.0/16,gateway=192.168.71.254 destination: destination subnet (in CIDR notation) gateway: nexthop IP address (repeat option to add multiple routes)
<code>--service-type <service-type></code>	Service type for this subnet e.g.: network:floatingip_agent_gateway. Must be a valid device owner value for a network port (repeat option to set multiple service types)
<code>--tag <tag></code>	Tag to be added to the subnet (repeat option to set multiple tags)
<code>--no-tag</code>	No tags associated with the subnet

Table 75.3. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 75.4. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 75.5. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 75.6. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

75.2. SUBNET DELETE

Delete subnet(s)

Usage:

```
openstack subnet delete [-h] <subnet> [<subnet> ...]
```

Table 75.7. Positional arguments

Value	Summary
<code><subnet></code>	Subnet(s) to delete (name or id)

Table 75.8. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

75.3. SUBNET LIST

List subnets

Usage:

```
openstack subnet list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--long]
                        [--ip-version <ip-version>] [--dhcp | --no-dhcp]
                        [--service-type <service-type>]
                        [--project <project>]
                        [--project-domain <project-domain>]
                        [--network <network>] [--gateway <gateway>]
                        [--name <name>] [--subnet-range <subnet-range>]
```

```

[--tags <tag>[,<tag>,...]]
[--any-tags <tag>[,<tag>,...]]
[--not-tags <tag>[,<tag>,...]]
[--not-any-tags <tag>[,<tag>,...]]

```

Table 75.9. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output
--ip-version <ip-version>	List only subnets of given ip version in output. Allowed values for IP version are 4 and 6.
--dhcp	List subnets which have dhcp enabled
--no-dhcp	List subnets which have dhcp disabled
--service-type <service-type>	List only subnets of a given service type in output e.g.: network:floatingip_agent_gateway. Must be a valid device owner value for a network port (repeat option to list multiple service types)
--project <project>	List only subnets which belong to a given project in output (name or ID)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--network <network>	List only subnets which belong to a given network in output (name or ID)
--gateway <gateway>	List only subnets of given gateway ip in output
--name <name>	List only subnets of given name in output
--subnet-range <subnet-range>	List only subnets of given subnet range (in cidr notation) in output e.g.: --subnet-range 10.10.0.0/16
--tags <tag>[,<tag>,...]	List subnets which have all given tag(s) (comma-separated list of tags)
--any-tags <tag>[,<tag>,...]	List subnets which have any given tag(s) (comma-separated list of tags)
--not-tags <tag>[,<tag>,...]	Exclude subnets which have all given tag(s) (comma-separated list of tags)

Value	Summary
<code>--not-any-tags <tag>[,<tag>,...]</code>	Exclude subnets which have any given tag(s) (comma-separated list of tags)

Table 75.10. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 75.11. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 75.12. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 75.13. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

75.4. SUBNET POOL CREATE

Create subnet pool

Usage:

```

openstack subnet pool create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty] --pool-prefix
                             <pool-prefix>
                             [--default-prefix-length <default-prefix-length>]
                             [--min-prefix-length <min-prefix-length>]
                             [--max-prefix-length <max-prefix-length>]
                             [--project <project>]
                             [--project-domain <project-domain>]
                             [--address-scope <address-scope>]
                             [--default | --no-default]
                             [--share | --no-share]
                             [--description <description>]
                             [--default-quota <num-ip-addresses>]
                             [--tag <tag> | --no-tag]
                             <name>

```

Table 75.14. Positional arguments

Value	Summary
<name>	Name of the new subnet pool

Table 75.15. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--pool-prefix <pool-prefix>	Set subnet pool prefixes (in cidr notation) (repeat option to set multiple prefixes)
--default-prefix-length <default-prefix-length>	Set subnet pool default prefix length
--min-prefix-length <min-prefix-length>	Set subnet pool minimum prefix length
--max-prefix-length <max-prefix-length>	Set subnet pool maximum prefix length
--project <project>	Owner's project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Value	Summary
<code>--address-scope <address-scope></code>	Set address scope associated with the subnet pool (name or ID), prefixes must be unique across address scopes
<code>--default</code>	Set this as a default subnet pool
<code>--no-default</code>	Set this as a non-default subnet pool
<code>--share</code>	Set this subnet pool as shared
<code>--no-share</code>	Set this subnet pool as not shared
<code>--description <description></code>	Set subnet pool description
<code>--default-quota <num-ip-addresses></code>	Set default per-project quota for this subnet pool as the number of IP addresses that can be allocated from the subnet pool
<code>--tag <tag></code>	Tag to be added to the subnet pool (repeat option to set multiple tags)
<code>--no-tag</code>	No tags associated with the subnet pool

Table 75.16. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 75.17. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 75.18. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 75.19. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

75.5. SUBNET POOL DELETE

Delete subnet pool(s)

Usage:

```
openstack subnet pool delete [-h] <subnet-pool> [<subnet-pool> ...]
```

Table 75.20. Positional arguments

Value	Summary
<code><subnet-pool></code>	Subnet pool(s) to delete (name or id)

Table 75.21. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

75.6. SUBNET POOL LIST

List subnet pools

Usage:

```
openstack subnet pool list [-h] [-f {csv,json,table,value,yaml}]
                          [-c COLUMN]
                          [--quote {all,minimal,none,nonnumeric}]
                          [--noindent] [--max-width <integer>]
                          [--fit-width] [--print-empty]
                          [--sort-column SORT_COLUMN] [--long]
                          [--share | --no-share]
                          [--default | --no-default]
                          [--project <project>]
```

```

[--project-domain <project-domain>]
[--name <name>]
[--address-scope <address-scope>]
[--tags <tag>[,<tag>,...]]
[--any-tags <tag>[,<tag>,...]]
[--not-tags <tag>[,<tag>,...]]
[--not-any-tags <tag>[,<tag>,...]]

```

Table 75.22. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output
--share	List subnet pools shared between projects
--no-share	List subnet pools not shared between projects
--default	List subnet pools used as the default external subnet pool
--no-default	List subnet pools not used as the default external subnet pool
--project <project>	List subnet pools according to their project (name or ID)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--name <name>	List only subnet pools of given name in output
--address-scope <address-scope>	List only subnet pools of given address scope in output (name or ID)
--tags <tag>[,<tag>,...]	List subnet pools which have all given tag(s) (comma-separated list of tags)
--any-tags <tag>[,<tag>,...]	List subnet pools which have any given tag(s) (comma-separated list of tags)
--not-tags <tag>[,<tag>,...]	Exclude subnet pools which have all given tag(s) (Comma-separated list of tags)
--not-any-tags <tag>[,<tag>,...]	Exclude subnet pools which have any given tag(s) (Comma-separated list of tags)

Table 75.23. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 75.24. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 75.25. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 75.26. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

75.7. SUBNET POOL SET

Set subnet pool properties

Usage:

```
openstack subnet pool set [-h] [--name <name>]
                          [--pool-prefix <pool-prefix>]
                          [--default-prefix-length <default-prefix-length>]
```

```

[--min-prefix-length <min-prefix-length>]
[--max-prefix-length <max-prefix-length>]
[--address-scope <address-scope> | --no-address-scope]
[--default | --no-default]
[--description <description>]
[--default-quota <num-ip-addresses>]
[--tag <tag>] [--no-tag]
<subnet-pool>

```

Table 75.27. Positional arguments

Value	Summary
<subnet-pool>	Subnet pool to modify (name or id)

Table 75.28. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set subnet pool name
--pool-prefix <pool-prefix>	Set subnet pool prefixes (in cidr notation) (repeat option to set multiple prefixes)
--default-prefix-length <default-prefix-length>	Set subnet pool default prefix length
--min-prefix-length <min-prefix-length>	Set subnet pool minimum prefix length
--max-prefix-length <max-prefix-length>	Set subnet pool maximum prefix length
--address-scope <address-scope>	Set address scope associated with the subnet pool (name or ID), prefixes must be unique across address scopes
--no-address-scope	Remove address scope associated with the subnet pool
--default	Set this as a default subnet pool
--no-default	Set this as a non-default subnet pool
--description <description>	Set subnet pool description
--default-quota <num-ip-addresses>	Set default per-project quota for this subnet pool as the number of IP addresses that can be allocated from the subnet pool

Value	Summary
<code>--tag <tag></code>	Tag to be added to the subnet pool (repeat option to set multiple tags)
<code>--no-tag</code>	Clear tags associated with the subnet pool. specify both <code>--tag</code> and <code>--no-tag</code> to overwrite current tags

75.8. SUBNET POOL SHOW

Display subnet pool details

Usage:

```
openstack subnet pool show [-h] [-f {json,shell,table,value,yaml}]
                          [-c COLUMN] [--noindent] [--prefix PREFIX]
                          [--max-width <integer>] [--fit-width]
                          [--print-empty]
                          <subnet-pool>
```

Table 75.29. Positional arguments

Value	Summary
<code><subnet-pool></code>	Subnet pool to display (name or id)

Table 75.30. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 75.31. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 75.32. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 75.33. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 75.34. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

75.9. SUBNET POOL UNSET

Unset subnet pool properties

Usage:

```
openstack subnet pool unset [-h] [--tag <tag> | --all-tag]
                             <subnet-pool>
```

Table 75.35. Positional arguments

Value	Summary
<code><subnet-pool></code>	Subnet pool to modify (name or id)

Table 75.36. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--tag <tag></code>	Tag to be removed from the subnet pool (repeat option to remove multiple tags)
<code>--all-tag</code>	Clear all tags associated with the subnet pool

75.10. SUBNET SET

Set subnet properties

Usage:

```

openstack subnet set [-h] [--name <name>] [--dhcp | --no-dhcp]
                    [--gateway <gateway>]
                    [--network-segment <network-segment>]
                    [--description <description>] [--tag <tag>]
                    [--no-tag]
                    [--allocation-pool start=<ip-address>,end=<ip-address>]
                    [--no-allocation-pool]
                    [--dns-nameserver <dns-nameserver>]
                    [--no-dns-nameservers]
                    [--host-route destination=<subnet>,gateway=<ip-address>]
                    [--no-host-route] [--service-type <service-type>]
                    <subnet>

```

Table 75.37. Positional arguments

Value	Summary
<subnet>	Subnet to modify (name or id)

Table 75.38. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Updated name of the subnet
--dhcp	Enable dhcp
--no-dhcp	Disable dhcp
--gateway <gateway>	Specify a gateway for the subnet. the options are: <ip-address>: Specific IP address to use as the gateway, <i>none</i> : This subnet will not use a gateway, e.g.: --gateway 192.168.9.1, --gateway none.
--network-segment <network-segment>	Network segment to associate with this subnet (name or ID). It is only allowed to set the segment if the current value is None , the network must also have only one segment and only one subnet can exist on the network.
--description <description>	Set subnet description
--tag <tag>	Tag to be added to the subnet (repeat option to set multiple tags)

Value	Summary
<code>--no-tag</code>	Clear tags associated with the subnet. specify both <code>-tag</code> and <code>--no-tag</code> to overwrite current tags
<code>--allocation-pool start=<ip-address>,end=<ip-address></code>	Allocation pool ip addresses for this subnet e.g.: <code>start=192.168.199.2,end=192.168.199.254</code> (repeat option to add multiple IP addresses)
<code>--no-allocation-pool</code>	Clear associated allocation-pools from the subnet. Specify both <code>--allocation-pool</code> and <code>--no-allocation-pool</code> to overwrite the current allocation pool information.
<code>--dns-nameserver <dns-nameserver></code>	Dns server for this subnet (repeat option to set multiple DNS servers)
<code>--no-dns-nameservers</code>	Clear existing information of dns nameservers. specify both <code>--dns-nameserver</code> and <code>--no-dns-nameserver</code> to overwrite the current DNS Nameserver information.
<code>--host-route destination=<subnet>,gateway=<ip-address></code>	Additional route for this subnet e.g.: <code>destination=10.10.0.0/16,gateway=192.168.71.254</code> destination: destination subnet (in CIDR notation) gateway: nexthop IP address (repeat option to add multiple routes)
<code>--no-host-route</code>	Clear associated host-routes from the subnet. specify both <code>--host-route</code> and <code>--no-host-route</code> to overwrite the current host route information.
<code>--service-type <service-type></code>	Service type for this subnet e.g.: <code>network:floatingip_agent_gateway</code> . Must be a valid device owner value for a network port (repeat option to set multiple service types)

75.11. SUBNET SHOW

Display subnet details

Usage:

```
openstack subnet show [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty]
                    <subnet>
```

Table 75.39. Positional arguments

Value	Summary
<subnet>	Subnet to display (name or id)

Table 75.40. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 75.41. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 75.42. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 75.43. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 75.44. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

75.12. SUBNET UNSET

Unset subnet properties

Usage:

```
openstack subnet unset [-h]
                        [--allocation-pool start=<ip-address>,end=<ip-address>]
                        [--dns-nameserver <dns-nameserver>]
                        [--host-route destination=<subnet>,gateway=<ip-address>]
                        [--service-type <service-type>]
                        [--tag <tag> | --all-tag]
                        <subnet>
```

Table 75.45. Positional arguments

Value	Summary
<subnet>	Subnet to modify (name or id)

Table 75.46. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--allocation-pool start=<ip-address>,end=<ip-address>	Allocation pool ip addresses to be removed from this subnet e.g.: start=192.168.199.2,end=192.168.199.254 (repeat option to unset multiple allocation pools)
--dns-nameserver <dns-nameserver>	Dns server to be removed from this subnet (repeat option to unset multiple DNS servers)
--host-route destination=<subnet>,gateway=<ip-address>	Route to be removed from this subnet e.g.: destination=10.10.0.0/16,gateway=192.168.71.254 destination: destination subnet (in CIDR notation) gateway: nexthop IP address (repeat option to unset multiple host routes)
--service-type <service-type>	Service type to be removed from this subnet e.g.: network:floatingip_agent_gateway. Must be a valid device owner value for a network port (repeat option to unset multiple service types)
--tag <tag>	Tag to be removed from the subnet (repeat option to remove multiple tags)
--all-tag	Clear all tags associated with the subnet

CHAPTER 76. TASK

This chapter describes the commands under the **task** command.

76.1. TASK EXECUTION LIST

List all tasks.

Usage:

```
openstack task execution list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--marker [MARKER]] [--limit [LIMIT]]
                             [--sort_keys [SORT_KEYS]]
                             [--sort_dirs [SORT_DIRS]]
                             [--filter FILTERS] [--oldest]
                             [workflow_execution]
```

Table 76.1. Positional arguments

Value	Summary
workflow_execution	Workflow execution id associated with list of tasks.

Table 76.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--marker [MARKER]	The last execution uuid of the previous page, displays list of executions after "marker".
--limit [LIMIT]	Maximum number of entries to return in a single result.
--sort_keys [SORT_KEYS]	Comma-separated list of sort keys to sort results by. Default: created_at. Example: mistral execution-list --sort_keys=id,description
--sort_dirs [SORT_DIRS]	Comma-separated list of sort directions. default: asc. Example: mistral execution-list --sort_keys=id,description --sort_dirs=asc,desc
--filter FILTERS	Filters. can be repeated.

Value	Summary
<code>--oldest</code>	Display the executions starting from the oldest entries instead of the newest

Table 76.3. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 76.4. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 76.5. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 76.6. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

76.2. TASK EXECUTION PUBLISHED SHOW

Show task published variables.

Usage:

```
openstack task execution published show [-h] id
```

Table 76.7. Positional arguments

Value	Summary
id	Task id

Table 76.8. Command arguments

Value	Summary
-h, --help	Show this help message and exit

76.3. TASK EXECUTION RERUN

Rerun an existing task.

Usage:

```
openstack task execution rerun [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty] [--resume] [-e ENV]
                               id
```

Table 76.9. Positional arguments

Value	Summary
id	Task identifier

Table 76.10. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--resume	Rerun only failed or unstarted action executions for with-items task
-e ENV, --env ENV	Environment variables

Table 76.11. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 76.12. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 76.13. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 76.14. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

76.4. TASK EXECUTION RESULT SHOW

Show task output data.

Usage:

```
openstack task execution result show [-h] id
```

Table 76.15. Positional arguments

Value	Summary
id	Task id

Table 76.16. Command arguments

Value	Summary
-h, --help	Show this help message and exit

76.5. TASK EXECUTION SHOW

Show specific task.

Usage:

```

openstack task execution show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               task

```

Table 76.17. Positional arguments

Value	Summary
task	Task identifier

Table 76.18. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 76.19. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 76.20. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 76.21. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 76.22. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 77. TLD

This chapter describes the commands under the **tld** command.

77.1. TLD CREATE

Create new tld

Usage:

```
openstack tld create [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] --name NAME
                    [--description DESCRIPTION] [--all-projects]
                    [--edit-managed]
                    [--sudo-project-id SUDO_PROJECT_ID]
```

Table 77.1. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name NAME	Tld name
--description DESCRIPTION	Description
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 77.2. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 77.3. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 77.4. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 77.5. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

77.2. TLD DELETE

Delete tld

Usage:

```
openstack tld delete [-h] [--all-projects] [--edit-managed]
                    [--sudo-project-id SUDO_PROJECT_ID]
                    id
```

Table 77.6. Positional arguments

Value	Summary
id	Tld id

Table 77.7. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false

Value	Summary
<code>--edit-managed</code>	Edit resources marked as managed. default: false
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None

77.3. TLD LIST

List tlds

Usage:

```

openstack tld list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                  [--quote {all,minimal,none,nonnumeric}] [--noindent]
                  [--max-width <integer>] [--fit-width]
                  [--print-empty] [--sort-column SORT_COLUMN]
                  [--name NAME] [--description DESCRIPTION]
                  [--all-projects] [--edit-managed]
                  [--sudo-project-id SUDO_PROJECT_ID]

```

Table 77.8. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--name NAME</code>	Tld name
<code>--description DESCRIPTION</code>	Tld description
<code>--all-projects</code>	Show results from all projects. default: false
<code>--edit-managed</code>	Edit resources marked as managed. default: false
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None

Table 77.9. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Value	Summary
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 77.10. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 77.11. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 77.12. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

77.4. TLD SET

Set tld properties

Usage:

```
openstack tld set [-h] [-f {json,shell,table,value,yaml}] [-c COLUMN]
                 [--noindent] [--prefix PREFIX]
                 [--max-width <integer>] [--fit-width] [--print-empty]
                 [--name NAME]
                 [--description DESCRIPTION | --no-description]
                 [--all-projects] [--edit-managed]
                 [--sudo-project-id SUDO_PROJECT_ID]
                 id
```

Table 77.13. Positional arguments

Value	Summary
id	Tld id

Table 77.14. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name NAME	Tld name
--description DESCRIPTION	Description
--no-description--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 77.15. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 77.16. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 77.17. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 77.18. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

77.5. TLD SHOW

Show tld details

Usage:

```

openstack tld show [-h] [-f {json,shell,table,value,yaml}] [-c COLUMN]
                  [--noindent] [--prefix PREFIX]
                  [--max-width <integer>] [--fit-width]
                  [--print-empty] [--all-projects] [--edit-managed]
                  [--sudo-project-id SUDO_PROJECT_ID]
                  id

```

Table 77.19. Positional arguments

Value	Summary
<code>id</code>	Tld id

Table 77.20. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--all-projects</code>	Show results from all projects. default: false
<code>--edit-managed</code>	Edit resources marked as managed. default: false
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None

Table 77.21. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 77.22. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 77.23. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 77.24. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 78. TOKEN

This chapter describes the commands under the **token** command.

78.1. TOKEN ISSUE

Issue new token

Usage:

```
openstack token issue [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty]
```

Table 78.1. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 78.2. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 78.3. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 78.4. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 78.5. Table formatter options

Value	Summary
-------	---------

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

78.2. TOKEN REVOKE

Revoke existing token

Usage:

```
openstack token revoke [-h] <token>
```

Table 78.6. Positional arguments

Value	Summary
<code><token></code>	Token to be deleted

Table 78.7. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

CHAPTER 79. TRIPLEO

This chapter describes the commands under the **tripleo** command.

79.1. TRIPLEO CONFIG GENERATE ANSIBLE

Generate the default ansible.cfg for deployments.

Usage:

```
openstack tripleo config generate ansible
                                [--deployment-user DEPLOYMENT_USER]
                                [--output-dir OUTPUT_DIR]
```

Table 79.1. Command arguments

Value	Summary
--deployment-user DEPLOYMENT_USER	User who executes the tripleo config generate command. Defaults to stack.
--output-dir OUTPUT_DIR	Directory to output ansible.cfg and ansible.log files.

79.2. TRIPLEO CONTAINER IMAGE BUILD

Build tripleo container images with tripleo-ansible.

Usage:

```
openstack tripleo container image build [-h] [--authfile <authfile>]
                                         [--base <base-image>]
                                         [--config-file <config-file>]
                                         [--config-path <config-path>]
                                         [--distro <distro>]
                                         [--exclude <container-name>]
                                         [--extra-config <extra-config>]
                                         [--namespace <registry-namespace>]
                                         [--registry <registry-url>]
                                         [--skip-build]
                                         [--tag <image-tag>]
                                         [--prefix <image-prefix>]
                                         [--push]
                                         [--volume <volume-path>]
                                         [--work-dir <work-directory>]
                                         [--rhel-modules <rhel-modules>]
```

Table 79.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Value	Summary
<code>--authfile <authfile></code>	Path of the authentication file. use <code>REGISTRY_AUTH_FILE</code> environment variable to override. (default: <code>/root/containers/auth.json</code>)
<code>--base <base-image></code>	Base image name, with optional version. can be <code>centos:8</code> , base name image will be <code>centos</code> but <code>centos:8</code> will be pulled to build the base image. (default: <code>ubi8</code>)
<code>--config-file <config-file></code>	Yaml config file specifying the images to build. (default: <code>tripleo_containers.yaml</code>)
<code>--config-path <config-path></code>	Base configuration path. this is the base path for all container-image files. If this option is set, the default path for <code><config-file></code> will be modified. (default: <code>/usr/share/tripleo-common/container-images</code>)
<code>--distro <distro></code>	Distro name, if undefined the system will build using the host distro. (default: <code>centos</code>)
<code>--exclude <container-name></code>	Name of one container to match against the list of containers to be built to skip. Should be specified multiple times when skipping multiple containers. (default: <code>[]</code>)
<code>--extra-config <extra-config></code>	Apply additional options from a given configuration YAML file. This will apply to all containers built. (default: <code>None</code>)
<code>--namespace <registry-namespace></code>	Container registry namespace (default: <code>tripleotrain</code>)
<code>--registry <registry-url></code>	Container registry url (default: <code>localhost</code>)
<code>--skip-build</code>	Skip or not the build of the images (default: <code>false</code>)
<code>--tag <image-tag></code>	Image tag (default: <code>latest</code>)
<code>--prefix <image-prefix></code>	Image prefix. (default: <code>openstack</code>)
<code>--push</code>	Enable image push to a given registry. (default: <code>False</code>)
<code>--volume <volume-path></code>	Container bind mount used when building the image. Should be specified multiple times if multiple volumes. (default: <code>[/etc/yum.repos.d:/etc/yum.repos.d:/etc/pki/rpm-gpg:/etc/pki/rpm-gpg:z]</code>)

Value	Summary
<code>--work-dir <work-directory></code>	Tripleo container builds directory, storing configs and logs for each image and its dependencies. (default: <code>/tmp/container-builds</code>)
<code>--rhel-modules <rhel-modules></code>	A comma separated list of rhel modules to enable with their version. Example: <code>mariadb:10.3,virt:8.3</code> .

79.3. TRIPLEO CONTAINER IMAGE DELETE

Delete specified image from registry.

Usage:

```
openstack tripleo container image delete [-h]
                                     [--registry-url <registry url>]
                                     [--username <username>]
                                     [--password <password>] [-y]
                                     <image to delete>
```

Table 79.3. Positional arguments

Value	Summary
<code><image to delete></code>	Full url of image to be deleted in the form <code><fqdn>:<port>/path/to/image</code>

Table 79.4. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--registry-url <registry url></code>	Url of registry images are to be listed from in the form <code><fqdn>:<port></code> .
<code>--username <username></code>	Username for image registry.
<code>--password <password></code>	Password for image registry.
<code>-y, --yes</code>	Skip yes/no prompt (assume yes).

79.4. TRIPLEO CONTAINER IMAGE HOTFIX

Hotfix tripleo container images with `tripleo-ansible`.

Usage:

```
openstack tripleo container image hotfix [-h] --image <images>
--rpms-path <rpms-path>
[--tag <image-tag>]
```

Table 79.5. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--image <images>	Fully qualified reference to the source image to be modified. Can be specified multiple times (one per image) (default: []).
--rpms-path <rpms-path>	Path containing rpms to install (default: none).
--tag <image-tag>	Image hotfix tag (default: latest)

79.5. TRIPLEO CONTAINER IMAGE LIST

List images discovered in registry.

Usage:

```
openstack tripleo container image list [-h]
-f {csv,json,table,value,yaml}
-c COLUMN
[--quote {all,minimal,none,nonnumeric}]
[--noindent]
[--max-width <integer>]
[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]
[--registry-url <registry url>]
[--username <username>]
[--password <password>]
```

Table 79.6. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--registry-url <registry url>	Url of registry images are to be listed from in the form <fqdn>:<port>.
--username <username>	Username for image registry.
--password <password>	Password for image registry.

Table 79.7. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 79.8. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 79.9. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 79.10. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

79.6. TRIPLEO CONTAINER IMAGE PREPARE DEFAULT

Generate a default ContainerImagePrepare parameter.

Usage:

```
openstack tripleo container image prepare default [-h]
                                                    [--output-env-file <file path>]
                                                    [--local-push-destination]
```


[--enable-registry-login]

Table 79.11. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--output-env-file <file path>	File to write environment file containing default ContainerImagePrepare value.
--local-push-destination	Include a push_destination to trigger upload to a local registry.
--enable-registry-login	Use this flag to enable the flag to have systems attempt to login to a remote registry prior to pulling their containers. This flag should be used when --local-push-destination is NOT used and the target systems will have network connectivity to the remote registries. Do not use this for an overcloud that may not have network connectivity to a remote registry.

79.7. TRIPLEO CONTAINER IMAGE PREPARE

Prepare and upload containers from a single command.

Usage:

```
openstack tripleo container image prepare [-h]
                                           [--environment-file <file path>]
                                           [--environment-directory <HEAT ENVIRONMENT DIRECTORY>]
                                           [--roles-file ROLES_FILE]
                                           [--output-env-file <file path>]
                                           [--dry-run]
                                           [--cleanup <full, partial, none>]
```

Table 79.12. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--environment-file <file path>, -e <file path>	Environment file containing the containerimageprepare parameter which specifies all prepare actions. Also, environment files specifying which services are containerized. Entries will be filtered to only contain images used by containerized services. (Can be specified more than once.)

Value	Summary
<code>--environment-directory <HEAT ENVIRONMENT DIRECTORY></code>	Environment file directories that are automatically added to the environment. Can be specified more than once. Files in directories are loaded in ascending sort order.
<code>--roles-file ROLES_FILE, -r ROLES_FILE</code>	Roles file, overrides the default <code>roles_data.yaml</code> in the <code>t-h-t</code> templates directory used for deployment. May be an absolute path or the path relative to the <code>templates</code> dir.
<code>--output-env-file <file path></code>	File to write heat environment file which specifies all image parameters. Any existing file will be overwritten.
<code>--dry-run</code>	Do not perform any pull, modify, or push operations. The environment file will still be populated as if these operations were performed.
<code>--cleanup <full, partial, none></code>	Cleanup behavior for local images left after upload. The default <i>full</i> will attempt to delete all local images. <i>partial</i> will leave images required for deployment on this host. <i>none</i> will do no cleanup.

79.8. TRIPLEO CONTAINER IMAGE PUSH

Push specified image to registry.

Usage:

```

openstack tripleo container image push [-h] [--local]
                                     [--registry-url <registry url>]
                                     [--append-tag APPEND_TAG]
                                     [--username <username>]
                                     [--password <password>]
                                     [--source-username <source_username>]
                                     [--source-password <source_password>]
                                     [--dry-run] [--multi-arch]
                                     [--cleanup]
                                     <image to push>

```

Table 79.13. Positional arguments

Value	Summary
-------	---------

Value	Summary
<image to push>	Container image to upload. should be in the form of <registry>/<namespace>/<name>:<tag>. If tag is not provided, then latest will be used.

Table 79.14. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--local	Use this flag if the container image is already on the current system and does not need to be pulled from a remote registry.
--registry-url <registry url>	Url of the destination registry in the form <fqdn>:<port>.
--append-tag APPEND_TAG	Tag to append to the existing tag when pushing the container.
--username <username>	Username for the destination image registry.
--password <password>	Password for the destination image registry.
--source-username <source_username>	Username for the source image registry.
--source-password <source_password>	Password for the source image registry.
--dry-run	Perform a dry run upload. the upload action is not performed, but the authentication process is attempted.
--multi-arch	Enable multi arch support for the upload.
--cleanup	Remove local copy of the image after uploading

79.9. TRIPLEO CONTAINER IMAGE SHOW

Show image selected from the registry.

Usage:

```
openstack tripleo container image show [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
```

```

[--max-width <integer>]
[--fit-width] [--print-empty]
[--username <username>]
[--password <password>]
<image to inspect>

```

Table 79.15. Positional arguments

Value	Summary
<image to inspect>	Image to be inspected, for example: docker.io/library/centos:7 or docker://docker.io/library/centos:7

Table 79.16. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--username <username>	Username for image registry.
--password <password>	Password for image registry.

Table 79.17. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to json
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 79.18. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 79.19. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 79.20. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

79.10. TRIPLEO DEPLOY

Deploy containerized Undercloud

Usage:

```

openstack tripleo deploy [--templates [TEMPLATES]] [--standalone]
    [--upgrade] [-y] [--stack STACK]
    [--output-dir OUTPUT_DIR] [--output-only]
    [--standalone-role STANDALONE_ROLE]
    [-t <TIMEOUT>] [-e <HEAT ENVIRONMENT FILE>]
    [--roles-file ROLES_FILE]
    [--networks-file NETWORKS_FILE]
    [--plan-environment-file PLAN_ENVIRONMENT_FILE]
    [--heat-api-port <HEAT_API_PORT>]
    [--heat-user <HEAT_USER>]
    [--deployment-user DEPLOYMENT_USER]
    [--deployment-python-interpretor DEPLOYMENT_PYTHON_INTERPRETER]
    [--heat-container-image <HEAT_CONTAINER_IMAGE>]
    [--heat-native [HEAT_NATIVE]]
    [--local-ip <LOCAL_IP>]
    [--control-virtual-ip <CONTROL_VIRTUAL_IP>]
    [--public-virtual-ip <PUBLIC_VIRTUAL_IP>]
    [--local-domain <LOCAL_DOMAIN>] [--cleanup]
    [--hieradata-override [HIERADATA_OVERRIDE]]
    [--keep-running] [--inflight-validations]
    [--force-stack-update | --force-stack-create]

```

Table 79.21. Command arguments

Value	Summary
<code>--templates [TEMPLATES]</code>	The directory containing the heat templates to deploy
<code>--standalone</code>	Run deployment as a standalone deployment with no undercloud.
<code>--upgrade</code>	Upgrade an existing deployment.

Value	Summary
-y, --yes	Skip yes/no prompt (assume yes).
--stack STACK	Name for the ephemeral (one-time create and forget) heat stack.
--output-dir OUTPUT_DIR	Directory to output state, processed heat templates, ansible deployment files.
--output-only	Do not execute the ansible playbooks. by default the playbooks are saved to the output-dir and then executed.
--standalone-role STANDALONE_ROLE	The role to use for standalone configuration when populating the deployment actions.
-t <TIMEOUT>, --timeout <TIMEOUT>	Deployment timeout in minutes.
-e <HEAT ENVIRONMENT FILE>, --environment-file <HEAT ENVIRONMENT FILE>	Environment files to be passed to the heat stack-create or heat stack-update command. (Can be specified more than once.)
--roles-file ROLES_FILE, -r ROLES_FILE	Roles file, overrides the default roles_data_undercloud.yaml in the t-h-t templates directory used for deployment. May be an absolute path or the path relative to the templates dir.
--networks-file NETWORKS_FILE, -n NETWORKS_FILE	Roles file, overrides the default /dev/null in the t-h-t templates directory used for deployment. May be an absolute path or the path relative to the templates dir.
--plan-environment-file PLAN_ENVIRONMENT_FILE, -p PLAN_ENVIRONMENT_FILE	Plan environment file, overrides the default plan-environment.yaml in the --templates directory
--heat-api-port <HEAT_API_PORT>	Heat api port to use for the installers private heat API instance. Optional. Default: 8006.)
--heat-user <HEAT_USER>	User to execute the non-privileged heat-all process. Defaults to heat.
--deployment-user DEPLOYMENT_USER	User who executes the tripleo deploy command. defaults to \$SUDO_USER. If \$SUDO_USER is unset it defaults to stack.

Value	Summary
--deployment-python-interpreter DEPLOYMENT_PYTHON_INTERPRETER	The path to python interpreter to use for the deployment actions. If not specified the python version of the openstackclient will be used. This may need to be used if deploying on a python2 host from a python3 system or vice versa.
--heat-container-image <HEAT_CONTAINER_IMAGE>	The container image to use when launching the heat-all process. Defaults to: tripleomaster/centos-binary-heat-all:current-tripleo
--heat-native [HEAT_NATIVE]	Execute the heat-all process natively on this host. This option requires that the heat-all binaries be installed locally on this machine. This option is enabled by default which means heat-all is executed on the host OS directly.
--local-ip <LOCAL_IP>	Local ip/cidr for undercloud traffic. required.
--control-virtual-ip <CONTROL_VIRTUAL_IP>	Control plane vip. this allows the undercloud installer to configure a custom VIP on the control plane.
--public-virtual-ip <PUBLIC_VIRTUAL_IP>	Public nw vip. this allows the undercloud installer to configure a custom VIP on the public (external) NW.
--local-domain <LOCAL_DOMAIN>	Local domain for standalone cloud and its api endpoints
--cleanup	Cleanup temporary files. using this flag will remove the temporary files used during deployment in after the command is run.
--hieradata-override [HIERADATA_OVERRIDE]	Path to hieradata override file. when it points to a heat env file, it is passed in t-h-t via --environment-file. When the file contains legacy instack data, it is wrapped with <role>ExtraConfig and also passed in for t-h-t as a temp file created in --output-dir. Note, instack hiera data may be not t-h-t compatible and will highly likely require a manual revision.
--keep-running	Keep the ephemeral heat running after the stack operation is complete. This is for debugging purposes only. The ephemeral Heat can be used by openstackclient with: OS_AUTH_TYPE=none OS_ENDPOINT=http://127.0.0.1:8006/v1/admin openstack stack list where 8006 is the port specified by --heat- api-port.

Value	Summary
<code>--inflight-validations</code>	Activate in-flight validations during the deploy. in-flight validations provide a robust way to ensure deployed services are running right after their activation. Defaults to False.
<code>--force-stack-update</code>	Do a virtual update of the ephemeral heat stack (it cannot take real updates). New or failed deployments always have the <code>stack_action=CREATE</code> . This option enforces <code>stack_action=UPDATE</code> .
<code>--force-stack-create</code>	Do a virtual create of the ephemeral heat stack. new or failed deployments always have the <code>stack_action=CREATE</code> . This option enforces <code>stack_action=CREATE</code> .

79.11. TRIPLEO UPGRADE

Upgrade TripleO

Usage:

```

openstack tripleo upgrade [--templates [TEMPLATES]] [--standalone]
    [--upgrade] [-y] [--stack STACK]
    [--output-dir OUTPUT_DIR] [--output-only]
    [--standalone-role STANDALONE_ROLE]
    [-t <TIMEOUT>] [-e <HEAT ENVIRONMENT FILE>]
    [--roles-file ROLES_FILE]
    [--networks-file NETWORKS_FILE]
    [--plan-environment-file PLAN_ENVIRONMENT_FILE]
    [--heat-api-port <HEAT_API_PORT>]
    [--heat-user <HEAT_USER>]
    [--deployment-user DEPLOYMENT_USER]
    [--deployment-python-interpreter DEPLOYMENT_PYTHON_INTERPRETER]
    [--heat-container-image <HEAT_CONTAINER_IMAGE>]
    [--heat-native [HEAT_NATIVE]]
    [--local-ip <LOCAL_IP>]
    [--control-virtual-ip <CONTROL_VIRTUAL_IP>]
    [--public-virtual-ip <PUBLIC_VIRTUAL_IP>]
    [--local-domain <LOCAL_DOMAIN>] [--cleanup]
    [--hieradata-override [HIERADATA_OVERRIDE]]
    [--keep-running] [--inflight-validations]
    [--force-stack-update | --force-stack-create]

```

Table 79.22. Command arguments

Value	Summary
<code>--templates [TEMPLATES]</code>	The directory containing the heat templates to deploy
<code>--standalone</code>	Run deployment as a standalone deployment with no undercloud.
<code>--upgrade</code>	Upgrade an existing deployment.
<code>-y, --yes</code>	Skip yes/no prompt (assume yes).
<code>--stack STACK</code>	Name for the ephemeral (one-time create and forget) heat stack.
<code>--output-dir OUTPUT_DIR</code>	Directory to output state, processed heat templates, ansible deployment files.
<code>--output-only</code>	Do not execute the ansible playbooks. by default the playbooks are saved to the output-dir and then executed.
<code>--standalone-role STANDALONE_ROLE</code>	The role to use for standalone configuration when populating the deployment actions.
<code>-t <TIMEOUT>, --timeout <TIMEOUT></code>	Deployment timeout in minutes.
<code>-e <HEAT ENVIRONMENT FILE>, --environment-file <HEAT ENVIRONMENT FILE></code>	Environment files to be passed to the heat stack-create or heat stack-update command. (Can be specified more than once.)
<code>--roles-file ROLES_FILE, -r ROLES_FILE</code>	Roles file, overrides the default <code>roles_data_undercloud.yaml</code> in the <code>t-h-t</code> templates directory used for deployment. May be an absolute path or the path relative to the templates dir.
<code>--networks-file NETWORKS_FILE, -n NETWORKS_FILE</code>	Roles file, overrides the default <code>/dev/null</code> in the <code>t-h-t</code> templates directory used for deployment. May be an absolute path or the path relative to the templates dir.
<code>--plan-environment-file PLAN_ENVIRONMENT_FILE, -p PLAN_ENVIRONMENT_FILE</code>	Plan environment file, overrides the default <code>plan-environment.yaml</code> in the <code>--templates</code> directory
<code>--heat-api-port <HEAT_API_PORT></code>	Heat api port to use for the installers private heat API instance. Optional. Default: 8006.)

Value	Summary
<code>--heat-user <HEAT_USER></code>	User to execute the non-privileged heat-all process. Defaults to heat.
<code>--deployment-user DEPLOYMENT_USER</code>	User who executes the tripleo deploy command. defaults to \$SUDO_USER. If \$SUDO_USER is unset it defaults to stack.
<code>--deployment-python-interpreter DEPLOYMENT_PYTHON_INTERPRETER</code>	The path to python interpreter to use for the deployment actions. If not specified the python version of the openstackclient will be used. This may need to be used if deploying on a python2 host from a python3 system or vice versa.
<code>--heat-container-image <HEAT_CONTAINER_IMAGE></code>	The container image to use when launching the heat-all process. Defaults to: tripleomaster/centos-binary-heat-all:current-tripleo
<code>--heat-native [HEAT_NATIVE]</code>	Execute the heat-all process natively on this host. This option requires that the heat-all binaries be installed locally on this machine. This option is enabled by default which means heat-all is executed on the host OS directly.
<code>--local-ip <LOCAL_IP></code>	Local ip/cidr for undercloud traffic. required.
<code>--control-virtual-ip <CONTROL_VIRTUAL_IP></code>	Control plane vip. this allows the undercloud installer to configure a custom VIP on the control plane.
<code>--public-virtual-ip <PUBLIC_VIRTUAL_IP></code>	Public nw vip. this allows the undercloud installer to configure a custom VIP on the public (external) NW.
<code>--local-domain <LOCAL_DOMAIN></code>	Local domain for standalone cloud and its api endpoints
<code>--cleanup</code>	Cleanup temporary files. using this flag will remove the temporary files used during deployment in after the command is run.
<code>--hieradata-override [HIERADATA_OVERRIDE]</code>	Path to hieradata override file. when it points to a heat env file, it is passed in t-h-t via --environment-file. When the file contains legacy instack data, it is wrapped with <role>ExtraConfig and also passed in for t-h-t as a temp file created in --output-dir. Note, instack hiera data may be not t-h-t compatible and will highly likely require a manual revision.

Value	Summary
<code>--keep-running</code>	Keep the ephemeral heat running after the stack operation is complete. This is for debugging purposes only. The ephemeral Heat can be used by openstackclient with: <code>OS_AUTH_TYPE=none</code> <code>OS_ENDPOINT=http://127.0.0.1:8006/v1/admin</code> openstack stack list where 8006 is the port specified by <code>--heat-api-port</code> .
<code>--inflight-validations</code>	Activate in-flight validations during the deploy. in-flight validations provide a robust way to ensure deployed services are running right after their activation. Defaults to False.
<code>--force-stack-update</code>	Do a virtual update of the ephemeral heat stack (it cannot take real updates). New or failed deployments always have the <code>stack_action=CREATE</code> . This option enforces <code>stack_action=UPDATE</code> .
<code>--force-stack-create</code>	Do a virtual create of the ephemeral heat stack. new or failed deployments always have the <code>stack_action=CREATE</code> . This option enforces <code>stack_action=CREATE</code> .

79.12. TRIPLEO VALIDATOR GROUP INFO

Display Information about Validation Groups

Usage:

```
openstack tripleo validator group info [-h]
    [-f {csv,json,table,value,yaml}]
    [-c COLUMN]
    [--quote {all,minimal,none,nonnumeric}]
    [--noindent]
    [--max-width <integer>]
    [--fit-width] [--print-empty]
    [--sort-column SORT_COLUMN]
```

Table 79.23. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 79.24. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 79.25. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 79.26. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 79.27. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

79.13. TRIPLEO VALIDATOR LIST

List the available validations

Usage:

```
openstack tripleo validator list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
```

```

[--fit-width] [--print-empty]
[--sort-column SORT_COLUMN]
[--group <group>[,<group>,...]]

```

Table 79.28. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--group <group>[,<group>,...]	List specific group validations, if more than one group is required separate the group names with commas: --group pre-upgrade,prep --group openshift- on-openstack

Table 79.29. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 79.30. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 79.31. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 79.32. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

79.14. TRIPLEO VALIDATOR RUN

Run the available validations

Usage:

```

openstack tripleo validator run [--plan PLAN] [--ssh-user SSH_USER]
                                [--limit LIMIT]
                                [--python-interpreter PYTHON_INTERPRETER]
                                [--static-inventory STATIC_INVENTORY]
                                [--extra-vars key1=<val1>[,key2=val2 --extra-vars key3=<val3>]
                                | --extra-vars-file EXTRA_VARS_FILE]
                                [--extra-env-vars key1=<val1>[,key2=val2 --extra-env-vars key3=<val3>]]
                                (--validation <validation_id>[,<validation_id>,...] | --group <group>[,
                                <group>,...])

```

Table 79.33. Command arguments

Value	Summary
<code>--plan PLAN, --stack PLAN</code>	Execute the validations using a custom plan name (default: None)
<code>--ssh-user SSH_USER</code>	Ssh user name for the overcloud ssh connection. (default: heat-admin)
<code>--limit LIMIT</code>	A string that identifies a single node or comma-separated list of nodes to be upgraded in parallel in this upgrade run invocation. For example: <code>--limit "compute-0, compute-1, compute-5"</code> . (default: None)
<code>--python-interpreter PYTHON_INTERPRETER</code>	Python interpreter for ansible execution. (default: <code>/usr/bin/python3</code>)
<code>--static-inventory STATIC_INVENTORY</code>	Provide your own static inventory file. you can generate such an inventory calling <code>tripleo-ansible-inventory</code> command. Especially useful when heat service isn't available. (default:)

Value	Summary
<code>--extra-vars key1=<val1>[,key2=val2 --extra-vars key3=<val3>]</code>	Add ansible extra variables to the validation(s) execution as KEY=VALUE pair(s). Note that if you pass the same KEY multiple times, the last given VALUE for that same KEY will override the other(s) (default: None)
<code>--extra-vars-file EXTRA_VARS_FILE</code>	Add a json/yaml file containing extra variable to a validation: <code>--extra-vars-file /home/stack/vars.[json yaml]</code> If using Mistral, only a valid JSON file will be supported. (default:)
<code>--extra-env-vars key1=<val1>[,key2=val2 --extra-env-vars key3=<val3>]</code>	Add extra environment variables you may need to provide to your Ansible execution as KEY=VALUE pairs. Note that if you pass the same KEY multiple times, the last given VALUE for that same KEY will override the other(s) (default: None)
<code>--validation <validation_id>[,<validation_id>,...]</code>	Run specific validations, if more than one validation is required separate the names with commas: <code>--validation check-ftype,512e --validation 512e</code> (default: [])
<code>--group <group>[,<group>,...]</code>	Run specific group validations, if more than one group is required separate the group names with commas: <code>--group pre-upgrade,prep --group openshift-on- openstack</code> (default: [])

79.15. TRIPLEO VALIDATOR SHOW HISTORY

Display Validations execution history

Usage:

```

openstack tripleo validator show history [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]
                                     [--validation <validation>]

```

Table 79.34. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--validation <validation>	Display execution history for a validation

Table 79.35. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 79.36. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 79.37. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 79.38. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

79.16. TRIPLEO VALIDATOR SHOW PARAMETER

Display Validations Parameters

Usage:

```

openstack tripleo validator show parameter [-h]
                                         [--validation <validation_id>[,<validation_id>,...]]
                                         | --group
                                         <group_id>[,<group_id>,...]]
                                         [--download DOWNLOAD]
                                         [-f <format>]

```

Table 79.39. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--validation <validation_id>[,<validation_id>,...]	List specific validations, if more than one validation is required separate the names with commas: --validation check-ftype,512e --validation 512e (default: [])
--group <group_id>[,<group_id>,...]	List specific group validations, if more than one group is required separate the group names with commas: pre-upgrade,prep openshift-on-openstack (default: [])
--download DOWNLOAD	Create a json or a yaml file containing all the variables available for the validations: /tmp/myvars (default: None)
-f <format>, --format <format>	Print representation of the validation. the choices of the output format is json,yaml. (default: json)

79.17. TRIPLEO VALIDATOR SHOW RUN

Display details about a Validation execution

Usage:

```

openstack tripleo validator show run [--full] <uuid>

```

Table 79.40. Positional arguments

Value	Summary
<uuid>	Validation uuid run

Table 79.41. Command arguments

Value	Summary
--full	Show full details for the run (default: false)

79.18. TRIPLEO VALIDATOR SHOW

Display detailed information about a Validation

Usage:

```

openstack tripleo validator show [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty]
                                <validation>

```

Table 79.42. Positional arguments

Value	Summary
<validation>	Validation id

Table 79.43. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 79.44. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 79.45. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 79.46. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 79.47. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 80. TRUST

This chapter describes the commands under the **trust** command.

80.1. TRUST CREATE

Create new trust

Usage:

```
openstack trust create [-h] [-f {json,shell,table,value,yaml}]
                      [-c COLUMN] [--noindent] [--prefix PREFIX]
                      [--max-width <integer>] [--fit-width]
                      [--print-empty] --project <project> --role
                      <role> [--impersonate]
                      [--expiration <expiration>]
                      [--project-domain <project-domain>]
                      [--trustor-domain <trustor-domain>]
                      [--trustee-domain <trustee-domain>]
                      <trustor-user> <trustee-user>
```

Table 80.1. Positional arguments

Value	Summary
<trustor-user>	User that is delegating authorization (name or id)
<trustee-user>	User that is assuming authorization (name or id)

Table 80.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--project <project>	Project being delegated (name or id) (required)
--role <role>	Roles to authorize (name or id) (repeat option to set multiple values, required)
--impersonate	Tokens generated from the trust will represent <trustor> (defaults to False)
--expiration <expiration>	Sets an expiration date for the trust (format of yyyy-mm-ddTHH:MM:SS)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Value	Summary
<code>--trustor-domain <trustor-domain></code>	Domain that contains <trustor> (name or id)
<code>--trustee-domain <trustee-domain></code>	Domain that contains <trustee> (name or id)

Table 80.3. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 80.4. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 80.5. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 80.6. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

80.2. TRUST DELETE

Delete trust(s)

Usage:

```
openstack trust delete [-h] <trust> [<trust> ...]
```

Table 80.7. Positional arguments

Value	Summary
<trust>	Trust(s) to delete

Table 80.8. Command arguments

Value	Summary
-h, --help	Show this help message and exit

80.3. TRUST LIST

List trusts

Usage:

```
openstack trust list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>] [--fit-width]
                    [--print-empty] [--sort-column SORT_COLUMN]
```

Table 80.9. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 80.10. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 80.11. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 80.12. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 80.13. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

80.4. TRUST SHOW

Display trust details

Usage:

```
openstack trust show [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty]
                    <trust>
```

Table 80.14. Positional arguments

Value	Summary
<code><trust></code>	Trust to display

Table 80.15. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 80.16. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 80.17. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 80.18. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 80.19. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 81. TSIGKEY

This chapter describes the commands under the **tsigkey** command.

81.1. TSIGKEY CREATE

Create new tsigkey

Usage:

```
openstack tsigkey create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] --name NAME --algorithm
                        ALGORITHM --secret SECRET --scope SCOPE
                        --resource-id RESOURCE_ID [--all-projects]
                        [--edit-managed]
                        [--sudo-project-id SUDO_PROJECT_ID]
```

Table 81.1. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name NAME	Tsigkey name
--algorithm ALGORITHM	Tsigkey algorithm
--secret SECRET	Tsigkey secret
--scope SCOPE	Tsigkey scope
--resource-id RESOURCE_ID	Tsigkey resource_id
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 81.2. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table

Value	Summary
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 81.3. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 81.4. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 81.5. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

81.2. TSIGKEY DELETE

Delete tsigkey

Usage:

```
openstack tsigkey delete [-h] [--all-projects] [--edit-managed]
                        [--sudo-project-id SUDO_PROJECT_ID]
                        id
```

Table 81.6. Positional arguments

Value	Summary
id	Tsigkey id

Table 81.7. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

81.3. TSIGKEY LIST

List tsigkeys

Usage:

```
openstack tsigkey list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--name NAME]
                        [--algorithm ALGORITHM] [--scope SCOPE]
                        [--all-projects] [--edit-managed]
                        [--sudo-project-id SUDO_PROJECT_ID]
```

Table 81.8. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name NAME	Tsigkey name
--algorithm ALGORITHM	Tsigkey algorithm
--scope SCOPE	Tsigkey scope
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 81.9. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 81.10. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 81.11. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 81.12. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

81.4. TSIGKEY SET

Set tsigkey properties

Usage:

```
openstack tsigkey set [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--name NAME]
                    [--algorithm ALGORITHM] [--secret SECRET]
```

```

[--scope SCOPE] [--all-projects] [--edit-managed]
[--sudo-project-id SUDO_PROJECT_ID]
id

```

Table 81.13. Positional arguments

Value	Summary
id	Tsigkey id

Table 81.14. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name NAME	Tsigkey name
--algorithm ALGORITHM	Tsigkey algorithm
--secret SECRET	Tsigkey secret
--scope SCOPE	Tsigkey scope
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 81.15. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 81.16. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 81.17. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 81.18. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

81.5. TSIGKEY SHOW

Show tsigkey details

Usage:

```
openstack tsigkey show [-h] [-f {json,shell,table,value,yaml}]
                       [-c COLUMN] [--noindent] [--prefix PREFIX]
                       [--max-width <integer>] [--fit-width]
                       [--print-empty] [--all-projects]
                       [--edit-managed]
                       [--sudo-project-id SUDO_PROJECT_ID]
                       id
```

Table 81.19. Positional arguments

Value	Summary
<code>id</code>	Tsigkey id

Table 81.20. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--all-projects</code>	Show results from all projects. default: false
<code>--edit-managed</code>	Edit resources marked as managed. default: false

Value	Summary
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None

Table 81.21. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 81.22. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 81.23. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 81.24. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 82. UNDERCLOUD

This chapter describes the commands under the **undercloud** command.

82.1. UNDERCLOUD BACKUP

Backup the undercloud

Usage:

```
openstack undercloud backup [--add-path ADD_PATH]
                             [--exclude-path EXCLUDE_PATH]
```

Table 82.1. Command arguments

Value	Summary
--add-path ADD_PATH	Add additional files to backup. defaults to: /home/stack/ i.e. --add-path /this/is/a/folder/ --add-path /this/is/a/textfile.txt
--exclude-path EXCLUDE_PATH	Exclude path when performing the undercloud backup, this option can be specified multiple times. Defaults to: none i.e. --exclude-path /this/is/a/folder/ --exclude-path /this/is/a/textfile.txt

82.2. UNDERCLOUD INSTALL

Install and setup the undercloud

Usage:

```
openstack undercloud install [--force-stack-update] [--no-validations]
                              [--inflight-validations] [--dry-run] [-y]
```

Table 82.2. Command arguments

Value	Summary
--force-stack-update	Do a virtual update of the ephemeral heat stack. new or failed deployments always have the stack_action=CREATE. This option enforces stack_action=UPDATE.
--no-validations	Do not perform undercloud configuration validations

Value	Summary
<code>--inflight-validations</code>	Activate in-flight validations during the deploy. in-flight validations provide a robust way to ensure deployed services are running right after their activation. Defaults to False.
<code>--dry-run</code>	Print the install command instead of running it
<code>-y, --yes</code>	Skip yes/no prompt (assume yes).

82.3. UNDERCLOUD MINION INSTALL

Install and setup the undercloud minion

Usage:

```
openstack undercloud minion install [--force-stack-update]
                                     [--no-validations] [--dry-run] [-y]
```

Table 82.3. Command arguments

Value	Summary
<code>--force-stack-update</code>	Do a virtual update of the ephemeral heat stack. new or failed deployments always have the <code>stack_action=CREATE</code> . This option enforces <code>stack_action=UPDATE</code> .
<code>--no-validations</code>	Do not perform minion configuration validations
<code>--dry-run</code>	Print the install command instead of running it
<code>-y, --yes</code>	Skip yes/no prompt (assume yes).

82.4. UNDERCLOUD MINION UPGRADE

Upgrade undercloud minion

Usage:

```
openstack undercloud minion upgrade [--force-stack-update]
                                      [--no-validations] [--dry-run] [-y]
```

Table 82.4. Command arguments

Value	Summary
<code>--force-stack-update</code>	Do a virtual update of the ephemeral heat stack. new or failed deployments always have the <code>stack_action=CREATE</code> . This option enforces <code>stack_action=UPDATE</code> .
<code>--no-validations</code>	Do not perform minion configuration validations
<code>--dry-run</code>	Print the install command instead of running it
<code>-y, --yes</code>	Skip yes/no prompt (assume yes).

82.5. UNDERCLOUD UPGRADE

Upgrade undercloud

Usage:

```
openstack undercloud upgrade [--force-stack-update] [--no-validations]
                             [--inflight-validations] [--dry-run] [-y]
                             [--skip-package-updates]
```

Table 82.5. Command arguments

Value	Summary
<code>--force-stack-update</code>	Do a virtual update of the ephemeral heat stack. new or failed deployments always have the <code>stack_action=CREATE</code> . This option enforces <code>stack_action=UPDATE</code> .
<code>--no-validations</code>	Do not perform undercloud configuration validations
<code>--inflight-validations</code>	Activate in-flight validations during the deploy. in-flight validations provide a robust way to ensure deployed services are running right after their activation. Defaults to False.
<code>--dry-run</code>	Print the install command instead of running it
<code>-y, --yes</code>	Skip yes/no prompt (assume yes).
<code>--skip-package-updates</code>	Flag to skip the package update when performing upgrades and updates

CHAPTER 83. USAGE

This chapter describes the commands under the **usage** command.

83.1. USAGE LIST

List resource usage per project

Usage:

```
openstack usage list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>] [--fit-width]
                    [--print-empty] [--sort-column SORT_COLUMN]
                    [--start <start>] [--end <end>]
```

Table 83.1. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--start <start>	Usage range start date, ex 2012-01-20 (default: 4 weeks ago)
--end <end>	Usage range end date, ex 2012-01-20 (default: tomorrow)

Table 83.2. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 83.3. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 83.4. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 83.5. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

83.2. USAGE SHOW

Show resource usage for a single project

Usage:

```
openstack usage show [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--project <project>]
                    [--start <start>] [--end <end>]
```

Table 83.6. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--project <project>	Name or id of project to show usage for
--start <start>	Usage range start date, ex 2012-01-20 (default: 4 weeks ago)
--end <end>	Usage range end date, ex 2012-01-20 (default: tomorrow)

Table 83.7. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 83.8. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 83.9. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 83.10. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 84. USER

This chapter describes the commands under the **user** command.

84.1. USER CREATE

Create new user

Usage:

```
openstack user create [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--domain <domain>]
                    [--project <project>]
                    [--project-domain <project-domain>]
                    [--password <password>] [--password-prompt]
                    [--email <email-address>]
                    [--description <description>]
                    [--enable | --disable] [--or-show]
                    <name>
```

Table 84.1. Positional arguments

Value	Summary
<name>	New user name

Table 84.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Default domain (name or id)
--project <project>	Default project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--password <password>	Set user password
--password-prompt	Prompt interactively for password
--email <email-address>	Set user email address
--description <description>	User description

Value	Summary
<code>--enable</code>	Enable user (default)
<code>--disable</code>	Disable user
<code>--or-show</code>	Return existing user

Table 84.3. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 84.4. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 84.5. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 84.6. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

84.2. USER DELETE

Delete user(s)

Usage:

```
openstack user delete [-h] [--domain <domain>] <user> [<user> ...]
```

Table 84.7. Positional arguments

Value	Summary
<user>	User(s) to delete (name or id)

Table 84.8. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Domain owning <user> (name or id)

84.3. USER LIST

List users

Usage:

```
openstack user list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>] [--fit-width]
                    [--print-empty] [--sort-column SORT_COLUMN]
                    [--domain <domain>]
                    [--group <group> | --project <project>] [--long]
```

Table 84.9. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Filter users by <domain> (name or id)
--group <group>	Filter users by <group> membership (name or id)
--project <project>	Filter users by <project> (name or id)
--long	List additional fields in output

Table 84.10. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 84.11. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 84.12. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 84.13. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

84.4. USER PASSWORD SET

Change current user password

Usage:

```
openstack user password set [-h] [--password <new-password>]
                             [--original-password <original-password>]
```

Table 84.14. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--password <new-password>	New user password
--original-password <original-password>	Original user password

84.5. USER SET

Set user properties

Usage:

```
openstack user set [-h] [--name <name>] [--domain <domain>]
                  [--project <project>]
                  [--project-domain <project-domain>]
                  [--password <password>] [--password-prompt]
                  [--email <email-address>]
                  [--description <description>] [--enable | --disable]
                  <user>
```

Table 84.15. Positional arguments

Value	Summary
<user>	User to modify (name or id)

Table 84.16. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Set user name
--domain <domain>	Domain the user belongs to (name or id). this can be used in case collisions between user names exist.
--project <project>	Set default project (name or id)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--password <password>	Set user password
--password-prompt	Prompt interactively for password

Value	Summary
--email <email-address>	Set user email address
--description <description>	Set user description
--enable	Enable user (default)
--disable	Disable user

84.6. USER SHOW

Display user details

Usage:

```
openstack user show [-h] [-f {json,shell,table,value,yaml}] [-c COLUMN]
                    [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--domain <domain>]
                    <user>
```

Table 84.17. Positional arguments

Value	Summary
<user>	User to display (name or id)

Table 84.18. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--domain <domain>	Domain owning <user> (name or id)

Table 84.19. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 84.20. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 84.21. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 84.22. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 85. VERSIONS

This chapter describes the commands under the **versions** command.

85.1. VERSIONS SHOW

Show available versions of services

Usage:

```
openstack versions show [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN]
                        [--all-interfaces | --interface <interface>]
                        [--region-name <region_name>]
                        [--service <region_name>]
                        [--status <region_name>]
```

Table 85.1. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-interfaces	Show values for all interfaces
--interface <interface>	Show versions for a specific interface.
--region-name <region_name>	Show versions for a specific region.
--service <region_name>	Show versions for a specific service.
--status <region_name>	Show versions for a specific status. [valid values are SUPPORTED, CURRENT, DEPRECATED, EXPERIMENTAL]

Table 85.2. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Value	Summary
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 85.3. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 85.4. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 85.5. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 86. VOLUME

This chapter describes the commands under the **volume** command.

86.1. VOLUME BACKUP CREATE

Create new volume backup

Usage:

```
openstack volume backup create [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty] [--name <name>]
                               [--description <description>]
                               [--container <container>]
                               [--snapshot <snapshot>] [--force]
                               [--incremental]
                               <volume>
```

Table 86.1. Positional arguments

Value	Summary
<volume>	Volume to backup (name or id)

Table 86.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	Name of the backup
--description <description>	Description of the backup
--container <container>	Optional backup container name
--snapshot <snapshot>	Snapshot to backup (name or id)
--force	Allow to back up an in-use volume
--incremental	Perform an incremental backup

Table 86.3. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 86.4. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 86.5. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 86.6. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

86.2. VOLUME BACKUP DELETE

Delete volume backup(s)

Usage:

```
openstack volume backup delete [-h] [--force] <backup> [<backup> ...]
```

Table 86.7. Positional arguments

Value	Summary
<code><backup></code>	Backup(s) to delete (name or id)

Table 86.8. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--force	Allow delete in state other than error or available

86.3. VOLUME BACKUP LIST

List volume backups

Usage:

```
openstack volume backup list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN] [--long]
                             [--name <name>] [--status <status>]
                             [--volume <volume>]
                             [--marker <volume-backup>]
                             [--limit <num-backups>] [--all-projects]
```

Table 86.9. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output
--name <name>	Filters results by the backup name
--status <status>	Filters results by the backup status (<i>creating, available, deleting, error, restoring or error_restoring</i>)
--volume <volume>	Filters results by the volume which they backup (name or ID)
--marker <volume-backup>	The last backup of the previous page (name or id)
--limit <num-backups>	Maximum number of backups to display
--all-projects	Include all projects (admin only)

Table 86.10. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 86.11. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 86.12. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 86.13. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

86.4. VOLUME BACKUP RESTORE

Restore volume backup

Usage:

```
openstack volume backup restore [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
```

```

[--max-width <integer>] [--fit-width]
[--print-empty]
<backup> <volume>

```

Table 86.14. Positional arguments

Value	Summary
<backup>	Backup to restore (name or id)
<volume>	Volume to restore to (name or id)

Table 86.15. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 86.16. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 86.17. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 86.18. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 86.19. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

86.5. VOLUME BACKUP SET

Set volume backup properties

Usage:

```
openstack volume backup set [-h] [--name <name>]
                             [--description <description>]
                             [--state <state>]
                             <backup>
```

Table 86.20. Positional arguments

Value	Summary
<code><backup></code>	Backup to modify (name or id)

Table 86.21. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--name <name></code>	New backup name
<code>--description <description></code>	New backup description
<code>--state <state></code>	New backup state ("available" or "error") (admin only) (This option simply changes the state of the backup in the database with no regard to actual status, exercise caution when using)

86.6. VOLUME BACKUP SHOW

Display volume backup details

Usage:

```
openstack volume backup show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
```

```

[--max-width <integer>] [--fit-width]
[--print-empty]
<backup>

```

Table 86.22. Positional arguments

Value	Summary
<backup>	Backup to display (name or id)

Table 86.23. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 86.24. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 86.25. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 86.26. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 86.27. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

86.7. VOLUME CREATE

Create new volume

Usage:

```

openstack volume create [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--size <size>]
                        [--type <volume-type>]
                        [--image <image> | --snapshot <snapshot> | --source <volume>]
                        [--description <description>]
                        [--availability-zone <availability-zone>]
                        [--consistency-group consistency-group]
                        [--property <key=value>] [--hint <key=value>]
                        [--bootable | --non-bootable]
                        [--read-only | --read-write]
                        <name>

```

Table 86.28. Positional arguments

Value	Summary
<name>	Volume name

Table 86.29. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--size <size>	Volume size in gb (required unless --snapshot or --source is specified)
--type <volume-type>	Set the type of volume
--image <image>	Use <image> as source of volume (name or id)
--snapshot <snapshot>	Use <snapshot> as source of volume (name or id)

Value	Summary
<code>--source <volume></code>	Volume to clone (name or id)
<code>--description <description></code>	Volume description
<code>--availability-zone <availability-zone></code>	Create volume in <availability-zone>
<code>--consistency-group consistency-group></code>	Consistency group where the new volume belongs to
<code>--property <key=value></code>	Set a property to this volume (repeat option to set multiple properties)
<code>--hint <key=value></code>	Arbitrary scheduler hint key-value pairs to help boot an instance (repeat option to set multiple hints)
<code>--bootable</code>	Mark volume as bootable
<code>--non-bootable</code>	Mark volume as non-bootable (default)
<code>--read-only</code>	Set volume to read-only access mode
<code>--read-write</code>	Set volume to read-write access mode (default)

Table 86.30. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 86.31. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 86.32. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 86.33. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

86.8. VOLUME DELETE

Delete volume(s)

Usage:

```
openstack volume delete [-h] [--force | --purge]
                        <volume> [<volume> ...]
```

Table 86.34. Positional arguments

Value	Summary
<code><volume></code>	Volume(s) to delete (name or id)

Table 86.35. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--force</code>	Attempt forced removal of volume(s), regardless of state (defaults to False)
<code>--purge</code>	Remove any snapshots along with volume(s) (defaults to false)

86.9. VOLUME HOST SET

Set volume host properties

Usage:

```
openstack volume host set [-h] [--disable | --enable] <host-name>
```

Table 86.36. Positional arguments

Value	Summary
<host-name>	Name of volume host

Table 86.37. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--disable	Freeze and disable the specified volume host
--enable	Thaw and enable the specified volume host

86.10. VOLUME LIST

List volumes

Usage:

```
openstack volume list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>]
                    [--fit-width] [--print-empty]
                    [--sort-column SORT_COLUMN] [--project <project>]
                    [--project-domain <project-domain>]
                    [--user <user>] [--user-domain <user-domain>]
                    [--name <name>] [--status <status>]
                    [--all-projects] [--long] [--marker <volume>]
                    [--limit <num-volumes>]
```

Table 86.38. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--project <project>	Filter results by project (name or id) (admin only)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--user <user>	Filter results by user (name or id) (admin only)
--user-domain <user-domain>	Domain the user belongs to (name or id). this can be used in case collisions between user names exist.

Value	Summary
--name <name>	Filter results by volume name
--status <status>	Filter results by status
--all-projects	Include all projects (admin only)
--long	List additional fields in output
--marker <volume>	The last volume id of the previous page
--limit <num-volumes>	Maximum number of volumes to display

Table 86.39. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 86.40. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 86.41. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 86.42. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

86.11. VOLUME MIGRATE

Migrate volume to a new host

Usage:

```
openstack volume migrate [-h] --host <host> [--force-host-copy]
                        [--lock-volume]
                        <volume>
```

Table 86.43. Positional arguments

Value	Summary
<volume>	Volume to migrate (name or id)

Table 86.44. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--host <host>	Destination host (takes the form: host@backend-name#pool)
--force-host-copy	Enable generic host-based force-migration, which bypasses driver optimizations
--lock-volume	If specified, the volume state will be locked and will not allow a migration to be aborted (possibly by another operation)

86.12. VOLUME QOS ASSOCIATE

Associate a QoS specification to a volume type

Usage:

```
openstack volume qos associate [-h] <qos-spec> <volume-type>
```

Table 86.45. Positional arguments

Value	Summary
<qos-spec>	Qos specification to modify (name or id)
<volume-type>	Volume type to associate the qos (name or id)

Table 86.46. Command arguments

Value	Summary
-h, --help	Show this help message and exit

86.13. VOLUME QOS CREATE

Create new QoS specification

Usage:

```
openstack volume qos create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty] [--consumer <consumer>]
                             [--property <key=value>]
                             <name>
```

Table 86.47. Positional arguments

Value	Summary
<name>	New qos specification name

Table 86.48. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--consumer <consumer>	Consumer of the qos. valid consumers: back-end, both, front-end (defaults to <i>both</i>)
--property <key=value>	Set a qos specification property (repeat option to set multiple properties)

Table 86.49. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 86.50. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 86.51. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 86.52. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

86.14. VOLUME QOS DELETE

Delete QoS specification

Usage:

```
openstack volume qos delete [-h] [--force] <qos-spec> [<qos-spec> ...]
```

Table 86.53. Positional arguments

Value	Summary
<code><qos-spec></code>	Qos specification(s) to delete (name or id)

Table 86.54. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--force	Allow to delete in-use qos specification(s)

86.15. VOLUME QOS DISASSOCIATE

Disassociate a QoS specification from a volume type

Usage:

```
openstack volume qos disassociate [-h]
                                [--volume-type <volume-type> | --all]
                                <qos-spec>
```

Table 86.55. Positional arguments

Value	Summary
<qos-spec>	Qos specification to modify (name or id)

Table 86.56. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--volume-type <volume-type>	Volume type to disassociate the qos from (name or id)
--all	Disassociate the qos from every volume type

86.16. VOLUME QOS LIST

List QoS specifications

Usage:

```
openstack volume qos list [-h] [-f {csv,json,table,value,yaml}]
                          [-c COLUMN]
                          [--quote {all,minimal,none,nonnumeric}]
                          [--noindent] [--max-width <integer>]
                          [--fit-width] [--print-empty]
                          [--sort-column SORT_COLUMN]
```

Table 86.57. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 86.58. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 86.59. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 86.60. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 86.61. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

86.17. VOLUME QOS SET

Set QoS specification properties

Usage:

```
openstack volume qos set [-h] [--property <key=value>] <qos-spec>
```

Table 86.62. Positional arguments

Value	Summary
<qos-spec>	Qos specification to modify (name or id)

Table 86.63. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--property <key=value>	Property to add or modify for this qos specification (repeat option to set multiple properties)

86.18. VOLUME QOS SHOW

Display QoS specification details

Usage:

```
openstack volume qos show [-h] [-f {json,shell,table,value,yaml}]
    [-c COLUMN] [--noindent] [--prefix PREFIX]
    [--max-width <integer>] [--fit-width]
    [--print-empty]
    <qos-spec>
```

Table 86.64. Positional arguments

Value	Summary
<qos-spec>	Qos specification to display (name or id)

Table 86.65. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 86.66. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 86.67. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 86.68. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 86.69. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

86.19. VOLUME QOS UNSET

Unset QoS specification properties

Usage:

```
openstack volume qos unset [-h] [--property <key>] <qos-spec>
```

Table 86.70. Positional arguments

Value	Summary
<qos-spec>	Qos specification to modify (name or id)

Table 86.71. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--property <key>	Property to remove from the qos specification. (repeat option to unset multiple properties)

86.20. VOLUME SERVICE LIST

List service command

Usage:

```

openstack volume service list [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--noindent] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--sort-column SORT_COLUMN]
                               [--host <host>] [--service <service>]
                               [--long]

```

Table 86.72. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--host <host>	List services on specified host (name only)
--service <service>	List only specified service (name only)
--long	List additional fields in output

Table 86.73. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table

Value	Summary
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 86.74. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 86.75. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 86.76. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

86.21. VOLUME SERVICE SET

Set volume service properties

Usage:

```
openstack volume service set [-h] [--enable | --disable]
                             [--disable-reason <reason>]
                             <host> <service>
```

Table 86.77. Positional arguments

Value	Summary
<host>	Name of host
<service>	Name of service (binary name)

Table 86.78. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--enable	Enable volume service
--disable	Disable volume service
--disable-reason <reason>	Reason for disabling the service (should be used with --disable option)

86.22. VOLUME SET

Set volume properties

Usage:

```

openstack volume set [-h] [--name <name>] [--size <size>]
                    [--description <description>] [--no-property]
                    [--property <key=value>]
                    [--image-property <key=value>] [--state <state>]
                    [--attached | --detached] [--type <volume-type>]
                    [--retype-policy <retype-policy>]
                    [--bootable | --non-bootable]
                    [--read-only | --read-write]
                    <volume>

```

Table 86.79. Positional arguments

Value	Summary
<volume>	Volume to modify (name or id)

Table 86.80. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Value	Summary
--name <name>	New volume name
--size <size>	Extend volume size in gb
--description <description>	New volume description
--no-property	Remove all properties from <volume> (specify both --no-property and --property to remove the current properties before setting new properties.)
--property <key=value>	Set a property on this volume (repeat option to set multiple properties)
--image-property <key=value>	Set an image property on this volume (repeat option to set multiple image properties)
--state <state>	New volume state ("available", "error", "creating", "deleting", "in-use", "attaching", "detaching", "error_deleting" or "maintenance") (admin only) (This option simply changes the state of the volume in the database with no regard to actual status, exercise caution when using)
--attached	Set volume attachment status to "attached" (admin only) (This option simply changes the state of the volume in the database with no regard to actual status, exercise caution when using)
--detached	Set volume attachment status to "detached" (admin only) (This option simply changes the state of the volume in the database with no regard to actual status, exercise caution when using)
--type <volume-type>	New volume type (name or id)
--retype-policy <retype-policy>	Migration policy while re-typing volume ("never" or "on-demand", default is "never") (available only when --type option is specified)
--bootable	Mark volume as bootable
--non-bootable	Mark volume as non-bootable
--read-only	Set volume to read-only access mode
--read-write	Set volume to read-write access mode

86.23. VOLUME SHOW

Display volume details

Usage:

```
openstack volume show [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty]
                    <volume>
```

Table 86.81. Positional arguments

Value	Summary
<volume>	Volume to display (name or id)

Table 86.82. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 86.83. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 86.84. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 86.85. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 86.86. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

86.24. VOLUME SNAPSHOT CREATE

Create new volume snapshot

Usage:

```
openstack volume snapshot create [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty] [--volume <volume>]
                                [--description <description>]
                                [--force] [--property <key=value>]
                                [--remote-source <key=value>]
                                <snapshot-name>
```

Table 86.87. Positional arguments

Value	Summary
<code><snapshot-name></code>	Name of the new snapshot

Table 86.88. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--volume <volume></code>	Volume to snapshot (name or id) (default is <code><snapshot-name></code>)
<code>--description <description></code>	Description of the snapshot
<code>--force</code>	Create a snapshot attached to an instance. default is False

Value	Summary
<code>--property <key=value></code>	Set a property to this snapshot (repeat option to set multiple properties)
<code>--remote-source <key=value></code>	The attribute(s) of the existing remote volume snapshot (admin required) (repeat option to specify multiple attributes) e.g.: <code>--remote-source source-name=test_name --remote-source source-id=test_id</code>

Table 86.89. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 86.90. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 86.91. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 86.92. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

86.25. VOLUME SNAPSHOT DELETE

Delete volume snapshot(s)

Usage:

```
openstack volume snapshot delete [-h] [--force]
                                <snapshot> [<snapshot> ...]
```

Table 86.93. Positional arguments

Value	Summary
<snapshot>	Snapshot(s) to delete (name or id)

Table 86.94. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--force	Attempt forced removal of snapshot(s), regardless of state (defaults to False)

86.26. VOLUME SNAPSHOT LIST

List volume snapshots

Usage:

```
openstack volume snapshot list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--all-projects] [--project <project>]
                                [--project-domain <project-domain>]
                                [--long] [--marker <volume-snapshot>]
                                [--limit <num-snapshots>]
                                [--name <name>] [--status <status>]
                                [--volume <volume>]
```

Table 86.95. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Include all projects (admin only)

Value	Summary
--project <project>	Filter results by project (name or id) (admin only)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--long	List additional fields in output
--marker <volume-snapshot>	The last snapshot id of the previous page
--limit <num-snapshots>	Maximum number of snapshots to display
--name <name>	Filters results by a name.
--status <status>	Filters results by a status. (<i>available, error, creating, deleting or error-deleting</i>)
--volume <volume>	Filters results by a volume (name or id).

Table 86.96. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 86.97. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 86.98. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 86.99. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

86.27. VOLUME SNAPSHOT SET

Set volume snapshot properties

Usage:

```
openstack volume snapshot set [-h] [--name <name>]
                               [--description <description>]
                               [--no-property] [--property <key=value>]
                               [--state <state>]
                               <snapshot>
```

Table 86.100. Positional arguments

Value	Summary
<code><snapshot></code>	Snapshot to modify (name or id)

Table 86.101. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--name <name></code>	New snapshot name
<code>--description <description></code>	New snapshot description
<code>--no-property</code>	Remove all properties from <code><snapshot></code> (specify both <code>--no-property</code> and <code>--property</code> to remove the current properties before setting new properties.)
<code>--property <key=value></code>	Property to add/change for this snapshot (repeat option to set multiple properties)

Value	Summary
<code>--state <state></code>	New snapshot state. ("available", "error", "creating", "deleting", or "error_deleting") (admin only) (This option simply changes the state of the snapshot in the database with no regard to actual status, exercise caution when using)

86.28. VOLUME SNAPSHOT SHOW

Display volume snapshot details

Usage:

```
openstack volume snapshot show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty]
                               <snapshot>
```

Table 86.102. Positional arguments

Value	Summary
<code><snapshot></code>	Snapshot to display (name or id)

Table 86.103. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 86.104. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 86.105. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 86.106. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 86.107. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

86.29. VOLUME SNAPSHOT UNSET

Unset volume snapshot properties

Usage:

```
openstack volume snapshot unset [-h] [--property <key>] <snapshot>
```

Table 86.108. Positional arguments

Value	Summary
<snapshot>	Snapshot to modify (name or id)

Table 86.109. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--property <key>	Property to remove from snapshot (repeat option to remove multiple properties)

86.30. VOLUME TRANSFER REQUEST ACCEPT

Accept volume transfer request.

Usage:

```
openstack volume transfer request accept [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         --auth-key <key>
                                         <transfer-request-id>
```

Table 86.110. Positional arguments

Value	Summary
<transfer-request-id>	Volume transfer request to accept (id only)

Table 86.111. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--auth-key <key>	Volume transfer request authentication key

Table 86.112. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 86.113. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 86.114. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 86.115. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

86.31. VOLUME TRANSFER REQUEST CREATE

Create volume transfer request.

Usage:

```
openstack volume transfer request create [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         [--name <name>]
                                         <volume>
```

Table 86.116. Positional arguments

Value	Summary
<volume>	Volume to transfer (name or id)

Table 86.117. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name <name>	New transfer request name (default to none)

Table 86.118. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 86.119. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 86.120. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 86.121. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

86.32. VOLUME TRANSFER REQUEST DELETE

Delete volume transfer request(s).

Usage:

```
openstack volume transfer request delete [-h]
                                     <transfer-request>
                                     [<transfer-request> ...]
```

Table 86.122. Positional arguments

Value	Summary
<transfer-request>	Volume transfer request(s) to delete (name or id)

Table 86.123. Command arguments

Value	Summary
-h, --help	Show this help message and exit

86.33. VOLUME TRANSFER REQUEST LIST

Lists all volume transfer requests.

Usage:

```
openstack volume transfer request list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]
                                     [--all-projects]
```

Table 86.124. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Include all projects (admin only)

Table 86.125. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 86.126. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 86.127. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 86.128. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

86.34. VOLUME TRANSFER REQUEST SHOW

Show volume transfer request details.

Usage:

```
openstack volume transfer request show [-h]
                                         [-f {json,shell,table,value,yaml}]
                                         [-c COLUMN] [--noindent]
                                         [--prefix PREFIX]
                                         [--max-width <integer>]
                                         [--fit-width] [--print-empty]
                                         <transfer-request>
```

Table 86.129. Positional arguments

Value	Summary
<code><transfer-request></code>	Volume transfer request to display (name or id)

Table 86.130. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 86.131. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 86.132. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 86.133. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 86.134. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

86.35. VOLUME TYPE CREATE

Create new volume type

Usage:

```
openstack volume type create [-h] [-f {json,shell,table,value,yaml}]
```

```

[-c COLUMN] [--noindent] [--prefix PREFIX]
[--max-width <integer>] [--fit-width]
[--print-empty]
[--description <description>]
[--public | --private]
[--property <key=value>]
[--project <project>]
[--encryption-provider <provider>]
[--encryption-cipher <cipher>]
[--encryption-key-size <key-size>]
[--encryption-control-location <control-location>]
[--project-domain <project-domain>]
<name>

```

Table 86.135. Positional arguments

Value	Summary
<name>	Volume type name

Table 86.136. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--description <description>	Volume type description
--public	Volume type is accessible to the public
--private	Volume type is not accessible to the public
--property <key=value>	Set a property on this volume type (repeat option to set multiple properties)
--project <project>	Allow <project> to access private type (name or id) (Must be used with --private option)
--encryption-provider <provider>	Set the encryption provider format for this volume type (e.g "luks" or "plain") (admin only) (This option is required when setting encryption type of a volume. Consider using other encryption options such as: "--encryption-cipher", "--encryption-key-size" and "--encryption-control-location")
--encryption-cipher <cipher>	Set the encryption algorithm or mode for this volume type (e.g "aes-xts-plain64") (admin only)
--encryption-key-size <key-size>	Set the size of the encryption key of this volume type (e.g "128" or "256") (admin only)

Value	Summary
<code>--encryption-control-location <control-location></code>	Set the notional service where the encryption is performed ("front-end" or "back-end") (admin only) (The default value for this option is "front-end" when setting encryption type of a volume. Consider using other encryption options such as: "--encryption-cipher", "--encryption-key-size" and "--encryption-provider")
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.

Table 86.137. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 86.138. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 86.139. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 86.140. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

86.36. VOLUME TYPE DELETE

Delete volume type(s)

Usage:

```
openstack volume type delete [-h] <volume-type> [<volume-type> ...]
```

Table 86.141. Positional arguments

Value	Summary
<volume-type>	Volume type(s) to delete (name or id)

Table 86.142. Command arguments

Value	Summary
-h, --help	Show this help message and exit

86.37. VOLUME TYPE LIST

List volume types

Usage:

```
openstack volume type list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN] [--long]
                             [--default | --public | --private]
                             [--encryption-type]
```

Table 86.143. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--long	List additional fields in output
--default	List the default volume type
--public	List only public types
--private	List only private types (admin only)
--encryption-type	Display encryption information for each volume type (admin only)

Table 86.144. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 86.145. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 86.146. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 86.147. Table formatter options

Value	Summary
-------	---------

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

86.38. VOLUME TYPE SET

Set volume type properties

Usage:

```

openstack volume type set [-h] [--name <name>]
                        [--description <description>]
                        [--property <key=value>]
                        [--project <project>]
                        [--project-domain <project-domain>]
                        [--encryption-provider <provider>]
                        [--encryption-cipher <cipher>]
                        [--encryption-key-size <key-size>]
                        [--encryption-control-location <control-location>]
                        <volume-type>

```

Table 86.148. Positional arguments

Value	Summary
<code><volume-type></code>	Volume type to modify (name or id)

Table 86.149. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--name <name></code>	Set volume type name
<code>--description <description></code>	Set volume type description
<code>--property <key=value></code>	Set a property on this volume type (repeat option to set multiple properties)

Value	Summary
<code>--project <project></code>	Set volume type access to project (name or id) (admin only)
<code>--project-domain <project-domain></code>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
<code>--encryption-provider <provider></code>	Set the encryption provider format for this volume type (e.g "luks" or "plain") (admin only) (This option is required when setting encryption type of a volume for the first time. Consider using other encryption options such as: "--encryption-cipher", "--encryption-key-size" and "--encryption-control-location")
<code>--encryption-cipher <cipher></code>	Set the encryption algorithm or mode for this volume type (e.g "aes-xts-plain64") (admin only)
<code>--encryption-key-size <key-size></code>	Set the size of the encryption key of this volume type (e.g "128" or "256") (admin only)
<code>--encryption-control-location <control-location></code>	Set the notional service where the encryption is performed ("front-end" or "back-end") (admin only) (The default value for this option is "front-end" when setting encryption type of a volume for the first time. Consider using other encryption options such as: "--encryption-cipher", "--encryption-key-size" and "--encryption-provider")

86.39. VOLUME TYPE SHOW

Display volume type details

Usage:

```
openstack volume type show [-h] [-f {json,shell,table,value,yaml}]
                          [-c COLUMN] [--noindent] [--prefix PREFIX]
                          [--max-width <integer>] [--fit-width]
                          [--print-empty] [--encryption-type]
                          <volume-type>
```

Table 86.150. Positional arguments

Value	Summary
<code><volume-type></code>	Volume type to display (name or id)

Table 86.151. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--encryption-type	Display encryption information of this volume type (admin only)

Table 86.152. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 86.153. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 86.154. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 86.155. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

86.40. VOLUME TYPE UNSET

Unset volume type properties

Usage:

```
openstack volume type unset [-h] [--property <key>]
                             [--project <project>]
                             [--project-domain <project-domain>]
                             [--encryption-type]
                             <volume-type>
```

Table 86.156. Positional arguments

Value	Summary
<volume-type>	Volume type to modify (name or id)

Table 86.157. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--property <key>	Remove a property from this volume type (repeat option to remove multiple properties)
--project <project>	Removes volume type access to project (name or id) (admin only)
--project-domain <project-domain>	Domain the project belongs to (name or id). this can be used in case collisions between project names exist.
--encryption-type	Remove the encryption type for this volume type (admin only)

86.41. VOLUME UNSET

Unset volume properties

Usage:

```
openstack volume unset [-h] [--property <key>] [--image-property <key>]
                       <volume>
```

Table 86.158. Positional arguments

Value	Summary
<volume>	Volume to modify (name or id)

Table 86.159. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--property <key>	Remove a property from volume (repeat option to remove multiple properties)
--image-property <key>	Remove an image property from volume (repeat option to remove multiple image properties)

CHAPTER 87. WORKBOOK

This chapter describes the commands under the **workbook** command.

87.1. WORKBOOK CREATE

Create new workbook.

Usage:

```
openstack workbook create [-h] [-f {json,shell,table,value,yaml}]
                          [-c COLUMN] [--noindent] [--prefix PREFIX]
                          [--max-width <integer>] [--fit-width]
                          [--print-empty] [--public]
                          [--namespace [NAMESPACE]]
                          definition
```

Table 87.1. Positional arguments

Value	Summary
definition	Workbook definition file

Table 87.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--public	With this flag workbook will be marked as "public".
--namespace [NAMESPACE]	Namespace to create the workbook within.

Table 87.3. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 87.4. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 87.5. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 87.6. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

87.2. WORKBOOK DEFINITION SHOW

Show workbook definition.

Usage:

```
openstack workbook definition show [-h] name
```

Table 87.7. Positional arguments

Value	Summary
name	Workbook name

Table 87.8. Command arguments

Value	Summary
-h, --help	Show this help message and exit

87.3. WORKBOOK DELETE

Delete workbook.

Usage:

```
openstack workbook delete [-h] [--namespace [NAMESPACE]]
workbook [workbook ...]
```

Table 87.9. Positional arguments

Value	Summary
workbook	Name of workbook(s).

Table 87.10. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--namespace [NAMESPACE]	Namespace to delete the workbook(s) from.

87.4. WORKBOOK LIST

List all workbooks.

Usage:

```

openstack workbook list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--marker [MARKER]]
                        [--limit [LIMIT]] [--sort_keys [SORT_KEYS]]
                        [--sort_dirs [SORT_DIRS]] [--filter FILTERS]

```

Table 87.11. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--marker [MARKER]	The last execution uuid of the previous page, displays list of executions after "marker".
--limit [LIMIT]	Maximum number of entries to return in a single result.
--sort_keys [SORT_KEYS]	Comma-separated list of sort keys to sort results by. Default: created_at. Example: mistral execution-list --sort_keys=id,description
--sort_dirs [SORT_DIRS]	Comma-separated list of sort directions. default: asc. Example: mistral execution-list --sort_keys=id,description --sort_dirs=asc,desc

Value	Summary
<code>--filter FILTERS</code>	Filters. can be repeated.

Table 87.12. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 87.13. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 87.14. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 87.15. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

87.5. WORKBOOK SHOW

Show specific workbook.

Usage:

```

openstack workbook show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--namespace [NAMESPACE]]
workbook

```

Table 87.16. Positional arguments

Value	Summary
workbook	Workbook name

Table 87.17. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--namespace [NAMESPACE]	Namespace to get the workbook from.

Table 87.18. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 87.19. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 87.20. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 87.21. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

87.6. WORKBOOK UPDATE

Update workbook.

Usage:

```
openstack workbook update [-h] [-f {json,shell,table,value,yaml}]
                          [-c COLUMN] [--noindent] [--prefix PREFIX]
                          [--max-width <integer>] [--fit-width]
                          [--print-empty] [--namespace [NAMESPACE]]
                          [--public]
                          definition
```

Table 87.22. Positional arguments

Value	Summary
definition	Workbook definition file

Table 87.23. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--namespace [NAMESPACE]</code>	Namespace to update the workbook in.
<code>--public</code>	With this flag workbook will be marked as "public".

Table 87.24. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table

Value	Summary
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 87.25. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 87.26. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 87.27. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

87.7. WORKBOOK VALIDATE

Validate workbook.

Usage:

```
openstack workbook validate [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             definition
```

Table 87.28. Positional arguments

Value	Summary
-------	---------

Value	Summary
definition	Workbook definition file

Table 87.29. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 87.30. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 87.31. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 87.32. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 87.33. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

CHAPTER 88. WORKFLOW

This chapter describes the commands under the **workflow** command.

88.1. WORKFLOW CREATE

Create new workflow.

Usage:

```
openstack workflow create [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN]
                        [--marker [MARKER]] [--limit [LIMIT]]
                        [--sort_keys [SORT_KEYS]]
                        [--sort_dirs [SORT_DIRS]] [--filter FILTERS]
                        [--namespace [NAMESPACE]] [--public]
                        definition
```

Table 88.1. Positional arguments

Value	Summary
definition	Workflow definition file.

Table 88.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--marker [MARKER]	The last execution uuid of the previous page, displays list of executions after "marker".
--limit [LIMIT]	Maximum number of entries to return in a single result.
--sort_keys [SORT_KEYS]	Comma-separated list of sort keys to sort results by. Default: created_at. Example: mistral execution-list --sort_keys=id,description
--sort_dirs [SORT_DIRS]	Comma-separated list of sort directions. default: asc. Example: mistral execution-list --sort_keys=id,description --sort_dirs=asc,desc
--filter FILTERS	Filters. can be repeated.

Value	Summary
<code>--namespace [NAMESPACE]</code>	Namespace to create the workflow within.
<code>--public</code>	With this flag workflow will be marked as "public".

Table 88.3. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 88.4. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 88.5. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 88.6. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

88.2. WORKFLOW DEFINITION SHOW

Show workflow definition.

Usage:

```
openstack workflow definition show [-h] [--namespace [NAMESPACE]]
                                identifier
```

Table 88.7. Positional arguments

Value	Summary
identifier	Workflow id or name.

Table 88.8. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--namespace [NAMESPACE]	Namespace to get the workflow from.

88.3. WORKFLOW DELETE

Delete workflow.

Usage:

```
openstack workflow delete [-h] [--namespace [NAMESPACE]]
                          workflow [workflow ...]
```

Table 88.9. Positional arguments

Value	Summary
workflow	Name or id of workflow(s).

Table 88.10. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--namespace [NAMESPACE]	Namespace to delete the workflow from.

88.4. WORKFLOW ENGINE SERVICE LIST

List all services.

Usage:

```

openstack workflow engine service list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]
                                     [--marker [MARKER]]
                                     [--limit [LIMIT]]
                                     [--sort_keys [SORT_KEYS]]
                                     [--sort_dirs [SORT_DIRS]]
                                     [--filter FILTERS]

```

Table 88.11. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--marker [MARKER]	The last execution uuid of the previous page, displays list of executions after "marker".
--limit [LIMIT]	Maximum number of entries to return in a single result.
--sort_keys [SORT_KEYS]	Comma-separated list of sort keys to sort results by. Default: created_at. Example: mistral execution-list --sort_keys=id,description
--sort_dirs [SORT_DIRS]	Comma-separated list of sort directions. default: asc. Example: mistral execution-list --sort_keys=id,description --sort_dirs=asc,desc
--filter FILTERS	Filters. can be repeated.

Table 88.12. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 88.13. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 88.14. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 88.15. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

88.5. WORKFLOW ENV CREATE

Create new environment.

Usage:

```
openstack workflow env create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent]
                             [--prefix PREFIX] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             file
```

Table 88.16. Positional arguments

Value	Summary
file	Environment configuration file in json or yaml

Table 88.17. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 88.18. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 88.19. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 88.20. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 88.21. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

88.6. WORKFLOW ENV DELETE

Delete environment.

Usage:

```
openstack workflow env delete [-h] environment [environment ...]
```

Table 88.22. Positional arguments

Value	Summary
environment	Name of environment(s).

Table 88.23. Command arguments

Value	Summary
-h, --help	Show this help message and exit

88.7. WORKFLOW ENV LIST

List all environments.

Usage:

```

openstack workflow env list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--marker [MARKER]] [--limit [LIMIT]]
                             [--sort_keys [SORT_KEYS]]
                             [--sort_dirs [SORT_DIRS]]
                             [--filter FILTERS]

```

Table 88.24. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--marker [MARKER]	The last execution uuid of the previous page, displays list of executions after "marker".
--limit [LIMIT]	Maximum number of entries to return in a single result.
--sort_keys [SORT_KEYS]	Comma-separated list of sort keys to sort results by. Default: created_at. Example: mistral execution-list --sort_keys=id,description
--sort_dirs [SORT_DIRS]	Comma-separated list of sort directions. default: asc. Example: mistral execution-list --sort_keys=id,description --sort_dirs=asc,desc

Value	Summary
<code>--filter FILTERS</code>	Filters. can be repeated.

Table 88.25. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 88.26. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 88.27. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 88.28. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

88.8. WORKFLOW ENV SHOW

Show specific environment.

Usage:

```
openstack workflow env show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty] [--export]
                             environment
```

Table 88.29. Positional arguments

Value	Summary
environment	Environment name

Table 88.30. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--export	Export the environment suitable for import

Table 88.31. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 88.32. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 88.33. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 88.34. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

88.9. WORKFLOW ENV UPDATE

Update environment.

Usage:

```

openstack workflow env update [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               file

```

Table 88.35. Positional arguments

Value	Summary
file	Environment configuration file in json or yaml

Table 88.36. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 88.37. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 88.38. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 88.39. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 88.40. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

88.10. WORKFLOW EXECUTION CREATE

Create new execution.

Usage:

```
openstack workflow execution create [-h]
                                  [-f {json,shell,table,value,yaml}]
                                  [-c COLUMN] [--noindent]
                                  [--prefix PREFIX]
                                  [--max-width <integer>]
                                  [--fit-width] [--print-empty]
                                  [--namespace [NAMESPACE]]
                                  [-d DESCRIPTION]
                                  [-s [SOURCE_EXECUTION_ID]]
                                  [workflow_identifier]
                                  [workflow_input] [params]
```

Table 88.41. Positional arguments

Value	Summary
workflow_identifier	Workflow id or name. workflow name will be deprecated since Mitaka.

Value	Summary
workflow_input	Workflow input
params	Workflow additional parameters

Table 88.42. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--namespace [NAMESPACE]	Workflow namespace.
-d DESCRIPTION, --description DESCRIPTION	Execution description
-s [SOURCE_EXECUTION_ID]	Workflow execution id which will allow operators to create a new workflow execution based on the previously successful executed workflow. Example: <code>mistral execution-create -s 123e4567-e89b-12d3-a456-426655440000</code>

Table 88.43. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 88.44. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 88.45. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 88.46. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

88.11. WORKFLOW EXECUTION DELETE

Delete execution.

Usage:

```
openstack workflow execution delete [-h] [--force]
                                execution [execution ...]
```

Table 88.47. Positional arguments

Value	Summary
execution	Id of execution identifier(s).

Table 88.48. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--force</code>	Force the deletion of an execution. might cause a cascade of errors if used for running executions.

88.12. WORKFLOW EXECUTION INPUT SHOW

Show execution input data.

Usage:

```
openstack workflow execution input show [-h] id
```

Table 88.49. Positional arguments

Value	Summary
id	Execution id

Table 88.50. Command arguments

Value	Summary
-h, --help	Show this help message and exit

88.13. WORKFLOW EXECUTION LIST

List all executions.

Usage:

```

openstack workflow execution list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--noindent] [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--sort-column SORT_COLUMN]
                                [--marker [MARKER]] [--limit [LIMIT]]
                                [--sort_keys [SORT_KEYS]]
                                [--sort_dirs [SORT_DIRS]]
                                [--filter FILTERS] [--oldest]
                                [--task [TASK]]

```

Table 88.51. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--marker [MARKER]	The last execution uuid of the previous page, displays list of executions after "marker".
--limit [LIMIT]	Maximum number of entries to return in a single result.
--sort_keys [SORT_KEYS]	Comma-separated list of sort keys to sort results by. Default: created_at. Example: mistral execution-list --sort_keys=id,description
--sort_dirs [SORT_DIRS]	Comma-separated list of sort directions. default: asc. Example: mistral execution-list --sort_keys=id,description --sort_dirs=asc,desc

Value	Summary
<code>--filter FILTERS</code>	Filters. can be repeated.
<code>--oldest</code>	Display the executions starting from the oldest entries instead of the newest
<code>--task [TASK]</code>	Parent task execution id associated with workflow execution list.

Table 88.52. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 88.53. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 88.54. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 88.55. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable

Value	Summary
--print-empty	Print empty table if there is no data to show.

88.14. WORKFLOW EXECUTION OUTPUT SHOW

Show execution output data.

Usage:

```
openstack workflow execution output show [-h] id
```

Table 88.56. Positional arguments

Value	Summary
id	Execution id

Table 88.57. Command arguments

Value	Summary
-h, --help	Show this help message and exit

88.15. WORKFLOW EXECUTION PUBLISHED SHOW

Show workflow global published variables.

Usage:

```
openstack workflow execution published show [-h] id
```

Table 88.58. Positional arguments

Value	Summary
id	Workflow id

Table 88.59. Command arguments

Value	Summary
-h, --help	Show this help message and exit

88.16. WORKFLOW EXECUTION REPORT SHOW

Print execution report.

Usage:

```
openstack workflow execution report show [-h] [--errors-only]
                                         [--no-errors-only]
                                         [--max-depth [MAX_DEPTH]]
                                         id
```

Table 88.60. Positional arguments

Value	Summary
id	Execution id

Table 88.61. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--errors-only	Only error paths will be included.
--no-errors-only	Not only error paths will be included.
--max-depth [MAX_DEPTH]	Maximum depth of the workflow execution tree. if 0, only the root workflow execution and its tasks will be included

88.17. WORKFLOW EXECUTION SHOW

Show specific execution.

Usage:

```
openstack workflow execution show [-h]
                                   [-f {json,shell,table,value,yaml}]
                                   [-c COLUMN] [--noindent]
                                   [--prefix PREFIX]
                                   [--max-width <integer>] [--fit-width]
                                   [--print-empty]
                                   execution
```

Table 88.62. Positional arguments

Value	Summary
execution	Execution identifier

Table 88.63. Command arguments

Value	Summary
-h, --help	Show this help message and exit

Table 88.64. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 88.65. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 88.66. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 88.67. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

88.18. WORKFLOW EXECUTION UPDATE

Update execution.

Usage:

```

openstack workflow execution update [-h]
                                   [-f {json,shell,table,value,yaml}]
                                   [-c COLUMN] [--noindent]
                                   [--prefix PREFIX]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   [-s {RUNNING,PAUSED,SUCCESS,ERROR,CANCELLED}]
                                   [-e ENV] [-d DESCRIPTION]
                                   id

```

Table 88.68. Positional arguments

Value	Summary
id	Execution identifier

Table 88.69. Command arguments

Value	Summary
-h, --help	Show this help message and exit
-s {RUNNING,PAUSED,SUCCESS,ERROR,CANCELLED} , --state {RUNNING,PAUSED,SUCCESS,ERROR,CANCELLED}	Execution state
-e ENV, --env ENV	Environment variables
-d DESCRIPTION, --description DESCRIPTION	Execution description

Table 88.70. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 88.71. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 88.72. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 88.73. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

88.19. WORKFLOW LIST

List all workflows.

Usage:

```

openstack workflow list [-h] [-f {csv,json,table,value,yaml}]
                        [-c COLUMN]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--noindent] [--max-width <integer>]
                        [--fit-width] [--print-empty]
                        [--sort-column SORT_COLUMN] [--marker [MARKER]]
                        [--limit [LIMIT]] [--sort_keys [SORT_KEYS]]
                        [--sort_dirs [SORT_DIRS]] [--filter FILTERS]

```

Table 88.74. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--marker [MARKER]</code>	The last execution uuid of the previous page, displays list of executions after "marker".
<code>--limit [LIMIT]</code>	Maximum number of entries to return in a single result.
<code>--sort_keys [SORT_KEYS]</code>	Comma-separated list of sort keys to sort results by. Default: <code>created_at</code> . Example: <code>mistral execution-list --sort_keys=id,description</code>

Value	Summary
<code>--sort_dirs [SORT_DIRS]</code>	Comma-separated list of sort directions. default: asc. Example: <code>mistral execution-list --sort_keys=id,description --sort_dirs=asc,desc</code>
<code>--filter FILTERS</code>	Filters. can be repeated.

Table 88.75. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 88.76. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 88.77. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 88.78. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

88.20. WORKFLOW SHOW

Show specific workflow.

Usage:

```
openstack workflow show [-h] [-f {json,shell,table,value,yaml}]
                        [-c COLUMN] [--noindent] [--prefix PREFIX]
                        [--max-width <integer>] [--fit-width]
                        [--print-empty] [--namespace [NAMESPACE]]
                        workflow
```

Table 88.79. Positional arguments

Value	Summary
workflow	Workflow id or name.

Table 88.80. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--namespace [NAMESPACE]	Namespace to get the workflow from.

Table 88.81. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 88.82. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 88.83. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 88.84. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

88.21. WORKFLOW UPDATE

Update workflow.

Usage:

```
openstack workflow update [-h] [-f {csv,json,table,value,yaml}]
                          [-c COLUMN]
                          [--quote {all,minimal,none,nonnumeric}]
                          [--noindent] [--max-width <integer>]
                          [--fit-width] [--print-empty]
                          [--sort-column SORT_COLUMN]
                          [--marker [MARKER]] [--limit [LIMIT]]
                          [--sort_keys [SORT_KEYS]]
                          [--sort_dirs [SORT_DIRS]] [--filter FILTERS]
                          [--id ID] [--namespace [NAMESPACE]]
                          [--public]
                          definition
```

Table 88.85. Positional arguments

Value	Summary
definition	Workflow definition

Table 88.86. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--marker [MARKER]</code>	The last execution uuid of the previous page, displays list of executions after "marker".
<code>--limit [LIMIT]</code>	Maximum number of entries to return in a single result.

Value	Summary
<code>--sort_keys [SORT_KEYS]</code>	Comma-separated list of sort keys to sort results by. Default: <code>created_at</code> . Example: <code>mistral execution-list --sort_keys=id,description</code>
<code>--sort_dirs [SORT_DIRS]</code>	Comma-separated list of sort directions. default: <code>asc</code> . Example: <code>mistral execution-list --sort_keys=id,description --sort_dirs=asc,desc</code>
<code>--filter FILTERS</code>	Filters. can be repeated.
<code>--id ID</code>	Workflow id.
<code>--namespace [NAMESPACE]</code>	Namespace of the workflow.
<code>--public</code>	With this flag workflow will be marked as "public".

Table 88.87. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to <code>table</code>
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 88.88. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to <code>nonnumeric</code>

Table 88.89. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 88.90. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

88.22. WORKFLOW VALIDATE

Validate workflow.

Usage:

```
openstack workflow validate [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty]
                             definition
```

Table 88.91. Positional arguments

Value	Summary
definition	Workflow definition file

Table 88.92. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit

Table 88.93. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 88.94. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 88.95. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 88.96. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

CHAPTER 89. ZONE

This chapter describes the commands under the **zone** command.

89.1. ZONE ABANDON

Abandon a zone

Usage:

```
openstack zone abandon [-h] [--all-projects] [--edit-managed]
                        [--sudo-project-id SUDO_PROJECT_ID]
                        id
```

Table 89.1. Positional arguments

Value	Summary
id	Zone id

Table 89.2. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

89.2. ZONE AXFR

AXFR a zone

Usage:

```
openstack zone axfr [-h] [--all-projects] [--edit-managed]
                    [--sudo-project-id SUDO_PROJECT_ID]
                    id
```

Table 89.3. Positional arguments

Value	Summary
id	Zone id

Table 89.4. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

89.3. ZONE BLACKLIST CREATE

Create new blacklist

Usage:

```

openstack zone blacklist create [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>] [--fit-width]
                                [--print-empty] --pattern PATTERN
                                [--description DESCRIPTION]
                                [--all-projects] [--edit-managed]
                                [--sudo-project-id SUDO_PROJECT_ID]

```

Table 89.5. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--pattern PATTERN	Blacklist pattern
--description DESCRIPTION	Description
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 89.6. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 89.7. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 89.8. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 89.9. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

89.4. ZONE BLACKLIST DELETE

Delete blacklist

Usage:

```
openstack zone blacklist delete [-h] [--all-projects] [--edit-managed]
                                [--sudo-project-id SUDO_PROJECT_ID]
                                id
```

Table 89.10. Positional arguments

Value	Summary
id	Blacklist id

Table 89.11. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

89.5. ZONE BLACKLIST LIST

List blacklists

Usage:

```

openstack zone blacklist list [-h] [-f {csv,json,table,value,yaml}]
                             [-c COLUMN]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--noindent] [--max-width <integer>]
                             [--fit-width] [--print-empty]
                             [--sort-column SORT_COLUMN]
                             [--all-projects] [--edit-managed]
                             [--sudo-project-id SUDO_PROJECT_ID]

```

Table 89.12. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 89.13. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 89.14. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 89.15. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 89.16. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

89.6. ZONE BLACKLIST SET

Set blacklist properties

Usage:

```
openstack zone blacklist set [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty] [--pattern PATTERN]
                             [--description DESCRIPTION | --no-description]
```

```

[--all-projects] [--edit-managed]
[--sudo-project-id SUDO_PROJECT_ID]
id

```

Table 89.17. Positional arguments

Value	Summary
id	Blacklist id

Table 89.18. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--pattern PATTERN	Blacklist pattern
--description DESCRIPTION	Description
--no-description--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 89.19. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 89.20. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 89.21. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 89.22. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

89.7. ZONE BLACKLIST SHOW

Show blacklist details

Usage:

```
openstack zone blacklist show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX] [--max-width <integer>]
                               [--fit-width] [--print-empty]
                               [--all-projects] [--edit-managed]
                               [--sudo-project-id SUDO_PROJECT_ID]
                               id
```

Table 89.23. Positional arguments

Value	Summary
<code>id</code>	Blacklist id

Table 89.24. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--all-projects</code>	Show results from all projects. default: false
<code>--edit-managed</code>	Edit resources marked as managed. default: false
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None

Table 89.25. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 89.26. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 89.27. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 89.28. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

89.8. ZONE CREATE

Create new zone

Usage:

```
openstack zone create [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--email EMAIL] [--type TYPE]
                    [--ttl TTL] [--description DESCRIPTION]
                    [--masters MASTERS [MASTERS ...]]
                    [--attributes ATTRIBUTES [ATTRIBUTES ...]]
```

```

[--all-projects] [--edit-managed]
[--sudo-project-id SUDO_PROJECT_ID]
name

```

Table 89.29. Positional arguments

Value	Summary
name	Zone name

Table 89.30. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--email EMAIL	Zone email
--type TYPE	Zone type
--ttl TTL	Time to live (seconds)
--description DESCRIPTION	Description
--masters MASTERS [MASTERS ...]	Zone masters
--attributes ATTRIBUTES [ATTRIBUTES ...]	Zone attributes
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 89.31. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 89.32. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 89.33. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 89.34. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

89.9. ZONE DELETE

Delete zone

Usage:

```
openstack zone delete [-h] [-f {json,shell,table,value,yaml}]
                    [-c COLUMN] [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--all-projects] [--edit-managed]
                    [--sudo-project-id SUDO_PROJECT_ID]
                    id
```

Table 89.35. Positional arguments

Value	Summary
id	Zone id

Table 89.36. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 89.37. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 89.38. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 89.39. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 89.40. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

89.10. ZONE EXPORT CREATE

Export a Zone

Usage:

```
openstack zone export create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty] [--all-projects]
                             [--edit-managed]
                             [--sudo-project-id SUDO_PROJECT_ID]
                             zone_id
```

Table 89.41. Positional arguments

Value	Summary
zone_id	Zone id

Table 89.42. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 89.43. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 89.44. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 89.45. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 89.46. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

89.11. ZONE EXPORT DELETE

Delete a Zone Export

Usage:

```
openstack zone export delete [-h] [--all-projects] [--edit-managed]
                             [--sudo-project-id SUDO_PROJECT_ID]
                             zone_export_id
```

Table 89.47. Positional arguments

Value	Summary
zone_export_id	Zone export id

Table 89.48. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

89.12. ZONE EXPORT LIST

List Zone Exports

Usage:

```
openstack zone export list [-h] [-f {csv,json,table,value,yaml}]
                          [-c COLUMN]
                          [--quote {all,minimal,none,nonnumeric}]
                          [--noindent] [--max-width <integer>]
                          [--fit-width] [--print-empty]
                          [--sort-column SORT_COLUMN] [--all-projects]
                          [--edit-managed]
                          [--sudo-project-id SUDO_PROJECT_ID]
```

Table 89.49. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 89.50. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 89.51. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 89.52. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 89.53. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

89.13. ZONE EXPORT SHOW

Show a Zone Export

Usage:

```
openstack zone export show [-h] [-f {json,shell,table,value,yaml}]
                          [-c COLUMN] [--noindent] [--prefix PREFIX]
                          [--max-width <integer>] [--fit-width]
                          [--print-empty] [--all-projects]
                          [--edit-managed]
                          [--sudo-project-id SUDO_PROJECT_ID]
                          zone_export_id
```

Table 89.54. Positional arguments

Value	Summary
zone_export_id	Zone export id

Table 89.55. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false

Value	Summary
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None

Table 89.56. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 89.57. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 89.58. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 89.59. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

89.14. ZONE EXPORT SHOWFILE

Show the zone file for the Zone Export

Usage:

```

openstack zone export showfile [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--noindent]
                               [--prefix PREFIX]
                               [--max-width <integer>] [--fit-width]
                               [--print-empty] [--all-projects]
                               [--edit-managed]
                               [--sudo-project-id SUDO_PROJECT_ID]
                               zone_export_id

```

Table 89.60. Positional arguments

Value	Summary
zone_export_id	Zone export id

Table 89.61. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 89.62. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 89.63. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 89.64. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 89.65. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

89.15. ZONE IMPORT CREATE

Import a Zone from a file on the filesystem

Usage:

```
openstack zone import create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--noindent] [--prefix PREFIX]
                             [--max-width <integer>] [--fit-width]
                             [--print-empty] [--all-projects]
                             [--edit-managed]
                             [--sudo-project-id SUDO_PROJECT_ID]
                             zone_file_path
```

Table 89.66. Positional arguments

Value	Summary
zone_file_path	Path to a zone file

Table 89.67. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false

Value	Summary
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None

Table 89.68. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 89.69. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 89.70. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 89.71. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

89.16. ZONE IMPORT DELETE

Delete a Zone Import

Usage:

```

openstack zone import delete [-h] [--all-projects] [--edit-managed]
                             [--sudo-project-id SUDO_PROJECT_ID]
                             zone_import_id

```

Table 89.72. Positional arguments

Value	Summary
zone_import_id	Zone import id

Table 89.73. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

89.17. ZONE IMPORT LIST

List Zone Imports

Usage:

```

openstack zone import list [-h] [-f {csv,json,table,value,yaml}]
                           [-c COLUMN]
                           [--quote {all,minimal,none,nonnumeric}]
                           [--noindent] [--max-width <integer>]
                           [--fit-width] [--print-empty]
                           [--sort-column SORT_COLUMN] [--all-projects]
                           [--edit-managed]
                           [--sudo-project-id SUDO_PROJECT_ID]

```

Table 89.74. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false

Value	Summary
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None

Table 89.75. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 89.76. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 89.77. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 89.78. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

89.18. ZONE IMPORT SHOW

Show a Zone Import

Usage:

```
openstack zone import show [-h] [-f {json,shell,table,value,yaml}]
                          [-c COLUMN] [--noindent] [--prefix PREFIX]
                          [--max-width <integer>] [--fit-width]
                          [--print-empty] [--all-projects]
                          [--edit-managed]
                          [--sudo-project-id SUDO_PROJECT_ID]
                          zone_import_id
```

Table 89.79. Positional arguments

Value	Summary
zone_import_id	Zone import id

Table 89.80. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 89.81. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 89.82. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 89.83. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 89.84. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

89.19. ZONE LIST

List zones

Usage:

```
openstack zone list [-h] [-f {csv,json,table,value,yaml}] [-c COLUMN]
                    [--quote {all,minimal,none,nonnumeric}]
                    [--noindent] [--max-width <integer>] [--fit-width]
                    [--print-empty] [--sort-column SORT_COLUMN]
                    [--name NAME] [--email EMAIL] [--type TYPE]
                    [--ttl TTL] [--description DESCRIPTION]
                    [--status STATUS] [--all-projects] [--edit-managed]
                    [--sudo-project-id SUDO_PROJECT_ID]
```

Table 89.85. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--name NAME	Zone name
--email EMAIL	Zone email
--type TYPE	Zone type
--ttl TTL	Time to live (seconds)
--description DESCRIPTION	Description

Value	Summary
<code>--status STATUS</code>	Zone status
<code>--all-projects</code>	Show results from all projects. default: false
<code>--edit-managed</code>	Edit resources marked as managed. default: false
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None

Table 89.86. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 89.87. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 89.88. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 89.89. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.

Value	Summary
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.

89.20. ZONE SET

Set zone properties

Usage:

```
openstack zone set [-h] [-f {json,shell,table,value,yaml}] [-c COLUMN]
                  [--noindent] [--prefix PREFIX]
                  [--max-width <integer>] [--fit-width]
                  [--print-empty] [--email EMAIL] [--ttl TTL]
                  [--description DESCRIPTION | --no-description]
                  [--masters MASTERS [MASTERS ...]] [--all-projects]
                  [--edit-managed] [--sudo-project-id SUDO_PROJECT_ID]
                  id
```

Table 89.90. Positional arguments

Value	Summary
id	Zone id

Table 89.91. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--email EMAIL	Zone email
--ttl TTL	Time to live (seconds)
--description DESCRIPTION	Description
--no-description--masters MASTERS [MASTERS ...]	Zone masters
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false

Value	Summary
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None

Table 89.92. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 89.93. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 89.94. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 89.95. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

89.21. ZONE SHOW

Show zone details

Usage:


```

openstack zone show [-h] [-f {json,shell,table,value,yaml}] [-c COLUMN]
                    [--noindent] [--prefix PREFIX]
                    [--max-width <integer>] [--fit-width]
                    [--print-empty] [--all-projects] [--edit-managed]
                    [--sudo-project-id SUDO_PROJECT_ID]
                    id

```

Table 89.96. Positional arguments

Value	Summary
id	Zone id

Table 89.97. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 89.98. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 89.99. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 89.100. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 89.101. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

89.22. ZONE TRANSFER ACCEPT LIST

List Zone Transfer Accepts

Usage:

```

openstack zone transfer accept list [-h]
                                   [-f {csv,json,table,value,yaml}]
                                   [-c COLUMN]
                                   [--quote {all,minimal,none,nonnumeric}]
                                   [--noindent]
                                   [--max-width <integer>]
                                   [--fit-width] [--print-empty]
                                   [--sort-column SORT_COLUMN]
                                   [--all-projects] [--edit-managed]
                                   [--sudo-project-id SUDO_PROJECT_ID]

```

Table 89.102. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--all-projects</code>	Show results from all projects. default: false
<code>--edit-managed</code>	Edit resources marked as managed. default: false
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None

Table 89.103. Output formatter options

Value	Summary
<code>-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated
<code>--sort-column SORT_COLUMN</code>	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 89.104. CSV formatter options

Value	Summary
<code>--quote {all,minimal,none,nonnumeric}</code>	When to include quotes, defaults to nonnumeric

Table 89.105. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 89.106. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

89.23. ZONE TRANSFER ACCEPT REQUEST

Accept a Zone Transfer Request

Usage:

```
openstack zone transfer accept request [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
```

```

[--fit-width] [--print-empty]
--transfer-id TRANSFER_ID --key
KEY [--all-projects]
[--edit-managed]
[--sudo-project-id SUDO_PROJECT_ID]

```

Table 89.107. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--transfer-id</code> TRANSFER_ID	Transfer id
<code>--key</code> KEY	Transfer key
<code>--all-projects</code>	Show results from all projects. default: false
<code>--edit-managed</code>	Edit resources marked as managed. default: false
<code>--sudo-project-id</code> SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 89.108. Output formatter options

Value	Summary
<code>-f</code> { <code>json,shell,table,value,yaml</code> }, <code>--format</code> { <code>json,shell,table,value,yaml</code> }	The output format, defaults to table
<code>-c</code> COLUMN, <code>--column</code> COLUMN	Specify the column(s) to include, can be repeated

Table 89.109. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 89.110. Shell formatter options

Value	Summary
<code>--prefix</code> PREFIX	Add a prefix to all variable names

Table 89.111. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

89.24. ZONE TRANSFER ACCEPT SHOW

Show Zone Transfer Accept

Usage:

```

openstack zone transfer accept show [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--all-projects] [--edit-managed]
                                     [--sudo-project-id SUDO_PROJECT_ID]
                                     id

```

Table 89.112. Positional arguments

Value	Summary
<code>id</code>	Zone tranfer accept id

Table 89.113. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--all-projects</code>	Show results from all projects. default: false
<code>--edit-managed</code>	Edit resources marked as managed. default: false
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None

Table 89.114. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 89.115. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 89.116. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 89.117. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

89.25. ZONE TRANSFER REQUEST CREATE

Create new zone transfer request

Usage:

```
openstack zone transfer request create [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--target-project-id TARGET_PROJECT_ID]
                                     [--description DESCRIPTION]
                                     [--all-projects]
```

```

[--edit-managed]
[--sudo-project-id SUDO_PROJECT_ID]
zone_id

```

Table 89.118. Positional arguments

Value	Summary
zone_id	Zone id to transfer.

Table 89.119. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--target-project-id TARGET_PROJECT_ID	Target project id to transfer to.
--description DESCRIPTION	Description
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 89.120. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 89.121. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 89.122. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 89.123. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

89.26. ZONE TRANSFER REQUEST DELETE

Delete a Zone Transfer Request

Usage:

```
openstack zone transfer request delete [-h] [--all-projects]
                                     [--edit-managed]
                                     [--sudo-project-id SUDO_PROJECT_ID]
                                     id
```

Table 89.124. Positional arguments

Value	Summary
<code>id</code>	Zone transfer request id

Table 89.125. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--all-projects</code>	Show results from all projects. default: false
<code>--edit-managed</code>	Edit resources marked as managed. default: false
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None

89.27. ZONE TRANSFER REQUEST LIST

List Zone Transfer Requests

Usage:


```

openstack zone transfer request list [-h]
                                     [-f {csv,json,table,value,yaml}]
                                     [-c COLUMN]
                                     [--quote {all,minimal,none,nonnumeric}]
                                     [--noindent]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--sort-column SORT_COLUMN]
                                     [--all-projects] [--edit-managed]
                                     [--sudo-project-id SUDO_PROJECT_ID]

```

Table 89.126. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 89.127. Output formatter options

Value	Summary
-f {csv,json,table,value,yaml}, --format {csv,json,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated
--sort-column SORT_COLUMN	Specify the column(s) to sort the data (columns specified first have a priority, non-existing columns are ignored), can be repeated

Table 89.128. CSV formatter options

Value	Summary
--quote {all,minimal,none,nonnumeric}	When to include quotes, defaults to nonnumeric

Table 89.129. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 89.130. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the <code>CLIFF_MAX_TERM_WIDTH</code> environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if <code>--max-width</code> greater than 0. Set the environment variable <code>CLIFF_FIT_WIDTH=1</code> to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

89.28. ZONE TRANSFER REQUEST SET

Set a Zone Transfer Request

Usage:

```

openstack zone transfer request set [-h]
                                [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--noindent]
                                [--prefix PREFIX]
                                [--max-width <integer>]
                                [--fit-width] [--print-empty]
                                [--description DESCRIPTION | --no-description]
                                [--all-projects] [--edit-managed]
                                [--sudo-project-id SUDO_PROJECT_ID]
                                id

```

Table 89.131. Positional arguments

Value	Summary
<code>id</code>	Zone transfer request id

Table 89.132. Command arguments

Value	Summary
<code>-h, --help</code>	Show this help message and exit
<code>--description DESCRIPTION</code>	Description
<code>--no-description--all-projects</code>	Show results from all projects. default: false
<code>--edit-managed</code>	Edit resources marked as managed. default: false

Value	Summary
<code>--sudo-project-id SUDO_PROJECT_ID</code>	Project id to impersonate for this command. default: None

Table 89.133. Output formatter options

Value	Summary
<code>-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}</code>	The output format, defaults to table
<code>-c COLUMN, --column COLUMN</code>	Specify the column(s) to include, can be repeated

Table 89.134. JSON formatter options

Value	Summary
<code>--noindent</code>	Whether to disable indenting the json

Table 89.135. Shell formatter options

Value	Summary
<code>--prefix PREFIX</code>	Add a prefix to all variable names

Table 89.136. Table formatter options

Value	Summary
<code>--max-width <integer></code>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
<code>--fit-width</code>	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
<code>--print-empty</code>	Print empty table if there is no data to show.

89.29. ZONE TRANSFER REQUEST SHOW

Show Zone Transfer Request Details

Usage:

-

```

openstack zone transfer request show [-h]
                                     [-f {json,shell,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--prefix PREFIX]
                                     [--max-width <integer>]
                                     [--fit-width] [--print-empty]
                                     [--all-projects] [--edit-managed]
                                     [--sudo-project-id SUDO_PROJECT_ID]
                                     id

```

Table 89.137. Positional arguments

Value	Summary
id	Zone tranfer request id

Table 89.138. Command arguments

Value	Summary
-h, --help	Show this help message and exit
--all-projects	Show results from all projects. default: false
--edit-managed	Edit resources marked as managed. default: false
--sudo-project-id SUDO_PROJECT_ID	Project id to impersonate for this command. default: None

Table 89.139. Output formatter options

Value	Summary
-f {json,shell,table,value,yaml}, --format {json,shell,table,value,yaml}	The output format, defaults to table
-c COLUMN, --column COLUMN	Specify the column(s) to include, can be repeated

Table 89.140. JSON formatter options

Value	Summary
--noindent	Whether to disable indenting the json

Table 89.141. Shell formatter options

Value	Summary
--prefix PREFIX	Add a prefix to all variable names

Table 89.142. Table formatter options

Value	Summary
--max-width <integer>	Maximum display width, <1 to disable. you can also use the CLIFF_MAX_TERM_WIDTH environment variable, but the parameter takes precedence.
--fit-width	Fit the table to the display width. implied if --max-width greater than 0. Set the environment variable CLIFF_FIT_WIDTH=1 to always enable
--print-empty	Print empty table if there is no data to show.