



Red Hat OpenStack Platform

9

Command-Line Interface Reference

Command-line clients for Red Hat OpenStack Platform

OpenStack Documentation TeamRed Hat

Command-line clients for Red Hat OpenStack Platform

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Abstract

This guide collects the help content from the OpenStack command-line clients, for reference.

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CHAPTER 1. OPENSTACK COMMAND-LINE CLIENTS

1.1. OVERVIEW

You can use the OpenStack command-line clients to run simple commands that make API calls. You can run these commands from the command line or in scripts to automate tasks. If you provide OpenStack credentials, you can run these commands on any computer.

Internally, each client command runs cURL commands that embed API requests. The OpenStack APIs are RESTful APIs that use the HTTP protocol, including methods, URIs, media types, and response codes.

These open-source Python clients run on Linux or Mac OS X systems and are easy to learn and use. Each OpenStack service has its own command-line client. On some client commands, you can specify a **debug** parameter to show the underlying API request for the command. This is a good way to become familiar with the OpenStack API calls.

The following table lists the command-line client for each OpenStack service with its package name and description.

Table 1.1. OpenStack services and clients

Service	Client	Package	Description
Block Storage	cinder	python-cinderclient	Create and manage volumes.
Compute	nova	python-novaclient	Create and manage images, instances, and flavors.
Database Service	trove	python-troveclient	Create and manage databases.
Identity	keystone	python-keystoneclient	Create and manage users, tenants, roles, endpoints, and credentials.
Image Service	glance	python-glanceclient	Create and manage images.
Networking	neutron	python-neutronclient	Configure networks for guest servers. This client was previously called quantum .
Object Storage	swift	python-swiftclient	Gather statistics, list items, update metadata, and upload, download, and delete files stored by the Object Storage service. Gain access to an Object Storage installation for ad hoc processing.

Service	Client	Package	Description
Orchestration	heat	python-heatclient	Launch stacks from templates, view details of running stacks including events and resources, and update and delete stacks.
Telemetry	ceilometer	python-ceilometerclient	Create and collect measurements across OpenStack.

An OpenStack **common** client is in development.

For client installation instructions, see [Section 1.2, “Install the OpenStack command-line clients”](#). For information about the OpenStack RC file, see the *Red Hat OpenStack Platform End User Guide*.

1.2. INSTALL THE OPENSTACK COMMAND-LINE CLIENTS

Install the prerequisite software and the Python package for each OpenStack client.

1.2.1. Install the prerequisite software

The following table lists the software that you need to have to run the command-line clients, and provides installation instructions as needed.

Table 1.2. Prerequisite software

Prerequisite	Description
Python 2.6 or later	Currently, the clients do not support Python 3.
setuptools package	Many Linux distributions provide packages to make setuptools easy to install. Search your package manager for setuptools to find an installation package. If you cannot find one, download the setuptools package directly from http://pypi.python.org/pypi/setuptools .

1.2.2. Install the clients

When following the instructions in this section, replace *PROJECT* with the lowercase name of the client to install, such as **nova**. Repeat for each client. The following values are valid:

❏ **ceilometer** - Telemetry API

❏ **cinder** - Block Storage API and extensions

- ✳ **glance** - Image Service API
- ✳ **heat** - Orchestration API
- ✳ **keystone** - Identity service API and extensions
- ✳ **neutron** - Networking API
- ✳ **nova** - Compute API and extensions
- ✳ **swift** - Object Storage API
- ✳ **trove** - Database Service API

The following example shows the command for installing the nova client with *yum*.

```
# yum install python-novaclient
```

1.2.2.1. Installing from packages

On Red Hat Enterprise Linux, use **yum** to install the clients:

```
# yum install python-PROJECTclient
```

1.2.3. Upgrade or remove clients

To upgrade a client, add the **--upgrade** option to the **yum install** command:

```
# yum install --upgrade python-PROJECTclient
```

To remove the a client, run the **yum erase** command:

```
# yum erase python-PROJECTclient
```

1.2.4. What's next

Before you can run client commands, you must create and source the **PROJECT-openrc.sh** file to set environment variables. See [Section 1.4, “Set environment variables using the OpenStack RC file”](#).

1.3. DISCOVER THE VERSION NUMBER FOR A CLIENT

Run the following command to discover the version number for a client:

```
■
```

```
$ PROJECT --version
```

For example, to see the version number for the **nova** client, run the following command:

```
$ nova --version
```

The version number (3.3.0 in the example) is returned.

```
3.3.0
```

1.4. SET ENVIRONMENT VARIABLES USING THE OPENSTACK RC FILE

To set the required environment variables for the OpenStack command-line clients, you must create an environment file called an OpenStack rc file, or **openrc.sh** file. If your OpenStack installation provides it, you can download the file from the OpenStack dashboard as an administrative user or any other user. This project-specific environment file contains the credentials that all OpenStack services use.

When you source the file, environment variables are set for your current shell. The variables enable the OpenStack client commands to communicate with the OpenStack services that run in the cloud.



Note

Defining environment variables using an environment file is not a common practice on Microsoft Windows. Environment variables are usually defined in the **Advanced** tab of the System Properties dialog box.

1.4.1. Download and source the OpenStack RC file

1. Log in to the OpenStack dashboard, choose the project for which you want to download the OpenStack RC file, and click **Access & Security**.
2. On the API Access tab, click **Download OpenStack RC File** and save the file. The filename will be of the form **PROJECT-openrc.sh** where **PROJECT** is the name of the project for which you downloaded the file.
3. Copy the **PROJECT-openrc.sh** file to the computer from which you want to run OpenStack commands.

For example, copy the file to the computer from which you want to upload an image with a **glance** client command.

4. On any shell from which you want to run OpenStack commands, source the **PROJECT-openrc.sh** file for the respective project.

In the following example, the **demo-openrc.sh** file is sourced for the demo project:

```
$ source demo-openrc.sh
```

- When you are prompted for an OpenStack password, enter the password for the user who downloaded the **PROJECT-openrc.sh** file.

1.4.2. Create and source the OpenStack RC file

Alternatively, you can create the **PROJECT-openrc.sh** file from scratch, if for some reason you cannot download the file from the dashboard.

- In a text editor, create a file named **PROJECT-openrc.sh** file and add the following authentication information:

```
export OS_USERNAME=username
export OS_PASSWORD=password
export OS_TENANT_NAME=projectName
export OS_AUTH_URL=https://identityHost:portNumber/v2.0
# The following lines can be omitted
export OS_TENANT_ID=tenantIDString
export OS_REGION_NAME=regionName
```

The following example shows the information for a project called **admin**, where the OS username is also **admin**, and the identity host is located at **controller**.

```
export OS_USERNAME=admin
export OS_PASSWORD=ADMIN_PASS
export OS_TENANT_NAME=admin
export OS_AUTH_URL=http://controller:35357/v2.0
```

- On any shell from which you want to run OpenStack commands, source the **PROJECT-openrc.sh** file for the respective project. In this example, you source the **admin-openrc.sh** file for the *admin* project:

```
$ source admin-openrc.sh
```

Note

You are not prompted for the password with this method. The password lives in clear text format in the **PROJECT-openrc.sh** file. Restrict the permissions on this file to avoid security problems. You can also remove the **OS_PASSWORD** variable from the file, and use the **--password** parameter with OpenStack client commands instead.

1.4.3. Override environment variable values

When you run OpenStack client commands, you can override some environment variable settings by using the options that are listed at the end of the **help** output of the various client commands. For example, you can override the **OS_PASSWORD** setting in the **PROJECT-openrc.sh** file by specifying a password on a **keystone** command, as follows:

```
$ keystone --os-password PASSWORD service-list
```

Where *PASSWORD* is your password.

CHAPTER 2. PACKSTACK COMMAND-LINE CLIENT

The **packstack** client is the command-line interface (CLI) for installing single node, proof-of-concept deployments. This chapter documents **packstack** version **8.0.0**.

For help on a specific **packstack** command, enter:

```
$ packstack help COMMAND
```

2.1. PACKSTACK USAGE

```
Usage: packstack [options] [--help]
```

2.2. PACKSTACK OPTIONAL ARGUMENTS

--version

show program's version number and exit

-h, --help

show this help message and exit

--gen-answer-file=GEN_ANSWER_FILE

Generate a template of an answer file.

--answer-file=ANSWER_FILE

Runs the configuration in non-interactive mode, extracting all information from the configuration file. using this option excludes all other options

--install-hosts=INSTALL_HOSTS

Install on a set of hosts in a single step. The format should be a comma separated list of hosts, the first is setup as a controller, and the others are setup as compute nodes. if only a single host is supplied then it is setup as an all in one installation. An answerfile will also be generated and should be used if Packstack needs to be run a second time

--allinone

Shorthand for `--install-hosts=<local ipaddr> --novanetwork-pubif=<dev> --novacompute-privif=lo --novanetwork-privif=lo --os-swift-install=y --nagios-install=y`, this option can be used to install an all in one OpenStack on this host

-t TIMEOUT, --timeout=TIMEOUT

The timeout for puppet Exec calls

-o, --options

Print details on options available in answer file(rst format)

-d, --debug

Enable debug in logging

-y, --dry-run

Don't execute, just generate manifests

2.3. PACKSTACK GLOBAL OPTIONS

--ssh-public-key=SSH_PUBLIC_KEY

Path to a public key to install on servers. If a usable key has not been installed on the remote servers, the user is prompted for a password and this key is installed so the password will not be required again.

--default-password=DEFAULT_PASSWORD

Default password to be used everywhere (overridden by passwords set for individual services or users).

--service-workers=SERVICE_WORKERS

The amount of service workers/threads to use for each service. Useful to tweak when you have memory constraints. Defaults to the amount of cores on the system.

--mariadb-install=MARIADB_INSTALL

Specify 'y' to install MariaDB. ['y', 'n']

--os-glance-install=OS_GLANCE_INSTALL

Specify 'y' to install OpenStack Image Service (glance). ['y', 'n']

--os-cinder-install=OS_CINDER_INSTALL

Specify 'y' to install OpenStack Block Storage (cinder). ['y', 'n']

--os-manila-install=OS_MANILA_INSTALL

Specify 'y' to install OpenStack Shared File System (manila). ['y', 'n']

--os-nova-install=OS_NOVA_INSTALL

Specify 'y' to install OpenStack Compute (nova). ['y', 'n']

--os-neutron-install=OS_NEUTRON_INSTALL

Specify 'y' to install OpenStack Networking (neutron); otherwise, Compute Networking (nova) will be used. ['y', 'n']

--os-horizon-install=OS_HORIZON_INSTALL

Specify 'y' to install OpenStack Dashboard (horizon). ['y', 'n']

--os-swift-install=OS_SWIFT_INSTALL

Specify 'y' to install OpenStack Object Storage (swift). ['y', 'n']

--os-ceilometer-install=OS_CEILOMETER_INSTALL

Specify 'y' to install OpenStack Metering (ceilometer). ['y', 'n']

--os-aodh-install=OS_AODH_INSTALL

Specify 'y' to install OpenStack Telemetry Alarming (Aodh). Note Aodh requires Ceilometer to be installed as well. ['y', 'n']

--os-gnocchi-install=OS_GNOCCHI_INSTALL

Specify 'y' to install OpenStack Metering as a Service (gnocchi). ['y', 'n']

--os-heat-install=OS_HEAT_INSTALL

Specify 'y' to install OpenStack Orchestration (heat). ['y', 'n']

--os-sahara-install=OS_SAHARA_INSTALL

Specify 'y' to install OpenStack Data Processing (sahara). ['y', 'n']

--os-trove-install=OS_TROVE_INSTALL

Specify 'y' to install OpenStack Database (trove) ['y', 'n']

--os-ironic-install=OS_IRONIC_INSTALL

Specify 'y' to install OpenStack Bare Metal Provisioning (ironic). ['y', 'n']

--os-client-install=OS_CLIENT_INSTALL

Specify 'y' to install the OpenStack Client packages (command-line tools). An admin "rc" file will also be installed. ['y', 'n']

--ntp-servers=NTP_SERVERS

Comma-separated list of NTP servers. Leave plain if Packstack should not install ntpd on instances.

--nagios-install=NAGIOS_INSTALL

Specify 'y' to install Nagios to monitor OpenStack hosts. Nagios provides additional tools for monitoring the OpenStack environment. ['y', 'n']

--exclude-servers=EXCLUDE_SERVERS

Comma-separated list of servers to be excluded from the installation. This is helpful if you are running Packstack a second time with the same answer file and do not want Packstack to overwrite these server's configurations. Leave empty if you do not need to exclude any servers.

--os-debug-mode=OS_DEBUG_MODE

Specify 'y' if you want to run OpenStack services in debug mode; otherwise, specify 'n'. ['y', 'n']

--os-controller-host=OS_CONTROLLER_HOST

IP address of the server on which to install OpenStack services specific to the controller role (for example, API servers or dashboard).

--os-compute-hosts=OS_COMPUTE_HOSTS

List of IP addresses of the servers on which to install the Compute service.

--os-network-hosts=OS_NETWORK_HOSTS

List of IP addresses of the server on which to install the network service such as Compute networking (nova network) or OpenStack Networking (neutron).

--os-vmware=OS_VMWARE

Specify 'y' if you want to use VMware vCenter as hypervisor and storage; otherwise, specify 'n'. ['y', 'n']

--unsupported=UNSUPPORTED

Specify 'y' if you want to use unsupported parameters. This should be used only if you know what you are doing. Issues caused by using unsupported options will not be fixed before the next major release. ['y', 'n']

2.4. PACKSTACK VCENTER CONFIG PARAMETERS

--vcenter-host=VCENTER_HOST

IP address of the VMware vCenter server.

--vcenter-username=VCENTER_USERNAME

User name for VMware vCenter server authentication.

--vcenter-password=VCENTER_PASSWORD

Password for VMware vCenter server authentication.

--vcenter-cluster=VCENTER_CLUSTER

Name of the VMware vCenter cluster.

2.5. PACKSTACK SERVER PREPARE CONFIGS

--use-epel=USE_EPEL

Specify 'y' to enable the EPEL repository (Extra Packages for Enterprise Linux). ['y', 'n']

--additional-repo=ADDITIONAL_REPO

Comma-separated list of URLs for any additional yum repositories, to use for installation.

2.6. PACKSTACK RHEL CONFIG

--rh-username=RH_USERNAME

To subscribe each server with Red Hat Subscription Manager, include this with CONFIG_RH_PW.

--rhn-satellite-server=RHN_SATELLITE_SERVER

To subscribe each server to receive updates from a Satellite server, provide the URL of the Satellite server. You must also provide a user name (CONFIG_SATELLITE_USERNAME) and password (CONFIG_SATELLITE_PASSWORD) or an access key (CONFIG_SATELLITE_AKEY) for authentication.

--rh-sat6-server=RH_SAT6_SERVER

Specify a Satellite 6 Server to register to. If not specified, Packstack will register the system to the Red Hat server. When this option is specified, you also need to set the Satellite 6 organization (CONFIG_RH_SAT6_ORG) and an activation key (CONFIG_RH_SAT6_KEY).

2.7. PACKSTACK RHN SATELLITE CONFIG

--rhn-satellite-username=RHN_SATELLITE_USERNAME

User name to authenticate with the RHN Satellite server; if you intend to use an access key for Satellite authentication, leave this blank.

--rhn-satellite-password=RHN_SATELLITE_PASSWORD

Password to authenticate with the RHN Satellite server; if you intend to use an access key for Satellite authentication, leave this blank.

--rhn-satellite-activation-key=RHN_SATELLITE_ACTIVATION_KEY

Access key for the Satellite server; if you intend to use a user name and password for Satellite authentication, leave this blank.

--rhn-satellite-cacert=RHN_SATELLITE_CACERT

Certificate path or URL of the certificate authority to verify that the connection with the Satellite server is secure. If you are not using Satellite in your deployment, leave this blank.

--rhn-satellite-profile=RHN_SATELLITE_PROFILE

Profile name that should be used as an identifier for the system in RHN Satellite (if required).

--rhn-satellite-flags=RHN_SATELLITE_FLAGS

Comma-separated list of flags passed to the rhnreg_ks command. Valid flags are: novirtinfo, norhnsd, nopackages ['novirtinfo', 'norhnsd', 'nopackages']

--rhn-satellite-proxy-host=RHN_SATELLITE_PROXY_HOST

HTTP proxy to use when connecting to the RHN Satellite server (if required).

--rh-sat6-org=RH_SAT6_ORG

Specify a Satellite 6 Server organization to use when registering the system.

--rh-sat6-key=RH_SAT6_KEY

Specify a Satellite 6 Server activation key to use when registering the system.

2.8. PACKSTACK RHN SATELLITE PROXY CONFIG

--rhn-satellite-proxy-username=RHN_SATELLITE_PROXY_USERNAME

User name to authenticate with the Satellite-server HTTP proxy.

--rhn-satellite-proxy-password=RHN_SATELLITE_PROXY_PASSWORD

User password to authenticate with the Satellite- server HTTP proxy.

2.9. PACKSTACK AMQP CONFIG PARAMETERS

--amqp-backend=AMQP_BACKEND

Service to be used as the AMQP broker. Allowed values are: rabbitmq ['rabbitmq']

--amqp-host=AMQP_HOST

IP address of the server on which to install the AMQP service.

--amqp-enable-ssl=AMQP_ENABLE_SSL

Specify 'y' to enable SSL for the AMQP service. ['y', 'n']

--amqp-enable-auth=AMQP_ENABLE_AUTH

Specify 'y' to enable authentication for the AMQP service. ['y', 'n']

2.10. PACKSTACK AMQP CONFIG SSL PARAMETERS

--amqp-nss-certdb-pw=AMQP_NSS_CERTDB_PW

Password for the NSS certificate database of the AMQP service.

--amqp-ssl-port=AMQP_SSL_PORT

Port on which the AMQP service listens for SSL connections.

--amqp-ssl-cacert-file=AMQP_SSL_CACERT_FILE

File name of the CAcertificate that the AMQP service will use for verification.

--amqp-ssl-cert-file=AMQP_SSL_CERT_FILE

File name of the certificate that the AMQP service will use for verification.

--amqp-ssl-key-file=AMQP_SSL_KEY_FILE

File name of the private key that the AMQP service will use for verification.

--amqp-ssl-self-signed=AMQP_SSL_SELF_SIGNED

Specify 'y' to automatically generate a self-signed SSL certificate and key. ['y', 'n']

2.11. PACKSTACK AMQP CONFIG AUTHENTICATION PARAMETERS

--amqp-auth-user=AMQP_AUTH_USER

User for AMQP authentication.

--amqp-auth-password=AMQP_AUTH_PASSWORD

Password for AMQP authentication.

2.12. PACKSTACK KEYSTONE CONFIG PARAMETERS

--keystone-db-passwd=KEYSTONE_DB_PASSWD

Password to use for the Identity service (keystone) to access the database.

--keystone-region=KEYSTONE_REGION

Default region name to use when creating tenants in the Identity service.

--keystone-admin-email=KEYSTONE_ADMIN_EMAIL

Email address for the Identity service 'admin' user. Defaults to

--keystone-admin-username=KEYSTONE_ADMIN_USERNAME

User name for the Identity service 'admin' user. Defaults to 'admin'.

--keystone-admin-passwd=KEYSTONE_ADMIN_PASSWD

Password to use for the Identity service 'admin' user.

--keystone-demo-passwd=KEYSTONE_DEMO_PASSWD

Password to use for the Identity service 'demo' user.

--keystone-service-name=KEYSTONE_SERVICE_NAME

Name of service to use to run the Identity service (keystone or httpd). ['keystone', 'httpd']

--keystone-identity-backend=KEYSTONE_IDENTITY_BACKEND

Type of Identity service backend (sql or ldap). ['sql', 'ldap']

2.13. PACKSTACK GLANCE CONFIG PARAMETERS

--glance-db-passwd=GLANCE_DB_PASSWD

Password to use for the Image service (glance) to access the database.

--glance-ks-passwd=GLANCE_KS_PASSWD

Password to use for the Image service to authenticate with the Identity service.

--glance-backend=GLANCE_BACKEND

Storage backend for the Image service (controls how the Image service stores disk images). Valid options are: file or swift (Object Storage). The Object Storage service must be enabled to use it as a working backend; otherwise, Packstack falls back to 'file'. ['file', 'swift']

2.14. PACKSTACK CINDER CONFIG PARAMETERS

--cinder-db-passwd=CINDER_DB_PASSWD

Password to use for the Block Storage service (cinder) to access the database.

--cinder-ks-passwd=CINDER_KS_PASSWD

Password to use for the Block Storage service to authenticate with the Identity service.

--cinder-backend=CINDER_BACKEND

Storage backend to use for the Block Storage service; valid options are: lvm, gluster, nfs, vmdk, netapp. ['lvm', 'gluster', 'nfs', 'vmdk', 'netapp']

2.15. PACKSTACK CINDER VOLUME CREATE CONFIG PARAMETERS

--cinder-volumes-create=CINDER_VOLUMES_CREATE

Specify 'y' to create the Block Storage volumes group. That is, Packstack creates a raw disk image in /var/lib/cinder, and mounts it using a loopback device. This should only be used for testing on a proof-of-concept installation of the Block Storage service (a file-backed volume

group is not suitable for production usage). ['y', 'n']

2.16. PACKSTACK CINDER VOLUME SIZE CONFIG PARAMETERS

--cinder-volumes-size=CINDER_VOLUMES_SIZE

Size of Block Storage volumes group. Actual volume size will be extended with 3% more space for VG metadata. Remember that the size of the volume group will restrict the amount of disk space that you can expose to Compute instances, and that the specified amount must be available on the device used for /var/lib/cinder.

2.17. PACKSTACK CINDER GLUSTER CONFIG PARAMETERS

--cinder-gluster-mounts=CINDER_GLUSTER_MOUNTS

A single or comma-separated list of Red Hat Storage (gluster) volume shares to mount. Example: 'ip-address :/vol-name', 'domain:/vol-name'

2.18. PACKSTACK CINDER NFS CONFIG PARAMETERS

--cinder-nfs-mounts=CINDER_NFS_MOUNTS

A single or comma-separated list of NFS exports to mount. Example: 'ip-address:/export-name'

2.19. PACKSTACK NOVA OPTIONS

--nova-db-passwd=NOVA_DB_PASSWD

Password to use for the Compute service (nova) to access the database.

--nova-ks-passwd=NOVA_KS_PASSWD

Password to use for the Compute service to authenticate with the Identity service.

--novasched-cpu-allocation-ratio=NOVASCHED_CPU_ALLOCATION_RATIO

Overcommitment ratio for virtual to physical CPUs. Specify 1.0 to disable CPU overcommitment.

--novasched-ram-allocation-ratio=NOVASCHED_RAM_ALLOCATION_RATIO

Overcommitment ratio for virtual to physical RAM. Specify 1.0 to disable RAM overcommitment.

--novacompute-migrate-protocol=NOVACOMPUTE_MIGRATE_PROTOCOL

Protocol used for instance migration. Valid options are: tcp and ssh. Note that by default, the Compute user is created with the /sbin/nologin shell so that the SSH protocol will not work. To make the SSH protocol work, you must configure the Compute user on compute hosts manually. ['tcp', 'ssh']

--nova-compute-manager=NOVA_COMPUTE_MANAGER

Manager that runs the Compute service.

2.20. PACKSTACK NOVA NETWORK OPTIONS

--novacompute-privif=NOVACOMPUTE_PRIVIF

Private interface for flat DHCP on the Compute servers.

--novanetwork-manager=NOVANETWORK_MANAGER

Compute Network Manager. ['^nova\.network\.manager\.lw+Manager\$']

--novanetwork-pubif=NOVANETWORK_PUBIF

Public interface on the Compute network server.

--novanetwork-privif=NOVANETWORK_PRIVIF

Private interface for flat DHCP on the Compute network server.

--novanetwork-fixed-range=NOVANETWORK_FIXED_RANGE

IP Range for flat DHCP. ['^[[:\.:]\da-fA-f]+\(\Vd+\){0,1}\$']

--novanetwork-floating-range=NOVANETWORK_FLOATING_RANGE

IP Range for floating IP addresses. ['^[[:\.:]\da-fA-f]+\(\Vd+\){0,1}\$']

--novanetwork-auto-assign-floating-ip=NOVANETWORK_AUTO_ASSIGN_FLOATING_IP

Specify 'y' to automatically assign a floating IP to new instances. ['y', 'n']

2.21. PACKSTACK NOVA NETWORK VLAN OPTIONS

--novanetwork-vlan-start=NOVANETWORK_VLAN_START

First VLAN for private networks (Compute networking).

--novanetwork-num-networks=NOVANETWORK_NUM_NETWORKS

Number of networks to support (Compute networking).

--novanetwork-network-size=NOVANETWORK_NETWORK_SIZE

Number of addresses in each private subnet (Compute networking).

2.22. PACKSTACK NEUTRON CONFIG

--os-neutron-ks-password=OS_NEUTRON_KS_PASSWORD

Password to use for OpenStack Networking (neutron) to authenticate with the Identity service.

--os-neutron-db-password=OS_NEUTRON_DB_PASSWORD

The password to use for OpenStack Networking to access the database.

--os-neutron-l3-ext-bridge=OS_NEUTRON_L3_EXT_BRIDGE

The name of the Open vSwitch bridge (or empty for linuxbridge) for the OpenStack Networking L3 agent to use for external traffic. Specify 'provider' if you intend to use a provider network to handle external traffic.

--os-neutron-metadata-pw=OS_NEUTRON_METADATA_PW

Password for the OpenStack Networking metadata agent.

--os-neutron-lbaas-install=OS_NEUTRON_LBAAS_INSTALL

Specify 'y' to install OpenStack Networking's Load- Balancing-as-a-Service (LBaaS). ['y', 'n']

--os-neutron-metering-agent-install=OS_NEUTRON_METERING_AGENT_INSTALL

Specify 'y' to install OpenStack Networking's L3 Metering agent ['y', 'n']

--neutron-fwaas=NEUTRON_FWAAS

Specify 'y' to configure OpenStack Networking's Firewall-as-a-Service (FWaaS). ['y', 'n']

2.23. PACKSTACK NEUTRON LB AGENT CONFIG

--os-neutron-lb-interface-mappings=OS_NEUTRON_LB_INTERFACE_MAPPINGS

Comma-separated list of interface mappings for the OpenStack Networking linuxbridge plugin. Each tuple in the list must be in the format <physical_network>:<net_interface>. Example: physnet1:eth1,physnet2:eth2,physnet3:eth3.

2.24. PACKSTACK NEUTRON OVS AGENT CONFIG

--os-neutron-ovs-bridge-mappings=OS_NEUTRON_OVS_BRIDGE_MAPPINGS

Comma-separated list of bridge mappings for the OpenStack Networking Open vSwitch plugin. Each tuple in the list must be in the format <physical_network>:<ovs_bridge>. Example: physnet1:br-eth1,physnet2:br-eth2,physnet3:br-eth3

--os-neutron-ovs-bridge-interfaces=OS_NEUTRON_OVS_BRIDGE_INTERFACES

Comma-separated list of colon-separated Open vSwitch <bridge>:<interface> pairs. The interface will be added to the associated bridge.

--os-neutron-ovs-bridges-compute=OS_NEUTRON_OVS_BRIDGES_COMPUTE

Comma-separated list of Open vSwitch bridges that must be created and connected to interfaces in compute nodes when flat or vlan type drivers are enabled. These bridges must exist in CONFIG_NEUTRON_OVS_BRIDGE_MAPPINGS and CONFIG_NEUTRON_OVS_BRIDGE_IFACES. Example: --os-neutron-ovs-bridges-compute=br-vlan --os-neutron-ovs-bridge-mappings="extnet:br-ex,physnet1:br-vlan" --os-neutron-ovs-bridge-interfaces="br-ex:eth1,br-vlan:eth2"

2.25. PACKSTACK NEUTRON OVS AGENT CONFIG FOR TUNNELS

--os-neutron-ovs-tunnel-if=OS_NEUTRON_OVS_TUNNEL_IF

Interface for the Open vSwitch tunnel. Packstack overrides the IP address used for tunnels on this hypervisor to the IP found on the specified interface (for example, eth1).

--os-neutron-ovs-tunnel-subnets=OS_NEUTRON_OVS_TUNNEL_SUBNETS

Comma-separated list of subnets (for example, 192.168.10.0/24,192.168.11.0/24) used for sending tunneling packets. This is used to configure IP filtering to accept tunneling packets from these subnets instead of specific IP addresses of peer nodes. This is useful when you add existing nodes to EXCLUDE_SERVERS because, in this case, packstack cannot modify the IP filtering of the existing nodes.

2.26. PACKSTACK NEUTRON OVS AGENT CONFIG FOR VXLAN

--os-neutron-ovs-vxlan-udp-port=OS_NEUTRON_OVS_VXLAN_UDP_PORT

VXLAN UDP port.

2.27. PACKSTACK MANILA CONFIG PARAMETERS

--manila-db-passwd=MANILA_DB_PASSWD

Password to use for the OpenStack File Share service (manila) to access the database.

--manila-ks-passwd=MANILA_KS_PASSWD

Password to use for the OpenStack File Share service (manila) to authenticate with the Identity service.

--manila-backend=MANILA_BACKEND

Backend for the OpenStack File Share service (manila); valid options are: generic, netapp, glusternative, or glusternfs. ['generic', 'netapp', 'glusternative', 'glusternfs']

2.28. PACKSTACK MANILA NETAPP CONFIGURATION

--manila-netapp-driver-handles-share-servers=MANILA_NETAPP_DRIVER_HANDLES_SHARE_SERVERS

Denotes whether the driver should handle the responsibility of managing share servers. This must be set to false if the driver is to operate without managing share servers. Defaults to 'false' ['true', 'false']

--manila-netapp-transport-type=MANILA_NETAPP_TRANSPORT_TYPE

The transport protocol used when communicating with the storage system or proxy server. Valid values are 'http' and 'https'. Defaults to 'https'. ['https', 'http']

--manila-netapp-login=MANILA_NETAPP_LOGIN

Administrative user account name used to access the NetApp storage system. Defaults to "".

--manila-netapp-password=MANILA_NETAPP_PASSWORD

Password for the NetApp administrative user account specified in the CONFIG_MANILA_NETAPP_LOGIN parameter. Defaults to "".

--manila-netapp-server-hostname=MANILA_NETAPP_SERVER_HOSTNAME

Hostname (or IP address) for the NetApp storage system or proxy server. Defaults to "".

--manila-netapp-storage-family=MANILA_NETAPP_STORAGE_FAMILY

The storage family type used on the storage system; valid values are ontap_cluster for clustered Data ONTAP. Defaults to 'ontap_cluster'. ['ontap_cluster']

--manila-netapp-server-port=MANILA_NETAPP_SERVER_PORT

The TCP port to use for communication with the storage system or proxy server. If not specified, Data ONTAP drivers will use 80 for HTTP and 443 for HTTPS. Defaults to '443'.

--manila-netapp-aggregate-name-search-pattern=MANILA_NETAPP_AGGREGATE_NAME_SEARCH_PATTERN

Pattern for searching available aggregates for NetApp provisioning. Defaults to '(.*?)'.

2.29. PACKSTACK MANILA NETAPP MULTI-SVM CONFIGURATION

--manila-netapp-root-volume-aggregate=MANILA_NETAPP_ROOT_VOLUME_AGGREGATE

Name of aggregate on which to create the NetApp root volume. This option only applies when the option CONFIG_MANILA_NETAPP_DRV_HANDLES_SHARE_SERVERS is set to True.

--manila-netapp-root-volume-name=MANILA_NETAPP_ROOT_VOLUME_NAME

NetApp root volume name. Defaults to 'root'.

2.30. PACKSTACK MANILA NETAPP SINGLE-SVM CONFIGURATION

--manila-netapp-vserver=MANILA_NETAPP_VSERVER

This option specifies the storage virtual machine (previously called a Vserver) name on the storage cluster on which provisioning of shared file systems should occur. This option only applies when the option driver_handles_share_servers is set to False. Defaults to "".

2.31. PACKSTACK MANILA GENERIC DRIVER CONFIGURATION

--manila-generic-driver-handles-share-servers=MANILA_GENERIC_DRIVER_HANDLES_SHARE_SERVERS

Denotes whether the driver should handle the responsibility of managing share servers. This must be set to false if the driver is to operate without managing share servers. Defaults to 'true'. ['true', 'false']

--manila-generic-volume-name-template=MANILA_GENERIC_VOLUME_NAME_TEMPLATE

Volume name template for Manila service. Defaults to 'manila-share-%s'.

--manila-generic-share-mount-path=MANILA_GENERIC_SHARE_MOUNT_PATH

Share mount path for Manila service. Defaults to '/shares'.

--manila-service-image-location=MANILA_SERVICE_IMAGE_LOCATION

Location of disk image for Manila service instance. Defaults to "".

--manila-service-instance-user=MANILA_SERVICE_INSTANCE_USER

User in Manila service instance.

--manila-service-instance-password=MANILA_SERVICE_INSTANCE_PASSWORD

Password to service instance user.

2.32. PACKSTACK MANILA GENERAL NETWORK CONFIGURATION

--manila-network-type=MANILA_NETWORK_TYPE

Type of networking that the backend will use. A more detailed description of each option is available in the Manila docs. Defaults to 'neutron'. ['neutron', 'nova-network', 'standalone']

2.33. PACKSTACK MANILA STANDALONE NETWORK CONFIGURATION

--standalone_network_plugin_gateway=STANDALONE_NETWORK_PLUGIN_GATEWAY

Gateway IPv4 address that should be used. Required. Defaults to "".

--standalone_network_plugin_mask=STANDALONE_NETWORK_PLUGIN_MASK

Network mask that will be used. Can be either decimal like '24' or binary like '255.255.255.0'. Required. Defaults to "".

--

standalone_network_plugin_segmentation_id=STANDALONE_NETWORK_PLUGIN_SEGMENTATION_ID

Set it if network has segmentation (VLAN, VXLAN, etc). It will be assigned to share-network and share drivers will be able to use this for network interfaces within provisioned share servers. Optional. Example: 1001. Defaults to "".

--standalone_network_plugin_ip_range=STANDALONE_NETWORK_PLUGIN_IP_RANGE

Can be IP address, range of IP addresses or list of addresses or ranges. Contains addresses from IP network that are allowed to be used. If empty, then will be assumed that all host addresses from network can be used. Optional. Examples: 10.0.0.10 or 10.0.0.10-10.0.0.20 or 10.0.0.10-10.0.0.20,10.0.0.30-10.0.0.40,10.0.0.50. Defaults to "".

--

standalone_network_plugin_ip_version=STANDALONE_NETWORK_PLUGIN_IP_VERSION

IP version of network. Optional. Defaults to '4'. ['4', '6']

2.34. PACKSTACK MANILA GLUSTERFS NATIVE CONFIGURATION

--glusterfs-servers=GLUSTERFS_SERVERS

List of GlusterFS servers that can be used to create shares. Each GlusterFS server should be of the form [remoteuser@]<volserver>, and they are assumed to belong to distinct Gluster clusters.

--glusterfs-native-path-to-private_key=GLUSTERFS_NATIVE_PATH_TO_PRIVATE_KEY

Path of Manila host's private SSH key file.

--glusterfs-volume-pattern=GLUSTERFS_VOLUME_PATTERN

Regular expression template used to filter GlusterFS volumes for share creation. The regex template can optionally (ie. with support of the GlusterFS backend) contain the `{size}` parameter which matches an integer (sequence of digits) in which case the value shall be interpreted as size of the volume in GB. Examples: "manila-share-volume-d+\$", "manila-share-volume-#{size}G-d+\$"; with matching volume names, respectively: "manila-share-volume-12", "manila-share-volume-3G-13". In latter example, the number that matches "`{size}`", that is, 3, is an indication that the size of volume is 3G.

2.35. PACKSTACK MANILA GLUSTER NFS CONFIGURATION

--glusterfs-target=GLUSTERFS_TARGET

Specifies the GlusterFS volume to be mounted on the Manila host. For e.g: [remoteuser@]<volserver>:/<volid>

--glusterfs-mount-point-base=GLUSTERFS_MOUNT_POINT_BASE

Base directory containing mount points for Gluster volumes.

--glusterfs-nfs-server-type=GLUSTERFS_NFS_SERVER_TYPE

Type of NFS server that mediate access to the Gluster volumes (Gluster or Ganesha).

--glusterfs-path-to-private-key=GLUSTERFS_PATH_TO_PRIVATE_KEY

Path of Manila host's private SSH key file.

--glusterfs-ganesha-server-ip=GLUSTERFS_GANESHA_SERVER_IP

Remote Ganesha server node's IP address.

2.36. PACKSTACK NOVACLIENT CONFIG PARAMETERS

2.37. PACKSTACK OPENSTACK HORIZON CONFIG PARAMETERS

--os-horizon-ssl=OS_HORIZON_SSL

Specify 'y' to set up Horizon communication over https. ['y', 'n']

2.38. PACKSTACK SSL CONFIG PARAMETERS

--os-ssl-cert=OS_SSL_CERT

PEM-encoded certificate to be used for SSL connections on the https server (the certificate should not require a passphrase). To generate a certificate, leave blank.

--os-ssl-key=OS_SSL_KEY

SSL keyfile corresponding to the certificate if one was specified.

--os-ssl-cachain=OS_SSL_CACHAIN

PEM-encoded CA certificates from which the certificate chain of the server certificate can be assembled.

2.39. PACKSTACK OPENSTACK SWIFT CONFIG PARAMETERS

--os-swift-ks-passwd=OS_SWIFT_KS_PASSWD

Password to use for the Object Storage service to authenticate with the Identity service.

--os-swift-storages=OS_SWIFT_STORAGES

Comma-separated list of devices to use as storage device for Object Storage. Each entry must take the format /path/to/dev (for example, specifying /dev/vdb installs /dev/vdb as the Object Storage storage device; Packstack does not create the filesystem, you must do this first). If left empty, Packstack creates a loopback device for test setup.

--os-swift-storage-zones=OS_SWIFT_STORAGE_ZONES

Number of Object Storage storage zones; this number MUST be no larger than the number of configured storage devices.

--os-swift-storage-replicas=OS_SWIFT_STORAGE_REPLICAS

Number of Object Storage storage replicas; this number MUST be no larger than the number of configured storage zones.

--os-swift-storage-fstype=OS_SWIFT_STORAGE_FSTYPE

File system type for storage nodes. ['xfs', 'ext4']

--os-swift-storage-size=OS_SWIFT_STORAGE_SIZE

Size of the Object Storage loopback file storage device.

2.40. PACKSTACK HEAT CONFIG PARAMETERS

--os-heat-mysql-password=OS_HEAT_MYSQL_PASSWORD

Password used by Orchestration service user to authenticate against the database.

--os-heat-ks-passwd=OS_HEAT_KS_PASSWD

Password to use for the Orchestration service to authenticate with the Identity service.

--os-heat-cloudwatch-install=OS_HEAT_CLOUDWATCH_INSTALL

Specify 'y' to install the Orchestration CloudWatch API. ['y', 'n']

--os-heat-cfn-install=OS_HEAT_CFN_INSTALL

Specify 'y' to install the Orchestration CloudFormation API. ['y', 'n']

--os-heat-domain=OS_HEAT_DOMAIN

Name of the Identity domain for Orchestration.

--os-heat-domain-admin=OS_HEAT_DOMAIN_ADMIN

Name of the Identity domain administrative user for Orchestration.

--os-heat-domain-password=OS_HEAT_DOMAIN_PASSWORD

Password for the Identity domain administrative user for Orchestration.

v

2.41. PACKSTACK PROVISIONING DEMO CONFIG

--provision-demo=PROVISION_DEMO

Specify 'y' to provision for demo usage and testing. ['y', 'n']

--provision-tempest=PROVISION_TEMPEST

Specify 'y' to configure the OpenStack Integration Test Suite (tempest) for testing. The test suite requires OpenStack Networking to be installed. ['y', 'n']

2.42. PACKSTACK PROVISIONING DEMO CONFIG

--provision-demo-floatrange=PROVISION_DEMO_FLOATRANGE

CIDR network address for the floating IP subnet.

--provision-image-name=PROVISION_IMAGE_NAME

The name to be assigned to the demo image in Glance (default "cirros").

--provision-image-url=PROVISION_IMAGE_URL

A URL or local file location for an image to download and provision in Glance (defaults to a URL for a recent "cirros" image).

--provision-image-format=PROVISION_IMAGE_FORMAT

Format for the demo image (default "qcow2").

--provision-image-ssh-user=PROVISION_IMAGE_SSH_USER

User to use when connecting to instances booted from the demo image.

2.43. PACKSTACK PROVISIONING TEMPEST CONFIG

--tempest-host=TEMPEST_HOST

--provision-tempest-user=PROVISION_TEMPEST_USER

Name of the Integration Test Suite provisioning user. If you do not provide a user name, Tempest is configured in a standalone mode.

--provision-tempest-user-passwd=PROVISION_TEMPEST_USER_PASSWD

Password to use for the Integration Test Suite provisioning user.

--provision-tempest-floatrange=PROVISION_TEMPEST_FLOATRANGE

CIDR network address for the floating IP subnet.

--provision-tempest-repo-uri=PROVISION_TEMPEST_REPO_URI

URI of the Integration Test Suite git repository.

--provision-tempest-repo-revision=PROVISION_TEMPEST_REPO_REVISION

Revision (branch) of the Integration Test Suite git repository.

--run-tempest=RUN_TEMPEST

Specify 'y' to run Tempest smoke test as last step of installation.

--run-tempest-tests=RUN_TEMPEST_TESTS

Test suites to run, example: "smoke dashboard TelemetryAlarming". Optional, defaults to "smoke".

2.44. PACKSTACK PROVISIONING ALL-IN-ONE OVS BRIDGE CONFIG

--provision-ovs-bridge=PROVISION_OVS_BRIDGE

Specify 'y' to configure the Open vSwitch external bridge for an all-in-one deployment (the L3 external bridge acts as the gateway for virtual machines). ['y', 'n']

2.45. PACKSTACK GNOCCHI CONFIG PARAMETERS

--gnocchi-db-passwd=GNOCCHI_DB_PASSWD

Password to use for Gnocchi to access the database.

--gnocchi-ks-passwd=GNOCCHI_KS_PASSWD

Password to use for Gnocchi to authenticate with the Identity service.

2.46. PACKSTACK CEILOMETER CONFIG PARAMETERS

--ceilometer-ks-passwd=CEILOMETER_KS_PASSWD

Password to use for Telemetry to authenticate with the Identity service.

--ceilometer-service-name=CEILOMETER_SERVICE_NAME

Ceilometer service name. ['httpd', 'ceilometer']

2.47. PACKSTACK MONGODB CONFIG PARAMETERS

--mongodb-host=MONGODB_HOST

IP address of the server on which to install MongoDB.

2.48. PACKSTACK REDIS CONFIG PARAMETERS

--redis-master-host=REDIS_MASTER_HOST

IP address of the server on which to install the Redis master server.

--redis-port=REDIS_PORT

Port on which the Redis server(s) listens.

--redis-ha=REDIS_HA

Specify 'y' to have Redis try to use HA. ['y', 'n']

--redis-slaves=REDIS_SLAVES

Hosts on which to install Redis slaves.

--redis-sentinels=REDIS_SENTINELS

Hosts on which to install Redis sentinel servers.

--redis-sentinel-contact=REDIS_SENTINEL_CONTACT

Host to configure as the Redis coordination sentinel.

--redis-sentinel-port=REDIS_SENTINEL_PORT

Port on which Redis sentinel servers listen.

--redis-sentinel-quorum=REDIS_SENTINEL_QUORUM

Quorum value for Redis sentinel servers.

--redis-sentinel-master-name=REDIS_SENTINEL_MASTER_NAME

Name of the master server watched by the Redis sentinel. ['[a-z]+']

2.49. PACKSTACK AODH CONFIG PARAMETERS

--aodh-ks-passwd=AODH_KS_PASSWD

Password to use for Telemetry Alarming to authenticate with the Identity service.

2.50. PACKSTACK TROVE CONFIG PARAMETERS

--trove-db-passwd=TROVE_DB_PASSWD

Password to use for OpenStack Database-as-a-Service (trove) to access the database.

--trove-ks-passwd=TROVE_KS_PASSWD

Password to use for OpenStack Database-as-a-Service to authenticate with the Identity service.

--trove-nova-passwd=TROVE_NOVA_PASSWD

Password to use when OpenStack Database-as-a-Service connects to the Compute service.

2.51. PACKSTACK SAHARA CONFIG PARAMETERS

--sahara-db-passwd=SAHARA_DB_PASSWD

Password to use for OpenStack Data Processing (sahara) to access the database.

--sahara-ks-passwd=SAHARA_KS_PASSWD

Password to use for OpenStack Data Processing to authenticate with the Identity service.

2.52. PACKSTACK NAGIOS CONFIG PARAMETERS

--nagios-passwd=NAGIOS_PASSWD

Password of the nagiosadmin user on the Nagios server.

2.53. PACKSTACK PUPPET CONFIG PARAMETERS

2.54. PACKSTACK POSTSCRIPT CONFIG PARAMETERS

CHAPTER 3. OPENSTACK COMMAND-LINE CLIENT

The **openstack** client is a common OpenStack command-line interface (CLI). This chapter documents **openstack** version **2.2.0**.

For help on a specific **openstack** command, enter:

```
$ openstack help COMMAND
```

3.1. OPENSTACK USAGE

```
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>] [--verify | --insecure] [--os-
default-domain <auth-domain>] [--os-interface <interface>] [--timing]
[--profile hmac-key] [--os-compute-api-version <compute-api-version>]
[--os-network-api-version <network-api-version>] [--os-image-api-
version <image-api-version>] [--os-volume-api-version <volume-api-
version>] [--os-identity-api-version <identity-api-version>] [--os-
auth-type <auth-type>] [--os-project-domain-id <auth-project-domain-
id>] [--os-protocol <auth-protocol>] [--os-project-name <auth-project-
name>] [--os-trust-id <auth-trust-id>] [--os-service-provider-endpoint
<auth-service-provider-endpoint>] [--os-domain-name <auth-domain-name>]
[--os-user-domain-id <auth-user-domain-id>] [--os-identity-provider-url
<auth-identity-provider-url>] [--os-access-token-endpoint <auth-access-
token-endpoint>] [--os-domain-id <auth-domain-id>] [--os-user-domain-
name <auth-user-domain-name>] [--os-scope <auth-scope>] [--os-user-id
<auth-user-id>] [--os-identity-provider <auth-identity-provider>] [--
os-username <auth-username>] [--os-auth-url <auth-auth-url>] [--os-
client-secret <auth-client-secret>] [--os-client-id <auth-client-id>]
[--os-project-domain-name <auth-project-domain-name>] [--os-password
<auth-password>] [--os-endpoint <auth-endpoint>] [--os-url <auth-url>]
[--os-token <auth-token>] [--os-project-id <auth-project-id>] [--os-
object-api-version <object-api-version>] [--os-orchestration-api-
version <orchestration-api-version>] [--os-key-manager-api-version
<key-manager-api-version>] [--os-data-processing-api-version <data-
processing-api-version>] [--os-data-processing-url
OS_DATA_PROCESSING_URL] [--os-dns-api-version <dns-api-version>] [--os-
baremetal-api-version <baremetal-api-version>]
```

3.2. OPENSTACK OPTIONAL ARGUMENTS

--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)

--os-cacert <ca-bundle-file>

CA certificate bundle file (Env: OS_CACERT)

--verify

Verify server certificate (default)

--insecure

Disable server certificate verification

--os-default-domain <auth-domain>

Default domain ID, default=default (Env: OS_DEFAULT_DOMAIN)

--os-interface <interface>

Select an interface type. Valid interface types: [admin, public, internal]. (Env: OS_INTERFACE)

--timing

Print API call timing info

Print API call timing into

--profile

hmac-key HMAC key to use for encrypting context data for performance profiling of operation. This key should be the value of one of the HMAC keys configured in osprofiler middleware in the projects user would like to profile. It needs to be specified in configuration files of the required projects.

--os-compute-api-version <compute-api-version>

Compute API version, default=2 (Env: OS_COMPUTE_API_VERSION)

--os-network-api-version <network-api-version>

Network API version, default=2.0 (Env: OS_NETWORK_API_VERSION)

--os-image-api-version <image-api-version>

Image API version, default=1 (Env: OS_IMAGE_API_VERSION)

--os-volume-api-version <volume-api-version>

Volume API version, default=2 (Env: OS_VOLUME_API_VERSION)

--os-identity-api-version <identity-api-version>

Identity API version, default=3 (Env: OS_IDENTITY_API_VERSION)

--os-auth-type <auth-type>

Select an authentication type. Available types: v2token, admin_token, v2password, v3password, v3scopedsaml, v3oidcpassword, v3unscopedadfs, token, v3token, password, v3unscopedsaml, osc_password, token_endpoint. Default: selected based on --os-username/--os-token (Env: OS_AUTH_TYPE)

--os-project-domain-id <auth-project-domain-id>

With v3password: Domain ID containing project With v3scopedsaml: Domain ID containing project With v3oidcpassword: Domain ID containing project With v3unscopedadfs: Domain ID containing project With token: Domain ID containing project With v3token: Domain ID containing project With password: Domain ID containing project With v3unscopedsaml: Domain ID containing project With osc_password: Domain ID containing project (Env: OS_PROJECT_DOMAIN_ID)

--os-protocol <auth-protocol>

With v3oidcpassword: Name of the federated protocol used for federated authentication. Must match its counterpart name configured at the keystone service provider. Typically values would be 'saml2' or 'oidc'. (Env: OS_PROTOCOL)

--os-project-name <auth-project-name>

With v3password: Project name to scope to With v3scopedsaml: Project name to scope to With v3oidcpassword: Project name to scope to With v3unscopedadfs: Project name to scope to With token: Project name to scope to With v3token: Project name to scope to With password: Project name to scope to With v3unscopedsaml: Project name to scope to With osc_password: Project name to scope to (Env: OS_PROJECT_NAME)

--os-trust-id <auth-trust-id>

With v2token: Trust ID With v2password: Trust ID With v3password: Trust ID With v3scopedsaml: Trust ID With v3oidcpassword: Trust ID With v3unscopedadfs: Trust ID With token: Trust ID With v3token: Trust ID With password: Trust ID With v3unscopedsaml: Trust ID With osc_password: Trust ID (Env: OS_TRUST_ID)

--os-service-provider-endpoint <auth-service-provider-endpoint>

With v3unscopedadfs: Service Provider's Endpoint (Env: OS_SERVICE_PROVIDER_ENDPOINT)

--os-domain-name <auth-domain-name>

With v3password: Domain name to scope to With v3scopedsaml: Domain name to scope to With v3oidcpassword: Domain name to scope to With v3unscopedadfs: Domain name to scope to With token: Domain name to scope to With v3token: Domain name to scope to With password: Domain name to scope to With v3unscopedsaml: Domain name to scope to With osc_password: Domain name to scope to (Env: OS_DOMAIN_NAME)

--os-user-domain-id <auth-user-domain-id>

With v3password: User's domain id With password: User's domain id With osc_password: User's domain id (Env: OS_USER_DOMAIN_ID)

--os-identity-provider-url <auth-identity-provider-url>

With v3unscopedadfs: Identity Provider's URL With v3unscopedsaml: Identity Provider's URL (Env: OS_IDENTITY_PROVIDER_URL)

--os-access-token-endpoint <auth-access-token-endpoint>

With v3oidcpassword: OpenID Connect Provider Token Endpoint (Env: OS_ACCESS_TOKEN_ENDPOINT)

--os-domain-id <auth-domain-id>

With v3password: Domain ID to scope to With v3scopedsaml: Domain ID to scope to With v3oidcpassword: Domain ID to scope to With v3unscopedadfs: Domain ID to scope to With token: Domain ID to scope to With v3token: Domain ID to scope to With password: Domain ID to scope to With v3unscopedsaml: Domain ID to scope to With osc_password: Domain ID to scope to (Env: OS_DOMAIN_ID)

--os-user-domain-name <auth-user-domain-name>

With v3password: User's domain name With password: User's domain name With
osc_password: User's domain name (Env: OS_USER_DOMAIN_NAME)

--os-scope <auth-scope>

With v3oidcpassword: OpenID Connect scope that is requested from OP (Env:
OS_SCOPE)

--os-user-id <auth-user-id>

With v2password: User ID to login with With v3password: User ID With password: User id
With osc_password: User id (Env: OS_USER_ID)

--os-identity-provider <auth-identity-provider>

With v3oidcpassword: Identity Provider's name With v3unscopedadfs: Identity Provider's
name With v3unscopedsaml: Identity Provider's name (Env: OS_IDENTITY_PROVIDER)

--os-username <auth-username>

With v2password: Username to login with With v3password: Username With
v3oidcpassword: Username With v3unscopedadfs: Username With password: Username
With v3unscopedsaml: Username With osc_password: Username (Env: OS_USERNAME)

--os-auth-url <auth-auth-url>

With v2token: Authentication URL With v2password: Authentication URL With v3password:
Authentication URL With v3scopedsaml: Authentication URL With v3oidcpassword:
Authentication URL With v3unscopedadfs: Authentication URL With token: Authentication
URL With v3token: Authentication URL With password: Authentication URL With
v3unscopedsaml: Authentication URL With osc_password: Authentication URL (Env:
OS_AUTH_URL)

--os-client-secret <auth-client-secret>

With v3oidcpassword: OAuth 2.0 Client Secret (Env: OS_CLIENT_SECRET)

--os-client-id <auth-client-id>

With v3oidcpassword: OAuth 2.0 Client ID (Env: OS_CLIENT_ID)

--os-project-domain-name <auth-project-domain-name>

With v3password: Domain name containing project With v3scopedsaml: Domain name
containing project With v3oidcpassword: Domain name containing project With
v3unscopedadfs: Domain name containing project With token: Domain name containing
project With v3token: Domain name containing project With password: Domain name

containing project With v3unscopeddsaml: Domain name containing project With
osc_password: Domain name containing project (Env: OS_PROJECT_DOMAIN_NAME)

--os-password <auth-password>

With v2password: Password to use With v3password: User's password With
v3oidcpassword: Password With v3unscopedadfs: Password With password: User's
password With v3unscopeddsaml: Password With osc_password: User's password (Env:
OS_PASSWORD)

--os-endpoint <auth-endpoint>

With admin_token: The endpoint that will always be used With token_endpoint: The
endpoint that will always be used (Env: OS_ENDPOINT)

--os-url <auth-url>

With token_endpoint: Specific service endpoint to use (Env: OS_URL)

--os-token <auth-token>

With v2token: Token With admin_token: The token that will always be used With
v3scopeddsaml: Token to authenticate with With token: Token to authenticate with With
v3token: Token to authenticate with With token_endpoint: The token that will always be
used With token_endpoint: Authentication token to use (Env: OS_TOKEN)

--os-project-id <auth-project-id>

With v3password: Project ID to scope to With v3scopeddsaml: Project ID to scope to With
v3oidcpassword: Project ID to scope to With v3unscopedadfs: Project ID to scope to With
token: Project ID to scope to With v3token: Project ID to scope to With password: Project ID
to scope to With v3unscopeddsaml: Project ID to scope to With osc_password: Project ID to
scope to (Env: OS_PROJECT_ID)

--os-object-api-version <object-api-version>

Object API version, default=1 (Env: OS_OBJECT_API_VERSION)

--os-orchestration-api-version <orchestration-api-version>

Orchestration API version, default=1 (Env: OS_ORCHESTRATION_API_VERSION)

--os-key-manager-api-version <key-manager-api-version>

Barbican API version, default=1 (Env: OS_KEY_MANAGER_API_VERSION)

--os-data-processing-api-version <data-processing-api-version>

Data processing API version, default=1.1 (Env: OS_DATA_PROCESSING_API_VERSION)

--os-data-processing-url OS_DATA_PROCESSING_URL

Data processing API URL, (Env: OS_DATA_PROCESSING_API_URL)

--os-dns-api-version <dns-api-version>

DNS API version, default=2 (Env: OS_DNS_API_VERSION)

--os-baremetal-api-version <baremetal-api-version>

Baremetal API version, default=1.6 (Env: OS_BAREMETAL_API_VERSION)

3.3. SUBCOMMANDS

Important

OpenStack Identity API v2 is deprecated in the Mitaka release.

You can select the Identity API version to use by adding the **--os-identity-api-version** parameter or by setting the corresponding environment variable:

```
export OS_IDENTITY_API_VERSION=3
```

3.3.1. openstack access token create

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

Create an access token

Optional arguments:

-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)

3.3.2. openstack acl delete

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

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

Positional arguments:

URI

The URI reference for the secret or container.

Optional arguments:

-h, --help

show this help message and exit

3.3.3. openstack acl get

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

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

Positional arguments:**URI**

The URI reference for the secret or container.

Optional arguments:**-h, --help**

show this help message and exit

3.3.4. openstack acl submit

```
usage: openstack acl submit [-h] [-f {csv,html,json,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--user [USERS]]
                             [--project-access | --no-project-access]
                             [--operation-type {read}]
                             URI
```

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

Positional arguments:**URI**

The URI reference for the secret or container.

Optional arguments:**-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

3.3.5. openstack acl user add

```
usage: openstack acl user add [-h] [-f {csv,html,json,table,value,yaml}]
                               [-c COLUMN] [--max-width <integer>] [--
noindent]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--user [USERS]]
                               [--project-access | --no-project-access]
                               [--operation-type {read}]
                               URI
```

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

Positional arguments:

URI

The URI reference for the secret or container.

Optional arguments:

-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

3.3.6. openstack acl user remove

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

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

Positional arguments:

URI

The URI reference for the secret or container.

Optional arguments:

-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

3.3.7. openstack aggregate add host

```
usage: openstack aggregate add host [-h]
```

```
{html,json,shell,table,value,yaml}]  
[-f  
[-c COLUMN] [--max-width <integer>]  
[--noindent] [--prefix PREFIX]  
<aggregate> <host>
```

Add host to aggregate

Positional arguments:

<aggregate>

Aggregate (name or ID)

<host>

Host to add to <aggregate>

Optional arguments:

-h, --help

show this help message and exit

3.3.8. openstack aggregate create

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

Create a new aggregate

Positional arguments:

<name>

New aggregate name

Optional arguments:

-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)

3.3.9. openstack aggregate delete

```
usage: openstack aggregate delete [-h] <aggregate>
```

Delete an existing aggregate

Positional arguments:

<aggregate>

Aggregate to delete (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.10. openstack aggregate list

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

List all aggregates

Optional arguments:

-h, --help

show this help message and exit

--long

List additional fields in output

3.3.11. openstack aggregate remove host

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

Remove host from aggregate

Positional arguments:**<aggregate>**

Aggregate (name or ID)

<host>

Host to remove from <aggregate>

Optional arguments:**-h, --help**

show this help message and exit

3.3.12. openstack aggregate set

```
usage: openstack aggregate set [-h] [--name <name>]
                                [--zone <availability-zone>]
                                [--property <key=value>]
                                <aggregate>
```

Set aggregate properties

Positional arguments:**<aggregate>**

Aggregate to modify (name or ID)

Optional arguments:**-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)

3.3.13. openstack aggregate show

```
usage: openstack aggregate show [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                <aggregate>
```

Display aggregate details

Positional arguments:**<aggregate>**

Aggregate to display (name or ID)

Optional arguments:**-h, --help**

show this help message and exit

3.3.14. openstack availability zone list

```
usage: openstack availability zone list [-h]
                                        [-f]
{csv,html,json,table,value,yaml}]
                                        [-c COLUMN] [--max-width
```

```

<integer>]
                                [--noindent]
                                [--quote
{all,minimal,none,nonnumeric}]
                                [--compute] [--network] [--
volume]
                                [--long]

```

List availability zones and their status

Optional arguments:

-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

3.3.15. openstack backup create

```

usage: openstack backup create [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX] [--name
<name>]
                                [--description <description>]
                                [--container <container>]
                                <volume>

```

Create new backup

Positional arguments:

<volume>

Volume to backup (name or ID)

Optional arguments:

-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

3.3.16. openstack backup delete

```
usage: openstack backup delete [-h] <backup> [<backup> ...]
```

Delete backup(s)

Positional arguments:

<backup>

Backup(s) to delete (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.17. openstack backup list

```
usage: openstack backup list [-h] [-f {csv,html,json,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
```

```
long]                                [--quote {all,minimal,none,nonnumeric}] [--
```

List backups

Optional arguments:

-h, --help

show this help message and exit

--long

List additional fields in output

3.3.18. openstack backup restore

```
usage: openstack backup restore [-h] [-f {html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                <backup> <volume>
```

Restore backup

Positional arguments:

<backup>

Backup to restore (ID only)

<volume>

Volume to restore to (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.19. openstack backup show

```
usage: openstack backup show [-h] [-f {html,json,shell,table,value,yaml}]
                              [-c COLUMN] [--max-width <integer>] [--
noindent]
```



```
[--prefix PREFIX]
<backup>
```

Display backup details

Positional arguments:

<backup>

Backup to display (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.20. openstack baremetal create

```
usage: openstack baremetal create [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                [--chassis-uuid <chassis>] --driver
<driver>
                                [--driver-info <key=value>]
                                [--property <key=value>]
                                [--extra <key=value>] [--uuid <uuid>]
                                [--name <name>]
```

Register a new node with the baremetal service

Optional arguments:

-h, --help

show this help message and exit

--chassis-uuid <chassis>

UUID of the chassis that this node belongs to.

--driver <driver>

Driver used to control the node [REQUIRED].

--driver-info <key=value>

Key/value pair used by the driver, such as out-of-band management credentials. Can be specified multiple times.

--property <key=value>

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.

--extra <key=value>

Record arbitrary key/value metadata. Can be specified multiple times.

--uuid <uuid>

Unique UUID for the node.

--name <name>

Unique name for the node.

3.3.21. openstack baremetal delete

```
usage: openstack baremetal delete [-h] <node>
```

Unregister a baremetal node

Positional arguments:**<node>**

Node to delete (name or ID)

Optional arguments:**-h, --help**

show this help message and exit

3.3.22. openstack baremetal list

```
usage: openstack baremetal list [-h] [-f
{csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent]
```

```

maintenance]
[--quote {all,minimal,none,nonnumeric}]
[--limit <limit>] [--marker <node>]
[--sort <key>[:<direction>]] [--
[--associated] [--long]

```

List baremetal nodes

Optional arguments:

-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 selected keys and directions(asc or desc) (default: asc), multiple keys and directions can be specified separated by comma

--maintenance

List nodes in maintenance mode.

--associated

List only nodes associated with an instance.

--long

Show detailed information about the nodes.

3.3.23. openstack baremetal set

```
usage: openstack baremetal set [-h] [--property <path=value>] <node>
```

Set baremetal properties

Positional arguments:**<node>**

Name or UUID of the node.

Optional arguments:**-h, --help**

show this help message and exit

--property <path=value>

Property to add to this baremetal host (repeat option to set multiple properties)

3.3.24. openstack baremetal show

```
usage: openstack baremetal show [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX] [--
instance]
                                [--long]
                                <node>
```

Show baremetal node details

Positional arguments:**<node>**

Name or UUID of the node (or instance UUID if --instance is specified)

Optional arguments:**-h, --help**

show this help message and exit

--instance <node>

is an instance UUID.

--long

3.3.25. openstack baremetal unset

```
usage: openstack baremetal unset [-h] [--property <path>] <node>
```

Unset baremetal properties

Positional arguments:

<node>

Name or UUID of the node.

Optional arguments:

-h, --help

show this help message and exit

--property <path>

Property to unset on this baremetal host (repeat option to unset multiple properties)

3.3.26. openstack ca get

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

Retrieve a CA by providing its URI.

Positional arguments:

URI

The URI reference for the CA.

Optional arguments:

-h, --help

show this help message and exit

3.3.27. openstack ca list

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

List cas.

Optional arguments:

-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)

3.3.28. openstack catalog list

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

List services in the service catalog

Optional arguments:

-h, --help

show this help message and exit

3.3.29. openstack catalog show

```
usage: openstack catalog show [-h] [-f
{html,json,shell,table,value,yaml}]
```

```
noindent]
[-c COLUMN] [--max-width <integer>] [--
--prefix PREFIX]
<service>
```

Display service catalog details

Positional arguments:

<service>

Service to display (type or name)

Optional arguments:

-h, --help

show this help message and exit

3.3.30. openstack command list

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

List recognized commands by group

Optional arguments:

-h, --help

show this help message and exit

3.3.31. openstack compute agent create

```
usage: openstack compute agent create [-h]
[-f
{html,json,shell,table,value,yaml}]
[-c COLUMN] [--max-width
<integer>]
[--noindent] [--prefix PREFIX]
<os> <architecture> <version>
<url>
<md5hash> <hypervisor>
```

Create compute agent command

Positional arguments:

<os>

Type of OS

<architecture>

Type of architecture

<version>

Version

<url>

URL

<md5hash>

MD5 hash

<hypervisor>

Type of hypervisor

Optional arguments:

-h, --help

show this help message and exit

3.3.32. openstack compute agent delete

```
usage: openstack compute agent delete [-h] <id> [<id> ...]
```

Delete compute agent(s)

Positional arguments:

<id>

ID of agent(s) to delete

Optional arguments:**-h, --help**

show this help message and exit

3.3.33. openstack compute agent list

```
usage: openstack compute agent list [-h] [-f
{csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent]
                                [--quote
{all,minimal,none,nonnumeric}]
                                [--hypervisor <hypervisor>]
```

List compute agent command

Optional arguments:**-h, --help**

show this help message and exit

--hypervisor <hypervisor>

Type of hypervisor

3.3.34. openstack compute agent set

```
usage: openstack compute agent set [-h] <id> <version> <url> <md5hash>
```

Set compute agent command

Positional arguments:**<id>**

ID of the agent

<version>

Version of the agent

<url>

URL

<md5hash>

MD5 hash

Optional arguments:

-h, --help

show this help message and exit

3.3.35. openstack compute service delete

```
usage: openstack compute service delete [-h] <service>
```

Delete service command

Positional arguments:

<service>

Compute service to delete (ID only)

Optional arguments:

-h, --help

show this help message and exit

3.3.36. openstack compute service list

```
usage: openstack compute service list [-h]
                                         [-f]
                                         {csv,html,json,table,value,yaml}
                                         [-c COLUMN] [--max-width
                                         <integer>]
                                         [--noindent]
                                         [--quote
                                         {all,minimal,none,nonnumeric}]
                                         [--host <host>] [--service
                                         <service>]
                                         [--long]
```

List service command

Optional arguments:**-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

3.3.37. openstack compute service set

```
usage: openstack compute service set [-h] [--enable | --disable]
                                     [--disable-reason <reason>]
                                     <host> <service>
```

Set service command

Positional arguments:**<host>**

Name of host

<service>

Name of service

Optional arguments:**-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.

3.3.38. openstack configuration show

```
usage: openstack configuration show [-h]
                                     [-f
                                     {html,json,shell,table,value,yaml}]
                                     [-c COLUMN] [--max-width <integer>]
                                     [--noindent] [--prefix PREFIX]
                                     [--mask | --unmask]
```

Display configuration details

Optional arguments:**-h, --help**

show this help message and exit

--mask

Attempt to mask passwords (default)

--unmask

Show password in clear text

3.3.39. openstack console log show

```
usage: openstack console log show [-h] [--lines <num-lines>] <server>
```

Show server's console output

Positional arguments:**<server>**

Server to show console log (name or ID)

Optional arguments:**-h, --help**

show this help message and exit

--lines <num-lines>

Number of lines to display from the end of the log (default=all)

3.3.40. openstack console url show

```
usage: openstack console url show [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                [--novnc | --xvpvnc | --spice]
                                <server>
```

Show server's remote console URL

Positional arguments:**<server>**

Server to show URL (name or ID)

Optional arguments:**-h, --help**

show this help message and exit

--novnc

Show noVNC console URL (default)

--xvpvnc

Show xpvnc console URL

--spice

Show SPICE console URL

3.3.41. openstack consumer create

```
usage: openstack consumer create [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                [--description <description>]
```

Create new consumer

Optional arguments:

-h, --help

show this help message and exit

--description <description>

New consumer description

3.3.42. openstack consumer delete

```
usage: openstack consumer delete [-h] <consumer>
```

Delete consumer

Positional arguments:

<consumer>

Consumer to delete

Optional arguments:

-h, --help

show this help message and exit

3.3.43. openstack consumer list

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

List consumers

Optional arguments:**-h, --help**

show this help message and exit

3.3.44. openstack consumer set

```
usage: openstack consumer set [-h] [--description <description>]
<consumer>
```

Set consumer properties

Positional arguments:**<consumer>**

Consumer to modify

Optional arguments:**-h, --help**

show this help message and exit

--description <description>

New consumer description

3.3.45. openstack consumer show

```
usage: openstack consumer show [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
<consumer>
```

Display consumer details

Positional arguments:**<consumer>**

Consumer to display

Optional arguments:**-h, --help**

show this help message and exit

3.3.46. openstack container create

```
usage: openstack container create [-h] [-f
{csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent]
                                [--quote
{all,minimal,none,nonnumeric}]
                                <container-name> [<container-name>
...]
```

Create new container

Positional arguments:**<container-name>**

New container name(s)

Optional arguments:**-h, --help**

show this help message and exit

3.3.47. openstack container delete

```
usage: openstack container delete [-h] [--recursive]
                                <container> [<container> ...]
```

Delete container

Positional arguments:**<container>**

Container(s) to delete

Optional arguments:

-h, --help

show this help message and exit

--recursive, -r

Recursively delete objects and container

3.3.48. openstack container list

```
usage: openstack container list [-h] [-f
{csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--prefix <prefix>] [--marker <marker>]
                                [--end-marker <end-marker>] [--limit
<limit>]
                                [--long] [--all]
```

List containers

Optional arguments:**-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 <limit>

Limit the number of containers returned

--long

List additional fields in output

--all

List all containers (default is 10000)

3.3.49. openstack container save

```
usage: openstack container save [-h] <container>
```

Save container contents locally

Positional arguments:

<container>

Container to save

Optional arguments:

-h, --help

show this help message and exit

3.3.50. openstack container set

```
usage: openstack container set [-h] --property <key=value> <container>
```

Set container properties

Positional arguments:

<container>

Container to modify

Optional arguments:

-h, --help

show this help message and exit

--property <key=value>

Set a property on this container (repeat option to set multiple properties)

3.3.51. openstack container show

```
usage: openstack container show [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                <container>
```

Display container details

Positional arguments:

<container>

Container to display

Optional arguments:

-h, --help

show this help message and exit

3.3.52. openstack container unset

```
usage: openstack container unset [-h] --property <key> <container>
```

Unset container properties

Positional arguments:

<container>

Container to modify

Optional arguments:

-h, --help

show this help message and exit

--property <key>

Property to remove from container (repeat option to remove multiple properties)

3.3.53. openstack credential create

3.3.53. openstack credential create

```
usage: openstack credential create [-h]
                                   [-f
                                   {html,json,shell,table,value,yaml}]
                                   [-c COLUMN] [--max-width <integer>]
                                   [--noindent] [--prefix PREFIX]
                                   [--type <type>] [--project
                                   <project>]
                                   <user> <data>
```

Create credential command

Positional arguments:

<user>

Name or ID of user that owns the credential

<data>

New credential data

Optional arguments:

-h, --help

show this help message and exit

--type <type>

New credential type

--project <project>

Project name or ID which limits the scope of the credential

3.3.54. openstack credential delete

```
usage: openstack credential delete [-h] <credential-id>
```

Delete credential command

Positional arguments:

<credential-id>

ID of credential to delete

Optional arguments:

-h, --help

show this help message and exit

3.3.55. openstack credential list

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

List credential command

Optional arguments:

-h, --help

show this help message and exit

3.3.56. openstack credential set

```
usage: openstack credential set [-h] --user <user> --type <type> --data
<data>
                                [--project <project>]
                                <credential-id>
```

Set credential command

Positional arguments:

<credential-id>

ID of credential to change

Optional arguments:

-h, --help

show this help message and exit

--user <user>

Name or ID of user that owns the credential

--type <type>

New credential type

--data <data>

New credential data

--project <project>

Project name or ID which limits the scope of the credential

3.3.57. openstack credential show

```
usage: openstack credential show [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                <credential-id>
```

Show credential command

Positional arguments:

<credential-id>

ID of credential to display

Optional arguments:

-h, --help

show this help message and exit

3.3.58. openstack dataprocessing cluster create

```
usage: openstack dataprocessing cluster create [-h]
                                                [-f
{html,json,shell,table,value,yaml}]
                                                [-c COLUMN]
                                                [--max-width <integer>]
                                                [--noindent] [--prefix
PREFIX]
```

```

--name <name>]
--cluster-template
<cluster-template>]
--image <image>]
--description
<description>]
--user-keypair
<keypair>]
--neutron-network
<network>]
--count <count>] [--
public]
--protected] [--
transient]
--json <filename>] [--
wait]

```

Creates cluster

Optional arguments:

-h, --help

show this help message and exit

--name <name>

Name of the cluster [REQUIRED if JSON is not provided]

--cluster-template <cluster-template>

Cluster template name or ID [REQUIRED if JSON is not provided]

--image <image>

Image that will be used for cluster deployment (Name or ID) [REQUIRED if JSON is not provided]

--description <description>

Description of the cluster

--user-keypair <keypair>

User keypair to get acces to VMs after cluster creation

--neutron-network <network>

Instances of the cluster will get fixed IP addresses in this network. (Name or ID should be provided)

--count <count>

Number of clusters to be created

--public

Make the cluster public (Visible from other tenants)

--protected

Make the cluster protected

--transient

Create transient cluster

--json <filename>

JSON representation of the cluster. Other arguments (except for --wait) will not be taken into account if this one is provided

--wait

Wait for the cluster creation to complete

3.3.59. openstack dataprocessing cluster delete

```
usage: openstack dataprocessing cluster delete [-h] [--wait]
        <cluster> [<cluster>
        ...]
```

Deletes cluster

Positional arguments:

<cluster>

Name(s) or id(s) of the cluster(s) to delete

Optional arguments:

-h, --help

show this help message and exit

--wait

Wait for the cluster(s) delete to complete

3.3.60. openstack dataprocessing cluster list

```
usage: openstack dataprocessing cluster list [-h]
                                           [-f]
                                           {csv,html,json,table,value,yaml}
                                           [-c COLUMN]
                                           [--max-width <integer>]
                                           [--noindent]
                                           [--quote]
                                           {all,minimal,none,nonnumeric}
                                           <plugin>
                                           <plugin_version>
                                           [--long] [--plugin
                                           [--plugin-version
                                           [--name <name-substring>]
```

Lists clusters

Optional arguments:

-h, --help

show this help message and exit

--long

List additional fields in output

--plugin <plugin>

List clusters with specific plugin

--plugin-version <plugin_version>

List clusters with specific version of the plugin

--name <name-substring>

List clusters with specific substring in the name

3.3.61. openstack dataprocessing cluster scale

■

```
usage: openstack dataprocessing cluster scale [-h]
                                             [-f]
                                             {html,json,shell,table,value,yaml}
                                             [-c COLUMN]
                                             [--max-width <integer>]
                                             [--noindent] [--prefix
PREFIX]
                                             [--instances <node-group-
template:instances_count> [<node-group-template:instances_count> ...]]
                                             [--json <filename>] [--
wait]
                                             <cluster>
```

Scales cluster

Positional arguments:

<cluster>

Name or ID of the cluster

Optional arguments:

-h, --help

show this help message and exit

--instances <node-group-template:instances_count> [<node-group-template:instances_count> ...]

Node group templates and number of their instances to be scale to [REQUIRED if JSON is not provided]

--json <filename>

JSON representation of the cluster scale object. Other arguments (except for --wait) will not be taken into account if this one is provided

--wait

Wait for the cluster scale to complete

3.3.62. openstack dataprocessing cluster show

```
usage: openstack dataprocessing cluster show [-h]
                                             [-f]
                                             {html,json,shell,table,value,yaml}
                                             [-c COLUMN]
```

PREFIX]

```
[--max-width <integer>]
[--noindent] [--prefix]

[--verification]
<cluster>
```

Display cluster details

Positional arguments:

<cluster>

Name or id of the cluster to display

Optional arguments:

-h, --help

show this help message and exit

--verification

List additional fields for verifications

3.3.63. openstack dataprocessing cluster template create

```
usage: openstack dataprocessing cluster template create [-h]
                                                         [-f]
{html,json,shell,table,value,yaml}
                                                         [-c COLUMN]
                                                         [--max-width
<integer>]
                                                         [--noindent]
                                                         [--prefix]
PREFIX]
                                                         [--name
<name>]
                                                         [--node-groups
<node-group:instances_count> [<node-group:instances_count> ...]]
                                                         [--anti-
affinity <anti-affinity> [<anti-affinity> ...]]
                                                         [--description
<description>]
                                                         [--autoconfig]
                                                         [--public]
                                                         [--protected]
                                                         [--json]
<filename>]
```

<filename>	[--shares
<filename>	[--configs

Creates cluster template

Optional arguments:

-h, --help

show this help message and exit

--name <name>

Name of the cluster template [REQUIRED if JSON is not provided]

--node-groups <node-group:instances_count> [<node-group:instances_count> ...]

List of the node groups(names or IDs) and numbers of instances for each one of them
[REQUIRED if JSON is not provided]

--anti-affinity <anti-affinity> [<anti-affinity> ...]

List of processes that should be added to an anti-affinity group

--description <description>

Description of the cluster template

--autoconfig

If enabled, instances of the cluster will be automatically configured

--public

Make the cluster template public (Visible from other tenants)

--protected

Make the cluster template protected

--json <filename>

JSON representation of the cluster template. Other arguments will not be taken into account if this one is provided

--shares <filename>

JSON representation of the manila shares

--configs <filename>

JSON representation of the cluster template configs

3.3.64. openstack dataprocessing cluster template delete

```
usage: openstack dataprocessing cluster template delete [-h]
                                                    <cluster-
template>
                                                    [<cluster-
template> ...]
```

Deletes cluster template

Positional arguments:

<cluster-template>

Name(s) or id(s) of the cluster template(s) to delete

Optional arguments:

-h, --help

show this help message and exit

3.3.65. openstack dataprocessing cluster template list

```
usage: openstack dataprocessing cluster template list [-h]
                                                    [-f
{csv,html,json,table,value,yaml}]
                                                    [-c COLUMN]
                                                    [--max-width
<integer>]
                                                    [--noindent]
                                                    [--quote
{all,minimal,none,nonnumeric}]
                                                    [--long]
                                                    [--plugin
<plugin>]
                                                    [--plugin-
version <plugin_version>]
                                                    [--name <name-
substring>]
```

Lists cluster templates

Optional arguments:

-h, --help

show this help message and exit

--long

List additional fields in output

--plugin <plugin>

List cluster templates for specific plugin

--plugin-version <plugin_version>

List cluster templates with specific version of the plugin

--name <name-substring>

List cluster templates with specific substring in the name

3.3.66. openstack dataprocessing cluster template show

```
usage: openstack dataprocessing cluster template show [-h]
                                                    [-f
{html,json,shell,table,value,yaml}]
                                                    [-c COLUMN]
                                                    [--max-width
<integer>]
                                                    [--noindent]
                                                    [--prefix
PREFIX]
                                                    <cluster-
template>
```

Display cluster template details

Positional arguments:

<cluster-template>

Name or id of the cluster template to display

Optional arguments:

-h, --help

show this help message and exit

3.3.67. openstack dataprocessing cluster template update

```
usage: openstack dataprocessing cluster template update [-h]
                                                         [-f
{html,json,shell,table,value,yaml}]
                                                         [-c COLUMN]
                                                         [--max-width
<integer>]
                                                         [--noindent]
                                                         [--prefix
PREFIX]
                                                         [--name
<name>]
                                                         [--node-groups
<node-group:instances_count> [<node-group:instances_count> ...]]
                                                         [--anti-
affinity <anti-affinity> [<anti-affinity> ...]]
                                                         [--description
<description>]
                                                         [--autoconfig-
enable | --autoconfig-disable]
                                                         [--public | --
private]
                                                         [--protected |
--unprotected]
                                                         [--json
<filename>]
                                                         [--shares
<filename>]
                                                         [--configs
<filename>]
                                                         <cluster-
template>
```

Updates cluster template

Positional arguments:

<cluster-template>

Name or ID of the cluster template [REQUIRED]

Optional arguments:

-h, --help

show this help message and exit

--name <name>

New name of the cluster template

--node-groups <node-group:instances_count> [<node-group:instances_count> ...]

List of the node groups(names or IDs) and numbers of instances for each one of them

--anti-affinity <anti-affinity> [<anti-affinity> ...]

List of processes that should be added to an anti-affinity group

--description <description>

Description of the cluster template

--autoconfig-enable

Instances of the cluster will be automatically configured

--autoconfig-disable

Instances of the cluster will not be automatically configured

--public

Make the cluster template public (Visible from other tenants)

--private

Make the cluster template private (Visible only from this tenant)

--protected

Make the cluster template protected

--unprotected

Make the cluster template unprotected

--json <filename>

JSON representation of the cluster template. Other arguments will not be taken into account if this one is provided

--shares <filename>

JSON representation of the manila shares

--configs <filename>

JSON representation of the cluster template configs

3.3.68. openstack dataprocessing cluster update

```
usage: openstack dataprocessing cluster update [-h]
                                                [-f]
{html,json,shell,table,value,yaml}]
                                                [-c COLUMN]
                                                [--max-width <integer>]
                                                [--noindent] [--prefix
PREFIX]
                                                [--name <name>]
                                                [--description
<description>]
                                                [--shares <filename>]
                                                [--public | --private]
                                                [--protected | --
unprotected]
                                                <cluster>
```

Updates cluster

Positional arguments:

<cluster>

Name or ID of the cluster

Optional arguments:

-h, --help

show this help message and exit

--name <name>

New name of the cluster

--description <description>

Description of the cluster

--shares <filename>

JSON representation of the manila shares

--public

Make the cluster public (Visible from other tenants)

--private

Make the cluster private (Visible only from this tenant)

--protected

Make the cluster protected

--unprotected

Make the cluster unprotected

3.3.69. openstack dataprocessing cluster verification

```
usage: openstack dataprocessing cluster verification [-h]
                                                    [-f]
                                                    [-c COLUMN]
                                                    [--max-width]
                                                    <integer>]
                                                    [--noindent]
                                                    [--prefix PREFIX]
                                                    (--start | --
show)
                                                    <cluster>
```

Updates cluster verifications

Positional arguments:

<cluster>

Name or ID of the cluster

Optional arguments:

-h, --help

show this help message and exit

--start

Start health verification for the cluster

--show

Show health of the cluster

3.3.70. openstack dataprocessing data source create

```
usage: openstack dataprocessing data source create [-h]
                                                    [-f]
{html,json,shell,table,value,yaml}
                                                    [-c COLUMN]
                                                    [--max-width
<integer>]
                                                    [--noindent]
                                                    [--prefix PREFIX] -
-type
                                                    <type> --url <url>
                                                    [--username
<username>]
                                                    [--password
<password>]
                                                    [--description
<description>]
                                                    [--public] [--
protected]
                                                    <name>
```

Creates data source

Positional arguments:

<name>

Name of the data source

Optional arguments:

-h, --help

show this help message and exit

--type <type>

Type of the data source (swift, hdfs, maprfs, manila) [REQUIRED]

--url <url>

Url for the data source [REQUIRED]

--username <username>

Username for accessing the data source url

--password <password>

Password for accessing the data source url

--description <description>

Description of the data source

--public

Make the data source public

--protected

Make the data source protected

3.3.71. openstack dataprocessing data source delete

```
usage: openstack dataprocessing data source delete [-h]
                                                    <data-source>
                                                    [<data-source> ...]
```

Delete data source

Positional arguments:

<data-source>

Name(s) or id(s) of the data source(s) to delete

Optional arguments:

-h, --help

show this help message and exit

3.3.72. openstack dataprocessing data source list

```
usage: openstack dataprocessing data source list [-h]
                                                [-f]
{csv,html,json,table,value,yaml}]
                                                [-c COLUMN]
                                                [--max-width
<integer>]
                                                [--noindent]
                                                [--quote
{all,minimal,none,nonnumeric}]
                                                [--long] [--type
<type>]
```

Lists data sources

Optional arguments:

-h, --help

show this help message and exit

--long

List additional fields in output

--type <type>

List data sources of specific type (swift, hdfs, maprfs, manila)

3.3.73. openstack dataprocessing data source show

```
usage: openstack dataprocessing data source show [-h]
                                                [-f]
{html,json,shell,table,value,yaml}]
                                                [-c COLUMN]
                                                [--max-width
<integer>]
                                                [--noindent]
                                                [--prefix PREFIX]
<data-source>
```

Display data source details

Positional arguments:

<data-source>

Name or id of the data source to display

Optional arguments:**-h, --help**

show this help message and exit

3.3.74. openstack dataprocessing data source update

```
usage: openstack dataprocessing data source update [-h]
                                                    [-f]
                                                    {html,json,shell,table,value,yaml}
                                                    [-c COLUMN]
                                                    [--max-width
<integer>]
                                                    [--noindent]
                                                    [--prefix PREFIX]
                                                    [--name <name>]
                                                    [--type <type>]
                                                    [--url <url>]
                                                    [--username
<username>]
                                                    [--password
<password>]
                                                    [--description
<description>]
                                                    [--public | --
private]
                                                    [--protected | --
unprotected]
                                                    <data-source>
```

Update data source

Positional arguments:**<data-source>**

Name or id of the data source

Optional arguments:**-h, --help**

show this help message and exit

--name <name>

New name of the data source

--type <type>

Type of the data source (swift, hdfs, maprfs, manila)

--url <url>

Url for the data source

--username <username>

Username for accessing the data source url

--password <password>

Password for accessing the data source url

--description <description>

Description of the data source

--public

Make the data source public (Visible from other tenants)

--private

Make the data source private (Visible only from this tenant)

--protected

Make the data source protected

--unprotected

Make the data source unprotected

3.3.75. openstack dataprocessing image list

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

```
regex>]
```

```
[--long] [--name <name-  
[--tags <tag> [<tag> ...]]  
[--username <username>]
```

Lists registered images

Optional arguments:

-h, --help

show this help message and exit

--long

List additional fields in output

--name <name-regex>

Regular expression to match image name

--tags <tag> [<tag> ...]

List images with specific tag(s)

--username <username>

List images with specific username

3.3.76. openstack dataprocessing image register

```
usage: openstack dataprocessing image register [-h]  
                                                [-f  
{html,json,shell,table,value,yaml}]  
                                                [-c COLUMN]  
                                                [--max-width <integer>]  
                                                [--noindent] [--prefix  
PREFIX]  
                                                --username <username>  
                                                [--description  
<description>]  
                                                <image>
```

Register an image

Positional arguments:

<image>

Name or ID of the image to register

Optional arguments:

-h, --help

show this help message and exit

--username <username>

Username of privileged user in the image [REQUIRED]

--description <description>

Description of the image. If not provided, description of the image will be reset to empty

3.3.77. openstack dataprocessing image show

```
usage: openstack dataprocessing image show [-h]
                                           [-f
{html,json,shell,table,value,yaml}]
                                           [-c COLUMN] [--max-width
<integer>]
                                           [--noindent] [--prefix
PREFIX]
                                           <image>
```

Display image details

Positional arguments:

<image>

Name or id of the image to display

Optional arguments:

-h, --help

show this help message and exit

3.3.78. openstack dataprocessing image tags add

```
usage: openstack dataprocessing image tags add [-h]
```

```

{html,json,shell,table,value,yaml}]
PREFIX]

[-f
[-c COLUMN]
[--max-width <integer>]
[--noindent] [--prefix
--tags <tag> [<tag> ...]
<image>

```

Add image tags

Positional arguments:

<image>

Name or id of the image

Optional arguments:

-h, --help

show this help message and exit

--tags <tag> [<tag> ...]

Tag(s) to add [REQUIRED]

3.3.79. openstack dataprocessing image tags remove

```

usage: openstack dataprocessing image tags remove [-h]
{html,json,shell,table,value,yaml}]
<integer>]
...] |

[-c COLUMN]
[--max-width
[--noindent]
[--prefix PREFIX]
[--tags <tag> [<tag>
--all]
<image>

```

Remove image tags

Positional arguments:

<image>

Name or id of the image

Optional arguments:

-h, --help

show this help message and exit

--tags <tag> [<tag> ...]

Tag(s) to remove

--all

Remove all tags from image

3.3.80. openstack dataprocessing image tags set

```
usage: openstack dataprocessing image tags set [-h]
                                                [-f]
{html,json,shell,table,value,yaml}
                                                [-c COLUMN]
                                                [--max-width <integer>]
                                                [--noindent] [--prefix
PREFIX]
                                                --tags <tag> [<tag> ...]
<image>
```

Set image tags (Replace current image tags with provided ones)

Positional arguments:

<image>

Name or id of the image

Optional arguments:

-h, --help

show this help message and exit

--tags <tag> [<tag> ...]

Tag(s) to set [REQUIRED]

3.3.81. openstack dataprocessing image unregister

3.3.81. openstack dataprocessing image unregister

```
usage: openstack dataprocessing image unregister [-h] <image> [<image>
...]
```

Unregister image(s)

Positional arguments:

<image>

Name(s) or id(s) of the image(s) to unregister

Optional arguments:

-h, --help

show this help message and exit

3.3.82. openstack dataprocessing job binary create

```
usage: openstack dataprocessing job binary create [-h]
[-f {html,json,shell,table,value,yaml}]
[-c COLUMN]
[--max-width <integer>]
[--noindent]
[--prefix PREFIX]
[--name <name>]
[--data <file> | --description <description>]
[--username <username>]
[--password <password> | --password-prompt]
[--public] [--protected]
[--json <filename>]
```

Creates job binary

Optional arguments:

-h, --help

show this help message and exit

--name <name>

Name of the job binary [REQUIRED if JSON is not provided]

--data <file>

File that will be stored in the internal DB [REQUIRED if JSON and URL are not provided]

--url <url>

URL for the job binary [REQUIRED if JSON and file are not provided]

--description <description>

Description of the job binary

--username <username>

Username for accessing the job binary URL

--password <password>

Password for accessing the job binary URL

--password-prompt

Prompt interactively for password

--public

Make the job binary public

--protected

Make the job binary protected

--json <filename>

JSON representation of the job binary. Other arguments will not be taken into account if this one is provided

3.3.83. openstack dataprocessing job binary delete

```
usage: openstack dataprocessing job binary delete [-h]
                                                <job-binary>
                                                [<job-binary> ...]
```

Deletes job binary

Positional arguments:

<job-binary>

Name(s) or id(s) of the job binary(ies) to delete

Optional arguments:

-h, --help

show this help message and exit

3.3.84. openstack dataprocessing job binary download

```
usage: openstack dataprocessing job binary download [-h] [--file <file>]
                                                <job-binary>
```

Downloads job binary

Positional arguments:

<job-binary>

Name or ID of the job binary to download

Optional arguments:

-h, --help

show this help message and exit

--file <file>

Destination file (defaults to job binary name)

3.3.85. openstack dataprocessing job binary list

```
usage: openstack dataprocessing job binary list [-h]
```

```

{csv,html,json,table,value,yaml}]
                                [-f]
                                [-c COLUMN]
                                [--max-width]
<integer>]
                                [--noindent]
                                [--quote]
{all,minimal,none,nonnumeric}]
                                [--long]
                                [--name <name-
substring>]

```

Lists job binaries

Optional arguments:

-h, --help

show this help message and exit

--long

List additional fields in output

--name <name-substring>

List job binaries with specific substring in the name

3.3.86. openstack dataprocessing job binary show

```

usage: openstack dataprocessing job binary show [-h]
                                                [-f]
{html,json,shell,table,value,yaml}]
                                                [-c COLUMN]
                                                [--max-width]
<integer>]
                                                [--noindent] [--prefix
PREFIX]
                                                <job-binary>

```

Display job binary details

Positional arguments:

<job-binary>

Name or ID of the job binary to display

Optional arguments:**-h, --help**

show this help message and exit

3.3.87. openstack dataprocessing job binary update

```
usage: openstack dataprocessing job binary update [-h]
                                                    [-f
{html,json,shell,table,value,yaml}]
                                                    [-c COLUMN]
                                                    [--max-width
<integer>]
                                                    [--noindent]
                                                    [--prefix PREFIX]
                                                    [--name <name>]
                                                    [--url <url>]
                                                    [--description
<description>]
                                                    [--username
<username>]
                                                    [--password
<password> | --password-prompt]
                                                    [--public | --
private]
                                                    [--protected | --
unprotected]
                                                    [--json <filename>]
<job-binary>
```

Updates job binary

Positional arguments:**<job-binary>**

Name or ID of the job binary

Optional arguments:**-h, --help**

show this help message and exit

--name <name>

New name of the job binary

--url <url>

URL for the job binary [Internal DB URL can not be updated]

--description <description>

Description of the job binary

--username <username>

Username for accessing the job binary URL

--password <password>

Password for accessing the job binary URL

--password-prompt

Prompt interactively for password

--public

Make the job binary public (Visible from other tenants)

--private

Make the job binary private (Visible only from this tenant)

--protected

Make the job binary protected

--unprotected

Make the job binary unprotected

--json <filename>

JSON representation of the update object. Other arguments will not be taken into account if this one is provided

3.3.88. openstack dataprocessing job delete

```
usage: openstack dataprocessing job delete [-h] [--wait] <job> [<job>
...]
```

Deletes job

Positional arguments:**<job>**

ID(s) of the job(s) to delete

Optional arguments:**-h, --help**

show this help message and exit

--wait

Wait for the job(s) delete to complete

3.3.89. openstack dataprocessing job execute

```
usage: openstack dataprocessing job execute [-h]
                                           [-f
{html,json,shell,table,value,yaml}]
                                           [-c COLUMN]
                                           [--max-width <integer>]
                                           [--noindent] [--prefix
PREFIX]
                                           [--job-template <job-
template>]
                                           [--cluster <cluster>]
                                           [--input <input>]
                                           [--output <output>]
                                           [--params <name:value>
[<name:value> ...]]
                                           [--args <argument>
[<argument> ...]]
                                           [--public] [--protected]
                                           [--config-json <filename> |
--interface <filename>]
                                           [--json <filename>]
```

Executes job

Optional arguments:**-h, --help**

show this help message and exit

--job-template <job-template>

Name or ID of the job template [REQUIRED if JSON is not provided]

--cluster <cluster>

Name or ID of the cluster [REQUIRED if JSON is not provided]

--input <input>

Name or ID of the input data source

--output <output>

Name or ID of the output data source

--params <name:value> [<name:value> ...]

Parameters to add to the job

--args <argument> [<argument> ...]

Arguments to add to the job

--public

Make the job public

--protected

Make the job protected

--config-json <filename>

JSON representation of the job configs

--configs <name:value> [<name:value> ...]

Configs to add to the job

--interface <filename>

JSON representation of the interface

--json <filename>

JSON representation of the job. Other arguments will not be taken into account if this one is provided

3.3.90. openstack dataprocessing job list

```
usage: openstack dataprocessing job list [-h]
                                         [-f]
                                         {csv,html,json,table,value,yaml}
                                         [-c COLUMN] [--max-width
                                         <integer>]
                                         [--noindent]
                                         [--quote
                                         {all,minimal,none,nonnumeric}]
                                         [--long] [--status <status>]
```

Lists jobs

Optional arguments:

-h, --help

show this help message and exit

--long

List additional fields in output

--status <status>

List jobs with specific status

3.3.91. openstack dataprocessing job show

```
usage: openstack dataprocessing job show [-h]
                                         [-f]
                                         {html,json,shell,table,value,yaml}
                                         [-c COLUMN] [--max-width
                                         <integer>]
                                         [--noindent] [--prefix PREFIX]
                                         <job>
```

Display job details

Positional arguments:

<job>

ID of the job to display

Optional arguments:

-h, --help

show this help message and exit

3.3.92. openstack dataprocessing job template create

```
usage: openstack dataprocessing job template create [-h]
                                                    [-f
{html,json,shell,table,value,yaml}]
                                                    [-c COLUMN]
                                                    [--max-width
<integer>]
                                                    [--noindent]
                                                    [--prefix PREFIX]
                                                    [--name <name>]
                                                    [--type <type>]
                                                    [--mains <main>]
                                                    [--libs <lib>]
                                                    [--description
<description>]
                                                    [--public] [--
protected]
                                                    [--interface
<filename>]
                                                    [--json
<filename>]
```

Creates job template

Optional arguments:**-h, --help**

show this help message and exit

--name <name>

Name of the job template [REQUIRED if JSON is not provided]

--type <type>

Type of the job (Hive, Java, MapReduce, Storm, Pig, Shell, MapReduce.Streaming, Spark)
[REQUIRED if JSON is not provided]

--mains <main> [<main> ...]

Name(s) or ID(s) for job's main job binary(s)

--libs <lib> [<lib> ...]

Name(s) or ID(s) for job's lib job binary(s)

--description <description>

Description of the job template

--public

Make the job template public

--protected

Make the job template protected

--interface <filename>

JSON representation of the interface

--json <filename>

JSON representation of the job template

3.3.93. openstack dataprocessing job template delete

```
usage: openstack dataprocessing job template delete [-h]
                                                    <job-template>
                                                    [<job-template>
...]
```

Deletes job template

Positional arguments:

<job-template>

Name(s) or id(s) of the job template(s) to delete

Optional arguments:

-h, --help

show this help message and exit

3.3.94. openstack dataprocessing job template list

```
usage: openstack dataprocessing job template list [-h]
                                                [-f]
{csv,html,json,table,value,yaml}]
                                                [-c COLUMN]
                                                [--max-width
<integer>]
                                                [--noindent]
                                                [--quote
{all,minimal,none,nonnumeric}]
                                                [--long] [--type
<type>]
                                                [--name <name-
substring>]
```

Lists job templates

Optional arguments:

-h, --help

show this help message and exit

--long

List additional fields in output

--type <type>

List job templates of specific type

--name <name-substring>

List job templates with specific substring in the name

3.3.95. openstack dataprocessing job template show

```
usage: openstack dataprocessing job template show [-h]
                                                [-f]
{html,json,shell,table,value,yaml}]
                                                [-c COLUMN]
                                                [--max-width
<integer>]
                                                [--noindent]
                                                [--prefix PREFIX]
<job-template>
```

Display job template details

Positional arguments:**<job-template>**

Name or ID of the job template to display

Optional arguments:**-h, --help**

show this help message and exit

3.3.96. openstack dataprocessing job template update

```
usage: openstack dataprocessing job template update [-h]
                                                    [-f]
                                                    {html,json,shell,table,value,yaml}
                                                    [-c COLUMN]
                                                    [--max-width
<integer>]
                                                    [--noindent]
                                                    [--prefix PREFIX]
                                                    [--name <name>]
                                                    [--description
<description>]
                                                    [--public | --
private]
                                                    [--protected | --
unprotected]
                                                    <job-template>
```

Updates job template

Positional arguments:**<job-template>**

Name or ID of the job template

Optional arguments:**-h, --help**

show this help message and exit

--name <name>

New name of the job template

--description <description>

Description of the job template

--public

Make the job template public (Visible from other tenants)

--private

Make the job_template private (Visible only from this tenant)

--protected

Make the job template protected

--unprotected

Make the job template unprotected

3.3.97. openstack dataprocessing job type configs get

```
usage: openstack dataprocessing job type configs get [-h] [--file <file>]
<job-type>
```

Get job type configs

Positional arguments:

<job-type>

Type of the job to provide config information about

Optional arguments:

-h, --help

show this help message and exit

--file <file>

Destination file (defaults to job type)

3.3.98. openstack dataprocessing job type list

```
usage: openstack dataprocessing job type list [-h]
                                             [-f]
{csv,html,json,table,value,yaml}]
                                             [-c COLUMN]
                                             [--max-width <integer>]
                                             [--noindent]
                                             [--quote]
{all,minimal,none,nonnumeric}]
                                             [--type <type>]
                                             [--plugin <plugin>]
                                             [--plugin-version
<plugin_version>]
```

Lists job types supported by plugins

Optional arguments:

-h, --help

show this help message and exit

--type <type>

Get information about specific job type

--plugin <plugin>

Get only job types supported by this plugin

--plugin-version <plugin_version>

Get only job types supported by specific version of the plugin. This parameter will be taken into account only if plugin is provided

3.3.99. openstack dataprocessing job update

```
usage: openstack dataprocessing job update [-h]
                                             [-f]
{html,json,shell,table,value,yaml}]
                                             [-c COLUMN] [--max-width
<integer>]
                                             [--noindent] [--prefix
PREFIX]
                                             [--public | --private]
                                             [--protected | --
unprotected]
                                             <job>
```

Updates job

Positional arguments:

<job>

ID of the job to update

Optional arguments:

-h, --help

show this help message and exit

--public

Make the job public (Visible from other tenants)

--private

Make the job private (Visible only from this tenant)

--protected

Make the job protected

--unprotected

Make the job unprotected

3.3.100. openstack dataprocessing node group template create

```
usage: openstack dataprocessing node group template create [-h]
                                                           [-f
{html,json,shell,table,value,yaml}]
                                                           [-c COLUMN]
                                                           [--max-
width <integer>]
                                                           [--
noindent]
                                                           [--prefix
PREFIX]
                                                           [--name
<name>]
                                                           [--plugin
<plugin>]
                                                           [--plugin-
version <plugin_version>]
                                                           [--
```

```

processes <processes> [<processes> ...]]
                                [--flavor
<flavor>]
                                [--
security-groups <security-groups> [<security-groups> ...]]
                                [--auto-
security-group]
                                [--
availability-zone <availability-zone>]
                                [--
floating-ip-pool <floating-ip-pool>]
                                [--volumes-
per-node <volumes-per-node>]
                                [--volumes-
size <volumes-size>]
                                [--volumes-
type <volumes-type>]
                                [--volumes-
availability-zone <volumes-availability-zone>]
                                [--volumes-
mount-prefix <volumes-mount-prefix>]
                                [--volumes-
locality]
                                [--
description <description>]
                                [--
autoconfig]
                                [--proxy-
gateway]
                                [--public]
                                [--
protected]
                                [--json
<filename>]
                                [--shares
<filename>]
                                [--configs
<filename>]

```

Creates node group template

Optional arguments:

-h, --help

show this help message and exit

--name <name>

Name of the node group template [REQUIRED if JSON is not provided]

--plugin <plugin>

Name of the plugin [REQUIRED if JSON is not provided]

--plugin-version <plugin_version>

Version of the plugin [REQUIRED if JSON is not provided]

--processes <processes> [<processes> ...]

List of the processes that will be launched on each instance [REQUIRED if JSON is not provided]

--flavor <flavor>

Name or ID of the flavor [REQUIRED if JSON is not provided]

--security-groups <security-groups> [<security-groups> ...]

List of the security groups for the instances in this node group

--auto-security-group

Indicates if an additional security group should be created for the node group

--availability-zone <availability-zone>

Name of the availability zone where instances will be created

--floating-ip-pool <floating-ip-pool>

ID of the floating IP pool

--volumes-per-node <volumes-per-node>

Number of volumes attached to every node

--volumes-size <volumes-size>

Size of volumes attached to node (GB). This parameter will be taken into account only if volumes-per-node is set and non-zero

--volumes-type <volumes-type>

Type of the volumes. This parameter will be taken into account only if volumes-per-node is set and non-zero

--volumes-availability-zone <volumes-availability-zone>

Name of the availability zone where volumes will be created. This parameter will be taken

into account only if volumes-per-node is set and non-zero

--volumes-mount-prefix <volumes-mount-prefix>

Prefix for mount point directory. This parameter will be taken into account only if volumes-per-node is set and non-zero

--volumes-locality

If enabled, instance and attached volumes will be created on the same physical host. This parameter will be taken into account only if volumes-per-node is set and non-zero

--description <description>

Description of the node group template

--autoconfig

If enabled, instances of the node group will be automatically configured

--proxy-gateway

If enabled, instances of the node group will be used to access other instances in the cluster

--public

Make the node group template public (Visible from other tenants)

--protected

Make the node group template protected

--json <filename>

JSON representation of the node group template. Other arguments will not be taken into account if this one is provided

--shares <filename>

JSON representation of the manila shares

--configs <filename>

JSON representation of the node group template configs

3.3.101. openstack dataprocessing node group template delete

usage: openstack dataprocessing node group template delete [-h]

```
group-template>                                     <node-
group-template> ...]                                [<node-
```

Deletes node group template

Positional arguments:

<node-group-template>

Name(s) or id(s) of the node group template(s) to delete

Optional arguments:

-h, --help

show this help message and exit

3.3.102. openstack dataprocessing node group template list

```
usage: openstack dataprocessing node group template list [-h]
                                                         [-f
{csv,html,json,table,value,yaml}]
                                                         [-c COLUMN]
                                                         [--max-width
<integer>]
                                                         [--noindent]
                                                         [--quote
{all,minimal,none,nonnumeric}]
                                                         [--long]
                                                         [--plugin
<plugin>]
                                                         [--plugin-
version <plugin_version>]
                                                         [--name
<name-substring>]
```

Lists node group templates

Optional arguments:

-h, --help

show this help message and exit

--long

List additional fields in output

--plugin <plugin>

List node group templates for specific plugin

--plugin-version <plugin_version>

List node group templates with specific version of the plugin

--name <name-substring>

List node group templates with specific substring in the name

3.3.103. openstack dataprocessing node group template show

```
usage: openstack dataprocessing node group template show [-h]
                                                         [-f
{html,json,shell,table,value,yaml}]
                                                         [-c COLUMN]
                                                         [--max-width
<integer>]
                                                         [--noindent]
                                                         [--prefix
PREFIX]
                                                         <node-group-
template>
```

Display node group template details

Positional arguments:

<node-group-template>

Name or id of the node group template to display

Optional arguments:

-h, --help

show this help message and exit

3.3.104. openstack dataprocessing node group template update

```
usage: openstack dataprocessing node group template update [-h]
                                                         [-f
{html,json,shell,table,value,yaml}]
```



```

width <integer>]                                [-c COLUMN]
                                                    [--max-
noindent]                                       [--
PREFIX]                                         [--prefix
<name>]                                         [--name
<plugin>]                                       [--plugin
version <plugin_version>]                       [--plugin-
                                                    [--
processes <processes> [<processes> ...]]       [--
security-groups <security-groups> [<security-groups> ...]]
security-group-enable | --auto-security-group-disable]
                                                    [--
availability-zone <availability-zone>]          [--flavor
<flavor>]                                       [--
floating-ip-pool <floating-ip-pool>]            [--volumes-
per-node <volumes-per-node>]                   [--volumes-
size <volumes-size>]                           [--volumes-
type <volumes-type>]                           [--volumes-
availability-zone <volumes-availability-zone>]  [--volumes-
mount-prefix <volumes-mount-prefix>]           [--volumes-
locality-enable | --volumes-locality-disable]   [--
description <description>]                     [--
autoconfig-enable | --autoconfig-disable]      [--proxy-
gateway-enable | --proxy-gateway-disable]      [--public |
--private]                                       [--
protected | --unprotected]                     [--json
<filename>]                                     [--shares
<filename>]                                     [--configs
<filename>]                                     <node-
group-template>

```

Updates node group template

Positional arguments:

<node-group-template>

Name or ID of the node group template

Optional arguments:

-h, --help

show this help message and exit

--name <name>

New name of the node group template

--plugin <plugin>

Name of the plugin

--plugin-version <plugin_version>

Version of the plugin

--processes <processes> [<processes> ...]

List of the processes that will be launched on each instance

--security-groups <security-groups> [<security-groups> ...]

List of the security groups for the instances in this node group

--auto-security-group-enable

Additional security group should be created for the node group

--auto-security-group-disable

Additional security group should not be created for the node group

--availability-zone <availability-zone>

Name of the availability zone where instances will be created

--flavor <flavor>

Name or ID of the flavor

--floating-ip-pool <floating-ip-pool>

ID of the floating IP pool

--volumes-per-node <volumes-per-node>

Number of volumes attached to every node

--volumes-size <volumes-size>

Size of volumes attached to node (GB). This parameter will be taken into account only if volumes-per-node is set and non-zero

--volumes-type <volumes-type>

Type of the volumes. This parameter will be taken into account only if volumes-per-node is set and non-zero

--volumes-availability-zone <volumes-availability-zone>

Name of the availability zone where volumes will be created. This parameter will be taken into account only if volumes-per-node is set and non-zero

--volumes-mount-prefix <volumes-mount-prefix>

Prefix for mount point directory. This parameter will be taken into account only if volumes-per-node is set and non-zero

--volumes-locality-enable

Instance and attached volumes will be created on the same physical host. This parameter will be taken into account only if volumes-per-node is set and non-zero

--volumes-locality-disable

Instance and attached volumes creation on the same physical host will not be regulated. This parameter will be taken into account only if volumes-per-node is set and non-zero

--description <description>

Description of the node group template

--autoconfig-enable

Instances of the node group will be automatically configured

--autoconfig-disable

Instances of the node group will not be automatically configured

--proxy-gateway-enable

Instances of the node group will be used to access other instances in the cluster

--proxy-gateway-disable

Instances of the node group will not be used to access other instances in the cluster

--public

Make the node group template public (Visible from other tenants)

--private

Make the node group template private (Visible only from this tenant)

--protected

Make the node group template protected

--unprotected

Make the node group template unprotected

--json <filename>

JSON representation of the node group template update fields. Other arguments will not be taken into account if this one is provided

--shares <filename>

JSON representation of the manila shares

--configs <filename>

JSON representation of the node group template configs

3.3.105. openstack dataprocessing plugin configs get

```
usage: openstack dataprocessing plugin configs get [-h] [--file <file>]
<plugin_version> <plugin>
```

■

Get plugin configs

Positional arguments:

<plugin>

Name of the plugin to provide config information about

<plugin_version>

Version of the plugin to provide config information about

Optional arguments:

-h, --help

show this help message and exit

--file <file>

Destination file (defaults to plugin name)

3.3.106. openstack dataprocessing plugin list

```
usage: openstack dataprocessing plugin list [-h]
                                           [-f
{csv,html,json,table,value,yaml}]
                                           [-c COLUMN]
                                           [--max-width <integer>]
                                           [--noindent]
                                           [--quote
{all,minimal,none,nonnumeric}]
                                           [--long]
```

Lists plugins

Optional arguments:

-h, --help

show this help message and exit

--long

List additional fields in output

3.3.107. openstack dataprocessing plugin show

```
usage: openstack dataprocessing plugin show [-h]
                                           [-f
{html,json,shell,table,value,yaml}]
                                           [-c COLUMN]
                                           [--max-width <integer>]
                                           [--noindent] [--prefix
PREFIX]
                                           [--plugin-version
<plugin_version>]
                                           <plugin>
```

Display plugin details

Positional arguments:

<plugin>

Name of the plugin to display

Optional arguments:

-h, --help

show this help message and exit

--plugin-version <plugin_version>

Version of the plugin to display

3.3.108. openstack domain create

```
usage: openstack domain create [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                [--description <description>]
                                [--enable | --disable] [--or-show]
                                <domain-name>
```

Create new domain

Positional arguments:

<domain-name>

New domain name

Optional arguments:

-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

3.3.109. openstack domain delete

```
usage: openstack domain delete [-h] <domain>
```

Delete domain

Positional arguments:

<domain>

Domain to delete (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.110. openstack domain list

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

List domains

Optional arguments:

-h, --help

show this help message and exit

3.3.111. openstack domain set

```
usage: openstack domain set [-h] [--name <name>] [--description
<description>]
                             [--enable | --disable]
                             <domain>
```

Set domain properties

Positional arguments:

<domain>

Domain to modify (name or ID)

Optional arguments:

-h, --help

show this help message and exit

--name <name>

New domain name

--description <description>

New domain description

--enable

Enable domain

--disable

Disable domain

3.3.112. openstack domain show

```
usage: openstack domain show [-h] [-f {html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX]
                             <domain>
```

Display domain details

Positional arguments:

<domain>

Domain to display (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.113. openstack ec2 credentials create

```
usage: openstack ec2 credentials create [-h]
                                         [-f
{html,json,shell,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--noindent] [--prefix PREFIX]
                                         [--project <project>] [--user
<user>]
                                         [--user-domain <user-domain>]
                                         [--project-domain <project-
domain>]
```

Create EC2 credentials

Optional arguments:

-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.

3.3.114. openstack ec2 credentials delete

```
usage: openstack ec2 credentials delete [-h] [--user <user>]
                                         [--user-domain <user-domain>]
                                         <access-key>
```

Delete EC2 credentials

Positional arguments:

<access-key>

Credentials access key

Optional arguments:

-h, --help

show this help message and exit

--user <user>

Delete 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

Domain the user belongs to (name or ID). This can be used in case collisions between user names exist.

3.3.115. openstack ec2 credentials list

```
usage: openstack ec2 credentials list [-h]
                                     [-f]
                                     {csv,html,json,table,value,yaml}
                                     [-c COLUMN] [--max-width
                                     <integer>]
                                     [--noindent]
                                     [--quote
                                     {all,minimal,none,nonnumeric}]
                                     [--user <user>]
                                     [--user-domain <user-domain>]
```

List EC2 credentials

Optional arguments:

-h, --help

show this help message and exit

--user <user>

Filter 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.

3.3.116. openstack ec2 credentials show

```
usage: openstack ec2 credentials show [-h]
                                     [-f]
                                     {html,json,shell,table,value,yaml}
                                     [-c COLUMN] [--max-width
                                     <integer>]
                                     [--noindent] [--prefix PREFIX]
                                     [--user <user>]
                                     [--user-domain <user-domain>]
                                     <access-key>
```

Display EC2 credentials details

Positional arguments:

<access-key>

Credentials access key

Optional arguments:

-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.

3.3.117. openstack endpoint create

```
usage: openstack endpoint create [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                [--region <region-id>] [--enable | --
disable]
                                <service> <interface> <url>
```

Create new endpoint

Positional arguments:

<service>

New endpoint service (name or ID)

<interface>

New endpoint interface type (admin, public or internal)

<url>

New endpoint URL

Optional arguments:

-h, --help

show this help message and exit

--region <region-id>

New endpoint region ID

--enable

Enable endpoint (default)

--disable

Disable endpoint

3.3.118. openstack endpoint delete

```
usage: openstack endpoint delete [-h] <endpoint-id>
```

Delete endpoint

Positional arguments:

<endpoint-id>

Endpoint ID to delete

Optional arguments:

-h, --help

show this help message and exit

3.3.119. openstack endpoint list

```
usage: openstack endpoint list [-h] [-f {csv,html,json,table,value,yaml}]
                               [-c COLUMN] [--max-width <integer>]
                               [--noindent]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--service <service>] [--interface
<interface>]
                               [--region <region-id>]
```

List endpoints

Optional arguments:**-h, --help**

show this help message and exit

--service <service>

Filter by service

--interface <interface>

Filter by interface type (admin, public or internal)

--region <region-id>

Filter by region ID

3.3.120. openstack endpoint set

```
usage: openstack endpoint set [-h] [--region <region-id>]
                               [--interface <interface>] [--url <url>]
                               [--service <service>] [--enable | --
                               disable]
                               <endpoint-id>
```

Set endpoint properties

Positional arguments:**<endpoint-id>**

Endpoint ID to modify

Optional arguments:**-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)

--url <url>

New endpoint URL

--service <service>

New endpoint service (name or ID)

--enable

Enable endpoint

--disable

Disable endpoint

3.3.121. openstack endpoint show

```
usage: openstack endpoint show [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                <endpoint>
```

Display endpoint details

Positional arguments:

<endpoint>

Endpoint to display (endpoint ID, service ID, service name, service type)

Optional arguments:

-h, --help

show this help message and exit

3.3.122. openstack extension list

```
usage: openstack extension list [-h] [-f
{csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent]
```

```
[--quote {all,minimal,none,nonnumeric}]  
[--compute] [--identity] [--network]  
[--volume] [--long]
```

List API extensions

Optional arguments:

-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

3.3.123. openstack federation domain list

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

List accessible domains

Optional arguments:

-h, --help

show this help message and exit

3.3.124. openstack federation project list

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

List accessible projects

Optional arguments:

-h, --help

show this help message and exit

3.3.125. openstack federation protocol create

```
usage: openstack federation protocol create [-h]
                                         [-f]
                                         {html,json,shell,table,value,yaml}
                                         [-c COLUMN]
                                         [--max-width <integer>]
                                         [--noindent] [--prefix
                                         PREFIX]
                                         --identity-provider
                                         <identity-provider> --
                                         mapping
                                         <mapping>
                                         <name>
```

Create new federation protocol

Positional arguments:

<name>

New federation protocol name (must be unique per identity provider)

Optional arguments:

-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)

3.3.126. openstack federation protocol delete

```
usage: openstack federation protocol delete [-h] --identity-provider
<identity-provider>
<federation-protocol>
```

Delete federation protocol

Positional arguments:

<federation-protocol>

Federation protocol to delete (name or ID)

Optional arguments:

-h, --help

show this help message and exit

--identity-provider <identity-provider>

Identity provider that supports <federation-protocol> (name or ID) (required)

3.3.127. openstack federation protocol list

```
usage: openstack federation protocol list [-h]
                                         [-f]
                                         {csv,html,json,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--noindent]
```

```
{all,minimal,none,nonnumeric}]
```

```
[--quote
```

```
--identity-provider  
<identity-provider>
```

List federation protocols

Optional arguments:

-h, --help

show this help message and exit

--identity-provider <identity-provider>

Identity provider to list (name or ID) (required)

3.3.128. openstack federation protocol set

```
usage: openstack federation protocol set [-h] --identity-provider  
      <identity-provider>  
      [--mapping <mapping>]  
      <name>
```

Set federation protocol properties

Positional arguments:

<name>

Federation protocol to modify (name or ID)

Optional arguments:

-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)

3.3.129. openstack federation protocol show

```
usage: openstack federation protocol show [-h]
                                         [-f
{html,json,shell,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--noindent] [--prefix
PREFIX]
                                         --identity-provider
                                         <identity-provider>
                                         <federation-protocol>
```

Display federation protocol details

Positional arguments:

<federation-protocol>

Federation protocol to display (name or ID)

Optional arguments:

-h, --help

show this help message and exit

--identity-provider <identity-provider>

Identity provider that supports <federation-protocol> (name or ID) (required)

3.3.130. openstack flavor create

```
usage: openstack flavor create [-h] [-f
{html,json,shell,table,value,yaml}]
                               [-c COLUMN] [--max-width <integer>]
                               [--noindent] [--prefix PREFIX] [--id
<id>]
                               [--ram <size-mb>] [--disk <size-gb>]
                               [--ephemeral <size-gb>] [--swap <size-
gb>]
                               [--vcpus <vcpus>] [--rxtx-factor
<factor>]
                               [--public | --private]
                               <flavor-name>
```

Create new flavor

Positional arguments:**<flavor-name>**

New flavor name

Optional arguments:**-h, --help**

show this help message and exit

--id <id>

Unique flavor ID; 'auto' 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-gb>

Swap space size in GB (default 0G)

--vcpus <vcpus>

Number of vcpus (default 1)

--rxtx-factor <factor>

RX/TX factor (default 1.0)

--public

Flavor is available to other projects (default)

--private

Flavor is not available to other projects

Flavor is not available to other projects

3.3.131. openstack flavor delete

```
usage: openstack flavor delete [-h] <flavor>
```

Delete flavor

Positional arguments:

<flavor>

Flavor to delete (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.132. openstack flavor list

```
usage: openstack flavor list [-h] [-f {csv,html,json,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--public | --private | --all] [--long]
                             [--marker <marker>] [--limit <limit>]
```

List flavors

Optional arguments:

-h, --help

show this help message and exit

--public

List only public flavors (default)

--private

List only private flavors

--all

List all flavors, whether public or private

--long

List additional fields in output

--marker <marker>

The last flavor ID of the previous page

--limit <limit>

Maximum number of flavors to display

3.3.133. openstack flavor set

```
usage: openstack flavor set [-h] [--property <key=value>]
                             [--project <project>]
                             [--project-domain <project-domain>]
                             <flavor>
```

Set flavor properties

Positional arguments:

<flavor>

Flavor to modify (name or ID)

Optional arguments:

-h, --help

show this help message and exit

--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)

--project-domain <project-domain>

Domain the project belongs to (name or ID). This can be used in case collisions between project names exist.

3.3.134. openstack flavor show

```
usage: openstack flavor show [-h] [-f {html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX]
                             <flavor>
```

Display flavor details

Positional arguments:

<flavor>

Flavor to display (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.135. openstack flavor unset

```
usage: openstack flavor unset [-h] [--property <key>] [--project
<project>]
                             [--project-domain <project-domain>]
                             <flavor>
```

Unset flavor properties

Positional arguments:

<flavor>

Flavor to modify (name or ID)

Optional arguments:

-h, --help

show this help message and exit

--property <key>

Property to remove from flavor (repeat option to unset multiple properties)

--project <project>

Remove flavor access from 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.

3.3.136. openstack group add user

```
usage: openstack group add user [-h] [--group-domain <group-domain>]
                                [--user-domain <user-domain>]
                                <group> <user>
```

Add user to group

Positional arguments:

<group>

Group to contain <user> (name or ID)

<user>

User to add to <group> (name or ID)

Optional arguments:

-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.

3.3.137. openstack group contains user

```
usage: openstack group contains user [-h] [--group-domain <group-domain>]
                                     [--user-domain <user-domain>]
                                     <group> <user>
```

Check user membership in group

Positional arguments:

<group>

Group to check (name or ID)

<user>

User to check (name or ID)

Optional arguments:

-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.

3.3.138. openstack group create

```
usage: openstack group create [-h] [-f
{html,json,shell,table,value,yaml}]
                              [-c COLUMN] [--max-width <integer>] [--
noindent]
                              [--prefix PREFIX] [--domain <domain>]
                              [--description <description>] [--or-show
<group-name>
```

Create new group

Positional arguments:

<group-name>

New group name

Optional arguments:

-h, --help

show this help message and exit

--domain <domain>

Domain to contain new group (name or ID)

--description <description>

New group description

--or-show

Return existing group

3.3.139. openstack group delete

```
usage: openstack group delete [-h] [--domain <domain>] <group> [<group>
...]
```

Delete group(s)

Positional arguments:

<group>

Group(s) to delete (name or ID)

Optional arguments:

-h, --help

show this help message and exit

--domain <domain>

Domain containing group(s) (name or ID)

3.3.140. openstack group list

```
usage: openstack group list [-h] [-f {csv,html,json,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--domain <domain>] [--user <user>]
                             [--user-domain <user-domain>] [--long]
```

List groups

Optional arguments:

-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

3.3.141. openstack group remove user

```
usage: openstack group remove user [-h] [--group-domain <group-domain>]
                                     [--user-domain <user-domain>]
                                     <group> <user>
```

Remove user from group

Positional arguments:

<group>

Group containing <user> (name or ID)

<user>

User to remove from <group> (name or ID)

Optional arguments:

-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.

3.3.142. openstack group set

```
usage: openstack group set [-h] [--domain <domain>] [--name <name>]
                           [--description <description>]
                           <group>
```

Set group properties

Positional arguments:

<group>

Group to modify (name or ID)

Optional arguments:

-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

3.3.143. openstack group show

```
usage: openstack group show [-h] [-f {html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX] [--domain <domain>]
                             <group>
```

Display group details

Positional arguments:

<group>

Group to display (name or ID)

Optional arguments:

-h, --help

show this help message and exit

--domain <domain>

Domain containing <group> (name or ID)

3.3.144. openstack host list

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

List host command

Optional arguments:

-h, --help

show this help message and exit

--zone <zone>

Only return hosts in the availability zone

3.3.145. openstack host show

```
usage: openstack host show [-h] [-f {csv,html,json,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--quote {all,minimal,none,nonnumeric}]
                             <host>
```

Show host command

Positional arguments:

<host>

Name of host

Optional arguments:

-h, --help

show this help message and exit

3.3.146. openstack hypervisor list

```
usage: openstack hypervisor list [-h] [-f
{csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent]
                                [--quote
{all,minimal,none,nonnumeric}]
                                [--matching <hostname>]
```

List hypervisors

Optional arguments:

-h, --help

show this help message and exit

--matching <hostname>

Filter hypervisors using <hostname> substring

3.3.147. openstack hypervisor show

```
usage: openstack hypervisor show [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                <hypervisor>
```

Display hypervisor details

Positional arguments:

<hypervisor>

Hypervisor to display (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.148. openstack hypervisor stats show

```
usage: openstack hypervisor stats show [-h]
                                         [-f
{html,json,shell,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--noindent] [--prefix PREFIX]
```

Display hypervisor stats details

Optional arguments:

-h, --help

show this help message and exit

3.3.149. openstack identity provider create


```
usage: openstack identity provider create [-h]
                                         [-f
{html,json,shell,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--noindent] [--prefix
PREFIX]
                                         [--remote-id <remote-id> | --
remote-id-file <file-name>]
                                         [--description <description>]
                                         [--enable | --disable]
                                         <name>
```

Create new identity provider

Positional arguments:

<name>

New identity provider name (must be unique)

Optional arguments:

-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

--enable

Enable identity provider (default)

--disable

Disable the identity provider

3.3.150. openstack identity provider delete

```
usage: openstack identity provider delete [-h] <identity-provider>
```

Delete identity provider

Positional arguments:

<identity-provider>

Identity provider to delete

Optional arguments:

-h, --help

show this help message and exit

3.3.151. openstack identity provider list

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

List identity providers

Optional arguments:

-h, --help

show this help message and exit

3.3.152. openstack identity provider set

```
usage: openstack identity provider set [-h] [--description <description>]
                                         [--remote-id <remote-id> | --
remote-id-file <file-name>]
                                         [--enable | --disable]
                                         <identity-provider>
```

Set identity provider properties

Positional arguments:**<identity-provider>**

Identity provider to modify

Optional arguments:**-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)

--remote-id-file <file-name>

Name of a file that contains many remote IDs to associate with the identity provider, one per line

--enable

Enable the identity provider

--disable

Disable the identity provider

3.3.153. openstack identity provider show

```
usage: openstack identity provider show [-h]
                                         [-f]
                                         {html,json,shell,table,value,yaml}
                                         [-c COLUMN] [--max-width
                                         <integer>]
                                         [--noindent] [--prefix PREFIX]
                                         <identity-provider>
```

Display identity provider details

Positional arguments:

<identity-provider>

Identity provider to display

Optional arguments:**-h, --help**

show this help message and exit

3.3.154. openstack image add project

```
usage: openstack image add project [-h]
                                   [-f {html,json,shell,table,value,yaml}]
                                   [-c COLUMN] [--max-width <integer>]
                                   [--noindent] [--prefix PREFIX]
                                   [--project-domain <project-domain>]
                                   <image> <project>
```

Associate project with image

Positional arguments:**<image>**

Image to share (name or ID)

<project>

Project to associate with image (name or ID)

Optional arguments:**-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.

3.3.155. openstack image create

```
usage: openstack image create [-h] [-f
```

```
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>] [--
noindent]
                                [--prefix PREFIX] [--id <id>]
                                [--container-format <container-format>]
                                [--disk-format <disk-format>]
                                [--min-disk <disk-gb>] [--min-ram <ram-
mb>]
                                [--file <file>] [--volume <volume>] [--
force]
                                [--protected | --unprotected]
                                [--public | --private] [--property
<key=value>]
                                [--tag <tag>] [--project <project>]
                                [--project-domain <project-domain>]
                                <image-name>
```

Create/upload an image

Positional arguments:

<image-name>

New image name

Optional arguments:

-h, --help

show this help message and exit

--id <id>

Image ID to reserve

--container-format <container-format>

Image container format (default: bare)

--disk-format <disk-format>

Image disk format (default: 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)

--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)

--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)

--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.

2.2.156 openstack image delete

3.3.156. openstack image delete

```
usage: openstack image delete [-h] <image> [<image> ...]
```

Delete image(s)

Positional arguments:

<image>

Image(s) to delete (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.157. openstack image list

```
usage: openstack image list [-h] [-f {csv,html,json,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--public | --private | --shared]
                             [--property <key=value>] [--long]
                             [--sort <key>[:<direction>]] [--limit
<limit>]
                             [--marker <marker>]
```

List available images

Optional arguments:

-h, --help

show this help message and exit

--public

List only public images

--private

List only private images

--shared

List only shared images

--property <key=value>

Filter output based on property

--long

List additional fields in output

--sort <key>[:<direction>]

Sort output by selected keys and directions(asc or desc) (default: asc), multiple keys and directions can be specified separated by comma

--limit <limit>

Maximum number of images to display.

--marker <marker>

The last image (name or ID) of the previous page. Display list of images after marker. Display all images if not specified.

3.3.158. openstack image remove project

```
usage: openstack image remove project [-h] [--project-domain <project-  
domain>]                                     <image> <project>
```

Disassociate project with image

Positional arguments:**<image>**

Image to unshare (name or ID)

<project>

Project to disassociate with image (name or ID)

Optional arguments:

-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.

3.3.159. openstack image save

```
usage: openstack image save [-h] [--file <filename>] <image>
```

Save an image locally

Positional arguments:

<image>

Image to save (name or ID)

Optional arguments:

-h, --help

show this help message and exit

--file <filename>

Downloaded image save filename (default: stdout)

3.3.160. openstack image set

```
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] [--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>]  
                                <image>
```

Set image properties

Positional arguments:

<image>

Image to modify (name or ID)

Optional arguments:

-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 (default: bare)

--disk-format <disk-format>

Image disk format (default: raw)

--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)

--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.

3.3.161. openstack image show

```
usage: openstack image show [-h] [-f {html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX]
                             <image>
```

Display image details

Positional arguments:

<image>

Image to display (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.162. openstack ip fixed add

```
usage: openstack ip fixed add [-h] <network> <server>
```

Add fixed IP address to server

Positional arguments:

<network>

Network to fetch an IP address from (name or ID)

<server>

Server to receive the IP address (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.163. openstack ip fixed remove

```
usage: openstack ip fixed remove [-h] <ip-address> <server>
```

Remove fixed IP address from server

Positional arguments:

<ip-address>

IP address to remove from server (name only)

<server>

Server to remove the IP address from (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.164. openstack ip floating add

```
usage: openstack ip floating add [-h] <ip-address> <server>
```

Add floating IP address to server

Positional arguments:

<ip-address>

IP address to add to server (name only)

<server>

Server to receive the IP address (name or ID)

Optional arguments:**-h, --help**

show this help message and exit

3.3.165. openstack ip floating create

```
usage: openstack ip floating create [-h]
                                   [-f {html,json,shell,table,value,yaml}]
                                   [-c COLUMN] [--max-width <integer>]
                                   [--noindent] [--prefix PREFIX]
                                   <network>
```

Create floating IP

Positional arguments:**<network>**

Network to allocate floating IP from (name or ID)

Optional arguments:**-h, --help**

show this help message and exit

3.3.166. openstack ip floating delete

```
usage: openstack ip floating delete [-h] <floating-ip>
```

Delete floating IP

Positional arguments:**<floating-ip>**

Floating IP to delete (IP address or ID)

Optional arguments:**-h, --help**

show this help message and exit

3.3.167. openstack ip floating list

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

List floating IP(s)

Optional arguments:

-h, --help

show this help message and exit

3.3.168. openstack ip floating pool list

```
usage: openstack ip floating pool list [-h]
                                        [-f
{csv,html,json,table,value,yaml}]
                                        [-c COLUMN] [--max-width
<integer>]
                                        [--noindent]
                                        [--quote
{all,minimal,none,nonnumeric}]
```

List pools of floating IP addresses

Optional arguments:

-h, --help

show this help message and exit

3.3.169. openstack ip floating remove

```
usage: openstack ip floating remove [-h] <ip-address> <server>
```

Remove floating IP address from server

Positional arguments:

<ip-address>

IP address to remove from server (name only)

<server>

Server to remove the IP address from (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.170. openstack ip floating show

```
usage: openstack ip floating show [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                <floating-ip>
```

Show floating IP details

Positional arguments:

<floating-ip>

Floating IP to display (IP address or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.171. openstack keypair create

```
usage: openstack keypair create [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                [--public-key <file>]
                                <name>
```

Create new public key

Positional arguments:**<name>**

New public key name

Optional arguments:**-h, --help**

show this help message and exit

--public-key <file>

Filename for public key to add

3.3.172. openstack keypair delete**usage:** openstack keypair delete [-h] <key>

Delete public key

Positional arguments:**<key>**

Public key to delete (name only)

Optional arguments:**-h, --help**

show this help message and exit

3.3.173. openstack keypair list**usage:** openstack keypair list [-h] [-f {csv,html,json,table,value,yaml}]
[-c COLUMN] [--max-width <integer>] [--noindent]
[--quote {all,minimal,none,nonnumeric}]

List public key fingerprints

Optional arguments:

-h, --help

show this help message and exit

3.3.174. openstack keypair show

```
usage: openstack keypair show [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>] [--
noindent]
                                [--prefix PREFIX] [--public-key]
                                <key>
```

Display public key details

Positional arguments:

<key>

Public key to display (name only)

Optional arguments:

-h, --help

show this help message and exit

--public-key

Show only bare public key

3.3.175. openstack limits show

```
usage: openstack limits show [-h] [-f {csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>] [--
noindent]
                                [--quote {all,minimal,none,nonnumeric}]
                                (--absolute | --rate) [--reserved]
                                [--project <project>] [--domain <domain>]
```

Show compute and block storage limits

Optional arguments:

-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]

3.3.176. openstack mapping create

```
usage: openstack mapping create [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX] --rules
                                <filename>
                                <name>
```

Create new mapping

Positional arguments:

<name>

New mapping name (must be unique)

Optional arguments:

-h, --help

show this help message and exit

--rules <filename>

Filename that contains a set of mapping rules (required)

3.3.177. openstack mapping delete

```
usage: openstack mapping delete [-h] <mapping>
```

Delete mapping

Positional arguments:

<mapping>

Mapping to delete

Optional arguments:

-h, --help

show this help message and exit

3.3.178. openstack mapping list

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

List mappings

Optional arguments:

-h, --help

show this help message and exit

3.3.179. openstack mapping set

```
usage: openstack mapping set [-h] [--rules <filename>] <name>
```

Set mapping properties

Positional arguments:

<name>

Mapping to modify

Optional arguments:

-h, --help

show this help message and exit

--rules <filename>

Filename that contains a new set of mapping rules

3.3.180. openstack mapping show

```
usage: openstack mapping show [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>] [--
noindent]
                                [--prefix PREFIX]
                                <mapping>
```

Display mapping details

Positional arguments:

<mapping>

Mapping to display

Optional arguments:

-h, --help

show this help message and exit

3.3.181. openstack module list

```
usage: openstack module list [-h] [-f {html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>] [--
noindent]
                                [--prefix PREFIX] [--all]
```

List module versions

Optional arguments:

-h, --help

show this help message and exit

--all

Show all modules that have version information

3.3.182. openstack network create

```
usage: openstack network create [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                [--share | --no-share] [--subnet
<subnet>]
                                <name>
```

Create new network

Positional arguments:

<name>

New network name

Optional arguments:

-h, --help

show this help message and exit

--share

Share the network between projects

--no-share

Do not share the network between projects

--subnet <subnet>

IPv4 subnet for fixed IPs (in CIDR notation)

3.3.183. openstack network delete

```
usage: openstack network delete [-h] <network> [<network> ...]
```

Delete network(s)

Positional arguments:

<network>

Network(s) to delete (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.184. openstack network list

```
usage: openstack network list [-h] [-f {csv,html,json,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--external] [--long]
```

List networks

Optional arguments:

-h, --help

show this help message and exit

--external

List external networks

--long

List additional fields in output

3.3.185. openstack network set

```
usage: openstack network set [-h] [--name <name>] [--enable | --disable]
                             [--share | --no-share] [--external | --
internal]
```

```
type>]                                [--default | --no-default]
                                       [--provider-network-type <provider-network-
physical-network>]                    [--provider-physical-network <provider-
                                       [--provider-segment <provider-segment>]
vlan]                                [--transparent-vlan | --no-transparent-
                                       <network>
```

Set network properties

Positional arguments:

<network>

Network to modify (name or ID)

Optional arguments:

-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

--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

--provider-network-type <provider-network-type>

The physical mechanism by which the virtual network is implemented. The supported options are: flat, gre, local, vlan, vxlan

--provider-physical-network <provider-physical-network>

Name of the physical network over which the virtual network is implemented

--provider-segment <provider-segment>

VLAN ID for VLAN networks or Tunnel ID for GRE/VXLAN networks

--transparent-vlan

Make the network VLAN transparent

--no-transparent-vlan

Do not make the network VLAN transparent

3.3.186. openstack network show

```
usage: openstack network show [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>] [--
noindent]
                                [--prefix PREFIX]
                                <network>
```

Show network details

Positional arguments:

<network>

Network to display (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.187. openstack object create

```
usage: openstack object create [-h] [-f {csv,html,json,table,value,yaml}]
                               [-c COLUMN] [--max-width <integer>]
                               [--noindent]
                               [--quote {all,minimal,none,nonnumeric}]
                               <container> <filename> [<filename> ...]
```

Upload object to container

Positional arguments:

<container>

Container for new object

<filename>

Local filename(s) to upload

Optional arguments:

-h, --help

show this help message and exit

3.3.188. openstack object delete

```
usage: openstack object delete [-h] <container> <object> [<object> ...]
```

Delete object from container

Positional arguments:

<container>

Delete object(s) from <container>

<object>

Object(s) to delete

Optional arguments:

-h, --help

show this help message and exit

3.3.189. openstack object list

```
usage: openstack object list [-h] [-f {csv,html,json,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--prefix <prefix>] [--delimiter
<delimiter>]
                             [--marker <marker>] [--end-marker <end-
marker>]
                             [--limit <limit>] [--long] [--all]
                             <container>
```

List objects

Positional arguments:

<container>

Container to list

Optional arguments:

-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 <limit>

Limit the number of objects returned

--long

List additional fields in output

--all

List all objects in container (default is 10000)

3.3.190. openstack object save

```
usage: openstack object save [-h] [--file <filename>] <container>
<object>
```

Save object locally

Positional arguments:

<container>

Download <object> from <container>

<object>

Object to save

Optional arguments:

-h, --help

show this help message and exit

--file <filename>

Destination filename (defaults to object name)

3.3.191. openstack object set

```
usage: openstack object set [-h] --property <key=value> <container>
<object>
```

Set object properties

Positional arguments:

<container>

Modify <object> from <container>

<object>

Object to modify

Optional arguments:

-h, --help

show this help message and exit

--property <key=value>

Set a property on this object (repeat option to set multiple properties)

3.3.192. openstack object show

```
usage: openstack object show [-h] [-f {html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX]
                             <container> <object>
```

Display object details

Positional arguments:

<container>

Display <object> from <container>

<object>

Object to display

Optional arguments:**-h, --help**

show this help message and exit

3.3.193. openstack object store account set

```
usage: openstack object store account set [-h] --property <key=value>
```

Set account properties

Optional arguments:**-h, --help**

show this help message and exit

--property <key=value>

Set a property on this account (repeat option to set multiple properties)

3.3.194. openstack object store account show

```
usage: openstack object store account show [-h]
                                           [-f
{html,json,shell,table,value,yaml}]
                                           [-c COLUMN] [--max-width
<integer>]
                                           [--noindent] [--prefix
PREFIX]
```

Display account details

Optional arguments:**-h, --help**

show this help message and exit

3.3.195. openstack object store account unset

```
usage: openstack object store account unset [-h] --property <key>
```

Unset account properties

Optional arguments:

-h, --help

show this help message and exit

--property <key>

Property to remove from account (repeat option to remove multiple properties)

3.3.196. openstack object unset

```
usage: openstack object unset [-h] --property <key> <container> <object>
```

Unset object properties

Positional arguments:

<container>

Modify <object> from <container>

<object>

Object to modify

Optional arguments:

-h, --help

show this help message and exit

--property <key>

Property to remove from object (repeat option to remove multiple properties)

3.3.197. openstack orchestration build info

```
usage: openstack orchestration build info [-h]
                                           [-f]
```

```
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width
<integer>]
                                [--noindent] [--prefix
PREFIX]
```

Retrieve build information.

Optional arguments:

-h, --help

show this help message and exit

3.3.198. openstack orchestration resource type list

```
usage: openstack orchestration resource type list [-h]
                                                [-f]
{csv,html,json,table,value,yaml}]
                                                [-c COLUMN]
                                                [--max-width
<integer>]
                                                [--noindent]
                                                [--quote
{all,minimal,none,nonnumeric}]
                                                [--filter
<key=value>]
```

List resource types.

Optional arguments:

-h, --help

show this help message and exit

--filter <key=value>

Filter parameters to apply on returned resource types. This can be specified multiple times. It can be any of name, version or support_status

3.3.199. openstack orchestration resource type show

```
usage: openstack orchestration resource type show [-h]
                                                [-f]
{html,json,shell,table,value,yaml}]
                                                [-c COLUMN]
                                                [--max-width
```



```

<integer>]
                                [--noindent]
                                [--prefix PREFIX]
                                [--template-type
<template-type>]
                                <resource-type>

```

Show details and optionally generate a template for a resource type.

Positional arguments:

<resource-type>

Resource type to show details for

Optional arguments:

-h, --help

show this help message and exit

--template-type <template-type>

Optional template type to generate, hot or cfn

3.3.200. openstack orchestration service list

```

usage: openstack orchestration service list [-h]
                                           [-f]
{csv,html,json,table,value,yaml}]
                                           [-c COLUMN]
                                           [--max-width <integer>]
                                           [--noindent]
                                           [--quote
{all,minimal,none,nonnumeric}]

```

List the Heat engines.

Optional arguments:

-h, --help

show this help message and exit

3.3.201. openstack orchestration template function list

```
usage: openstack orchestration template function list [-h]
                                                    [-f]
{csv,html,json,table,value,yaml}]
                                                    [-c COLUMN]
                                                    [--max-width
<integer>]
                                                    [--noindent]
                                                    [--quote
{all,minimal,none,nonnumeric}]
                                                    <template-
version>
```

List the available functions.

Positional arguments:

<template-version>

Template version to get the functions for

Optional arguments:

-h, --help

show this help message and exit

3.3.202. openstack orchestration template validate

```
usage: openstack orchestration template validate [-h]
                                                    [-f]
{html,json,shell,table,value,yaml}]
                                                    [-c COLUMN]
                                                    [--max-width
<integer>]
                                                    [--noindent]
                                                    [--prefix PREFIX] -t
<environment>]
                                                    <template> [-e]
                                                    [--show-nested]
                                                    [--parameter
<key=value>]
                                                    [--ignore-errors
<error1,error2,...>]
```

Validate a template

Optional arguments:

-h, --help

show this help message and exit

-t <template>, --template <template>

Path to the template

-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

3.3.203. openstack orchestration template version list

```
usage: openstack orchestration template version list [-h]
                                                    [-f]
{csv,html,json,table,value,yaml}]
                                                    [-c COLUMN]
                                                    [--max-width
<integer>]
                                                    [--noindent]
                                                    [--quote
{all,minimal,none,nonnumeric}]
```

List the available template versions.

Optional arguments:

-h, --help

show this help message and exit

3.3.204. openstack policy create

```
usage: openstack policy create [-h] [-f]
```

```
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX] [--type
<type>]
                                <filename>
```

Create new policy

Positional arguments:

<filename>

New serialized policy rules file

Optional arguments:

-h, --help

show this help message and exit

--type <type>

New MIME type of the policy rules file (defaults to application/json)

3.3.205. openstack policy delete

```
usage: openstack policy delete [-h] <policy>
```

Delete policy

Positional arguments:

<policy>

Policy to delete

Optional arguments:

-h, --help

show this help message and exit

3.3.206. openstack policy list

```
usage: openstack policy list [-h] [-f {csv,html,json,table,value,yaml}]
```

```
noindent] [-c COLUMN] [--max-width <integer>] [--
long] [--quote {all,minimal,none,nonnumeric}] [--
```

List policies

Optional arguments:

-h, --help

show this help message and exit

--long

List additional fields in output

3.3.207. openstack policy set

```
usage: openstack policy set [-h] [--type <type>] [--rules <filename>]
<policy>
```

Set policy properties

Positional arguments:

<policy>

Policy to modify

Optional arguments:

-h, --help

show this help message and exit

--type <type>

New MIME type of the policy rules file

--rules <filename>

New serialized policy rules file

3.3.208. openstack policy show

```
usage: openstack policy show [-h] [-f {html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX]
                             <policy>
```

Display policy details

Positional arguments:

<policy>

Policy to display

Optional arguments:

-h, --help

show this help message and exit

3.3.209. openstack pool create

```
usage: openstack pool create [-h] [-f {html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX] [--pool_group
<pool_group>]
                             [--pool_options <pool_options>]
                             <pool_name> <pool_uri> <pool_weight>
```

Create a pool

Positional arguments:

<pool_name>

Name of the pool

<pool_uri>

Storage engine URI

<pool_weight>

weight of the pool

Optional arguments:**-h, --help**

show this help message and exit

--pool_group <pool_group>

Group of the pool

--pool_options <pool_options>

An optional request component related to storage-specific options

3.3.210. openstack pool delete

```
usage: openstack pool delete [-h] <pool_name>
```

Delete a pool

Positional arguments:**<pool_name>**

Name of the pool

Optional arguments:**-h, --help**

show this help message and exit

3.3.211. openstack pool list

```
usage: openstack pool list [-h] [-f {csv,html,json,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--marker <pool_name>] [--limit <limit>]
                             [--detailed <detailed>]
```

List available Pools

Optional arguments:

-h, --help

show this help message and exit

--marker <pool_name>

Pool's paging marker

--limit <limit>

Page size limit

--detailed <detailed>

Detailed output

3.3.212. openstack pool show

```
usage: openstack pool show [-h] [-f {html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX]
                             <pool_name>
```

Display pool details

Positional arguments:

<pool_name>

Pool to display (name)

Optional arguments:

-h, --help

show this help message and exit

3.3.213. openstack pool update

```
usage: openstack pool update [-h] [-f {html,json,shell,table,value,yaml}]
                              [-c COLUMN] [--max-width <integer>] [--
noindent]
                              [--prefix PREFIX] [--pool-uri <pool_uri>]
```



```
[--pool_weight <pool_weight>]
[--pool_group <pool_group>]
[--pool_options <pool_options>]
<pool_name>
```

Update a pool attribute

Positional arguments:

<pool_name>

Name of the pool

Optional arguments:

-h, --help

show this help message and exit

--pool_uri <pool_uri>

Storage engine URI

--pool_weight <pool_weight>

Weight of the pool

--pool_group <pool_group>

Group of the pool

--pool_options <pool_options>

An optional request component related to storage-specific options

3.3.214. openstack port delete

```
usage: openstack port delete [-h] <port> [<port> ...]
```

Delete port(s)

Positional arguments:

<port>

Port(s) to delete (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.215. openstack port show

```
usage: openstack port show [-h] [-f {html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX]
                             <port>
```

Display port details

Positional arguments:

<port>

Port to display (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.216. openstack project create

```
usage: openstack project create [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                [--domain <domain>] [--parent
<project>]
                                [--description <description>]
                                [--enable | --disable]
                                [--property <key=value>] [--or-show]
                                <project-name>
```

Create new project

Positional arguments:

<project-name>

New project name

Optional arguments:

-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

3.3.217. openstack project delete

```
usage: openstack project delete [-h] [--domain <domain>]
                                <project> [<project> ...]
```

Delete project(s)

Positional arguments:

<project>

Project(s) to delete (name or ID)

Optional arguments:**-h, --help**

show this help message and exit

--domain <domain>

Domain owning <project> (name or ID)

3.3.218. openstack project list

```
usage: openstack project list [-h] [-f {csv,html,json,table,value,yaml}]
                               [-c COLUMN] [--max-width <integer>] [--
noindent]
                               [--quote {all,minimal,none,nonnumeric}]
                               [--domain <domain>] [--user <user>] [--
long]
```

List projects

Optional arguments:**-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)

--long

List additional fields in output

3.3.219. openstack project set

```
usage: openstack project set [-h] [--name <name>] [--domain <domain>]
```

```

[--description <description>]
[--enable | --disable] [--property
<key=value>]
<project>

```

Set project properties

Positional arguments:

<project>

Project to modify (name or ID)

Optional arguments:

-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)

3.3.220. openstack project show

```
usage: openstack project show [-h] [-f]
```

```
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>] [--
noindent]
                                [--prefix PREFIX] [--domain <domain>]
                                [--parents] [--children]
                                <project>
```

Display project details

Positional arguments:

<project>

Project to display (name or ID)

Optional arguments:

-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

3.3.221. openstack ptr record list

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

List floatingip ptr records

Optional arguments:

-h, --help

show this help message and exit

3.3.222. openstack ptr record set

```
usage: openstack ptr record set [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                [--description DESCRIPTION | --no-
description]
                                [--ttl TTL | --no-ttl]
floatingip_id ptrdname
```

Set floatingip ptr record

Positional arguments:

floatingip_id

Floating IP ID

ptrdname

PTRD Name

Optional arguments:

-h, --help

show this help message and exit

--description DESCRIPTION

Description

--no-description

--ttl TTL

TTL

--no-ttl

3.3.223. openstack ptr record show

```
usage: openstack ptr record show [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                floatingip_id
```

Show floatingip ptr record details

Positional arguments:

floatingip_id

Floating IP ID

Optional arguments:

-h, --help

show this help message and exit

3.3.224. openstack ptr record unset

```
usage: openstack ptr record unset [-h] floatingip_id
```

Unset floatingip ptr record

Positional arguments:

floatingip_id

Floating IP ID

Optional arguments:

-h, --help

show this help message and exit

3.3.225. openstack quota set

```
usage: openstack quota set [-h] [--class]
                           [--injected-file-size <injected-file-size>]
                           [--instances <instances>]
                           [--properties <properties>]
```



```

[--injected-files <injected-files>]
[--cores <cores>] [--ram <ram>]
[--fixed-ips <fixed-ips>]
[--injected-path-size <injected-path-size>]
[--key-pairs <key-pairs>] [--gigabytes
<gigabytes>]
[--volumes <volumes>] [--snapshots
<snapshots>]
[--secgroups <secgroups>]
[--floating-ips <floating-ips>]
[--secgroup-rules <secgroup-rules>]
[--volume-type <volume-type>]
<project/class>

```

Set quotas for project or class

Positional arguments:

<project/class>

Set quotas for this project or class (name/ID)

Optional arguments:

-h, --help

show this help message and exit

--class

Set quotas for <class>

--injected-file-size <injected-file-size>

New value for the injected-file-size quota

--instances <instances>

New value for the instances quota

--properties <properties>

New value for the properties quota

--injected-files <injected-files>

New value for the injected-files quota

--cores <cores>

New value for the cores quota

--ram <ram>

New value for the ram quota

--fixed-ips <fixed-ips>

New value for the fixed-ips quota

--injected-path-size <injected-path-size>

New value for the injected-path-size quota

--key-pairs <key-pairs>

New value for the key-pairs quota

--gigabytes <gigabytes>

New value for the gigabytes quota

--volumes <volumes>

New value for the volumes quota

--snapshots <snapshots>

New value for the snapshots quota

--secgroups <secgroups>

New value for the secgroups quota

--floating-ips <floating-ips>

New value for the floating-ips quota

--secgroup-rules <secgroup-rules>

New value for the secgroup-rules quota

--volume-type <volume-type>

Set quotas for a specific <volume-type>

3.3.226. openstack quota show

```
usage: openstack quota show [-h] [-f {html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--noindent]
                             [--prefix PREFIX] [--class | --default]
                             [<project/class>]
```

Show quotas for project or class

Positional arguments:

<project/class>

Show quotas for this project or class (name or ID)

Optional arguments:

-h, --help

show this help message and exit

--class

Show quotas for <class>

--default

Show default quotas for <project>

3.3.227. openstack recordset create

```
usage: openstack recordset create [-h] [-f {html,json,shell,table,value,yaml}]
                                   [-c COLUMN] [--max-width <integer>]
                                   [--noindent] [--prefix PREFIX] --
records
                                   RECORDS [RECORDS ...] --type TYPE
                                   [--ttl TTL] [--description
DESCRIPTION]
                                   zone_id name
```

Create new recordset

Positional arguments:

zone_id

Zone ID

name

RecordSet Name

Optional arguments:

-h, --help

show this help message and exit

--records RECORDS [RECORDS ...]

RecordSet Records

--type TYPE

RecordSet Type

--ttl TTL

Time To Live (Seconds)

--description DESCRIPTION

Description

3.3.228. openstack recordset delete

```
usage: openstack recordset delete [-h] zone_id id
```

Delete recordset

Positional arguments:

zone_id

Zone ID

id

RecordSet ID

Optional arguments:

-h, --help

show this help message and exit

3.3.229. openstack recordset list

```
usage: openstack recordset list [-h] [-f
{csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--name NAME] [--type TYPE] [--data
DATA]
                                [--ttl TTL] [--description DESCRIPTION]
                                [--status STATUS] [--action ACTION]
                                zone_id
```

List recordsets

Positional arguments:

zone_id

Zone ID

Optional arguments:

-h, --help

show this help message and exit

--name NAME

RecordSet Name

--type TYPE

RecordSet Type

--data DATA

RecordSet Record Data

--ttl TTL

Time To Live (Seconds)

--description DESCRIPTION

Description

--status STATUS

RecordSet Status

--action ACTION

RecordSet Action

3.3.230. openstack recordset set

```
usage: openstack recordset set [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                [--records RECORDS [RECORDS ...]]
                                [--description DESCRIPTION | --no-
description]
                                [--ttl TTL | --no-ttl]
                                zone_id id
```

Set recordset properties

Positional arguments:

zone_id

Zone ID

id

RecordSet ID

Optional arguments:

-h, --help

show this help message and exit

--records RECORDS [RECORDS ...]

Records

--description DESCRIPTION

Description

--no-description

--ttl TTL

TTL

--no-ttl

3.3.231. openstack recordset show

```
usage: openstack recordset show [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                zone_id id
```

Show recordset details

Positional arguments:

zone_id

Zone ID

id

RecordSet ID

Optional arguments:

-h, --help

show this help message and exit

3.3.232. openstack region create

```
usage: openstack region create [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                [--parent-region <region-id>]
                                [--description <description>]
                                <region-id>
```

Create new region

Positional arguments:

<region-id>

New region ID

Optional arguments:

-h, --help

show this help message and exit

--parent-region <region-id>

Parent region ID

--description <description>

New region description

3.3.233. openstack region delete

```
usage: openstack region delete [-h] <region-id>
```

Delete region

Positional arguments:

<region-id>

Region ID to delete

Optional arguments:

-h, --help

show this help message and exit

3.3.234. openstack region list

```
usage: openstack region list [-h] [-f {csv,html,json,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--noindent]
```



```
[--quote {all,minimal,none,nonnumeric}]
[--parent-region <region-id>]
```

List regions

Optional arguments:

-h, --help

show this help message and exit

--parent-region <region-id>

Filter by parent region ID

3.3.235. openstack region set

```
usage: openstack region set [-h] [--parent-region <region-id>]
                             [--description <description>]
                             <region-id>
```

Set region properties

Positional arguments:

<region-id>

Region to modify

Optional arguments:

-h, --help

show this help message and exit

--parent-region <region-id>

New parent region ID

--description <description>

New region description

3.3.236. openstack region show

```
usage: openstack region show [-h] [-f {html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX]
                             <region-id>
```

Display region details

Positional arguments:

<region-id>

Region to display

Optional arguments:

-h, --help

show this help message and exit

3.3.237. openstack request token authorize

```
usage: openstack request token authorize [-h]
                                         [-f
{html,json,shell,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--noindent] [--prefix PREFIX]
                                         --request-key <request-key> --
role
                                         <role>
```

Authorize a request token

Optional arguments:

-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)

3.3.238. openstack request token create

```
usage: openstack request token create [-h]
                                     [-f
{html,json,shell,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--noindent] [--prefix PREFIX]
                                     --consumer-key <consumer-key>
                                     --consumer-secret <consumer-
secret>
                                     --project <project> [--domain
<domain>]
```

Create a request token

Optional arguments:

-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)

3.3.239. openstack role add

```
usage: openstack role add [-h] [--domain <domain> | --project <project>]
                          [--user <user> | --group <group>]
                          [--group-domain <group-domain>]
                          [--project-domain <project-domain>]
                          [--user-domain <user-domain>] [--inherited]
                          <role>
```

Adds a role to a user or group on a domain or project

Positional arguments:

<role>

Role to add to <user> (name or ID)

Optional arguments:

-h, --help

show this help message and exit

--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

3.3.240. openstack role assignment list

```
usage: openstack role assignment list [-h]
                                     [-f
{csv,html,json,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--noindent]
                                     [--quote
{all,minimal,none,nonnumeric}]
                                     [--effective] [--role <role>] [--
names]
                                     [--user <user>]
                                     [--user-domain <user-domain>]
                                     [--group <group>]
                                     [--group-domain <group-domain>]
                                     [--domain <domain> | --project
<project>]
                                     [--project-domain <project-
domain>]
                                     [--inherited]
```

List role assignments

Optional arguments:

-h, --help

show this help message and exit

--effective

Returns only effective role assignments

--role <role>

Role to filter (name or ID)

--names

Display names instead of IDs

--user <user>

User to filter (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.

--group <group>

Group to filter (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.

--domain <domain>

Domain to filter (name or ID)

--project <project>

Project to filter (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.

--inherited

Specifies if the role grant is inheritable to the sub projects

3.3.241. openstack role create

```
usage: openstack role create [-h] [-f {html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
                             noindent]
                             [--prefix PREFIX] [--or-show]
                             <role-name>
```

Create new role

Positional arguments:

<role-name>

New role name

Optional arguments:

-h, --help

show this help message and exit

--or-show

Return existing role

3.3.242. openstack role delete

```
usage: openstack role delete [-h] <role> [<role> ...]
```

Delete role(s)

Positional arguments:

<role>

Role(s) to delete (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.243. openstack role list

```
usage: openstack role list [-h] [-f {csv,html,json,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--domain <domain> | --project <project>]
                             [--user <user> | --group <group>]
                             [--group-domain <group-domain>]
                             [--project-domain <project-domain>]
                             [--user-domain <user-domain>] [--inherited]
```

List roles

Optional arguments:

-h, --help

show this help message and exit

--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

3.3.244. openstack role remove

```
usage: openstack role remove [-h] [--domain <domain> | --project
<project>]
                                [--user <user> | --group <group>]
                                [--group-domain <group-domain>]
                                [--project-domain <project-domain>]
                                [--user-domain <user-domain>] [--
inherited]
                                <role>
```

Remove role from domain/project : user/group

Positional arguments:**<role>**

Role to remove (name or ID)

Optional arguments:**-h, --help**

show this help message and exit

--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

3.3.245. openstack role set

```
usage: openstack role set [-h] [--name <name>] <role>
```

Set role properties

Positional arguments:

<role>

Role to modify (name or ID)

Optional arguments:

-h, --help

show this help message and exit

--name <name>

Set role name

3.3.246. openstack role show

```
usage: openstack role show [-h] [-f {html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX]
                             <role>
```

Display role details

Positional arguments:

<role>

Role to display (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.247. openstack router create

```
usage: openstack router create [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                [--enable | --disable] [--distributed]
                                [--project <project>]
                                [--project-domain <project-domain>]
                                [--availability-zone-hint <availability-
zone>]
                                <name>
```

Create a new router

Positional arguments:

<name>

New router name

Optional arguments:

-h, --help

show this help message and exit

--enable

Enable router (default)

--disable

Disable router

--distributed

Create a distributed router

--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.

--availability-zone-hint <availability-zone>

Availability Zone in which to create this router (Router Availability Zone extension required, repeat option to set multiple availability zones)

3.3.248. openstack router delete

```
usage: openstack router delete [-h] <router> [<router> ...]
```

Delete router(s)

Positional arguments:

<router>

Router(s) to delete (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.249. openstack router list

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

List routers

Optional arguments:

-h, --help

show this help message and exit

--long

List additional fields in output

3.3.250. openstack router set

■

```
usage: openstack router set [-h] [--name <name>] [--enable | --disable]
                             [--distributed | --centralized]
                             [--route destination=<subnet>,gateway=<ip-
address> | --no-route]
                             <router>
```

Set router properties

Positional arguments:

<router>

Router to modify (name or ID)

Optional arguments:

-h, --help

show this help message and exit

--name <name>

Set router name

--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

3.3.251. openstack router show

```
usage: openstack router show [-h] [-f {html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX]
                             <router>
```

Display router details

Positional arguments:

<router>

Router to display (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.252. openstack secret container create

```
usage: openstack secret container create [-h]
                                         [-f
{html,json,shell,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--noindent] [--prefix PREFIX]
                                         [--name NAME] [--type TYPE]
                                         [--secret SECRET]
```

Store a container in Barbican.

Optional arguments:

-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"`

3.3.253. openstack secret container delete

```
usage: openstack secret container delete [-h] URI
```

Delete a container by providing its href.

Positional arguments:

URI

The URI reference for the container

Optional arguments:

-h, --help

show this help message and exit

3.3.254. openstack secret container get

```
usage: openstack secret container get [-h]
                                     [-f
                                     {html,json,shell,table,value,yaml}]
                                     [-c COLUMN] [--max-width
                                     <integer>]
                                     [--noindent] [--prefix PREFIX]
                                     URI
```

Retrieve a container by providing its URI.

Positional arguments:

URI

The URI reference for the container.

Optional arguments:**-h, --help**

show this help message and exit

3.3.255. openstack secret container list

```
usage: openstack secret container list [-h]
                                     [-f
{csv,html,json,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--noindent]
                                     [--quote
{all,minimal,none,nonnumeric}]
                                     [--limit LIMIT] [--offset
OFFSET]
                                     [--name NAME] [--type TYPE]
```

List containers.

Optional arguments:**-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).

3.3.256. openstack secret delete

```
usage: openstack secret delete [-h] URI
```


Delete a secret by providing its URI.

Positional arguments:

URI

The URI reference for the secret

Optional arguments:

-h, --help

show this help message and exit

3.3.257. openstack secret get

```
usage: openstack secret get [-h] [-f {html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX] [--decrypt] [--payload]
                             [--payload_content_type
PAYLOAD_CONTENT_TYPE]
                             URI
```

Retrieve a secret by providing its URI.

Positional arguments:

URI

The URI reference for the secret.

Optional arguments:

-h, --help

show this help message and exit

--decrypt, -d

if specified, retrieve the unencrypted secret data; the data type can be specified with --payload-content- type.

--payload, -p

if specified, retrieve the unencrypted secret data; the data type can be specified with --

payload-content- type. If the user wishes to only retrieve the value of the payload they must add "-f value" to format returning only the value of the payload

--payload_content_type PAYLOAD_CONTENT_TYPE, -t PAYLOAD_CONTENT_TYPE

the content type of the decrypted secret (default: text/plain).

3.3.258. openstack secret list

```
usage: openstack secret list [-h] [-f {csv,html,json,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--limit LIMIT] [--offset OFFSET] [--name
NAME]
                             [--algorithm ALGORITHM] [--bit-length
BIT_LENGTH]
                             [--mode MODE]
```

List secrets.

Optional arguments:

-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).

3.3.259. openstack secret order create

```
usage: openstack secret order create [-h]
                                     [-f
{html,json,shell,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--noindent] [--prefix PREFIX]
                                     [--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
```

Create a new order.

Positional arguments:

type

the type of the order to create.

Optional arguments:

-h, --help

show this help message and exit

--name NAME, -n NAME

a human-friendly name.

--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.

3.3.260. openstack secret order delete

usage: openstack secret order delete [-h] URI

Delete an order by providing its href.

Positional arguments:

URI

The URI reference for the order

Optional arguments:**-h, --help**

show this help message and exit

3.3.261. openstack secret order get

```
usage: openstack secret order get [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                URI
```

Retrieve an order by providing its URI.

Positional arguments:**URI**

The URI reference order.

Optional arguments:**-h, --help**

show this help message and exit

3.3.262. openstack secret order list

```
usage: openstack secret order list [-h] [-f
{csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent]
                                [--quote
{all,minimal,none,nonnumeric}]
                                [--limit LIMIT] [--offset OFFSET]
```

List orders.

Optional arguments:

-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)

3.3.263. openstack secret store

```
usage: openstack secret store [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>] [--
noindent]
                                [--prefix PREFIX] [--name NAME]
                                [--payload PAYLOAD] [--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]
```

Store a secret in Barbican.

Optional arguments:

-h, --help

show this help message and exit

--name NAME, -n NAME

a human-friendly name.

--payload PAYLOAD, -p PAYLOAD

the unencrypted secret; if provided, you must also provide a `payload_content_type`

--secret-type SECRET_TYPE, -s SECRET_TYPE

the secret type; must be one of symmetric, public, private, certificate, passphrase, opaque (default)

--payload-content-type PAYLOAD_CONTENT_TYPE, -t PAYLOAD_CONTENT_TYPE

the type/format of the provided secret data; "text/plain" is assumed to be UTF-8; required when --payload is supplied.

--payload-content-encoding PAYLOAD_CONTENT_ENCODING, -e PAYLOAD_CONTENT_ENCODING

required if --payload-content-type is "application /octet-stream".

--algorithm ALGORITHM, -a ALGORITHM

the algorithm (default: aes).

--bit-length BIT_LENGTH, -b BIT_LENGTH

the bit length (default: 256).

--mode MODE, -m MODE

the algorithm mode; used only for reference (default: cbc)

--expiration EXPIRATION, -x EXPIRATION

the expiration time for the secret in ISO 8601 format.

3.3.264. openstack secret update

usage: openstack secret update [-h] URI payload

Update a secret with no payload in Barbican.

Positional arguments:

URI

The URI reference for the secret.

payload

the unencrypted secret

Optional arguments:

-h, --help

show this help message and exit

3.3.265. openstack security group create

```
usage: openstack security group create [-h]
                                         [-f
                                         {html,json,shell,table,value,yaml}]
                                         [-c COLUMN] [--max-width
                                         <integer>]
                                         [--noindent] [--prefix PREFIX]
                                         [--description <description>]
                                         <name>
```

Create a new security group

Positional arguments:

<name>

New security group name

Optional arguments:

-h, --help

show this help message and exit

--description <description>

Security group description

3.3.266. openstack security group delete

```
usage: openstack security group delete [-h] <group>
```

Delete a security group

Positional arguments:

<group>

Security group to delete (name or ID)

Optional arguments:**-h, --help**

show this help message and exit

3.3.267. openstack security group list

```
usage: openstack security group list [-h]
                                     [-f
{csv,html,json,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--noindent]
                                     [--quote
{all,minimal,none,nonnumeric}]
                                     [--all-projects]
```

List security groups

Optional arguments:**-h, --help**

show this help message and exit

--all-projects

Display information from all projects (admin only)

3.3.268. openstack security group rule create

```
usage: openstack security group rule create [-h]
                                             [-f
{html,json,shell,table,value,yaml}]
                                             [-c COLUMN]
                                             [--max-width <integer>]
                                             [--noindent] [--prefix
PREFIX]
                                             [--src-ip <ip-address> | --
src-group <group>]
                                             [--dst-port <port-range>]
                                             [--protocol <protocol>]
                                             <group>
```

Create a new security group rule

Positional arguments:

<group>

Create rule in this security group (name or ID)

Optional arguments:

-h, --help

show this help message and exit

--src-ip <ip-address>

Source IP address block (may use CIDR notation; default for IPv4 rule: 0.0.0.0/0)

--src-group <group>

Source security group (name or ID)

--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.

--protocol <protocol>

IP protocol (icmp, tcp, udp; default: tcp)

3.3.269. openstack security group rule delete

```
usage: openstack security group rule delete [-h] <rule>
```

Delete a security group rule

Positional arguments:

<rule>

Security group rule to delete (ID only)

Optional arguments:

-h, --help

show this help message and exit

3.3.270. openstack security group rule list

```
usage: openstack security group rule list [-h]
                                         [-f
{csv,html,json,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--noindent]
                                         [--quote
{all,minimal,none,nonnumeric}]
                                         [--all-projects]
                                         [<group>]
```

List security group rules

Positional arguments:

<group>

List all rules in this security group (name or ID)

Optional arguments:

-h, --help

show this help message and exit

--all-projects

Display information from all projects (admin only)

3.3.271. openstack security group rule show

```
usage: openstack security group rule show [-h]
                                         [-f
{html,json,shell,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--noindent] [--prefix
PREFIX]
                                         <rule>
```

Display security group rule details

Positional arguments:

<rule>

Security group rule to display (ID only)

Optional arguments:

-h, --help

show this help message and exit

3.3.272. openstack security group set

```
usage: openstack security group set [-h] [--name <new-name>]
                                     [--description <description>]
                                     <group>
```

Set security group properties

Positional arguments:

<group>

Security group to modify (name or ID)

Optional arguments:

-h, --help

show this help message and exit

--name <new-name>

New security group name

--description <description>

New security group description

3.3.273. openstack security group show

```
usage: openstack security group show [-h]
                                     [-f
                                     {html,json,shell,table,value,yaml}]
                                     [-c COLUMN] [--max-width
                                     <integer>]
                                     [--noindent] [--prefix PREFIX]
                                     <group>
```

Display security group details

Positional arguments:

<group>

Security group to display (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.274. openstack server add security group

```
usage: openstack server add security group [-h] <server> <group>
```

Add security group to server

Positional arguments:

<server>

Server (name or ID)

<group>

Security group to add (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.275. openstack server add volume

```
usage: openstack server add volume [-h] [--device <device>] <server>
<volume>
```

Add volume to server

Positional arguments:

<server>

Server (name or ID)

<volume>

Volume to add (name or ID)

Optional arguments:**-h, --help**

show this help message and exit

--device <device>

Server internal device name for volume

3.3.276. openstack server create

```

usage: openstack server create [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                (--image <image> | --volume <volume>) --
flavor
                                <flavor>
                                [--security-group <security-group-name>]
                                [--key-name <key-name>]
                                [--property <key=value>]
                                [--file <dest-filename=source-filename>]
                                [--user-data <user-data>]
                                [--availability-zone <zone-name>]
                                [--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>]
                                [--hint <key=value>]
                                [--config-drive <config-drive-
volume>|True]
                                [--min <count>] [--max <count>] [--wait]
                                <server-name>

```

Create a new server

Positional arguments:**<server -name>**

New server name

Optional arguments:

-h, --help

show this help message and exit

--image <image>

Create server from this image (name or ID)

--volume <volume>

Create server from this volume (name or ID)

--flavor <flavor>

Create server with this flavor (name or ID)

--security-group <security-group-name>

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)

--file <dest-filename=source-filename>

File to inject into image before boot (repeat option to set multiple files)

--user-data <user-data>

User data file to serve from the metadata server

--availability-zone <zone-name>

Select an availability zone for the server

--block-device-mapping <dev-name=mapping>

Map block devices; map is <id>:<type>:<size(GB)>:<delete_on_terminate> (optional

extension)

--nic <net-id=net-uuid,v4-fixed-ip=ip-addr,v6-fixed-ip=ip-addr,port-id=port-uuid>

Create a NIC on the server. Specify option multiple times to create multiple NICs. Either net-id or port-id must be provided, but not both. net-id: attach NIC to network with this UUID, port-id: attach NIC to port with this UUID, v4-fixed-ip: IPv4 fixed address for NIC (optional), v6-fixed-ip: IPv6 fixed address for NIC (optional).

--hint <key=value>

Hints for the scheduler (optional extension)

--config-drive <config-drive-volume>|True

Use specified volume as the config drive, or 'True' to use an ephemeral drive

--min <count>

Minimum number of servers to launch (default=1)

--max <count>

Maximum number of servers to launch (default=1)

--wait

Wait for build to complete

3.3.277. openstack server delete

```
usage: openstack server delete [-h] [--wait] <server> [<server> ...]
```

Delete server(s)

Positional arguments:

<server>

Server(s) to delete (name or ID)

Optional arguments:

-h, --help

show this help message and exit

--wait

Wait for delete to complete

3.3.278. openstack server dump create

```
usage: openstack server dump create [-h] <server> [<server> ...]
```

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.

Positional arguments:

<server>

Server(s) to create dump file (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.279. openstack server image create

```
usage: openstack server image create [-h]
                                     [-f
{html,json,shell,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--noindent] [--prefix PREFIX]
                                     [--name <image-name>] [--wait]
                                     <server>
```

Create a new disk image from a running server

Positional arguments:

<server>

Server (name or ID)

Optional arguments:

-h, --help

show this help message and exit

--name <image-name>

Name of new image (default is server name)

--wait

Wait for image create to complete

3.3.280. openstack server list

```
usage: openstack server list [-h] [-f {csv,html,json,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--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] [--marker <marker>] [--limit
<limit>]
```

List servers

Optional arguments:

-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

--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)

--project <project>

Search by project (admin only) (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.

--user <user>

Search by user (admin only) (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

--marker <marker>

The last server (name or ID) of the previous page. Display list of servers after marker.
Display all servers if not specified.

--limit <limit>

Maximum number of servers to display. If limit equals -1, all servers will be displayed. If limit is greater than 'osapi_max_limit' option of Nova API, 'osapi_max_limit' will be used instead.

3.3.281. openstack server lock

```
usage: openstack server lock [-h] <server> [<server> ...]
```

Lock server(s). A non-admin user will not be able to execute actions

Positional arguments:**<server>**

Server(s) to lock (name or ID)

Optional arguments:**-h, --help**

show this help message and exit

3.3.282. openstack server migrate

```
usage: openstack server migrate [-h] [--live <hostname>]
                                [--shared-migration | --block-
migration]
                                [--disk-overcommit | --no-disk-
overcommit]
                                [--wait]
                                <server>
```

Migrate server to different host

Positional arguments:

<server>

Server (name or ID)

Optional arguments:

-h, --help

show this help message and exit

--live <hostname>

Target hostname

--shared-migration

Perform a shared live migration (default)

--block-migration

Perform a block live migration

--disk-overcommit

Allow disk over-commit on the destination host

--no-disk-overcommit

Do not over-commit disk on the destination host (default)

--wait

Wait for resize to complete

3.3.283. openstack server pause

```
usage: openstack server pause [-h] <server> [<server> ...]
```

Pause server(s)

Positional arguments:

<server>

Server(s) to pause (name or ID)

Optional arguments:**-h, --help**

show this help message and exit

3.3.284. openstack server reboot

```
usage: openstack server reboot [-h] [--hard | --soft] [--wait] <server>
```

Perform a hard or soft server reboot

Positional arguments:**<server>**

Server (name or ID)

Optional arguments:**-h, --help**

show this help message and exit

--hard

Perform a hard reboot

--soft

Perform a soft reboot

--wait

Wait for reboot to complete

3.3.285. openstack server rebuild

```
usage: openstack server rebuild [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                [--image <image>] [--password
<password>]
                                [--wait]
                                <server>
```

Rebuild server

Positional arguments:

<server>

Server (name or ID)

Optional arguments:

-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

--wait

Wait for rebuild to complete

3.3.286. openstack server remove security group

```
usage: openstack server remove security group [-h] <server> <group>
```

Remove security group from server

Positional arguments:

<server>

Name or ID of server to use

<group>

Name or ID of security group to remove from server

Optional arguments:

-h, --help

show this help message and exit

3.3.287. openstack server remove volume

```
usage: openstack server remove volume [-h] <server> <volume>
```

Remove volume from server

Positional arguments:

<server>

Server (name or ID)

<volume>

Volume to remove (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.288. openstack server rescue

```
usage: openstack server rescue [-h] [-f  
                               {html,json,shell,table,value,yaml}]  
                               [-c COLUMN] [--max-width <integer>]  
                               [--noindent] [--prefix PREFIX]  
                               <server>
```

Put server in rescue mode

Positional arguments:

<server>

Server (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.289. openstack server resize

```
usage: openstack server resize [-h] [--flavor <flavor> | --confirm | --
revert]
                                [--wait]
                                <server>
```

Scale server to a new flavor

Positional arguments:

<server>

Server (name or ID)

Optional arguments:

-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

3.3.290. openstack server resume

```
usage: openstack server resume [-h] <server> [<server> ...]
```

Resume server(s)

Positional arguments:

<server>

Server(s) to resume (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.291. openstack server set

```
usage: openstack server set [-h] [--name <new-name>] [--root-password]
                             [--property <key=value>] [--state <state>]
                             <server>
```

Set server properties

Positional arguments:

<server>

Server (name or ID)

Optional arguments:

-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)

3.3.292. openstack server shelve

```
usage: openstack server shelve [-h] <server> [<server> ...]
```

Shelve server(s)

Positional arguments:

<server>

Server(s) to shelve (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.293. openstack server show

```
usage: openstack server show [-h] [-f {html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX] [--diagnostics]
                             <server>
```

Show server details

Positional arguments:

<server>

Server (name or ID)

Optional arguments:

-h, --help

show this help message and exit

--diagnostics

Display server diagnostics information

3.3.294. openstack server ssh

```
usage: openstack server ssh [-h] [--login <login-name>] [--port <port>]
                             [--identity <keyfile>] [--option <config-
options>]
                             [-4 | -6]
                             [--public | --private | --address-type
<address-type>]
                             <server>
```

SSH to server

Positional arguments:

<server>

Server (name or ID)

Optional arguments:

-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)

3.3.295. openstack server start

```
usage: openstack server start [-h] <server> [<server> ...]
```

Start server(s).

Positional arguments:

<server>

Server(s) to start (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.296. openstack server stop

```
usage: openstack server stop [-h] <server> [<server> ...]
```

Stop server(s).

Positional arguments:

<server>

Server(s) to stop (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.297. openstack server suspend

```
usage: openstack server suspend [-h] <server> [<server> ...]
```

Suspend server(s)

Positional arguments:

<server>

Server(s) to suspend (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.298. openstack server unlock

```
usage: openstack server unlock [-h] <server> [<server> ...]
```

Unlock server(s)

Positional arguments:

<server>

Server(s) to unlock (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.299. openstack server unpause

```
usage: openstack server unpause [-h] <server> [<server> ...]
```

Unpause server(s)

Positional arguments:

<server>

Server(s) to unpause (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.300. openstack server unrescue

```
usage: openstack server unrescue [-h] <server>
```

Restore server from rescue mode

Positional arguments:

<server>

Server (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.301. openstack server unset

```
usage: openstack server unset [-h] [--property <key>] <server>
```

Unset server properties

Positional arguments:

<server>

Server (name or ID)

Optional arguments:**-h, --help**

show this help message and exit

--property <key>

Property key to remove from server (repeat option to remove multiple values)

3.3.302. openstack server unshelve

```
usage: openstack server unshelve [-h] <server> [<server> ...]
```

Unshelve server(s)

Positional arguments:**<server>**

Server(s) to unshelve (name or ID)

Optional arguments:**-h, --help**

show this help message and exit

3.3.303. openstack service create

```
usage: openstack service create [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX] [--name
<name>]
                                [--description <description>]
                                [--enable | --disable]
                                <type>
```

Create new service

Positional arguments:**<type>**

New service type (compute, image, identity, volume, etc)

Optional arguments:

-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

3.3.304. openstack service delete

```
usage: openstack service delete [-h] <service>
```

Delete service

Positional arguments:

<service>

Service to delete (type, name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.305. openstack service list

```
usage: openstack service list [-h] [-f {csv,html,json,table,value,yaml}]
```

```
noindent] [-c COLUMN] [--max-width <integer>] [--
-long] [--quote {all,minimal,none,nonnumeric}] [-
```

List services

Optional arguments:

-h, --help

show this help message and exit

--long

List additional fields in output

3.3.306. openstack service provider create

```
usage: openstack service provider create [-h]
                                         [-f
{html,json,shell,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--noindent] [--prefix PREFIX]
                                         --auth-url <auth-url>
                                         [--description <description>]
                                         --service-provider-url <sp-
url>
                                         [--enable | --disable]
                                         <name>
```

Create new service provider

Positional arguments:

<name>

New service provider name (must be unique)

Optional arguments:

-h, --help

show this help message and exit

--auth-url <auth-url>

Authentication URL of remote federated service provider (required)

--description <description>

New service provider description

--service-provider-url <sp-url>

A service URL where SAML assertions are being sent (required)

--enable

Enable the service provider (default)

--disable

Disable the service provider

3.3.307. openstack service provider delete

```
usage: openstack service provider delete [-h] <service-provider>
```

Delete service provider

Positional arguments:

<service-provider>

Service provider to delete

Optional arguments:

-h, --help

show this help message and exit

3.3.308. openstack service provider list

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

List service providers

Optional arguments:

-h, --help

show this help message and exit

3.3.309. openstack service provider set

```
usage: openstack service provider set [-h] [--auth-url <auth-url>]
                                     [--description <description>]
                                     [--service-provider-url <sp-url>]
                                     [--enable | --disable]
                                     <service-provider>
```

Set service provider properties

Positional arguments:

<service-provider>

Service provider to modify

Optional arguments:

-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

3.3.310. openstack service provider show

```
usage: openstack service provider show [-h]
                                         [-f
{html,json,shell,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--noindent] [--prefix PREFIX]
                                         <service-provider>
```

Display service provider details

Positional arguments:

<service-provider>

Service provider to display

Optional arguments:

-h, --help

show this help message and exit

3.3.311. openstack service set

```
usage: openstack service set [-h] [--type <type>] [--name <service-name>]
                             [--description <description>]
                             [--enable | --disable]
                             <service>
```

Set service properties

Positional arguments:

<service>

Service to update (type, name or ID)

Optional arguments:

-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

3.3.312. openstack service show

```
usage: openstack service show [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>] [--
noindent]
                                [--prefix PREFIX]
                                <service>
```

Display service details

Positional arguments:

<service>

Service to display (type, name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.313. openstack snapshot create

```
usage: openstack snapshot create [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                [--name <name>] [--description
<description>]
                                [--force]
                                <volume>
```

Create new snapshot

Positional arguments:

<volume>

Volume to snapshot (name or ID)

Optional arguments:

-h, --help

show this help message and exit

--name <name>

Name of the snapshot

--description <description>

Description of the snapshot

--force

Create a snapshot attached to an instance. Default is False

3.3.314. openstack snapshot delete

```
usage: openstack snapshot delete [-h] <snapshot> [<snapshot> ...]
```

Delete volume snapshot(s)

Positional arguments:

<snapshot>

Snapshot(s) to delete (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.315. openstack snapshot list

```
usage: openstack snapshot list [-h] [-f {csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--all-projects] [--long]
```

List snapshots

Optional arguments:

-h, --help

show this help message and exit

--all-projects

Include all projects (admin only)

--long

List additional fields in output

3.3.316. openstack snapshot set

```
usage: openstack snapshot set [-h] [--name <name>]
                                [--description <description>]
                                [--property <key=value>] [--state
<state>]
                                <snapshot>
```

Set snapshot properties

Positional arguments:

<snapshot>

Snapshot to modify (name or ID)

Optional arguments:

-h, --help

show this help message and exit

--name <name>

New snapshot name

--description <description>

New snapshot description

--property <key=value>

Property to add/change for this snapshot (repeat option to set multiple properties)

--state <state>

New snapshot state. Valid values are available, error, creating, deleting, and error-deleting.

3.3.317. openstack snapshot show

```
usage: openstack snapshot show [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                <snapshot>
```

Display snapshot details

Positional arguments:

<snapshot>

Snapshot to display (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.318. openstack snapshot unset

```
usage: openstack snapshot unset [-h] [--property <key>] <snapshot>
```

Unset snapshot properties

Positional arguments:

<snapshot>

Snapshot to modify (name or ID)

Optional arguments:

-h, --help

show this help message and exit

--property <key>

Property to remove from snapshot (repeat option to remove multiple properties)

3.3.319. openstack software config create

```
usage: openstack software config create [-h]
                                         [-f
                                         {html,json,shell,table,value,yaml}]
                                         [-c COLUMN] [--max-width
                                         <integer>]
                                         [--noindent] [--prefix PREFIX]
                                         [--config-file <config-file>]
                                         [--definition-file
                                         <destination-file>]
                                         [--group <group>]
                                         <config-name>
```

Create software config

Positional arguments:

<config-name>

Name of the software config to create

Optional arguments:

-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

3.3.320. openstack software config delete

```
usage: openstack software config delete [-h] <config> [<config> ...]
```

Delete software configs

Positional arguments:

<config>

IDs of the software configs to delete

Optional arguments:

-h, --help

show this help message and exit

3.3.321. openstack software config list

```
usage: openstack software config list [-h]
                                     [-f
{csv,html,json,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--noindent]
                                     [--quote
{all,minimal,none,nonnumeric}]
                                     [--limit <limit>] [--marker <id>]
```

List software configs

Optional arguments:

-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

3.3.322. openstack software config show

```
usage: openstack software config show [-h]
                                         [-f]
                                         {html,json,shell,table,value,yaml}
                                         [-c COLUMN] [--max-width
                                         <integer>]
                                         [--noindent] [--prefix PREFIX]
                                         [--config-only]
                                         <config>
```

Show software config details

Positional arguments:

<config>

ID of the config

Optional arguments:

-h, --help

show this help message and exit

--config-only

Only display the value of the <config> property.

3.3.323. openstack software deployment create

```
usage: openstack software deployment create [-h]
                                           [-f
{html,json,shell,table,value,yaml}]
                                           [-c COLUMN]
                                           [--max-width <integer>]
                                           [--noindent] [--prefix
PREFIX]
                                           [--input-value <key=value>]
                                           [--action <action>]
                                           [--config <config>] --
server
                                           <server>
                                           [--signal-transport
<signal-transport>]
                                           [--container <container>]
                                           [--timeout <timeout>]
                                           <deployment-name>
```

Create a software deployment.

Positional arguments:

<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.

Optional arguments:

-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

--server <server>

ID of the server being deployed to

--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.

ZAQAR_SIGNAL will create a dedicated zaqar 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

3.3.324. openstack software deployment delete

```
usage: openstack software deployment delete [-h]
                                           <deployment> [<deployment>
...]
```

Delete software deployment(s) and correlative config(s).

Positional arguments:

<deployment>

ID of the deployment(s) to delete.

Optional arguments:

-h, --help

show this help message and exit

3.3.325. openstack software deployment list

```
usage: openstack software deployment list [-h]
                                           [-f
{csv,html,json,table,value,yaml}]
                                           [-c COLUMN] [--max-width
<integer>]
```

```

{all,minimal,none,nonnumeric}]
[--noindent]
[--quote]
[--server <server>] [--long]

```

List software deployments.

Optional arguments:

-h, --help

show this help message and exit

--server <server>

ID of the server to fetch deployments for

--long

List more fields in output

3.3.326. openstack software deployment metadata show

```
usage: openstack software deployment metadata show [-h] <server>
```

Get deployment configuration metadata for the specified server.

Positional arguments:

<server>

ID of the server to fetch deployments for

Optional arguments:

-h, --help

show this help message and exit

3.3.327. openstack software deployment output show

```

usage: openstack software deployment output show [-h] [--all] [--long]
                                                <deployment>
[<output-name>]

```

Show a specific deployment output.

Positional arguments:

<deployment>

ID of deployment to show the output for

<output-name>

Name of an output to display

Optional arguments:

-h, --help

show this help message and exit

--all

Display all deployment outputs

--long

Show full deployment logs in output

3.3.328. openstack software deployment show

```
usage: openstack software deployment show [-h]
                                         [-f]
                                         {html,json,shell,table,value,yaml}
                                         [-c COLUMN] [--max-width
                                         <integer>]
                                         [--noindent] [--prefix
                                         PREFIX]
                                         [--long]
                                         <deployment>
```

Show SoftwareDeployment Details.

Positional arguments:

<deployment>

ID of the deployment

Optional arguments:**-h, --help**

show this help message and exit

--long

Show more fields in output

3.3.329. openstack stack abandon

```
usage: openstack stack abandon [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                [--output-file <output-file>]
                                <stack>
```

Abandon stack and output results.

Positional arguments:**<stack>**

Name or ID of stack to abandon

Optional arguments:**-h, --help**

show this help message and exit

--output-file <output-file>

File to output abandon results

3.3.330. openstack stack adopt

```
usage: openstack stack adopt [-h] [-f {html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>] [--
noindent]
                                [--prefix PREFIX] [-e <environment>]
                                [--timeout <timeout>] --adopt-file <adopt-
file>
```

```
<key=value>]                                [--enable-rollback] [--parameter  
                                              [--wait]  
<stack-name>
```

Adopt a stack.

Positional arguments:

<stack-name>

Name of the stack to adopt

Optional arguments:

-h, --help

show this help message and exit

-e <environment>, --environment <environment>

Path to the environment. Can be specified multiple times

--timeout <timeout>

Stack creation timeout in minutes

--adopt-file <adopt-file>

Path to adopt stack data file

--enable-rollback

Enable rollback on create/update failure

--parameter <key=value>

Parameter values used to create the stack. Can be specified multiple times

--wait

Wait until stack adopt completes

3.3.331. openstack stack cancel

```
usage: openstack stack cancel [-h] [-f {csv,html,json,table,value,yaml}]
```

```
noindent]
                                [-c COLUMN] [--max-width <integer>] [--
                                [--quote {all,minimal,none,nonnumeric}] [-
                                <stack> [<stack> ...]
```

Cancel current task for a stack. Supported tasks for cancellation: * update

Positional arguments:

<stack>

Stack(s) to cancel (name or ID)

Optional arguments:

-h, --help

show this help message and exit

--wait

Wait for check to complete

3.3.332. openstack stack check

```
usage: openstack stack check [-h] [-f {csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>] [--
                                noindent]
                                [--quote {all,minimal,none,nonnumeric}] [--
                                wait]
                                <stack> [<stack> ...]
```

Check a stack.

Positional arguments:

<stack>

Stack(s) to check update (name or ID)

Optional arguments:

-h, --help

show this help message and exit

--wait

Wait for check to complete

3.3.333. openstack stack create

```
usage: openstack stack create [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>] [--
noindent]
                                [--prefix PREFIX] -t <template>
                                [-e <environment>] [--timeout <timeout>]
                                [--pre-create <resource>] [--enable-
rollback]
                                [--parameter <key=value>]
                                [--parameter-file <key=file>] [--wait]
                                [--tags <tag1,tag2...>] [--dry-run]
                                <stack-name>
```

Create a stack.

Positional arguments:

<stack-name>

Name of the stack to create

Optional arguments:

-h, --help

show this help message and exit

-t <template>, --template <template>

Path to the template

-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

--wait

Wait until stack goes to `CREATE_COMPLETE` or `CREATE_FAILED`

--tags <tag1,tag2...>

A list of tags to associate with the stack

--dry-run

Do not actually perform the stack create, but show what would be created

3.3.334. openstack stack delete

```
usage: openstack stack delete [-h] [--yes] [--wait] <stack> [<stack> ...]
```

Delete stack(s).

Positional arguments:

<stack>

Stack(s) to delete (name or ID)

Optional arguments:

-h, --help

show this help message and exit

--yes

Skip yes/no prompt (assume yes)

--wait

Wait for stack delete to complete

3.3.335. openstack stack event list

```
usage: openstack stack event list [-h] [-f
{csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent]
                                [--quote
{all,minimal,none,nonnumeric}]
                                [--resource <resource>]
                                [--filter <key=value>] [--limit
<limit>]
                                [--marker <id>] [--nested-depth
<depth>]
                                [--sort <key>[:<direction>]] [--
follow]
                                <stack>
```

List events.

Positional arguments:

<stack>

Name or ID of stack to show events for

Optional arguments:

-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

--follow

Print events until process is halted

3.3.336. openstack stack event show

```
usage: openstack stack event show [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                <stack> <resource> <event>
```

Show event details.

Positional arguments:

<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

Optional arguments:

-h, --help

show this help message and exit

3.3.337. openstack stack hook clear

```
usage: openstack stack hook clear [-h] [--pre-create] [--pre-update]
                                   <stack> <resource> [<resource> ...]
```

Clear resource hooks on a given stack.

Positional arguments:

<stack>

Stack to display (name or ID)

<resource>

Resource names with hooks to clear. 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

Optional arguments:

-h, --help

show this help message and exit

--pre-create

Clear the pre-create hooks

--pre-update

Clear the pre-update hooks

3.3.338. openstack stack hook poll

```
usage: openstack stack hook poll [-h] [-f
{csv,html,json,table,value,yaml}]
                                   [-c COLUMN] [--max-width <integer>]
                                   [--noindent]
                                   [--quote
{all,minimal,none,nonnumeric}]
                                   [--nested-depth <nested-depth>]
                                   <stack>
```


-

List resources with pending hook for a stack.

Positional arguments:

<stack>

Stack to display (name or ID)

Optional arguments:

-h, --help

show this help message and exit

--nested-depth <nested-depth>

Depth of nested stacks from which to display hooks

3.3.339. openstack stack list

```
usage: openstack stack list [-h] [-f {csv,html,json,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--deleted] [--nested] [--hidden]
                             [--property <key=value>] [--tags
<tag1,tag2...>]
                             [--tag-mode <mode>] [--limit <limit>]
                             [--marker <id>] [--sort <key>[:
<direction>]]
                             [--all-projects] [--short] [--long]
```

List stacks.

Optional arguments:

-h, --help

show this help message and exit

--deleted

Include soft-deleted stacks in the stack listing

--nested

Include nested stacks in the stack listing

--hidden

Include hidden stacks in the stack listing

--property <key=value>

Filter properties to apply on returned stacks (repeat to filter on multiple properties)

--tags <tag1,tag2...>

List of tags to filter by. Can be combined with --tag- mode to specify how to filter tags

--tag-mode <mode>

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

--limit <limit>

The number of stacks returned

--marker <id>

Only return stacks that appear after the given ID

--sort <key>[:<direction>]

Sort output by selected keys and directions (asc or desc) (default: asc). Specify multiple times to sort on multiple properties

--all-projects

Include all projects (admin only)

--short

List fewer fields in output

--long

List additional fields in output, this is implied by --all-projects

3.3.340. openstack stack output list

```
usage: openstack stack output list [-h] [-f]
```

```
{csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent]
                                [--quote
{all,minimal,none,nonnumeric}]
                                <stack>
```

List stack outputs.

Positional arguments:

<stack>

Name or ID of stack to query

Optional arguments:

-h, --help

show this help message and exit

3.3.341. openstack stack output show

```
usage: openstack stack output show [-h]
                                [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX] [--
all]
                                <stack> [<output>]
```

Show stack output.

Positional arguments:

<stack>

Name or ID of stack to query

<output>

Name of an output to display

Optional arguments:

-h, --help

show this help message and exit

--all

Display all stack outputs

3.3.342. openstack stack resource list

```
usage: openstack stack resource list [-h]
                                     [-f
{csv,html,json,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--noindent]
                                     [--quote
{all,minimal,none,nonnumeric}]
                                     [--long] [-n <nested-depth>]
                                     [--filter <key=value>]
                                     <stack>
```

List stack resources.

Positional arguments:

<stack>

Name or ID of stack to query

Optional arguments:

-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

3.3.343. openstack stack resource mark unhealthy

3.3.343. openstack stack resource mark unhealthy

```
usage: openstack stack resource mark unhealthy [-h] [--reset]
                                             <stack> <resource>
                                             [reason]
```

Set resource's health.

Positional arguments:

<stack>

Name or ID of stack the resource belongs to

<resource>

Name of the resource

reason

Reason for state change

Optional arguments:

-h, --help

show this help message and exit

--reset

Set the resource as healthy

3.3.344. openstack stack resource metadata

```
usage: openstack stack resource metadata [-h]
                                         [-f
{html,json,shell,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--noindent] [--prefix PREFIX]
                                         <stack> <resource>
```

Show resource metadata

Positional arguments:

<stack>

Stack to display (name or ID)

<resource>

Name of the resource to show the metadata for

Optional arguments:

-h, --help

show this help message and exit

3.3.345. openstack stack resource show

```
usage: openstack stack resource show [-h]
                                     [-f
                                     {html,json,shell,table,value,yaml}]
                                     [-c COLUMN] [--max-width
                                     <integer>]
                                     [--noindent] [--prefix PREFIX]
                                     [--with-attr <attribute>]
                                     <stack> <resource>
```

Display stack resource.

Positional arguments:

<stack>

Name or ID of stack to query

<resource>

Name or ID of resource

Optional arguments:

-h, --help

show this help message and exit

--with-attr <attribute>

Attribute to show, can be specified multiple times

3.3.346. openstack stack resource signal

```
usage: openstack stack resource signal [-h] [--data <data>]
                                     [--data-file <data-file>]
                                     <stack> <resource>
```

Signal a resource with optional data.

Positional arguments:

<stack>

Name or ID of stack the resource belongs to

<resource>

Name of the resource to signal

Optional arguments:

-h, --help

show this help message and exit

--data <data>

JSON Data to send to the signal handler

--data-file <data-file>

File containing JSON data to send to the signal handler

3.3.347. openstack stack resume

```
usage: openstack stack resume [-h] [-f {csv,html,json,table,value,yaml}]
                              [-c COLUMN] [--max-width <integer>] [--
noindent]
                              [--quote {all,minimal,none,nonnumeric}] [-
wait]
                              <stack> [<stack> ...]
```

Resume a stack.

Positional arguments:

<stack>

Stack(s) to resume (name or ID)

Optional arguments:

-h, --help

show this help message and exit

--wait

Wait for resume to complete

3.3.348. openstack stack show

```
usage: openstack stack show [-h] [-f {html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX]
                             <stack>
```

Show stack details.

Positional arguments:

<stack>

Stack to display (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.349. openstack stack snapshot create

```
usage: openstack stack snapshot create [-h]
                                         [-f
{html,json,shell,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--noindent] [--prefix PREFIX]
                                         [--name <name>]
                                         <stack>
```

Create stack snapshot.

Positional arguments:**<stack>**

Name or ID of stack

Optional arguments:**-h, --help**

show this help message and exit

--name <name>

Name of snapshot

3.3.350. openstack stack snapshot delete

```
usage: openstack stack snapshot delete [-h] <stack> <snapshot>
```

Delete stack snapshot.

Positional arguments:**<stack>**

Name or ID of stack

<snapshot>

ID of stack snapshot

Optional arguments:**-h, --help**

show this help message and exit

3.3.351. openstack stack snapshot list

```
usage: openstack stack snapshot list [-h]
                                     [-f
                                     {csv,html,json,table,value,yaml}]
                                     [-c COLUMN] [--max-width
                                     <integer>]
```

```
{all,minimal,none,nonnumeric}]
[ --noindent]
[ --quote
<stack>
```

List stack snapshots.

Positional arguments:

<stack>

Name or ID of stack containing the snapshots

Optional arguments:

-h, --help

show this help message and exit

3.3.352. openstack stack snapshot restore

```
usage: openstack stack snapshot restore [-h] <stack> <snapshot>
```

Restore stack snapshot

Positional arguments:

<stack>

Name or ID of stack containing the snapshot

<snapshot>

ID of the snapshot to restore

Optional arguments:

-h, --help

show this help message and exit

3.3.353. openstack stack snapshot show

```
usage: openstack stack snapshot show [-h]
[-f
```

```
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width
<integer>]
                                [--noindent] [--prefix PREFIX]
<stack> <snapshot>
```

Show stack snapshot.

Positional arguments:

<stack>

Name or ID of stack containing the snapshot

<snapshot>

ID of the snapshot to show

Optional arguments:

-h, --help

show this help message and exit

3.3.354. openstack stack suspend

```
usage: openstack stack suspend [-h] [-f {csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--wait]
                                <stack> [<stack> ...]
```

Suspend a stack.

Positional arguments:

<stack>

Stack(s) to suspend (name or ID)

Optional arguments:

-h, --help

show this help message and exit

--wait

Wait for suspend to complete

3.3.355. openstack stack template show

```
usage: openstack stack template show [-h]
                                     [-f
{html,json,shell,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--noindent] [--prefix PREFIX]
                                     <stack>
```

Display stack template.

Positional arguments:

<stack>

Name or ID of stack to query

Optional arguments:

-h, --help

show this help message and exit

3.3.356. openstack stack update

```
usage: openstack stack update [-h] [-f
{html,json,shell,table,value,yaml}]
                               [-c COLUMN] [--max-width <integer>] [--
noindent]
                               [--prefix PREFIX] [-t <template>]
                               [-e <environment>] [--pre-update
<resource>]
                               [--timeout <timeout>] [--rollback
<value>]
                               [--dry-run] [--parameter <key=value>]
                               [--parameter-file <key=file>] [--existing]
                               [--clear-parameter <parameter>]
                               [--tags <tag1,tag2...>] [--wait]
                               <stack>
```

Update a stack.

Positional arguments:**<stack>**

Name or ID of stack to update

Optional arguments:**-h, --help**

show this help message and exit

-t <template>, --template <template>

Path to the template

-e <environment>, --environment <environment>

Path to the environment. Can be specified multiple times

--pre-update <resource>

Name of a resource to set a pre-update 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

--timeout <timeout>

Stack update timeout in minutes

--rollback <value>

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)

--dry-run

Do not actually perform the stack update, but show what would be changed

--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 value would be the content of the file

--existing

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 --environment is specified then the existing environment is used. Parameters specified in --parameter will patch over the existing values in the current stack. Parameters omitted will keep the existing values

--clear-parameter <parameter>

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

--tags <tag1,tag2...>

An updated list of tags to associate with the stack

--wait

Wait until stack goes to UPDATE_COMPLETE or UPDATE_FAILED

3.3.357. openstack subnet delete

```
usage: openstack subnet delete [-h] <subnet>
```

Delete subnet

Positional arguments:**<subnet>**

Subnet to delete (name or ID)

Optional arguments:**-h, --help**

show this help message and exit

3.3.358. openstack subnet list

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

```
long]
```

```
[--ip-version <ip-version>]
```

List subnets

Optional arguments:

-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.

3.3.359. openstack subnet pool delete

```
usage: openstack subnet pool delete [-h] <subnet-pool>
```

Delete subnet pool

Positional arguments:

<subnet-pool>

Subnet pool to delete (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.360. openstack subnet pool list

```
usage: openstack subnet pool list [-h] [-f
{csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent]
                                [--quote
{all,minimal,none,nonnumeric}]
                                [--long]
```

■

List subnet pools

Optional arguments:

-h, --help

show this help message and exit

--long

List additional fields in output

3.3.361. openstack subnet pool show

```
usage: openstack subnet pool show [-h] [-f {html,json,shell,table,value,yaml}]
                                   [-c COLUMN] [--max-width <integer>]
                                   [--noindent] [--prefix PREFIX]
                                   <subnet-pool>
```

Display subnet pool details

Positional arguments:

<subnet-pool>

Subnet pool to display (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.362. openstack subnet show

```
usage: openstack subnet show [-h] [-f {html,json,shell,table,value,yaml}]
                              [-c COLUMN] [--max-width <integer>] [--noindent]
                              [--prefix PREFIX]
                              <subnet>
```

Display subnet details

Positional arguments:**<subnet>**

Subnet to display (name or ID)

Optional arguments:**-h, --help**

show this help message and exit

3.3.363. openstack tld create

```
usage: openstack tld create [-h] [-f {html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX] --name NAME
                             [--description DESCRIPTION]
```

Create new tld

Optional arguments:**-h, --help**

show this help message and exit

--name NAME

TLD Name

--description DESCRIPTION

Description

3.3.364. openstack tld delete

```
usage: openstack tld delete [-h] id
```

Delete tld

Positional arguments:**id**

TLD ID

Optional arguments:

-h, --help

show this help message and exit

3.3.365. openstack tld list

```
usage: openstack tld list [-h] [-f {csv,html,json,table,value,yaml}]
                        [-c COLUMN] [--max-width <integer>] [--
noindent]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--name NAME] [--description DESCRIPTION]
```

List tlds

Optional arguments:

-h, --help

show this help message and exit

--name NAME

TLD NAME

--description DESCRIPTION

TLD Description

3.3.366. openstack tld set

```
usage: openstack tld set [-h] [-f {html,json,shell,table,value,yaml}]
                        [-c COLUMN] [--max-width <integer>] [--
noindent]
                        [--prefix PREFIX] [--name NAME]
                        [--description DESCRIPTION | --no-description]
id
```

Set tld properties

Positional arguments:

id

TLD ID

Optional arguments:

-h, --help

show this help message and exit

--name NAME

TLD Name

--description DESCRIPTION

Description

--no-description

3.3.367. openstack tld show

```
usage: openstack tld show [-h] [-f {html,json,shell,table,value,yaml}]
                        [-c COLUMN] [--max-width <integer>] [--
noindent]
                        [--prefix PREFIX]
                        id
```

Show tld details

Positional arguments:

id

TLD ID

Optional arguments:

-h, --help

show this help message and exit

3.3.368. openstack token issue

```
usage: openstack token issue [-h] [-f {html,json,shell,table,value,yaml}]
                        [-c COLUMN] [--max-width <integer>] [--
noindent]
                        [--prefix PREFIX]
```

-

Issue new token

Optional arguments:

-h, --help

show this help message and exit

3.3.369. openstack token revoke

```
usage: openstack token revoke [-h] <token>
```

Revoke existing token

Positional arguments:

<token>

Token to be deleted

Optional arguments:

-h, --help

show this help message and exit

3.3.370. openstack trust create

```
usage: openstack trust create [-h] [-f
{html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX] --project <project> --
role
                             <role> [--impersonate]
                             [--expiration <expiration>]
                             [--project-domain <project-domain>]
                             [--trustor-domain <trustor-domain>]
                             [--trustee-domain <trustee-domain>]
                             <trustor-user> <trustee-user>
```

Create new trust

Positional arguments:

<trustor-user>

User that is delegating authorization (name or ID)

<trustee-user>

User that is assuming authorization (name or ID)

Optional arguments:

-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.

--trustor-domain <trustor-domain>

Domain that contains <trustor> (name or ID)

--trustee-domain <trustee-domain>

Domain that contains <trustee> (name or ID)

3.3.371. openstack trust delete

usage: openstack trust delete [-h] <trust> [<trust> ...]

Delete trust(s)

Positional arguments:

<trust>

Trust(s) to delete

Optional arguments:

-h, --help

show this help message and exit

3.3.372. openstack trust list

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

List trusts

Optional arguments:

-h, --help

show this help message and exit

3.3.373. openstack trust show

```
usage: openstack trust show [-h] [-f {html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX]
                             <trust>
```

Display trust details

Positional arguments:

<trust>

Trust to display

Optional arguments:**-h, --help**

show this help message and exit

3.3.374. openstack usage list

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

List resource usage per project

Optional arguments:**-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)

3.3.375. openstack usage show

```
usage: openstack usage show [-h] [-f {html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX] [--project <project>]
                             [--start <start>] [--end <end>]
```

Show resource usage for a single project

Optional arguments:**-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)

3.3.376. openstack user create

```
usage: openstack user create [-h] [-f {html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX] [--domain <domain>]
                             [--project <project>]
                             [--project-domain <project-domain>]
                             [--password <password>] [--password-prompt]
                             [--email <email-address>]
                             [--description <description>]
                             [--enable | --disable] [--or-show]
                             <name>
```

Create new user

Positional arguments:

<name>

New user name

Optional arguments:

-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

--enable

Enable user (default)

--disable

Disable user

--or-show

Return existing user

3.3.377. openstack user delete

```
usage: openstack user delete [-h] [--domain <domain>] <user> [<user> ...]
```

Delete user(s)

Positional arguments:

<user>

User(s) to delete (name or ID)

Optional arguments:

-h, --help

show this help message and exit

--domain <domain>

Domain owning <user> (name or ID)

3.3.378. openstack user list

```
usage: openstack user list [-h] [-f {csv,html,json,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--domain <domain>]
                             [--group <group> | --project <project>] [--
long]
```

List users

Optional arguments:**-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

3.3.379. openstack user password set

```
usage: openstack user password set [-h] [--password <new-password>]
                                     [--original-password <original-
password>]
```

Change current user password

Optional arguments:

-h, --help

show this help message and exit

--password <new-password>

New user password

--original-password <original-password>

Original user password

3.3.380. openstack user set

```
usage: openstack user set [-h] [--name <name>] [--project <project>]
                        [--project-domain <project-domain>]
                        [--password <password>] [--password-prompt]
                        [--email <email-address>]
                        [--description <description>] [--enable | --
disable]
                        <user>
```

Set user properties

Positional arguments:

<user>

User to change (name or ID)

Optional arguments:

-h, --help

show this help message and exit

--name <name>

Set user name

--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

--email <email-address>

Set user email address

--description <description>

Set user description

--enable

Enable user (default)

--disable

Disable user

3.3.381. openstack user show

```
usage: openstack user show [-h] [-f {html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX] [--domain <domain>]
                             <user>
```

Display user details

Positional arguments:

<user>

User to display (name or ID)

Optional arguments:**-h, --help**

show this help message and exit

--domain <domain>

Domain owning <user> (name or ID)

3.3.382. openstack volume create

```
usage: openstack volume create [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX] --size
<size>
                                [--type <volume-type>] [--image <image>]
                                [--snapshot <snapshot>] [--source
<volume>]
                                [--description <description>] [--user
<user>]
                                [--project <project>]
                                [--availability-zone <availability-
zone>]
                                [--property <key=value>]
                                <name>
```

Create new volume

Positional arguments:**<name>**

Volume name

Optional arguments:**-h, --help**

show this help message and exit

--size <size>

Volume size in GB

--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)

--source <volume>

Volume to clone (name or ID)

--description <description>

Volume description

--user <user>

Specify an alternate user (name or ID)

--project <project>

Specify an alternate project (name or ID)

--availability-zone <availability-zone>

Create volume in <availability-zone>

--property <key=value>

Set a property to this volume (repeat option to set multiple properties)

3.3.383. openstack volume delete

```
usage: openstack volume delete [-h] [--force] <volume> [<volume> ...]
```

Delete volume(s)

Positional arguments:

<volume>

Volume(s) to delete (name or ID)

Optional arguments:**-h, --help**

show this help message and exit

--force

Attempt forced removal of volume(s), regardless of state (defaults to False)

3.3.384. openstack volume list

```
usage: openstack volume list [-h] [-f {csv,html,json,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--project <project>]
                             [--project-domain <project-domain>]
                             [--user <user>] [--user-domain <user-
domain>]
                             [--name <name>] [--status <status>]
                             [--all-projects] [--long]
```

List volumes

Optional arguments:**-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.

--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

3.3.385. openstack volume qos associate

```
usage: openstack volume qos associate [-h] <qos-spec> <volume-type>
```

Associate a QoS specification to a volume type

Positional arguments:

<qos-spec>

QoS specification to modify (name or ID)

<volume-type>

Volume type to associate the QoS (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.386. openstack volume qos create

```
usage: openstack volume qos create [-h]
                                   [-f]
                                   {html,json,shell,table,value,yaml}]
```



```

[-c COLUMN] [--max-width <integer>]
[--noindent] [--prefix PREFIX]
[--consumer <consumer>]
[--property <key=value>]
<name>

```

Create new QoS specification

Positional arguments:

<name>

New QoS specification name

Optional arguments:

-h, --help

show this help message and exit

--consumer <consumer>

Consumer of the QoS. Valid consumers: back-end, both, front-end (defaults to 'both')

--property <key=value>

Set a QoS specification property (repeat option to set multiple properties)

3.3.387. openstack volume qos delete

```
usage: openstack volume qos delete [-h] <qos-spec> [<qos-spec> ...]
```

Delete QoS specification

Positional arguments:

<qos-spec>

QoS specification(s) to delete (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.388. openstack volume qos disassociate

```
usage: openstack volume qos disassociate [-h]
                                         [--volume-type <volume-type> |
                                         --all]
                                         <qos-spec>
```

Disassociate a QoS specification from a volume type

Positional arguments:

<qos-spec>

QoS specification to modify (name or ID)

Optional arguments:

-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

3.3.389. openstack volume qos list

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

List QoS specifications

Optional arguments:

-h, --help

show this help message and exit

3.3.390. openstack volume qos set

```
usage: openstack volume qos set [-h] [--property <key=value>] <qos-spec>
```

Set QoS specification properties

Positional arguments:

<qos-spec>

QoS specification to modify (name or ID)

Optional arguments:

-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)

3.3.391. openstack volume qos show

```
usage: openstack volume qos show [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                <qos-spec>
```

Display QoS specification details

Positional arguments:

<qos-spec>

QoS specification to display (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.392. openstack volume qos unset

```
usage: openstack volume qos unset [-h] [--property <key>] <qos-spec>
```

Unset QoS specification properties

Positional arguments:

<qos-spec>

QoS specification to modify (name or ID)

Optional arguments:

-h, --help

show this help message and exit

--property <key>

Property to remove from the QoS specification. (repeat option to unset multiple properties)

3.3.393. openstack volume set

```
usage: openstack volume set [-h] [--name <name>] [--size <size>]
                             [--description <description>]
                             [--property <key=value>]
                             [--image-property <key=value>]
                             <volume>
```

Set volume properties

Positional arguments:

<volume>

Volume to modify (name or ID)

Optional arguments:

-h, --help

show this help message and exit

--name <name>

New volume name

--size <size>

Extend volume size in GB

--description <description>

New volume description

--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)

3.3.394. openstack volume show

```
usage: openstack volume show [-h] [-f {html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--noindent]
                             [--prefix PREFIX]
                             <volume-id>
```

Display volume details

Positional arguments:

<volume-id>

Volume to display (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.395. openstack volume type create

```
usage: openstack volume type create [-h]
                                     [-f {html,json,shell,table,value,yaml}]
                                     [-c COLUMN] [--max-width <integer>]
                                     [--noindent] [--prefix PREFIX]
```

```
[--description <description>]
[--public | --private]
[--property <key=value>]
<name>
```

Create new volume type

Positional arguments:

<name>

Volume type name

Optional arguments:

-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)

3.3.396. openstack volume type delete

```
usage: openstack volume type delete [-h] <volume-type>
```

Delete volume type

Positional arguments:

<volume-type>

Volume type to delete (name or ID)

Optional arguments:

-h, --help

show this help message and exit

3.3.397. openstack volume type list

```
usage: openstack volume type list [-h] [-f
{csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent]
                                [--quote
{all,minimal,none,nonnumeric}]
                                [--long]
```

List volume types

Optional arguments:

-h, --help

show this help message and exit

--long

List additional fields in output

3.3.398. openstack volume type set

```
usage: openstack volume type set [-h] [--name <name>] [--description
<name>]
                                [--property <key=value>]
                                [--project <project>]
                                [--project-domain <project-domain>]
                                <volume-type>
```

Set volume type properties

Positional arguments:

<volume-type>

Volume type to modify (name or ID)

Optional arguments:**-h, --help**

show this help message and exit

--name <name>

Set volume type name

--description <name>

Set volume type description

--property <key=value>

Set a property on this volume type (repeat option to set multiple properties)

--project <project>

Set 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.

3.3.399. openstack volume type show

```
usage: openstack volume type show [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                <volume-type>
```

Display volume type details

Positional arguments:**<volume-type>**

Volume type to display (name or ID)

Optional arguments:**-h, --help**

show this help message and exit

3.3.400. openstack volume type unset

```
usage: openstack volume type unset [-h] [--property <key>]
                                     [--project <project>]
                                     [--project-domain <project-domain>]
                                     <volume-type>
```

Unset volume type properties

Positional arguments:

<volume-type>

Volume type to modify (name or ID)

Optional arguments:

-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.

3.3.401. openstack volume unset

```
usage: openstack volume unset [-h] [--property <key>] [--image-property
<key>]
                                <volume>
```

Unset volume properties

Positional arguments:

<volume>

Volume to modify (name or ID)

Optional arguments:

-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)

3.3.402. openstack zone abandon

```
usage: openstack zone abandon [-h] id
```

Abandon a zone

Positional arguments:

id

Zone ID

Optional arguments:

-h, --help

show this help message and exit

3.3.403. openstack zone axfr

```
usage: openstack zone axfr [-h] id
```

AXFR a zone

Positional arguments:

id

Zone ID

Optional arguments:**-h, --help**

show this help message and exit

3.3.404. openstack zone blacklist create

```
usage: openstack zone blacklist create [-h]
                                         [-f
{html,json,shell,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--noindent] [--prefix PREFIX]
                                         --pattern PATTERN
                                         [--description DESCRIPTION]
```

Create new blacklist

Optional arguments:**-h, --help**

show this help message and exit

--pattern PATTERN

Blacklist pattern

--description DESCRIPTION

Description

3.3.405. openstack zone blacklist delete

```
usage: openstack zone blacklist delete [-h] id
```

Delete blacklist

Positional arguments:

id

Blacklist ID

Optional arguments:**-h, --help**

show this help message and exit

3.3.406. openstack zone blacklist list

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

List blacklists

Optional arguments:**-h, --help**

show this help message and exit

3.3.407. openstack zone blacklist set

```
usage: openstack zone blacklist set [-h]
                                     [-f
{html,json,shell,table,value,yaml}]
                                     [-c COLUMN] [--max-width <integer>]
                                     [--noindent] [--prefix PREFIX]
                                     [--pattern PATTERN]
                                     [--description DESCRIPTION | --no-
description]
                                     id
```

Set blacklist properties

Positional arguments:**id**

Blacklist ID

Optional arguments:

-h, --help

show this help message and exit

--pattern PATTERN

Blacklist pattern

--description DESCRIPTION

Description

--no-description

3.3.408. openstack zone blacklist show

```
usage: openstack zone blacklist show [-h]
                                     [-f
{html,json,shell,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--noindent] [--prefix PREFIX]
id
```

Show blacklist details

Positional arguments:

id

Blacklist ID

Optional arguments:

-h, --help

show this help message and exit

3.3.409. openstack zone create

```
usage: openstack zone create [-h] [-f {html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
```

```
noindent]
                                [--prefix PREFIX] [--email EMAIL] [--type
TYPE]
                                [--ttl TTL] [--description DESCRIPTION]
                                [--masters MASTERS [MASTERS ...]]
                                name
```

Create new zone

Positional arguments:

name

Zone Name

Optional arguments:

-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

3.3.410. openstack zone delete

```
usage: openstack zone delete [-h] id
```

Delete zone

Positional arguments:**id**

Zone ID

Optional arguments:**-h, --help**

show this help message and exit

3.3.411. openstack zone list

```
usage: openstack zone list [-h] [-f {csv,html,json,table,value,yaml}]
                           [-c COLUMN] [--max-width <integer>] [--
noindent]
                           [--quote {all,minimal,none,nonnumeric}]
                           [--name NAME] [--email EMAIL] [--type TYPE]
                           [--ttl TTL] [--description DESCRIPTION]
                           [--status STATUS]
```

List zones

Optional arguments:**-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

--status STATUS

Zone Status

3.3.412. openstack zone set

```
usage: openstack zone set [-h] [-f {html,json,shell,table,value,yaml}]
                           [-c COLUMN] [--max-width <integer>] [--
noindent]
                           [--prefix PREFIX] [--email EMAIL] [--ttl TTL]
                           [--description DESCRIPTION | --no-description]
                           [--masters MASTERS [MASTERS ...]]
id
```

Set zone properties

Positional arguments:

id

Zone ID

Optional arguments:

-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

3.3.413. openstack zone show

```
usage: openstack zone show [-h] [-f {html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX]
                             id
```

Show zone details

Positional arguments:

id

Zone ID

Optional arguments:

-h, --help

show this help message and exit

3.3.414. openstack zone transfer accept request

```
usage: openstack zone transfer accept request [-h]
                                                [-f
{html,json,shell,table,value,yaml}]
                                                [-c COLUMN]
                                                [--max-width <integer>]
                                                [--noindent] [--prefix
PREFIX]
                                                --transfer-id TRANSFER_ID
--key KEY
```

Accept a Zone Transfer Request

Optional arguments:

-h, --help

show this help message and exit

--transfer-id TRANSFER_ID

Transfer ID

--key KEY

Transfer Key

3.3.415. openstack zone transfer accept show

```
usage: openstack zone transfer accept show [-h]
                                           [-f]
                                           {html,json,shell,table,value,yaml}
                                           [-c COLUMN] [--max-width
<integer>]
                                           [--noindent] [--prefix
PREFIX]
                                           id
```

Show Zone Transfer Accept

Positional arguments:

id

Zone Transfer Accept ID

Optional arguments:

-h, --help

show this help message and exit

3.3.416. openstack zone transfer request create

```
usage: openstack zone transfer request create [-h]
                                              [-f]
                                              {html,json,shell,table,value,yaml}
                                              [-c COLUMN]
                                              [--max-width <integer>]
                                              [--noindent] [--prefix
PREFIX]
                                              [--target-project-id
TARGET_PROJECT_ID]
                                              [--description
DESCRIPTION]
                                              zone_id
```

Create new zone transfer request

Positional arguments:

zone_id

Zone ID to transfer.

Optional arguments:

-h, --help

show this help message and exit

--target-project-id TARGET_PROJECT_ID

Target Project ID to transfer to.

--description DESCRIPTION

Description

3.3.417. openstack zone transfer request delete

```
usage: openstack zone transfer request delete [-h] id
```

Delete a Zone Transfer Request

Positional arguments:

id

Zone Transfer Request ID

Optional arguments:

-h, --help

show this help message and exit

3.3.418. openstack zone transfer request list

```
usage: openstack zone transfer request list [-h]
                                           [-f]
                                           {csv,html,json,table,value,yaml}]
```

```

{all,minimal,none,nonnumeric}}
[-c COLUMN]
[--max-width <integer>]
[--noindent]
[--quote

```

List Zone Transfer Requests

Optional arguments:

-h, --help

show this help message and exit

3.3.419. openstack zone transfer request set

```

usage: openstack zone transfer request set [-h]
                                           [-f
{html,json,shell,table,value,yaml}]
                                           [-c COLUMN] [--max-width
<integer>]
                                           [--noindent] [--prefix
PREFIX]
                                           [--description DESCRIPTION |
--no-description]
                                           id

```

Set a Zone Transfer Request

Positional arguments:

id

Zone Transfer Request ID

Optional arguments:

-h, --help

show this help message and exit

--description DESCRIPTION

Description

--no-description

3.3.420. openstack zone transfer request show

```
usage: openstack zone transfer request show [-h]
                                           [-f
{html,json,shell,table,value,yaml}]
                                           [-c COLUMN]
                                           [--max-width <integer>]
                                           [--noindent] [--prefix
PREFIX]
                                           id
```

Show Zone Transfer Request Details

Positional arguments:

id

Zone Transfer Request ID

Optional arguments:

-h, --help

show this help message and exit

CHAPTER 4. CONFIGURATION FILE EDITOR

The **openstack-config** client is the command-line interface (CLI) for the and its extensions. This chapter documents **openstack-config** version **0.5**.

For help on a specific **openstack-config** command, enter:

```
$ openstack-config help COMMAND
```

4.1. OPENSTACK-CONFIG USAGE

```
Usage: crudini --set [OPTION]... config_file section [param] [value]
crudini --get [OPTION]... config_file [section] [param] crudini --del
[OPTION]... config_file section [param] [list value] crudini --merge
[OPTION]... config_file [section]
```

4.2. OPENSTACK-CONFIG OPTIONAL ARGUMENTS

--existing[=WHAT]

For --set, --del and --merge, fail if item is missing, where WHAT is 'file', 'section', or 'param', or if not specified; all specified items.

--format=FMT

For --get, select the output FMT. Formats are sh,ini,lines

--inplace

Lock and write files in place. This is not atomic but has less restrictions than the default replacement method.

--list

For --set and --del, update a list (set) of values

--list-sep=STR

Delimit list values with "STR" instead of " , "

--output=FILE

Write output to FILE instead. '-' means stdout

--verbose

Indicate on stderr if changes were made

CHAPTER 5. BLOCK STORAGE SERVICE COMMAND-LINE CLIENT

The **cinder** client is the command-line interface (CLI) for the Block Storage service API and its extensions. This chapter documents **cinder** version **1.6.0**.

For help on a specific **cinder** command, enter:

```
$ cinder help COMMAND
```

5.1. CINDER USAGE

```
usage: cinder [--version] [-d] [--os-auth-system <auth-system>] [--service-type <service-type>] [--service-name <service-name>] [--volume-service-name <volume-service-name>] [--os-endpoint-type <os-endpoint-type>] [--endpoint-type <endpoint-type>] [--os-volume-api-version <volume-api-ver>] [--bypass-url <bypass-url>] [--retries <retries>] [--profile HMAC_KEY] [--os-auth-strategy <auth-strategy>] [--os-username <auth-user-name>] [--os-password <auth-password>] [--os-tenant-name <auth-tenant-name>] [--os-tenant-id <auth-tenant-id>] [--os-auth-url <auth-url>] [--os-user-id <auth-user-id>] [--os-user-domain-id <auth-user-domain-id>] [--os-user-domain-name <auth-user-domain-name>] [--os-project-id <auth-project-id>] [--os-project-name <auth-project-name>] [--os-project-domain-id <auth-project-domain-id>] [--os-project-domain-name <auth-project-domain-name>] [--os-region-name <region-name>] [--os-token <token>] [--os-url <url>] [--insecure] [--os-cacert <ca-certificate>] [--os-cert <certificate>] [--os-key <key>] [--timeout <seconds>] <subcommand> ...
```

Subcommands

absolute-limits

Lists absolute limits for a user.

availability-zone-list

Lists all availability zones.

backup-create

Creates a volume backup.

backup-delete

Removes one or more backups.

backup-export

Export backup metadata record.

backup-import

Import backup metadata record.

backup-list

Lists all backups.

backup-reset-state

Explicitly updates the backup state.

backup-restore

Restores a backup.

backup-show

Shows backup details.

cgsnapshot-create

Creates a cgsnapshot.

cgsnapshot-delete

Removes one or more cgsnapshots.

cgsnapshot-list

Lists all cgsnapshots.

cgsnapshot-show

Shows cgsnapshot details.

consisgroup-create

Creates a consistency group.

consisgroup-create-from-src

Creates a consistency group from a cgsnapshot or a source CG.

consisgroup-delete

Removes one or more consistency groups.

consisgroup-list

Lists all consistencygroups.

consisgroup-show

Shows details of a consistency group.

consisgroup-update

Updates a consistencygroup.

create

Creates a volume.

credentials

Shows user credentials returned from auth.

delete

Removes one or more volumes.

encryption-type-create

Creates encryption type for a volume type. Admin only.

encryption-type-delete

Deletes encryption type for a volume type. Admin only.

encryption-type-list

Shows encryption type details for volume types. Admin only.

encryption-type-show

Shows encryption type details for a volume type. Admin only.

encryption-type-update

Update encryption type information for a volume type (Admin Only).

endpoints

Discovers endpoints registered by authentication service.

extend

Attempts to extend size of an existing volume.

extra-specs-list

Lists current volume types and extra specs.

failover-host

force-delete

Attempts force-delete of volume, regardless of state.

freeze-host

get-capabilities

Show backend volume stats and properties. Admin only.

get-pools

Show pool information for backends. Admin only.

image-metadata

Sets or deletes volume image metadata.

image-metadata-show

Shows volume image metadata.

list

Lists all volumes.

manage

Manage an existing volume.

metadata

Sets or deletes volume metadata.

metadata-show

Shows volume metadata.

metadata-update-all

Updates volume metadata.

migrate

Migrates volume to a new host.

qos-associate

Associates qos specs with specified volume type.

qos-create

Creates a qos specs.

qos-delete

Deletes a specified qos specs.

qos-disassociate

Disassociates qos specs from specified volume type.

qos-disassociate-all

Disassociates qos specs from all its associations.

qos-get-association

Lists all associations for specified qos specs.

qos-key

Sets or unsets specifications for a qos spec.

qos-list

Lists qos specs.

qos-show

Shows qos specs details.

quota-class-show

Lists quotas for a quota class.

quota-class-update

Updates quotas for a quota class.

quota-defaults

Lists default quotas for a tenant.

quota-delete

Delete the quotas for a tenant.

quota-show

Lists quotas for a tenant.

quota-update

Updates quotas for a tenant.

quota-usage

Lists quota usage for a tenant.

rate-limits

Lists rate limits for a user.

readonly-mode-update

Updates volume read-only access-mode flag.

rename

Renames a volume.

replication-promote

Promote a secondary volume to primary for a relationship.

replication-reenable

Sync the secondary volume with primary for a relationship.

reset-state

Explicitly updates the volume state in the Cinder database.

retype

Changes the volume type for a volume.

service-disable

Disables the service.

service-enable

Enables the service.

service-list

Lists all services. Filter by host and service binary.

set-bootable

Update bootable status of a volume.

show

Shows volume details.

snapshot-create

Creates a snapshot.

snapshot-delete

Removes one or more snapshots.

snapshot-list

Lists all snapshots.

snapshot-manage

Manage an existing snapshot.

snapshot-metadata

Sets or deletes snapshot metadata.

snapshot-metadata-show

Shows snapshot metadata.

snapshot-metadata-update-all

Updates snapshot metadata.

snapshot-rename

Renames a snapshot.

snapshot-reset-state

Explicitly updates the snapshot state.

snapshot-show

Shows snapshot details.

snapshot-unmanage

Stop managing a snapshot.

thaw-host

transfer-accept

Accepts a volume transfer.

transfer-create

Creates a volume transfer.

transfer-delete

Undoes a transfer.

transfer-list

Lists all transfers.

transfer-show

Shows transfer details.

type-access-add

Adds volume type access for the given project.

type-access-list

Print access information about the given volume type.

type-access-remove

Removes volume type access for the given project.

type-create

Creates a volume type.

type-default

List the default volume type.

type-delete

Deletes a volume type.

type-key

Sets or unsets extra_spec for a volume type.

type-list

Lists available 'volume types'. (Admin only will see private types)

type-show

Show volume type details.

type-update

Updates volume type name, description, and/or is_public.

unmanage

Stop managing a volume.

upload-to-image

Uploads volume to Image Service as an image.

bash-completion

Prints arguments for bash_completion.

help

Shows help about this program or one of its subcommands.

list-extensions

Lists all available os-api extensions.

5.2. CINDER OPTIONAL ARGUMENTS

--version

show program's version number and exit

-d, --debug

Shows debugging output.

--os-auth-system <auth-system>

Defaults to **env[OS_AUTH_SYSTEM]**.

--service-type <service-type>

Service type. For most actions, default is volume.

--service-name <service-name>

Service name. Default=**env[CINDER_SERVICE_NAME]**.

--volume-service-name <volume-service-name>

Volume service name. Default=**env[CINDER_VOLUME_SERVICE_NAME]**.

--os-endpoint-type <os-endpoint-type>

Endpoint type, which is publicURL or internalURL. Default=**env[OS_ENDPOINT_TYPE]** or nova **env[CINDER_ENDPOINT_TYPE]** or publicURL.

--endpoint-type <endpoint-type>

DEPRECATED! Use --os-endpoint-type.

--os-volume-api-version <volume-api-ver>

Block Storage API version. Valid values are 1 or 2.

Default=`env[OS_VOLUME_API_VERSION]`.

--bypass-url <bypass-url>

Use this API endpoint instead of the Service Catalog. Defaults to

`env[CINDERCLIENT_BYPASS_URL]`.

--retries <retries>

Number of retries.

--profile HMAC_KEY

HMAC key to use for encrypting context data for performance profiling of operation. This key needs to match the one configured on the cinder api server. Without key the profiling will not be triggered even if osprofiler is enabled on server side.

--os-auth-strategy <auth-strategy>

Authentication strategy (Env: `OS_AUTH_STRATEGY`, default keystone). For now, any other value will disable the authentication.

--os-username <auth-user-name>

OpenStack user name. Default=`env[OS_USERNAME]`.

--os-password <auth-password>

Password for OpenStack user. Default=`env[OS_PASSWORD]`.

--os-tenant-name <auth-tenant-name>

Tenant name. Default=`env[OS_TENANT_NAME]`.

--os-tenant-id <auth-tenant-id>

ID for the tenant. Default=`env[OS_TENANT_ID]`.

--os-auth-url <auth-url>

URL for the authentication service. Default=`env[OS_AUTH_URL]`.

--os-user-id <auth-user-id>

Authentication user ID (Env: `OS_USER_ID`).

--os-user-domain-id <auth-user-domain-id>

OpenStack user domain ID. Defaults to `env[OS_USER_DOMAIN_ID]`.

--os-user-domain-name <auth-user-domain-name>

OpenStack user domain name. Defaults to `env[OS_USER_DOMAIN_NAME]`.

--os-project-id <auth-project-id>

Another way to specify tenant ID. This option is mutually exclusive with `--os-tenant-id`. Defaults to `env[OS_PROJECT_ID]`.

--os-project-name <auth-project-name>

Another way to specify tenant name. This option is mutually exclusive with `--os-tenant-name`. Defaults to `env[OS_PROJECT_NAME]`.

--os-project-domain-id <auth-project-domain-id>

Defaults to `env[OS_PROJECT_DOMAIN_ID]`.

--os-project-domain-name <auth-project-domain-name>

Defaults to `env[OS_PROJECT_DOMAIN_NAME]`.

--os-region-name <region-name>

Region name. Default=`env[OS_REGION_NAME]`.

--os-token <token>

Defaults to `env[OS_TOKEN]`.

--os-url <url>

Defaults to `env[OS_URL]`.

--insecure

Explicitly allow client to perform "insecure" TLS (https) requests. The server's certificate will not be verified against any certificate authorities. This option should be used with caution.

--os-cacert <ca-certificate>

Specify a CA bundle file to use in verifying a TLS (https) server certificate. Defaults to `env[OS_CACERT]`.

--os-cert <certificate>

Defaults to **env[OS_CERT]**.

--os-key <key>

Defaults to **env[OS_KEY]**.

--timeout <seconds>

Set request timeout (in seconds).

5.3. BLOCK STORAGE API V1 COMMANDS (DEPRECATED)

5.3.1. cinder absolute-limits

```
usage: cinder absolute-limits
```

Lists absolute limits for a user.

5.3.2. cinder availability-zone-list

```
usage: cinder availability-zone-list
```

Lists all availability zones.

5.3.3. cinder backup-create

```
usage: cinder backup-create [--container <container>] [--name <name>]
[--description <description>] [--incremental] [--force] [--snapshot-id
<snapshot-id>] <volume>
```

Creates a volume backup.

Positional arguments

<volume>

Name or ID of volume to backup.

Optional arguments

--container <container>

Backup container name. Default=None.

--name <name>

Backup name. Default=None.

--description <description>

Backup description. Default=None.

--incremental

Incremental backup. Default=False.

--force

Allows or disallows backup of a volume when the volume is attached to an instance. If set to True, backs up the volume whether its status is "available" or "in- use". The backup of an "in-use" volume means your data is crash consistent. Default=False.

--snapshot-id <snapshot-id>

ID of snapshot to backup. Default=None.

5.3.4. cinder backup-delete

```
usage: cinder backup-delete <backup> [<backup> ...]
```

Removes one or more backups.

Positional arguments

<backup>

Name or ID of backup(s) to delete.

5.3.5. cinder backup-export

```
usage: cinder backup-export <backup>
```

Export backup metadata record.

Positional arguments

<backup>

ID of the backup to export.

5.3.6. cinder backup-import

■

```
usage: cinder backup-import <backup_service> <backup_url>
```

Import backup metadata record.

Positional arguments

<backup_service>

Backup service to use for importing the backup.

<backup_url>

Backup URL for importing the backup metadata.

5.3.7. cinder backup-list

```
usage: cinder backup-list [--all-tenants [<all_tenants>]] [--name
<name>] [--status <status>] [--volume-id <volume-id>] [--marker
<marker>] [--limit <limit>] [--sort <key>[:<direction>]]
```

Lists all backups.

Optional arguments

--all-tenants [<all_tenants>]

Shows details for all tenants. Admin only.

--name <name>

Filters results by a name. Default=None.

--status <status>

Filters results by a status. Default=None.

--volume-id <volume-id>

Filters results by a volume ID. Default=None.

--marker <marker>

Begin returning backups that appear later in the backup list than that represented by this id. Default=None.

--limit <limit>

Maximum number of backups to return. Default=None.

--sort <key>[:<direction>]

Comma-separated list of sort keys and directions in the form of <key>[:<asc|desc>]. Valid keys: id, status, size, availability_zone, name, bootable, created_at. Default=None.

5.3.8. cinder backup-reset-state

```
usage: cinder backup-reset-state [--state <state>] <backup> [<backup>
...]
```

Explicitly updates the backup state.

Positional arguments

<backup>

Name or ID of the backup to modify.

Optional arguments

--state <state>

The state to assign to the backup. Valid values are "available", "error". Default=available.

5.3.9. cinder backup-restore

```
usage: cinder backup-restore [--volume <volume>] <backup>
```

Restores a backup.

Positional arguments

<backup>

ID of backup to restore.

Optional arguments

--volume <volume>

Name or ID of volume to which to restore. Default=None.

5.3.10. cinder backup-show

```
usage: cinder backup-show <backup>
```

Shows backup details.

Positional arguments

<backup>

Name or ID of backup.

5.3.11. cinder cgsnapshot-create

```
usage: cinder cgsnapshot-create [--name <name>] [--description  
<description>] <consistencygroup>
```

Creates a cgsnapshot.

Positional arguments

<consistencygroup>

Name or ID of a consistency group.

Optional arguments

--name <name>

Cgsnapshot name. Default=None.

--description <description>

Cgsnapshot description. Default=None.

5.3.12. cinder cgsnapshot-delete

```
usage: cinder cgsnapshot-delete <cgsnapshot> [<cgsnapshot> ...]
```

Removes one or more cgsnapshots.

Positional arguments

<cgsnapshot>

Name or ID of one or more cgsnapshots to be deleted.

5.3.13. cinder cgsnapshot-list

```
usage: cinder cgsnapshot-list [--all-tenants [<0|1>]] [--status
<status>] [--consistencygroup-id <consistencygroup_id>]
```

Lists all cgsnapshots.

Optional arguments

--all-tenants [<0|1>]

Shows details for all tenants. Admin only.

--status <status>

Filters results by a status. Default=None.

--consistencygroup-id <consistencygroup_id>

Filters results by a consistency group ID. Default=None.

5.3.14. cinder cgsnapshot-show

```
usage: cinder cgsnapshot-show <cgsnapshot>
```

Shows cgsnapshot details.

Positional arguments

<cgsnapshot>

Name or ID of cgsnapshot.

5.3.15. cinder consisgroup-create

```
usage: cinder consisgroup-create [--name <name>] [--description
<description>] [--availability-zone <availability-zone>] <volume-types>
```

Creates a consistency group.

Positional arguments

<volume-types>

Volume types.

Optional arguments

--name <name>

Name of a consistency group.

--description <description>

Description of a consistency group. Default=None.

--availability-zone <availability-zone>

Availability zone for volume. Default=None.

5.3.16. cinder consisgroup-create-from-src

```
usage: cinder consisgroup-create-from-src [--cgsnapshot <cgsnapshot>]
      [--source-cg <source-cg>] [--name <name>] [--description <description>]
```

Creates a consistency group from a cgsnapshot or a source CG.

Optional arguments

--cgsnapshot <cgsnapshot>

Name or ID of a cgsnapshot. Default=None.

--source-cg <source-cg>

Name or ID of a source CG. Default=None.

--name <name>

Name of a consistency group. Default=None.

--description <description>

Description of a consistency group. Default=None.

5.3.17. cinder consisgroup-delete

```
usage: cinder consisgroup-delete [--force] <consistencygroup>
      [<consistencygroup> ...]
```

Removes one or more consistency groups.

Positional arguments

<consistencygroup>

Name or ID of one or more consistency groups to be deleted.

Optional arguments

--force

Allows or disallows consistency groups to be deleted. If the consistency group is empty, it can be deleted without the force flag. If the consistency group is not empty, the force flag is required for it to be deleted.

5.3.18. cinder consisgroup-list

```
usage: cinder consisgroup-list [--all-tenants [<0|1>]]
```

Lists all consistencygroups.

Optional arguments

--all-tenants [<0|1>]

Shows details for all tenants. Admin only.

5.3.19. cinder consisgroup-show

```
usage: cinder consisgroup-show <consistencygroup>
```

Shows details of a consistency group.

Positional arguments

<consistencygroup>

Name or ID of a consistency group.

5.3.20. cinder consisgroup-update

```
usage: cinder consisgroup-update [--name <name>] [--description  
<description>] [--add-volumes <uuid1,uuid2,.....>] [--remove-volumes  
<uuid3,uuid4,.....>] <consistencygroup>
```

Updates a consistencygroup.

Positional arguments

<consistencygroup>

Name or ID of a consistency group.

Optional arguments

--name <name>

New name for consistency group. Default=None.

--description <description>

New description for consistency group. Default=None.

--add-volumes <uuid1,uuid2,.....>

UUID of one or more volumes to be added to the consistency group, separated by commas. Default=None.

--remove-volumes <uuid3,uuid4,.....>

UUID of one or more volumes to be removed from the consistency group, separated by commas. Default=None.

5.3.21. cinder create

```
usage: cinder create [--consisgroup-id <consistencygroup-id>] [--  
snapshot-id <snapshot-id>] [--source-volid <source-volid>] [--source-  
replica <source-replica>] [--image-id <image-id>] [--image <image>] [--  
name <name>] [--description <description>] [--volume-type <volume-  
type>] [--availability-zone <availability-zone>] [--metadata  
[<key=value> [<key=value> ...]]] [--hint <key=value>] [--allow-  
multiattach] [<size>]
```

Creates a volume.

Positional arguments

<size>

Size of volume, in GiBs. (Required unless snapshot-id /source-volid is specified).

Optional arguments

--consisgroup-id <consistencygroup-id>

ID of a consistency group where the new volume belongs to. Default=None.

--snapshot-id <snapshot-id>

Creates volume from snapshot ID. Default=None.

--source-uuid <source-uuid>

Creates volume from volume ID. Default=None.

--source-replica <source-replica>

Creates volume from replicated volume ID. Default=None.

--image-id <image-id>

Creates volume from image ID. Default=None.

--image <image>

Creates a volume from image (ID or name). Default=None.

--name <name>

Volume name. Default=None.

--description <description>

Volume description. Default=None.

--volume-type <volume-type>

Volume type. Default=None.

--availability-zone <availability-zone>

Availability zone for volume. Default=None.

--metadata [<key=value> [<key=value> ...]]

Metadata key and value pairs. Default=None.

--hint <key=value>

Scheduler hint, like in nova.

--allow-multiattach

Allow volume to be attached more than once. Default=False

5.3.22. cinder credentials

```
usage: cinder credentials
```

Shows user credentials returned from auth.

5.3.23. cinder delete

```
usage: cinder delete <volume> [<volume> ...]
```

Removes one or more volumes.

Positional arguments

<volume>

Name or ID of volume or volumes to delete.

5.3.24. cinder encryption-type-create

```
usage: cinder encryption-type-create [--cipher <cipher>] [--key_size  
<key_size>] [--control_location <control_location>] <volume_type>  
<provider>
```

Creates encryption type for a volume type. Admin only.

Positional arguments

<volume_type>

Name or ID of volume type.

<provider>

The class that provides encryption support. For example, LuksEncryptor.

Optional arguments

--cipher <cipher>

The encryption algorithm or mode. For example, aes-xts-plain64. Default=None.

--key_size <key_size>

Size of encryption key, in bits. For example, 128 or 256. Default=None.

--control_location <control_location>

Notional service where encryption is performed. Valid values are "front-end" or "back-end." For example, front-end=Nova. Default is "front-end."

5.3.25. cinder encryption-type-delete

```
usage: cinder encryption-type-delete <volume_type>
```

Deletes encryption type for a volume type. Admin only.

Positional arguments

<volume_type>

Name or ID of volume type.

5.3.26. cinder encryption-type-list

```
usage: cinder encryption-type-list
```

Shows encryption type details for volume types. Admin only.

5.3.27. cinder encryption-type-show

```
usage: cinder encryption-type-show <volume_type>
```

Shows encryption type details for a volume type. Admin only.

Positional arguments

<volume_type>

Name or ID of volume type.

5.3.28. cinder encryption-type-update

```
usage: cinder encryption-type-update [--provider <provider>] [--cipher
[<cipher>]] [--key-size [<key-size>]] [--control-location <control-
location>] <volume-type>
```

Update encryption type information for a volume type (Admin Only).

Positional arguments

<volume-type>

Name or ID of the volume type

Optional arguments

--provider <provider>

Class providing encryption support (e.g. LuksEncryptor) (Optional)

--cipher [<cipher>]

Encryption algorithm/mode to use (e.g., aes-xts-plain64). Provide parameter without value to set to provider default. (Optional)

--key-size [<key-size>]

Size of the encryption key, in bits (e.g., 128, 256). Provide parameter without value to set to provider default. (Optional)

--control-location <control-location>

Notional service where encryption is performed (e.g., front-end=Nova). Values: 'front-end', 'back-end' (Optional)

5.3.29. cinder endpoints

usage: cinder endpoints

Discovers endpoints registered by authentication service.

5.3.30. cinder extend

usage: cinder extend <volume> <new_size>

Attempts to extend size of an existing volume.

Positional arguments

<volume>

Name or ID of volume to extend.

<new_size>

New size of volume, in GiBs.

5.3.31. cinder extra-specs-list

```
usage: cinder extra-specs-list
```

Lists current volume types and extra specs.

5.3.32. cinder failover-host

```
usage: cinder failover-host [--backend_id <backend-id>] <hostname>
```

Positional arguments

<hostname>

Host name.

Optional arguments

--backend_id <backend-id>

ID of backend to failover to (Default=None)

5.3.33. cinder force-delete

```
usage: cinder force-delete <volume> [<volume> ...]
```

Attempts force-delete of volume, regardless of state.

Positional arguments

<volume>

Name or ID of volume or volumes to delete.

5.3.34. cinder freeze-host

```
usage: cinder freeze-host <hostname>
```

Positional arguments

<hostname>

Host name.

5.3.35. cinder get-capabilities

```
usage: cinder get-capabilities <host>
```

Show backend volume stats and properties. Admin only.

Positional arguments

<host>

Cinder host to show backend volume stats and properties; takes the form: host@backend-name

5.3.36. cinder get-pools

```
usage: cinder get-pools [--detail]
```

Show pool information for backends. Admin only.

Optional arguments

--detail

Show detailed information about pools.

5.3.37. cinder image-metadata

```
usage: cinder image-metadata <volume> <action> <key=value> [<key=value> ...]
```

Sets or deletes volume image metadata.

Positional arguments

<volume>

Name or ID of volume for which to update metadata.

<action>

The action. Valid values are 'set' or 'unset.'

<key=value>

Metadata key and value pair to set or unset. For unset, specify only the key.

5.3.38. cinder image-metadata-show

```
usage: cinder image-metadata-show <volume>
```

Shows volume image metadata.

Positional arguments

<volume>

ID of volume.

5.3.39. cinder list

```
usage: cinder list [--all-tenants [<0|1>]] [--name <name>] [--status
<status>] [--bootable [<True|true|False|false>]] [--migration_status
<migration_status>] [--metadata [<key=value> [<key=value> ...]]] [--
marker <marker>] [--limit <limit>] [--fields <fields>] [--sort <key>[:
<direction>]] [--tenant [<tenant>]]
```

Lists all volumes.

Optional arguments

--all-tenants [<0|1>]

Shows details for all tenants. Admin only.

--name <name>

Filters results by a name. Default=None.

--status <status>

Filters results by a status. Default=None.

--bootable [<True|true|False|false>]

Filters results by bootable status. Default=None.

--migration_status <migration_status>

Filters results by a migration status. Default=None. Admin only.

--metadata [**<key=value>** [**<key=value>** ...]]

Filters results by a metadata key and value pair. Default=None.

--marker **<marker>**

Begin returning volumes that appear later in the volume list than that represented by this volume id. Default=None.

--limit **<limit>**

Maximum number of volumes to return. Default=None.

--fields **<fields>**

Comma-separated list of fields to display. Use the show command to see which fields are available. Unavailable/non-existent fields will be ignored. Default=None.

--sort **<key>[:<direction>]**

Comma-separated list of sort keys and directions in the form of <key>[:<asc|desc>]. Valid keys: id, status, size, availability_zone, name, bootable, created_at. Default=None.

--tenant [**<tenant>**]

Display information from single tenant (Admin only).

5.3.40. cinder list-extensions

```
usage: cinder list-extensions
```

Lists all available os-api extensions.

5.3.41. cinder manage

```
usage: cinder manage [--id-type <id-type>] [--name <name>] [--description <description>] [--volume-type <volume-type>] [--availability-zone <availability-zone>] [--metadata [<key=value> [<key=value> ...]]] [--bootable] <host> <identifier>
```

Manage an existing volume.

Positional arguments

<host>

Cinder host on which the existing volume resides; takes the form: host@backend-

name#pool

<identifier>

Name or other Identifier for existing volume

Optional arguments

--id-type <id-type>

Type of backend device identifier provided, typically source-name or source-id
(Default=source-name)

--name <name>

Volume name (Default=None)

--description <description>

Volume description (Default=None)

--volume-type <volume-type>

Volume type (Default=None)

--availability-zone <availability-zone>

Availability zone for volume (Default=None)

--metadata [<key=value> [<key=value> ...]]

Metadata key=value pairs (Default=None)

--bootable

Specifies that the newly created volume should be marked as bootable

5.3.42. cinder metadata

```
usage: cinder metadata <volume> <action> <key=value> [<key=value> ...]
```

Sets or deletes volume metadata.

Positional arguments

<volume>

Name or ID of volume for which to update metadata.

<action>

The action. Valid values are "set" or "unset."

<key=value>

Metadata key and value pair to set or unset. For unset, specify only the key.

5.3.43. cinder metadata-show

```
usage: cinder metadata-show <volume>
```

Shows volume metadata.

Positional arguments

<volume>

ID of volume.

5.3.44. cinder metadata-update-all

```
usage: cinder metadata-update-all <volume> <key=value> [<key=value>
...]
```

Updates volume metadata.

Positional arguments

<volume>

ID of volume for which to update metadata.

<key=value>

Metadata key and value pair or pairs to update.

5.3.45. cinder migrate

```
usage: cinder migrate [--force-host-copy [<True|False>]] [--lock-volume
<True|False>]] <volume> <host>
```

Migrates volume to a new host.

Positional arguments**<volume>**

ID of volume to migrate.

<host>

Destination host. Takes the form: host@backend- name#pool

Optional arguments**--force-host-copy [<True|False>]**

Enables or disables generic host-based force- migration, which bypasses driver optimizations. Default=False.

--lock-volume [<True|False>]

Enables or disables the termination of volume migration caused by other commands. This option applies to the available volume. True means it locks the volume state and does not allow the migration to be aborted. The volume status will be in maintenance during the migration. False means it allows the volume migration to be aborted. The volume status is still in the original status. Default=False.

5.3.46. cinder qos-associate

```
usage: cinder qos-associate <qos_specs> <volume_type_id>
```

Associates qos specs with specified volume type.

Positional arguments**<qos_specs>**

ID of QoS specifications.

<volume_type_id>

ID of volume type with which to associate QoS specifications.

5.3.47. cinder qos-create

```
usage: cinder qos-create <name> <key=value> [<key=value> ...]
```

Creates a qos specs.

Positional arguments

<name>

Name of new QoS specifications.

<key=value>

QoS specifications.

5.3.48. cinder qos-delete

```
usage: cinder qos-delete [--force [<True|False>]] <qos_specs>
```

Deletes a specified qos specs.

Positional arguments

<qos_specs>

ID of QoS specifications to delete.

Optional arguments

--force [<True|False>]

Enables or disables deletion of in-use QoS specifications. Default=False.

5.3.49. cinder qos-disassociate

```
usage: cinder qos-disassociate <qos_specs> <volume_type_id>
```

Disassociates qos specs from specified volume type.

Positional arguments

<qos_specs>

ID of QoS specifications.

<volume_type_id>

ID of volume type with which to associate QoS specifications.

5.3.50. cinder qos-disassociate-all


```
usage: cinder qos-disassociate-all <qos_specs>
```

Disassociates qos specs from all its associations.

Positional arguments

<qos_specs>

ID of QoS specifications on which to operate.

5.3.51. cinder qos-get-association

```
usage: cinder qos-get-association <qos_specs>
```

Lists all associations for specified qos specs.

Positional arguments

<qos_specs>

ID of QoS specifications.

5.3.52. cinder qos-key

```
usage: cinder qos-key <qos_specs> <action> key=value [key=value ...]
```

Sets or unsets specifications for a qos spec.

Positional arguments

<qos_specs>

ID of QoS specifications.

<action>

The action. Valid values are "set" or "unset."

key=value

Metadata key and value pair to set or unset. For unset, specify only the key.

5.3.53. cinder qos-list

```
usage: cinder qos-list
```

■

Lists qos specs.

5.3.54. cinder qos-show

```
usage: cinder qos-show <qos_specs>
```

Shows qos specs details.

Positional arguments

<qos_specs>

ID of QoS specifications to show.

5.3.55. cinder quota-class-show

```
usage: cinder quota-class-show <class>
```

Lists quotas for a quota class.

Positional arguments

<class>

Name of quota class for which to list quotas.

5.3.56. cinder quota-class-update

```
usage: cinder quota-class-update [--volumes <volumes>] [--snapshots  
<snapshots>] [--gigabytes <gigabytes>] [--volume-type  
<volume_type_name>] <class_name>
```

Updates quotas for a quota class.

Positional arguments

<class_name>

Name of quota class for which to set quotas.

Optional arguments

--volumes <volumes>

The new "volumes" quota value. Default=None.

--snapshots <snapshots>

The new "snapshots" quota value. Default=None.

--gigabytes <gigabytes>

The new "gigabytes" quota value. Default=None.

--volume-type <volume_type_name>

Volume type. Default=None.

5.3.57. cinder quota-defaults

```
usage: cinder quota-defaults <tenant_id>
```

Lists default quotas for a tenant.

Positional arguments

<tenant_id>

ID of tenant for which to list quota defaults.

5.3.58. cinder quota-delete

```
usage: cinder quota-delete <tenant_id>
```

Delete the quotas for a tenant.

Positional arguments

<tenant_id>

UUID of tenant to delete the quotas for.

5.3.59. cinder quota-show

```
usage: cinder quota-show <tenant_id>
```

Lists quotas for a tenant.

Positional arguments

<tenant_id>

ID of tenant for which to list quotas.

5.3.60. cinder quota-update

```
usage: cinder quota-update [--volumes <volumes>] [--snapshots
<snapshots>] [--gigabytes <gigabytes>] [--backups <backups>] [--backup-
gigabytes <backup_gigabytes>] [--consistencygroups <consistencygroups>]
[--volume-type <volume_type_name>] [--per-volume-gigabytes
<per_volume_gigabytes>] <tenant_id>
```

Updates quotas for a tenant.

Positional arguments

<tenant_id>

ID of tenant for which to set quotas.

Optional arguments

--volumes <volumes>

The new "volumes" quota value. Default=None.

--snapshots <snapshots>

The new "snapshots" quota value. Default=None.

--gigabytes <gigabytes>

The new "gigabytes" quota value. Default=None.

--backups <backups>

The new "backups" quota value. Default=None.

--backup-gigabytes <backup_gigabytes>

The new "backup_gigabytes" quota value. Default=None.

--consistencygroups <consistencygroups>

The new "consistencygroups" quota value. Default=None.

--volume-type <volume_type_name>

Volume type. Default=None.

--per-volume-gigabytes <per_volume_gigabytes>

Set max volume size limit. Default=None.

5.3.61. cinder quota-usage

```
usage: cinder quota-usage <tenant_id>
```

Lists quota usage for a tenant.

Positional arguments

<tenant_id>

ID of tenant for which to list quota usage.

5.3.62. cinder rate-limits

```
usage: cinder rate-limits
```

Lists rate limits for a user.

5.3.63. cinder readonly-mode-update

```
usage: cinder readonly-mode-update <volume> <True|true|False|false>
```

Updates volume read-only access-mode flag.

Positional arguments

<volume>

ID of volume to update.

<True|true|False|false>

Enables or disables update of volume to read-only access mode.

5.3.64. cinder rename

```
usage: cinder rename [--description <description>] <volume> [<name>]
```

Renames a volume.

Positional arguments

<volume>

Name or ID of volume to rename.

<name>

New name for volume.

Optional arguments

--description <description>

Volume description. Default=None.

5.3.65. cinder replication-promote

```
usage: cinder replication-promote <volume>
```

Promote a secondary volume to primary for a relationship.

Positional arguments

<volume>

Name or ID of the volume to promote. The volume should have the replica volume created with source-replica argument.

5.3.66. cinder replication-reenable

```
usage: cinder replication-reenable <volume>
```

Sync the secondary volume with primary for a relationship.

Positional arguments

<volume>

Name or ID of the volume to reenabling replication. The replication- status of the volume should be inactive.

5.3.67. cinder reset-state

```
usage: cinder reset-state [--state <state>] [--attach-status <attach-
status>] [--reset-migration-status] <volume> [<volume> ...]
```

Explicitly updates the volume state in the Cinder database. Note that this does not affect whether the volume is actually attached to the Nova compute host or instance and can result in an unusable volume. Being a database change only, this has no impact on the true state of the volume and may not match the actual state. This can render a volume unusable in the case of change to the 'available' state.

Positional arguments

<volume>

Name or ID of volume to modify.

Optional arguments

--state <state>

The state to assign to the volume. Valid values are "available", "error", "creating", "deleting", "in- use", "attaching", "detaching", "error_deleting" and "maintenance". NOTE: This command simply changes the state of the Volume in the DataBase with no regard to actual status, exercise caution when using. Default=available.

--attach-status <attach-status>

The attach status to assign to the volume in the DataBase, with no regard to the actual status. Valid values are "attached" and "detached". Default=None, that means the status is unchanged.

--reset-migration-status

Clears the migration status of the volume in the DataBase that indicates the volume is source or destination of volume migration, with no regard to the actual status.

5.3.68. cinder retype

```
usage: cinder retype [--migration-policy <never|on-demand>] <volume>
<volume-type>
```

Changes the volume type for a volume.

Positional arguments

<volume>

Name or ID of volume for which to modify type.

<volume-type>

New volume type.

Optional arguments

--migration-policy <never|on-demand>

Migration policy during retype of volume.

5.3.69. cinder service-disable

```
usage: cinder service-disable [--reason <reason>] <hostname> <binary>
```

Disables the service.

Positional arguments

<hostname>

Host name.

<binary>

Service binary.

Optional arguments

--reason <reason>

Reason for disabling service.

5.3.70. cinder service-enable

```
usage: cinder service-enable <hostname> <binary>
```

Enables the service.

Positional arguments

<hostname>

Host name.

<binary>

Service binary.

5.3.71. cinder service-list

```
usage: cinder service-list [--host <hostname>] [--binary <binary>] [--withreplication [<True|False>]]
```

Lists all services. Filter by host and service binary.

Optional arguments

--host <hostname>

Host name. Default=None.

--binary <binary>

Service binary. Default=None.

--withreplication [<True|False>]

Enables or disables display of Replication info for c-vol services. Default=False.

5.3.72. cinder set-bootable

```
usage: cinder set-bootable <volume> <True|true|False|false>
```

Update bootable status of a volume.

Positional arguments

<volume>

ID of the volume to update.

<True|true|False|false>

Flag to indicate whether volume is bootable.

5.3.73. cinder show

```
usage: cinder show <volume>
```

Shows volume details.

Positional arguments

<volume>

Name or ID of volume.

5.3.74. cinder snapshot-create

```
usage: cinder snapshot-create [--force [<True|False>]] [--name <name>]
[--description <description>] [--metadata [<key=value> [<key=value>
...]]] <volume>
```

Creates a snapshot.

Positional arguments

<volume>

Name or ID of volume to snapshot.

Optional arguments

--force [<True|False>]

Allows or disallows snapshot of a volume when the volume is attached to an instance. If set to True, ignores the current status of the volume when attempting to snapshot it rather than forcing it to be available. Default=False.

--name <name>

Snapshot name. Default=None.

--description <description>

Snapshot description. Default=None.

--metadata [<key=value> [<key=value> ...]]

Snapshot metadata key and value pairs. Default=None.

5.3.75. cinder snapshot-delete

```
usage: cinder snapshot-delete <snapshot> [<snapshot> ...]
```

Removes one or more snapshots.

Positional arguments

<snapshot>

Name or ID of the snapshot(s) to delete.

5.3.76. cinder snapshot-list

```
usage: cinder snapshot-list [--all-tenants [<0|1>]] [--name <name>] [--status <status>] [--volume-id <volume-id>] [--marker <marker>] [--limit <limit>] [--sort <key>[:<direction>]] [--tenant [<tenant>]]
```

Lists all snapshots.

Optional arguments

--all-tenants [<0|1>]

Shows details for all tenants. Admin only.

--name <name>

Filters results by a name. Default=None.

--status <status>

Filters results by a status. Default=None.

--volume-id <volume-id>

Filters results by a volume ID. Default=None.

--marker <marker>

Begin returning snapshots that appear later in the snapshot list than that represented by this id. Default=None.

--limit <limit>

Maximum number of snapshots to return. Default=None.

--sort <key>[:<direction>]

Comma-separated list of sort keys and directions in the form of <key>[:<asc|desc>]. Valid keys: id, status, size, availability_zone, name, bootable, created_at. Default=None.

--tenant [<tenant>]

Display information from single tenant (Admin only).

5.3.77. cinder snapshot-manage

```
usage: cinder snapshot-manage [--id-type <id-type>] [--name <name>] [--description <description>] [--metadata [<key=value> [<key=value> ...]]] <volume> <identifier>
```

Manage an existing snapshot.

Positional arguments

<volume>

Cinder volume already exists in volume backend

<identifier>

Name or other Identifier for existing snapshot

Optional arguments

--id-type <id-type>

Type of backend device identifier provided, typically source-name or source-id (Default=source-name)

--name <name>

Snapshot name (Default=None)

--description <description>

Snapshot description (Default=None)

--metadata [<key=value> [<key=value> ...]]

Metadata key=value pairs (Default=None)

5.3.78. cinder snapshot-metadata

```
usage: cinder snapshot-metadata <snapshot> <action> <key=value> [<key=value> ...]
```

Sets or deletes snapshot metadata.

Positional arguments**<snapshot>**

ID of snapshot for which to update metadata.

<action>

The action. Valid values are "set" or "unset."

<key=value>

Metadata key and value pair to set or unset. For unset, specify only the key.

5.3.79. cinder snapshot-metadata-show

```
usage: cinder snapshot-metadata-show <snapshot>
```

Shows snapshot metadata.

Positional arguments**<snapshot>**

ID of snapshot.

5.3.80. cinder snapshot-metadata-update-all

```
usage: cinder snapshot-metadata-update-all <snapshot> <key=value>
[<key=value> ...]
```

Updates snapshot metadata.

Positional arguments**<snapshot>**

ID of snapshot for which to update metadata.

<key=value>

Metadata key and value pair to update.

5.3.81. cinder snapshot-rename

```
usage: cinder snapshot-rename [--description <description>] <snapshot>
```

[<name>]

Renames a snapshot.

Positional arguments

<snapshot>

Name or ID of snapshot.

<name>

New name for snapshot.

Optional arguments

--description <description>

Snapshot description. Default=None.

5.3.82. cinder snapshot-reset-state

```
usage: cinder snapshot-reset-state [--state <state>] <snapshot>
[<snapshot> ...]
```

Explicitly updates the snapshot state.

Positional arguments

<snapshot>

Name or ID of snapshot to modify.

Optional arguments

--state <state>

The state to assign to the snapshot. Valid values are "available", "error", "creating", "deleting", and "error_deleting". NOTE: This command simply changes the state of the Snapshot in the DataBase with no regard to actual status, exercise caution when using. Default=available.

5.3.83. cinder snapshot-show

```
usage: cinder snapshot-show <snapshot>
```

Shows snapshot details.

Positional arguments

<snapshot>

Name or ID of snapshot.

5.3.84. cinder snapshot-unmanage

```
usage: cinder snapshot-unmanage <snapshot>
```

Stop managing a snapshot.

Positional arguments

<snapshot>

Name or ID of the snapshot to unmanage.

5.3.85. cinder thaw-host

```
usage: cinder thaw-host <hostname>
```

Positional arguments

<hostname>

Host name.

5.3.86. cinder transfer-accept

```
usage: cinder transfer-accept <transfer> <auth_key>
```

Accepts a volume transfer.

Positional arguments

<transfer>

ID of transfer to accept.

<auth_key>

Authentication key of transfer to accept.

5.3.87. cinder transfer-create

```
usage: cinder transfer-create [--name <name>] <volume>
```

Creates a volume transfer.

Positional arguments

<volume>

Name or ID of volume to transfer.

Optional arguments

--name <name>

Transfer name. Default=None.

5.3.88. cinder transfer-delete

```
usage: cinder transfer-delete <transfer>
```

Undoes a transfer.

Positional arguments

<transfer>

Name or ID of transfer to delete.

5.3.89. cinder transfer-list

```
usage: cinder transfer-list [--all-tenants [<0|1>]]
```

Lists all transfers.

Optional arguments

--all-tenants [<0|1>]

Shows details for all tenants. Admin only.

5.3.90. cinder transfer-show

```
usage: cinder transfer-show <transfer>
```


■

Shows transfer details.

Positional arguments

<transfer>

Name or ID of transfer to accept.

5.3.91. cinder type-access-add

```
usage: cinder type-access-add --volume-type <volume_type> --project-id
<project_id>
```

Adds volume type access for the given project.

Optional arguments

--volume-type <volume_type>

Volume type name or ID to add access for the given project.

--project-id <project_id>

Project ID to add volume type access for.

5.3.92. cinder type-access-list

```
usage: cinder type-access-list --volume-type <volume_type>
```

Print access information about the given volume type.

Optional arguments

--volume-type <volume_type>

Filter results by volume type name or ID.

5.3.93. cinder type-access-remove

```
usage: cinder type-access-remove --volume-type <volume_type> --project-
id <project_id>
```

Removes volume type access for the given project.

Optional arguments

--volume-type <volume_type>

Volume type name or ID to remove access for the given project.

--project-id <project_id>

Project ID to remove volume type access for.

5.3.94. cinder type-create

```
usage: cinder type-create [--description <description>] [--is-public  
<is-public>] <name>
```

Creates a volume type.

Positional arguments

<name>

Name of new volume type.

Optional arguments

--description <description>

Description of new volume type.

--is-public <is-public>

Make type accessible to the public (default true).

5.3.95. cinder type-default

```
usage: cinder type-default
```

List the default volume type.

5.3.96. cinder type-delete

```
usage: cinder type-delete <id>
```

Deletes a volume type.

Positional arguments

<id>

ID of volume type to delete.

5.3.97. cinder type-key

```
usage: cinder type-key <vtype> <action> <key=value> [<key=value> ...]
```

Sets or unsets extra_spec for a volume type.

Positional arguments

<vtype>

Name or ID of volume type.

<action>

The action. Valid values are "set" or "unset."

<key=value>

The extra specs key and value pair to set or unset. For unset, specify only the key.

5.3.98. cinder type-list

```
usage: cinder type-list
```

Lists available 'volume types'. (Admin only will see private types)

5.3.99. cinder type-show

```
usage: cinder type-show <volume_type>
```

Show volume type details.

Positional arguments

<volume_type>

Name or ID of the volume type.

5.3.100. cinder type-update

```
usage: cinder type-update [--name <name>] [--description <description>]
[--is-public <is-public>] <id>
```

Updates volume type name, description, and/or is_public.

Positional arguments

<id>

ID of the volume type.

Optional arguments

--name <name>

Name of the volume type.

--description <description>

Description of the volume type.

--is-public <is-public>

Make type accessible to the public or not.

5.3.101. cinder unmanage

```
usage: cinder unmanage <volume>
```

Stop managing a volume.

Positional arguments

<volume>

Name or ID of the volume to unmanage.

5.3.102. cinder upload-to-image

```
usage: cinder upload-to-image [--force [<True|False>]] [--container-
format <container-format>] [--disk-format <disk-format>] <volume>
<image-name>
```

Uploads volume to Image Service as an image.

Positional arguments

<volume>

Name or ID of volume to snapshot.

<image-name>

The new image name.

Optional arguments

--force [<True|False>]

Enables or disables upload of a volume that is attached to an instance. Default=False.

--container-format <container-format>

Container format type. Default is bare.

--disk-format <disk-format>

Disk format type. Default is raw.

5.4. BLOCK STORAGE API V2 COMMANDS

You can select an API version to use by adding the **--os-volume-api-version** parameter or by setting the corresponding environment variable:

```
$ export OS_VOLUME_API_VERSION=2
```

5.4.1. cinder absolute-limits (v2)

```
usage: cinder --os-volume-api-version 2 absolute-limits
```

Lists absolute limits for a user.

5.4.2. cinder availability-zone-list (v2)

```
usage: cinder --os-volume-api-version 2 availability-zone-list
```

Lists all availability zones.

5.4.3. cinder backup-create (v2)

```
usage: cinder --os-volume-api-version 2 backup-create [--container
<container>] [--name <name>] [--description <description>] [--
incremental] [--force] [--snapshot-id <snapshot-id>] <volume>
```

Creates a volume backup.

Positional arguments

<volume>

Name or ID of volume to backup.

Optional arguments

--container <container>

Backup container name. Default=None.

--name <name>

Backup name. Default=None.

--description <description>

Backup description. Default=None.

--incremental

Incremental backup. Default=False.

--force

Allows or disallows backup of a volume when the volume is attached to an instance. If set to True, backs up the volume whether its status is "available" or "in-use". The backup of an "in-use" volume means your data is crash consistent. Default=False.

--snapshot-id <snapshot-id>

ID of snapshot to backup. Default=None.

5.4.4. cinder backup-delete (v2)

```
usage: cinder --os-volume-api-version 2 backup-delete <backup>
[<backup> ...]
```

Removes one or more backups.

Positional arguments**<backup>**

Name or ID of backup(s) to delete.

5.4.5. cinder backup-export (v2)

```
usage: cinder --os-volume-api-version 2 backup-export <backup>
```

Export backup metadata record.

Positional arguments**<backup>**

ID of the backup to export.

5.4.6. cinder backup-import (v2)

```
usage: cinder --os-volume-api-version 2 backup-import <backup_service>
<backup_url>
```

Import backup metadata record.

Positional arguments**<backup_service>**

Backup service to use for importing the backup.

<backup_url>

Backup URL for importing the backup metadata.

5.4.7. cinder backup-list (v2)

```
usage: cinder --os-volume-api-version 2 backup-list [--all-tenants
[<all_tenants>]] [--name <name>] [--status <status>] [--volume-id
<volume-id>] [--marker <marker>] [--limit <limit>] [--sort <key>[:
<direction>]]
```

Lists all backups.

Optional arguments

--all-tenants [<all_tenants>]

Shows details for all tenants. Admin only.

--name <name>

Filters results by a name. Default=None.

--status <status>

Filters results by a status. Default=None.

--volume-id <volume-id>

Filters results by a volume ID. Default=None.

--marker <marker>

Begin returning backups that appear later in the backup list than that represented by this id. Default=None.

--limit <limit>

Maximum number of backups to return. Default=None.

--sort <key>[:<direction>]

Comma-separated list of sort keys and directions in the form of <key>[:<asc|desc>]. Valid keys: id, status, size, availability_zone, name, bootable, created_at. Default=None.

5.4.8. cinder backup-reset-state (v2)

```
usage: cinder --os-volume-api-version 2 backup-reset-state [--state
<state>] <backup> [<backup> ...]
```

Explicitly updates the backup state.

Positional arguments

<backup>

Name or ID of the backup to modify.

Optional arguments

--state <state>

The state to assign to the backup. Valid values are "available", "error". Default=available.

5.4.9. cinder backup-restore (v2)

```
usage: cinder --os-volume-api-version 2 backup-restore [--volume
<volume>] <backup>
```

Restores a backup.

Positional arguments

<backup>

ID of backup to restore.

Optional arguments

--volume <volume>

Name or ID of volume to which to restore. Default=None.

5.4.10. cinder backup-show (v2)

```
usage: cinder --os-volume-api-version 2 backup-show <backup>
```

Shows backup details.

Positional arguments

<backup>

Name or ID of backup.

5.4.11. cinder cgsnapshot-create (v2)

```
usage: cinder --os-volume-api-version 2 cgsnapshot-create [--name
<name>] [--description <description>] <consistencygroup>
```

Creates a cgsnapshot.

Positional arguments

<consistencygroup>

Name or ID of a consistency group.

Optional arguments

--name <name>

Cgsnapshot name. Default=None.

--description <description>

Cgsnapshot description. Default=None.

5.4.12. cinder cgsnapshot-delete (v2)

```
usage: cinder --os-volume-api-version 2 cgsnapshot-delete <cgsnapshot>
[<cgsnapshot> ...]
```

Removes one or more cgsnapshots.

Positional arguments

<cgsnapshot>

Name or ID of one or more cgsnapshots to be deleted.

5.4.13. cinder cgsnapshot-list (v2)

```
usage: cinder --os-volume-api-version 2 cgsnapshot-list [--all-tenants
[<0|1>]] [--status <status>] [--consistencygroup-id
<consistencygroup_id>]
```

Lists all cgsnapshots.

Optional arguments

--all-tenants [<0|1>]

Shows details for all tenants. Admin only.

--status <status>

Filters results by a status. Default=None.

--consistencygroup-id <consistencygroup_id>

Filters results by a consistency group ID. Default=None.

5.4.14. cinder cgsnapshot-show (v2)

```
usage: cinder --os-volume-api-version 2 cgsnapshot-show <cgsnapshot>
```

Shows cgsnapshot details.

Positional arguments

<cgsnapshot>

Name or ID of cgsnapshot.

5.4.15. cinder consisgroup-create (v2)

```
usage: cinder --os-volume-api-version 2 consisgroup-create [--name
<name>] [--description <description>] [--availability-zone
<availability-zone>] <volume-types>
```

Creates a consistency group.

Positional arguments

<volume-types>

Volume types.

Optional arguments

--name <name>

Name of a consistency group.

--description <description>

Description of a consistency group. Default=None.

--availability-zone <availability-zone>

Availability zone for volume. Default=None.

5.4.16. cinder consisgroup-create-from-src (v2)

```
usage: cinder --os-volume-api-version 2 consisgroup-create-from-src [--
cgsnapshot <cgsnapshot>] [--source-cg <source-cg>] [--name <name>] [--
description <description>]
```

Creates a consistency group from a cgsnapshot or a source CG.

Optional arguments

--cgsnapshot <cgsnapshot>

Name or ID of a cgsnapshot. Default=None.

--source-cg <source-cg>

Name or ID of a source CG. Default=None.

--name <name>

Name of a consistency group. Default=None.

--description <description>

Description of a consistency group. Default=None.

5.4.17. cinder consisgroup-delete (v2)

```
usage: cinder --os-volume-api-version 2 consisgroup-delete [--force]
<consistencygroup> [<consistencygroup> ...]
```

Removes one or more consistency groups.

Positional arguments

<consistencygroup>

Name or ID of one or more consistency groups to be deleted.

Optional arguments

--force

Allows or disallows consistency groups to be deleted. If the consistency group is empty, it can be deleted without the force flag. If the consistency group is not empty, the force flag is required for it to be deleted.

5.4.18. cinder consisgroup-list (v2)

```
usage: cinder --os-volume-api-version 2 consisgroup-list [--all-tenants
[<0|1>]]
```

Lists all consistencygroups.

Optional arguments

--all-tenants [<0|1>]

Shows details for all tenants. Admin only.

5.4.19. cinder consisgroup-show (v2)

```
usage: cinder --os-volume-api-version 2 consisgroup-show
<consistencygroup>
```

Shows details of a consistency group.

Positional arguments

<consistencygroup>

Name or ID of a consistency group.

5.4.20. cinder consisgroup-update (v2)

```
usage: cinder --os-volume-api-version 2 consisgroup-update [--name
<name>] [--description <description>] [--add-volumes
<uuid1,uuid2,.....>] [--remove-volumes <uuid3,uuid4,.....>]
<consistencygroup>
```

Updates a consistencygroup.

Positional arguments

<consistencygroup>

Name or ID of a consistency group.

Optional arguments

--name <name>

New name for consistency group. Default=None.

--description <description>

New description for consistency group. Default=None.

--add-volumes <uuid1,uuid2,.....>

UUID of one or more volumes to be added to the consistency group. Generated by common

UUID or one or more volumes to be added to the consistency group, separated by commas. Default=None.

--remove-volumes <uuid3,uuid4,.....>

UUID of one or more volumes to be removed from the consistency group, separated by commas. Default=None.

5.4.21. cinder create (v2)

```
usage: cinder --os-volume-api-version 2 create [--consisgroup-id
<consistencygroup-id>] [--snapshot-id <snapshot-id>] [--source-volid
<source-volid>] [--source-replica <source-replica>] [--image-id <image-
id>] [--image <image>] [--name <name>] [--description <description>] [-
-volume-type <volume-type>] [--availability-zone <availability-zone>] [
--metadata [<key=value> [<key=value> ...]]] [--hint <key=value>] [--
allow-multiattach] [<size>]
```

Creates a volume.

Positional arguments

<size>

Size of volume, in GiBs. (Required unless snapshot-id /source-volid is specified).

Optional arguments

--consisgroup-id <consistencygroup-id>

ID of a consistency group where the new volume belongs to. Default=None.

--snapshot-id <snapshot-id>

Creates volume from snapshot ID. Default=None.

--source-volid <source-volid>

Creates volume from volume ID. Default=None.

--source-replica <source-replica>

Creates volume from replicated volume ID. Default=None.

--image-id <image-id>

Creates volume from image ID. Default=None.

--image <image>

Creates a volume from image (ID or name). Default=None.

--name <name>

Volume name. Default=None.

--description <description>

Volume description. Default=None.

--volume-type <volume-type>

Volume type. Default=None.

--availability-zone <availability-zone>

Availability zone for volume. Default=None.

--metadata [<key=value> [<key=value> ...]]

Metadata key and value pairs. Default=None.

--hint <key=value>

Scheduler hint, like in nova.

--allow-multiattach

Allow volume to be attached more than once. Default=False

5.4.22. cinder credentials (v2)

```
usage: cinder --os-volume-api-version 2 credentials
```

Shows user credentials returned from auth.

5.4.23. cinder delete (v2)

```
usage: cinder --os-volume-api-version 2 delete <volume> [<volume> ...]
```

Removes one or more volumes.

Positional arguments

<volume>

Name or ID of volume or volumes to delete.

5.4.24. cinder encryption-type-create (v2)

```
usage: cinder --os-volume-api-version 2 encryption-type-create [--  
cipher <cipher>] [--key_size <key_size>] [--control_location  
<control_location>] <volume_type> <provider>
```

Creates encryption type for a volume type. Admin only.

Positional arguments

<volume_type>

Name or ID of volume type.

<provider>

The class that provides encryption support. For example, LuksEncryptor.

Optional arguments

--cipher <cipher>

The encryption algorithm or mode. For example, aes- xts-plain64. Default=None.

--key_size <key_size>

Size of encryption key, in bits. For example, 128 or 256. Default=None.

--control_location <control_location>

Notional service where encryption is performed. Valid values are "front-end" or "back-end."
For example, front-end=Nova. Default is "front-end."

5.4.25. cinder encryption-type-delete (v2)

```
usage: cinder --os-volume-api-version 2 encryption-type-delete  
<volume_type>
```

Deletes encryption type for a volume type. Admin only.

Positional arguments

<volume_type>

Name or ID of volume type.

5.4.26. cinder encryption-type-list (v2)

```
usage: cinder --os-volume-api-version 2 encryption-type-list
```

Shows encryption type details for volume types. Admin only.

5.4.27. cinder encryption-type-show (v2)

```
usage: cinder --os-volume-api-version 2 encryption-type-show
<volume_type>
```

Shows encryption type details for a volume type. Admin only.

Positional arguments

<volume_type>

Name or ID of volume type.

5.4.28. cinder encryption-type-update (v2)

```
usage: cinder --os-volume-api-version 2 encryption-type-update [--
provider <provider>] [--cipher [<cipher>]] [--key-size [<key-size>]] [-
control-location <control-location>] <volume-type>
```

Update encryption type information for a volume type (Admin Only).

Positional arguments

<volume-type>

Name or ID of the volume type

Optional arguments

--provider <provider>

Class providing encryption support (e.g. LuksEncryptor) (Optional)

--cipher [<cipher>]

Encryption algorithm/mode to use (e.g. aes-xts-plain64). Provide parameter without value

Encryption algorithm/mode to use (e.g., aes-xts-plain64). Provide parameter without value to set to provider default. (Optional)

--key-size [<key-size>]

Size of the encryption key, in bits (e.g., 128, 256). Provide parameter without value to set to provider default. (Optional)

--control-location <control-location>

Notional service where encryption is performed (e.g., front-end=Nova). Values: 'front-end', 'back-end' (Optional)

5.4.29. cinder endpoints (v2)

```
usage: cinder --os-volume-api-version 2 endpoints
```

Discovers endpoints registered by authentication service.

5.4.30. cinder extend (v2)

```
usage: cinder --os-volume-api-version 2 extend <volume> <new_size>
```

Attempts to extend size of an existing volume.

Positional arguments

<volume>

Name or ID of volume to extend.

<new_size>

New size of volume, in GiBs.

5.4.31. cinder extra-specs-list (v2)

```
usage: cinder --os-volume-api-version 2 extra-specs-list
```

Lists current volume types and extra specs.

5.4.32. cinder failover-host (v2)

```
usage: cinder --os-volume-api-version 2 failover-host [--backend_id  
<backend-id>] <hostname>
```

Positional arguments**<hostname>**

Host name.

Optional arguments**--backend_id <backend-id>**

ID of backend to failover to (Default=None)

5.4.33. cinder force-delete (v2)

```
usage: cinder --os-volume-api-version 2 force-delete <volume> [<volume>
...]
```

Attempts force-delete of volume, regardless of state.

Positional arguments**<volume>**

Name or ID of volume or volumes to delete.

5.4.34. cinder freeze-host (v2)

```
usage: cinder --os-volume-api-version 2 freeze-host <hostname>
```

Positional arguments**<hostname>**

Host name.

5.4.35. cinder get-capabilities (v2)

```
usage: cinder --os-volume-api-version 2 get-capabilities <host>
```

Show backend volume stats and properties. Admin only.

Positional arguments**<host>**

Cinder host to show backend volume stats and properties; takes the form: host@backend-name

5.4.36. cinder get-pools (v2)

```
usage: cinder --os-volume-api-version 2 get-pools [--detail]
```

Show pool information for backends. Admin only.

Optional arguments

--detail

Show detailed information about pools.

5.4.37. cinder image-metadata (v2)

```
usage: cinder --os-volume-api-version 2 image-metadata <volume>
       <action> <key=value> [<key=value> ...]
```

Sets or deletes volume image metadata.

Positional arguments

<volume>

Name or ID of volume for which to update metadata.

<action>

The action. Valid values are 'set' or 'unset.'

<key=value>

Metadata key and value pair to set or unset. For unset, specify only the key.

5.4.38. cinder image-metadata-show (v2)

```
usage: cinder --os-volume-api-version 2 image-metadata-show <volume>
```

Shows volume image metadata.

Positional arguments

<volume>

ID of volume.

5.4.39. cinder list (v2)

```
usage: cinder --os-volume-api-version 2 list [--all-tenants [<0|1>]] [-
-name <name>] [--status <status>] [--bootable
[<True|true|False|false>]] [--migration_status <migration_status>] [--
metadata [<key=value> [<key=value> ...]]] [--marker <marker>] [--limit
<limit>] [--fields <fields>] [--sort <key>[:<direction>]] [--tenant
[<tenant>]]
```

Lists all volumes.

Optional arguments

--all-tenants [<0|1>]

Shows details for all tenants. Admin only.

--name <name>

Filters results by a name. Default=None.

--status <status>

Filters results by a status. Default=None.

--bootable [<True|true|False|false>]

Filters results by bootable status. Default=None.

--migration_status <migration_status>

Filters results by a migration status. Default=None. Admin only.

--metadata [<key=value> [<key=value> ...]]

Filters results by a metadata key and value pair. Default=None.

--marker <marker>

Begin returning volumes that appear later in the volume list than that represented by this volume id. Default=None.

--limit <limit>

Maximum number of volumes to return. Default=None.

--fields <fields>

Comma-separated list of fields to display. Use the show command to see which fields are available. Unavailable/non-existent fields will be ignored. Default=None.

--sort <key>[:<direction>]

Comma-separated list of sort keys and directions in the form of <key>[:<asc|desc>]. Valid keys: id, status, size, availability_zone, name, bootable, created_at. Default=None.

--tenant [<tenant>]

Display information from single tenant (Admin only).

5.4.40. cinder list-extensions (v2)

```
usage: cinder --os-volume-api-version 2 list-extensions
```

Lists all available os-api extensions.

5.4.41. cinder manage (v2)

```
usage: cinder --os-volume-api-version 2 manage [--id-type <id-type>] [-  
-name <name>] [--description <description>] [--volume-type <volume-  
type>] [--availability-zone <availability-zone>] [--metadata  
[<key=value> [<key=value> ...]]] [--bootable] <host> <identifier>
```

Manage an existing volume.

Positional arguments

<host>

Cinder host on which the existing volume resides; takes the form: host@backend-name#pool

<identifier>

Name or other Identifier for existing volume

Optional arguments

--id-type <id-type>

Type of backend device identifier provided, typically source-name or source-id (Default=source-name)

--name <name>

Volume name (Default=None)

--description <description>

Volume description (Default=None)

--volume-type <volume-type>

Volume type (Default=None)

--availability-zone <availability-zone>

Availability zone for volume (Default=None)

--metadata [<key=value> [<key=value> ...]]

Metadata key=value pairs (Default=None)

--bootable

Specifies that the newly created volume should be marked as bootable

5.4.42. cinder metadata (v2)

```
usage: cinder --os-volume-api-version 2 metadata <volume> <action>
       <key=value> [<key=value> ...]
```

Sets or deletes volume metadata.

Positional arguments

<volume>

Name or ID of volume for which to update metadata.

<action>

The action. Valid values are "set" or "unset."

<key=value>

Metadata key and value pair to set or unset. For unset, specify only the key.

5.4.43. cinder metadata-show (v2)

```
usage: cinder --os-volume-api-version 2 metadata-show <volume>
```

Shows volume metadata.

Positional arguments

<volume>

ID of volume.

5.4.44. cinder metadata-update-all (v2)

```
usage: cinder --os-volume-api-version 2 metadata-update-all <volume>
      <key=value> [<key=value> ...]
```

Updates volume metadata.

Positional arguments

<volume>

ID of volume for which to update metadata.

<key=value>

Metadata key and value pair or pairs to update.

5.4.45. cinder migrate (v2)

```
usage: cinder --os-volume-api-version 2 migrate [--force-host-copy
      [<True|False>]] [--lock-volume [<True|False>]] <volume> <host>
```

Migrates volume to a new host.

Positional arguments

<volume>

ID of volume to migrate.

<host>

Destination host. Takes the form: host@backend- name#pool

Optional arguments

--force-host-copy [<True|False>]

Enables or disables generic host-based force- migration, which bypasses driver optimizations. Default=False.

--lock-volume [<True|False>]

Enables or disables the termination of volume migration caused by other commands. This option applies to the available volume. True means it locks the volume state and does not allow the migration to be aborted. The volume status will be in maintenance during the migration. False means it allows the volume migration to be aborted. The volume status is still in the original status. Default=False.

5.4.46. cinder qos-associate (v2)

```
usage: cinder --os-volume-api-version 2 qos-associate <qos_specs>
       <volume_type_id>
```

Associates qos specs with specified volume type.

Positional arguments**<qos_specs>**

ID of QoS specifications.

<volume_type_id>

ID of volume type with which to associate QoS specifications.

5.4.47. cinder qos-create (v2)

```
usage: cinder --os-volume-api-version 2 qos-create <name> <key=value>
       [<key=value> ...]
```

Creates a qos specs.

Positional arguments**<name>**

Name of new QoS specifications.

<key=value>

QoS specifications.

5.4.48. cinder qos-delete (v2)

```
usage: cinder --os-volume-api-version 2 qos-delete [--force
[<True|False>]] <qos_specs>
```

Deletes a specified qos specs.

Positional arguments

<qos_specs>

ID of QoS specifications to delete.

Optional arguments

--force [<True|False>]

Enables or disables deletion of in-use QoS specifications. Default=False.

5.4.49. cinder qos-disassociate (v2)

```
usage: cinder --os-volume-api-version 2 qos-disassociate <qos_specs>
<volume_type_id>
```

Disassociates qos specs from specified volume type.

Positional arguments

<qos_specs>

ID of QoS specifications.

<volume_type_id>

ID of volume type with which to associate QoS specifications.

5.4.50. cinder qos-disassociate-all (v2)

```
usage: cinder --os-volume-api-version 2 qos-disassociate-all
<qos_specs>
```

Disassociates qos specs from all its associations.

Positional arguments

<qos_specs>

ID of QoS specifications on which to operate.

5.4.51. cinder qos-get-association (v2)

```
usage: cinder --os-volume-api-version 2 qos-get-association <qos_specs>
```

Lists all associations for specified qos specs.

Positional arguments**<qos_specs>**

ID of QoS specifications.

5.4.52. cinder qos-key (v2)

```
usage: cinder --os-volume-api-version 2 qos-key <qos_specs> <action>
       key=value [key=value ...]
```

Sets or unsets specifications for a qos spec.

Positional arguments**<qos_specs>**

ID of QoS specifications.

<action>

The action. Valid values are "set" or "unset."

key=value

Metadata key and value pair to set or unset. For unset, specify only the key.

5.4.53. cinder qos-list (v2)

```
usage: cinder --os-volume-api-version 2 qos-list
```

Lists qos specs.

5.4.54. cinder qos-show (v2)

■

```
usage: cinder --os-volume-api-version 2 qos-show <qos_specs>
```

Shows qos specs details.

Positional arguments

<qos_specs>

ID of QoS specifications to show.

5.4.55. cinder quota-class-show (v2)

```
usage: cinder --os-volume-api-version 2 quota-class-show <class>
```

Lists quotas for a quota class.

Positional arguments

<class>

Name of quota class for which to list quotas.

5.4.56. cinder quota-class-update (v2)

```
usage: cinder --os-volume-api-version 2 quota-class-update [--volumes
<volumes>] [--snapshots <snapshots>] [--gigabytes <gigabytes>] [--
volume-type <volume_type_name>] <class_name>
```

Updates quotas for a quota class.

Positional arguments

<class_name>

Name of quota class for which to set quotas.

Optional arguments

--volumes <volumes>

The new "volumes" quota value. Default=None.

--snapshots <snapshots>

The new "snapshots" quota value. Default=None.

--gigabytes <gigabytes>

The new "gigabytes" quota value. Default=None.

--volume-type <volume_type_name>

Volume type. Default=None.

5.4.57. cinder quota-defaults (v2)

```
usage: cinder --os-volume-api-version 2 quota-defaults <tenant_id>
```

Lists default quotas for a tenant.

Positional arguments

<tenant_id>

ID of tenant for which to list quota defaults.

5.4.58. cinder quota-delete (v2)

```
usage: cinder --os-volume-api-version 2 quota-delete <tenant_id>
```

Delete the quotas for a tenant.

Positional arguments

<tenant_id>

UUID of tenant to delete the quotas for.

5.4.59. cinder quota-show (v2)

```
usage: cinder --os-volume-api-version 2 quota-show <tenant_id>
```

Lists quotas for a tenant.

Positional arguments

<tenant_id>

ID of tenant for which to list quotas.

5.4.60. cinder quota-update (v2)

```
usage: cinder --os-volume-api-version 2 quota-update [--volumes
<volumes>] [--snapshots <snapshots>] [--gigabytes <gigabytes>] [--
backups <backups>] [--backup-gigabytes <backup_gigabytes>] [--
consistencygroups <consistencygroups>] [--volume-type
<volume_type_name>] [--per-volume-gigabytes <per_volume_gigabytes>]
<tenant_id>
```

Updates quotas for a tenant.

Positional arguments

<tenant_id>

ID of tenant for which to set quotas.

Optional arguments

--volumes <volumes>

The new "volumes" quota value. Default=None.

--snapshots <snapshots>

The new "snapshots" quota value. Default=None.

--gigabytes <gigabytes>

The new "gigabytes" quota value. Default=None.

--backups <backups>

The new "backups" quota value. Default=None.

--backup-gigabytes <backup_gigabytes>

The new "backup_gigabytes" quota value. Default=None.

--consistencygroups <consistencygroups>

The new "consistencygroups" quota value. Default=None.

--volume-type <volume_type_name>

Volume type. Default=None.

--per-volume-gigabytes <per_volume_gigabytes>

Set max volume size limit. Default=None.

5.4.61. cinder quota-usage (v2)

```
usage: cinder --os-volume-api-version 2 quota-usage <tenant_id>
```

Lists quota usage for a tenant.

Positional arguments

<tenant_id>

ID of tenant for which to list quota usage.

5.4.62. cinder rate-limits (v2)

```
usage: cinder --os-volume-api-version 2 rate-limits
```

Lists rate limits for a user.

5.4.63. cinder readonly-mode-update (v2)

```
usage: cinder --os-volume-api-version 2 readonly-mode-update <volume>
<True|true|False|false>
```

Updates volume read-only access-mode flag.

Positional arguments

<volume>

ID of volume to update.

<True|true|False|false>

Enables or disables update of volume to read-only access mode.

5.4.64. cinder rename (v2)

```
usage: cinder --os-volume-api-version 2 rename [--description
<description>] <volume> [<name>]
```

Renames a volume.

Positional arguments

<volume>

Name or ID of volume to rename.

<name>

New name for volume.

Optional arguments

--description <description>

Volume description. Default=None.

5.4.65. cinder replication-promote (v2)

```
usage: cinder --os-volume-api-version 2 replication-promote <volume>
```

Promote a secondary volume to primary for a relationship.

Positional arguments

<volume>

Name or ID of the volume to promote. The volume should have the replica volume created with source-replica argument.

5.4.66. cinder replication-reenable (v2)

```
usage: cinder --os-volume-api-version 2 replication-reenable <volume>
```

Sync the secondary volume with primary for a relationship.

Positional arguments

<volume>

Name or ID of the volume to reenabling replication. The replication- status of the volume should be inactive.

5.4.67. cinder reset-state (v2)

```
usage: cinder --os-volume-api-version 2 reset-state [--state <state>]
      [--attach-status <attach-status>] [--reset-migration-status] <volume>
      [<volume> ...]
```


■

Explicitly updates the volume state in the Cinder database. Note that this does not affect whether the volume is actually attached to the Nova compute host or instance and can result in an unusable volume. Being a database change only, this has no impact on the true state of the volume and may not match the actual state. This can render a volume unusable in the case of change to the 'available' state.

Positional arguments

<volume>

Name or ID of volume to modify.

Optional arguments

--state <state>

The state to assign to the volume. Valid values are "available", "error", "creating", "deleting", "in- use", "attaching", "detaching", "error_deleting" and "maintenance". NOTE: This command simply changes the state of the Volume in the DataBase with no regard to actual status, exercise caution when using. Default=available.

--attach-status <attach-status>

The attach status to assign to the volume in the DataBase, with no regard to the actual status. Valid values are "attached" and "detached". Default=None, that means the status is unchanged.

--reset-migration-status

Clears the migration status of the volume in the DataBase that indicates the volume is source or destination of volume migration, with no regard to the actual status.

5.4.68. cinder retype (v2)

```
usage: cinder --os-volume-api-version 2 retype [--migration-policy
<never|on-demand>] <volume> <volume-type>
```

Changes the volume type for a volume.

Positional arguments

<volume>

Name or ID of volume for which to modify type.

<volume-type>

New volume type.

Optional arguments

--migration-policy <never|on-demand>

Migration policy during retype of volume.

5.4.69. cinder service-disable (v2)

```
usage: cinder --os-volume-api-version 2 service-disable [--reason
<reason>] <hostname> <binary>
```

Disables the service.

Positional arguments

<hostname>

Host name.

<binary>

Service binary.

Optional arguments

--reason <reason>

Reason for disabling service.

5.4.70. cinder service-enable (v2)

```
usage: cinder --os-volume-api-version 2 service-enable <hostname>
<binary>
```

Enables the service.

Positional arguments

<hostname>

Host name.

<binary>

Service binary.

5.4.71. cinder service-list (v2)

```
usage: cinder --os-volume-api-version 2 service-list [--host
<hostname>] [--binary <binary>] [--withreplication [<True|False>]]
```

Lists all services. Filter by host and service binary.

Optional arguments

--host <hostname>

Host name. Default=None.

--binary <binary>

Service binary. Default=None.

--withreplication [<True|False>]

Enables or disables display of Replication info for c-vol services. Default=False.

5.4.72. cinder set-bootable (v2)

```
usage: cinder --os-volume-api-version 2 set-bootable <volume>
<True|true|False|false>
```

Update bootable status of a volume.

Positional arguments

<volume>

ID of the volume to update.

<True|true|False|false>

Flag to indicate whether volume is bootable.

5.4.73. cinder show (v2)

```
usage: cinder --os-volume-api-version 2 show <volume>
```

Shows volume details.

Positional arguments

<volume>

Name or ID of volume.

5.4.74. cinder snapshot-create (v2)

```
usage: cinder --os-volume-api-version 2 snapshot-create [--force
[<True|False>]] [--name <name>] [--description <description>] [--
metadata [<key=value> [<key=value> ...]]] <volume>
```

Creates a snapshot.

Positional arguments

<volume>

Name or ID of volume to snapshot.

Optional arguments

--force [<True|False>]

Allows or disallows snapshot of a volume when the volume is attached to an instance. If set to True, ignores the current status of the volume when attempting to snapshot it rather than forcing it to be available. Default=False.

--name <name>

Snapshot name. Default=None.

--description <description>

Snapshot description. Default=None.

--metadata [<key=value> [<key=value> ...]]

Snapshot metadata key and value pairs. Default=None.

5.4.75. cinder snapshot-delete (v2)

```
usage: cinder --os-volume-api-version 2 snapshot-delete <snapshot>
[<snapshot> ...]
```

Removes one or more snapshots.

Positional arguments

<snapshot>

Name or ID of the snapshot(s) to delete.

5.4.76. cinder snapshot-list (v2)

```
usage: cinder --os-volume-api-version 2 snapshot-list [--all-tenants
[<0|1>]] [--name <name>] [--status <status>] [--volume-id <volume-id>]
[--marker <marker>] [--limit <limit>] [--sort <key>[:<direction>]] [--
tenant <tenant>]]
```

Lists all snapshots.

Optional arguments

--all-tenants [<0|1>]

Shows details for all tenants. Admin only.

--name <name>

Filters results by a name. Default=None.

--status <status>

Filters results by a status. Default=None.

--volume-id <volume-id>

Filters results by a volume ID. Default=None.

--marker <marker>

Begin returning snapshots that appear later in the snapshot list than that represented by this id. Default=None.

--limit <limit>

Maximum number of snapshots to return. Default=None.

--sort <key>[:<direction>]

Comma-separated list of sort keys and directions in the form of <key>[:<asc|desc>]. Valid keys: id, status, size, availability_zone, name, bootable, created_at. Default=None.

--tenant [**<tenant>**]

Display information from single tenant (Admin only).

5.4.77. cinder snapshot-manage (v2)

```
usage: cinder --os-volume-api-version 2 snapshot-manage [--id-type <id-  
type>] [--name <name>] [--description <description>] [--metadata  
[<key=value> [<key=value> ...]]] <volume> <identifier>
```

Manage an existing snapshot.

Positional arguments

<volume>

Cinder volume already exists in volume backend

<identifier>

Name or other Identifier for existing snapshot

Optional arguments

--id-type **<id-type>**

Type of backend device identifier provided, typically source-name or source-id
(Default=source-name)

--name **<name>**

Snapshot name (Default=None)

--description **<description>**

Snapshot description (Default=None)

--metadata [**<key=value>** [**<key=value>** ...]]

Metadata key=value pairs (Default=None)

5.4.78. cinder snapshot-metadata (v2)

```
usage: cinder --os-volume-api-version 2 snapshot-metadata <snapshot>  
<action> <key=value> [<key=value> ...]
```

Sets or deletes snapshot metadata.

Positional arguments

<snapshot>

ID of snapshot for which to update metadata.

<action>

The action. Valid values are "set" or "unset."

<key=value>

Metadata key and value pair to set or unset. For unset, specify only the key.

5.4.79. cinder snapshot-metadata-show (v2)

```
usage: cinder --os-volume-api-version 2 snapshot-metadata-show
<snapshot>
```

Shows snapshot metadata.

Positional arguments

<snapshot>

ID of snapshot.

5.4.80. cinder snapshot-metadata-update-all (v2)

```
usage: cinder --os-volume-api-version 2 snapshot-metadata-update-all
<snapshot> <key=value> [<key=value> ...]
```

Updates snapshot metadata.

Positional arguments

<snapshot>

ID of snapshot for which to update metadata.

<key=value>

Metadata key and value pair to update.

5.4.81. cinder snapshot-rename (v2)

```
usage: cinder --os-volume-api-version 2 snapshot-rename [--description
<description>] <snapshot> [<name>]
```

Renames a snapshot.

Positional arguments

<snapshot>

Name or ID of snapshot.

<name>

New name for snapshot.

Optional arguments

--description <description>

Snapshot description. Default=None.

5.4.82. cinder snapshot-reset-state (v2)

```
usage: cinder --os-volume-api-version 2 snapshot-reset-state [--state
<state>] <snapshot> [<snapshot> ...]
```

Explicitly updates the snapshot state.

Positional arguments

<snapshot>

Name or ID of snapshot to modify.

Optional arguments

--state <state>

The state to assign to the snapshot. Valid values are "available", "error", "creating", "deleting", and "error_deleting". NOTE: This command simply changes the state of the Snapshot in the DataBase with no regard to actual status, exercise caution when using. Default=available.

5.4.83. cinder snapshot-show (v2)


```
usage: cinder --os-volume-api-version 2 snapshot-show <snapshot>
```

Shows snapshot details.

Positional arguments

<snapshot>

Name or ID of snapshot.

5.4.84. cinder snapshot-unmanage (v2)

```
usage: cinder --os-volume-api-version 2 snapshot-unmanage <snapshot>
```

Stop managing a snapshot.

Positional arguments

<snapshot>

Name or ID of the snapshot to unmanage.

5.4.85. cinder thaw-host (v2)

```
usage: cinder --os-volume-api-version 2 thaw-host <hostname>
```

Positional arguments

<hostname>

Host name.

5.4.86. cinder transfer-accept (v2)

```
usage: cinder --os-volume-api-version 2 transfer-accept <transfer>  
      <auth_key>
```

Accepts a volume transfer.

Positional arguments

<transfer>

ID of transfer to accept.

<auth_key>

Authentication key of transfer to accept.

5.4.87. cinder transfer-create (v2)

```
usage: cinder --os-volume-api-version 2 transfer-create [--name <name>]
<volume>
```

Creates a volume transfer.

Positional arguments

<volume>

Name or ID of volume to transfer.

Optional arguments

--name <name>

Transfer name. Default=None.

5.4.88. cinder transfer-delete (v2)

```
usage: cinder --os-volume-api-version 2 transfer-delete <transfer>
```

Undoes a transfer.

Positional arguments

<transfer>

Name or ID of transfer to delete.

5.4.89. cinder transfer-list (v2)

```
usage: cinder --os-volume-api-version 2 transfer-list [--all-tenants
[<0|1>]]
```

Lists all transfers.

Optional arguments

--all-tenants [<0|1>]

Shows details for all tenants. Admin only.

5.4.90. cinder transfer-show (v2)

```
usage: cinder --os-volume-api-version 2 transfer-show <transfer>
```

Shows transfer details.

Positional arguments

<transfer>

Name or ID of transfer to accept.

5.4.91. cinder type-access-add (v2)

```
usage: cinder --os-volume-api-version 2 type-access-add --volume-type
<volume_type> --project-id <project_id>
```

Adds volume type access for the given project.

Optional arguments

--volume-type <volume_type>

Volume type name or ID to add access for the given project.

--project-id <project_id>

Project ID to add volume type access for.

5.4.92. cinder type-access-list (v2)

```
usage: cinder --os-volume-api-version 2 type-access-list --volume-type
<volume_type>
```

Print access information about the given volume type.

Optional arguments

--volume-type <volume_type>

Filter results by volume type name or ID.

5.4.93. cinder type-access-remove (v2)

```
usage: cinder --os-volume-api-version 2 type-access-remove --volume-type <volume_type> --project-id <project_id>
```

Removes volume type access for the given project.

Optional arguments

--volume-type <volume_type>

Volume type name or ID to remove access for the given project.

--project-id <project_id>

Project ID to remove volume type access for.

5.4.94. cinder type-create (v2)

```
usage: cinder --os-volume-api-version 2 type-create [--description <description>] [--is-public <is-public>] <name>
```

Creates a volume type.

Positional arguments

<name>

Name of new volume type.

Optional arguments

--description <description>

Description of new volume type.

--is-public <is-public>

Make type accessible to the public (default true).

5.4.95. cinder type-default (v2)

```
usage: cinder --os-volume-api-version 2 type-default
```

List the default volume type.

5.4.96. cinder type-delete (v2)

```
usage: cinder --os-volume-api-version 2 type-delete <id>
```

Deletes a volume type.

Positional arguments

<id>

ID of volume type to delete.

5.4.97. cinder type-key (v2)

```
usage: cinder --os-volume-api-version 2 type-key <vtype> <action>
      <key=value> [<key=value> ...]
```

Sets or unsets extra_spec for a volume type.

Positional arguments

<vtype>

Name or ID of volume type.

<action>

The action. Valid values are "set" or "unset."

<key=value>

The extra specs key and value pair to set or unset. For unset, specify only the key.

5.4.98. cinder type-list (v2)

```
usage: cinder --os-volume-api-version 2 type-list
```

Lists available 'volume types'. (Admin only will see private types)

5.4.99. cinder type-show (v2)

```
usage: cinder --os-volume-api-version 2 type-show <volume_type>
```

Show volume type details.

Positional arguments

<volume_type>

Name or ID of the volume type.

5.4.100. cinder type-update (v2)

```
usage: cinder --os-volume-api-version 2 type-update [--name <name>] [--description <description>] [--is-public <is-public>] <id>
```

Updates volume type name, description, and/or is_public.

Positional arguments

<id>

ID of the volume type.

Optional arguments

--name <name>

Name of the volume type.

--description <description>

Description of the volume type.

--is-public <is-public>

Make type accessible to the public or not.

5.4.101. cinder unmanage (v2)

```
usage: cinder --os-volume-api-version 2 unmanage <volume>
```

Stop managing a volume.

Positional arguments

<volume>

Name or ID of the volume to unmanage.

5.4.102. cinder upload-to-image (v2)

```
usage: cinder --os-volume-api-version 2 upload-to-image [--force  
[<True|False>]] [--container-format <container-format>] [--disk-format  
<disk-format>] <volume> <image-name>
```

Uploads volume to Image Service as an image.

Positional arguments

<volume>

Name or ID of volume to snapshot.

<image-name>

The new image name.

Optional arguments

--force [<True|False>]

Enables or disables upload of a volume that is attached to an instance. Default=False.

--container-format <container-format>

Container format type. Default is bare.

--disk-format <disk-format>

Disk format type. Default is raw.

CHAPTER 6. COMPUTE COMMAND-LINE CLIENT

The **nova** client is the command-line interface (CLI) for the OpenStack Compute API and its extensions. This chapter documents **nova** version **3.3.0**.

For help on a specific **nova** command, enter:

```
$ nova help COMMAND
```

6.1. NOVA USAGE

```
usage: nova [--version] [--debug] [--os-cache] [--timings] [--os-
region-name <region-name>] [--service-type <service-type>] [--service-
name <service-name>] [--volume-service-name <volume-service-name>] [--
os-endpoint-type <endpoint-type>] [--os-compute-api-version <compute-
api-ver>] [--bypass-url <bypass-url>] [--insecure] [--os-cacert <ca-
certificate>] [--os-cert <certificate>] [--os-key <key>] [--timeout
<seconds>] [--os-auth-type <name>] [--os-auth-url OS_AUTH_URL] [--os-
domain-id OS_DOMAIN_ID] [--os-domain-name OS_DOMAIN_NAME] [--os-
project-id OS_PROJECT_ID] [--os-project-name OS_PROJECT_NAME] [--os-
project-domain-id OS_PROJECT_DOMAIN_ID] [--os-project-domain-name
OS_PROJECT_DOMAIN_NAME] [--os-trust-id OS_TRUST_ID] [--os-default-
domain-id OS_DEFAULT_DOMAIN_ID] [--os-default-domain-name
OS_DEFAULT_DOMAIN_NAME] [--os-user-id OS_USER_ID] [--os-user-name
OS_USERNAME] [--os-user-domain-id OS_USER_DOMAIN_ID] [--os-user-domain-
name OS_USER_DOMAIN_NAME] [--os-password OS_PASSWORD] <subcommand> ...
```

Subcommands

absolute-limits

DEPRECATED, use limits instead.

add-fixed-ip

Add new IP address on a network to server.

add-floating-ip

DEPRECATED, use floating-ip-associate instead.

add-secgroup

Add a Security Group to a server.

agent-create

Create new agent build.

agent-delete

Delete existing agent build.

agent-list

List all builds.

agent-modify

Modify existing agent build.

aggregate-add-host

Add the host to the specified aggregate.

aggregate-create

Create a new aggregate with the specified details.

aggregate-delete

Delete the aggregate.

aggregate-details

Show details of the specified aggregate.

aggregate-list

Print a list of all aggregates.

aggregate-remove-host

Remove the specified host from the specified aggregate.

aggregate-set-metadata

Update the metadata associated with the aggregate.

aggregate-update

Update the aggregate's name and optionally availability zone.

availability-zone-list

List all the availability zones.

backup

Backup a server by creating a 'backup' type snapshot.

boot

Boot a new server.

clear-password

Clear the admin password for a server.

cloudpipe-configure

Update the VPN IP/port of a cloudpipe instance.

cloudpipe-create

Create a cloudpipe instance for the given project.

cloudpipe-list

Print a list of all cloudpipe instances.

console-log

Get console log output of a server.

credentials

Show user credentials returned from auth.

delete

Immediately shut down and delete specified server(s).

diagnostics

Retrieve server diagnostics.

dns-create

Create a DNS entry for domain, name, and IP.

dns-create-private-domain

Create the specified DNS domain.

dns-create-public-domain

Create the specified DNS domain.

dns-delete

Delete the specified DNS entry.

dns-delete-domain

Delete the specified DNS domain.

dns-domains

Print a list of available dns domains.

dns-list

List current DNS entries for domain and IP or domain and name.

endpoints

Discover endpoints that get returned from the authenticate services.

evacuate

Evacuate server from failed host.

fixed-ip-get

Retrieve info on a fixed IP.

fixed-ip-reserve

Reserve a fixed IP.

fixed-ip-unreserve

Unreserve a fixed IP.

flavor-access-add

Add flavor access for the given tenant.

flavor-access-list

Print access information about the given flavor.

flavor-access-remove

Remove flavor access for the given tenant.

flavor-create

Create a new flavor.

flavor-delete

Delete a specific flavor

flavor-key

Set or unset extra_spec for a flavor.

flavor-list

Print a list of available 'flavors' (sizes of servers).

flavor-show

Show details about the given flavor.

floating-ip-associate

Associate a floating IP address to a server.

floating-ip-bulk-create

Bulk create floating IPs by range (nova- network only).

floating-ip-bulk-delete

Bulk delete floating IPs by range (nova- network only).

floating-ip-bulk-list

List all floating IPs (nova-network only).

floating-ip-create

Allocate a floating IP for the current tenant.

floating-ip-delete

De-allocate a floating IP.

floating-ip-disassociate

Disassociate a floating IP address from a server.

floating-ip-list

List floating IPs.

floating-ip-pool-list

List all floating IP pools.

get-mks-console

Get a serial console to a server. (Supported by API versions '2.8' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

get-password

Get the admin password for a server.

get-rdp-console

Get a rdp console to a server.

get-serial-console

Get a serial console to a server.

get-spice-console

Get a spice console to a server.

get-vnc-console

Get a vnc console to a server.

host-action

Perform a power action on a host.

host-describe

Describe a specific host.

host-list

List all hosts by service

LIST all HOSTS by service.

host-update

Update host settings.

hypervisor-list

List hypervisors.

hypervisor-servers

List servers belonging to specific hypervisors.

hypervisor-show

Display the details of the specified hypervisor.

hypervisor-stats

Get hypervisor statistics over all compute nodes.

hypervisor-uptime

Display the uptime of the specified hypervisor.

image-create

Create a new image by taking a snapshot of a running server.

image-delete

Delete specified image(s).

image-list

Print a list of available images to boot from.

image-meta

Set or delete metadata on an image.

image-show

Show details about the given image.

interface-attach

Attach a network interface to a server.

interface-detach

Detach a network interface from a server.

interface-list

List interfaces attached to a server.

keypair-add

Create a new key pair for use with servers.

keypair-delete

Delete keypair given by its name. (Supported by API versions '2.0' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

keypair-list

Print a list of keypairs for a user (Supported by API versions '2.0' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

keypair-show

Show details about the given keypair. (Supported by API versions '2.0' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

limits

Print rate and absolute limits.

list

List active servers.

list-secgroup

List Security Group(s) of a server.

live-migration

Migrate running server to a new machine.

live-migration-abort

Abort an on-going live migration. (Supported by API versions '2.24' - '2.latest') [hint: use '--

os-compute-api-version' flag to show help message for proper version]

live-migration-force-complete

Force on-going live migration to complete. (Supported by API versions '2.22' - '2.latest')
[hint: use '--os-compute-api-version' flag to show help message for proper version]

lock

Lock a server. A normal (non-admin) user will not be able to execute actions on a locked server.

meta

Set or delete metadata on a server.

migrate

Migrate a server. The new host will be selected by the scheduler.

network-associate-host

Associate host with network.

network-associate-project

Associate project with network.

network-create

Create a network.

network-delete

Delete network by label or id.

network-disassociate

Disassociate host and/or project from the given network.

network-list

Print a list of available networks.

network-show

Show details about the given network.

pause

Pause a server.

quota-class-show

List the quotas for a quota class.

quota-class-update

Update the quotas for a quota class.

quota-defaults

List the default quotas for a tenant.

quota-delete

Delete quota for a tenant/user so their quota will Revert back to default.

quota-show

List the quotas for a tenant/user.

quota-update

Update the quotas for a tenant/user.

rate-limits

DEPRECATED, use limits instead.

reboot

Reboot a server.

rebuild

Shutdown, re-image, and re-boot a server.

refresh-network

Refresh server network information.

remove-fixed-ip

Remove an IP address from a server.

remove-floating-ip

DEPRECATED, use floating-ip-disassociate instead.

remove-secgroup

Remove a Security Group from a server.

rename

DEPRECATED, use update instead.

rescue

Reboots a server into rescue mode, which starts the machine from either the initial image or a specified image, attaching the current boot disk as secondary.

reset-network

Reset network of a server.

reset-state

Reset the state of a server.

resize

Resize a server.

resize-confirm

Confirm a previous resize.

resize-revert

Revert a previous resize (and return to the previous VM).

resume

Resume a server.

root-password

DEPRECATED, use set-password instead.

scrub

Delete networks and security groups associated with a project.

Delete networks and security groups associated with a project.

secgroup-add-default-rule

Add a rule to the set of rules that will be added to the 'default' security group for new tenants (nova-network only).

secgroup-add-group-rule

Add a source group rule to a security group.

secgroup-add-rule

Add a rule to a security group.

secgroup-create

Create a security group.

secgroup-delete

Delete a security group.

secgroup-delete-default-rule

Delete a rule from the set of rules that will be added to the 'default' security group for new tenants (nova-network only).

secgroup-delete-group-rule

Delete a source group rule from a security group.

secgroup-delete-rule

Delete a rule from a security group.

secgroup-list

List security groups for the current tenant.

secgroup-list-default-rules

List rules that will be added to the 'default' security group for new tenants.

secgroup-list-rules

List rules for a security group.

secgroup-update

Update a security group.

server-group-create

Create a new server group with the specified details.

server-group-delete

Delete specific server group(s).

server-group-get

Get a specific server group.

server-group-list

Print a list of all server groups.

server-migration-list

Get the migrations list of specified server. (Supported by API versions '2.23' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

server-migration-show

Get the migration of specified server. (Supported by API versions '2.23' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

service-delete

Delete the service.

service-disable

Disable the service.

service-enable

Enable the service.

service-force-down

Force service to down. (Supported by API versions '2.11' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

service-list

Show a list of all running services. Filter by host & binary.

set -password

Change the admin password for a server.

shelve

Shelve a server.

shelve-offload

Remove a shelved server from the compute node.

show

Show details about the given server.

ssh

SSH into a server.

start

Start the server(s).

stop

Stop the server(s).

suspend

Suspend a server.

trigger-crash-dump

Trigger crash dump in an instance. (Supported by API versions '2.17' - '2.latest') [hint: use '-os-compute-api-version' flag to show help message for proper version]

unlock

Unlock a server.

unpause

Unpause a server.

unrescue

Restart the server from normal boot disk again.

unshelve

Unshelve a server.

update

Update the name or the description for a server.

usage

Show usage data for a single tenant.

usage-list

List usage data for all tenants.

version-list

List all API versions.

virtual-interface-list

Show virtual interface info about the given server.

volume-attach

Attach a volume to a server.

volume-attachments

List all the volumes attached to a server.

volume-create

DEPRECATED: Add a new volume.

volume-delete

DEPRECATED: Remove volume(s).

volume-detach

Detach a volume from a server.

volume-list

DEPRECATED: List all the volumes.

volume-show

DEPRECATED: Show details about a volume.

volume-snapshot-create

DEPRECATED: Add a new snapshot.

volume-snapshot-delete

DEPRECATED: Remove a snapshot.

volume-snapshot-list

DEPRECATED: List all the snapshots.

volume-snapshot-show

DEPRECATED: Show details about a snapshot.

volume-type-create

DEPRECATED: Create a new volume type.

volume-type-delete

DEPRECATED: Delete a specific volume type.

volume-type-list

DEPRECATED: Print a list of available 'volume types'.

volume-update

Update volume attachment.

x509-create-cert

Create x509 cert for a user in tenant.

x509-get-root-cert

Fetch the x509 root cert.

bash-completion

Prints all of the commands and options to stdout so that the nova.bash_completion script doesn't have to hard code them.

help

Display help about this program or one of its subcommands.

baremetal-interface-add

Add a network interface to a baremetal node.

baremetal-interface-list

List network interfaces associated with a baremetal node.

baremetal-interface-remove

Remove a network interface from a baremetal node.

baremetal-node-create

Create a baremetal node.

baremetal-node-delete

Remove a baremetal node and any associated interfaces.

baremetal-node-list

Print list of available baremetal nodes.

baremetal-node-show

Show information about a baremetal node.

cell-capacities

Get cell capacities for all cells or a given cell.

cell-show

Show details of a given cell.

force-delete

Force delete a server

Force delete a server.

restore

Restore a soft-deleted server.

host-evacuate

Evacuate all instances from failed host.

host-evacuate-live

Live migrate all instances of the specified host to other available hosts.

host-servers-migrate

Migrate all instances of the specified host to other available hosts.

instance-action

Show an action.

instance-action-list

List actions on a server.

list-extensions

List all the os-api extensions that are available.

host-meta

Set or Delete metadata on all instances of a host.

migration-list

Print a list of migrations.

net

DEPRECATED, use tenant-network-show instead.

net-create

DEPRECATED, use tenant-network-create instead.

net-delete

DEPRECATED, use `tenant-network-delete` instead.

net-list

DEPRECATED, use `tenant-network-list` instead.

tenant-network-create

Create a tenant network.

tenant-network-delete

Delete a tenant network.

tenant-network-list

List tenant networks.

tenant-network-show

Show a tenant network.

6.2. NOVA OPTIONAL ARGUMENTS

--version

show program's version number and exit

--debug

Print debugging output.

--os-cache

Use the auth token cache. Defaults to False if `env[OS_CACHE]` is not set.

--timings

Print call timing info.

--os-region-name <region-name>

Defaults to `env[OS_REGION_NAME]`.

--service-type <service-type>

Defaults to compute for most actions.

--service-name <service-name>

Defaults to `env[NOVA_SERVICE_NAME]`.

--volume-service-name <volume-service-name>

Defaults to `env[NOVA_VOLUME_SERVICE_NAME]`.

--os-endpoint-type <endpoint-type>

Defaults to `env[NOVA_ENDPOINT_TYPE]`, `env[OS_ENDPOINT_TYPE]` or `publicURL`.

--os-compute-api-version <compute-api-ver>

Accepts X, X.Y (where X is major and Y is minor part) or "X.latest", defaults to `env[OS_COMPUTE_API_VERSION]`.

--bypass-url <bypass-url>

Use this API endpoint instead of the Service Catalog. Defaults to `env[NOVACLIENT_BYPASS_URL]`.

--os-auth-type <name>, --os-auth-plugin <name>

Authentication type to use

6.3. NOVA ADD-FIXED-IP

```
usage: nova add-fixed-ip <server> <network-id>
```

Add new IP address on a network to server.

Positional arguments

<server>

Name or ID of server.

<network-id>

Network ID.

6.4. NOVA ADD-SECGROUP

■

```
usage: nova add-secgroup <server> <secgroup>
```

Add a Security Group to a server.

Positional arguments

<server>

Name or ID of server.

<secgroup>

Name of Security Group.

6.5. NOVA AGENT-CREATE

```
usage: nova agent-create <os> <architecture> <version> <url> <md5hash>
<hypervisor>
```

Create new agent build.

Positional arguments

<os>

Type of OS.

<architecture>

Type of architecture.

<version>

Version.

<url>

URL.

<md5hash>

MD5 hash.

<hypervisor>

Type of hypervisor.

6.6. NOVA AGENT-DELETE

```
usage: nova agent-delete <id>
```

Delete existing agent build.

Positional arguments

<id>

ID of the agent-build.

6.7. NOVA AGENT-LIST

```
usage: nova agent-list [--hypervisor <hypervisor>]
```

List all builds.

Optional arguments

--hypervisor <hypervisor>

Type of hypervisor.

6.8. NOVA AGENT-MODIFY

```
usage: nova agent-modify <id> <version> <url> <md5hash>
```

Modify existing agent build.

Positional arguments

<id>

ID of the agent-build.

<version>

Version.

<url>

URL

<md5hash>

MD5 hash.

6.9. NOVA AGGREGATE-ADD-HOST

```
usage: nova aggregate-add-host <aggregate> <host>
```

Add the host to the specified aggregate.

Positional arguments

<aggregate>

Name or ID of aggregate.

<host>

The host to add to the aggregate.

6.10. NOVA AGGREGATE-CREATE

```
usage: nova aggregate-create <name> [<availability-zone>]
```

Create a new aggregate with the specified details.

Positional arguments

<name>

Name of aggregate.

<availability-zone>

The availability zone of the aggregate (optional).

6.11. NOVA AGGREGATE-DELETE

```
usage: nova aggregate-delete <aggregate>
```

Delete the aggregate.

Positional arguments

<aggregate>

Name or ID of aggregate to delete.

6.12. NOVA AGGREGATE-DETAILS

```
usage: nova aggregate-details <aggregate>
```

Show details of the specified aggregate.

Positional arguments

<aggregate>

Name or ID of aggregate.

6.13. NOVA AGGREGATE-LIST

```
usage: nova aggregate-list
```

Print a list of all aggregates.

6.14. NOVA AGGREGATE-REMOVE-HOST

```
usage: nova aggregate-remove-host <aggregate> <host>
```

Remove the specified host from the specified aggregate.

Positional arguments

<aggregate>

Name or ID of aggregate.

<host>

The host to remove from the aggregate.

6.15. NOVA AGGREGATE-SET-METADATA

```
usage: nova aggregate-set-metadata <aggregate> <key=value> [<key=value>  
...]
```

Update the metadata associated with the aggregate.

Positional arguments

<aggregate>

Name or ID of aggregate to update.

<key=value>

Metadata to add/update to aggregate. Specify only the key to delete a metadata item.

6.16. NOVA AGGREGATE-UPDATE

```
usage: nova aggregate-update <aggregate> <name> [<availability-zone>]
```

Update the aggregate's name and optionally availability zone.

Positional arguments

<aggregate>

Name or ID of aggregate to update.

<name>

Name of aggregate.

<availability-zone>

The availability zone of the aggregate.

6.17. NOVA AVAILABILITY-ZONE-LIST

```
usage: nova availability-zone-list
```

List all the availability zones.

6.18. NOVA BACKUP

```
usage: nova backup <server> <name> <backup-type> <rotation>
```

Backup a server by creating a 'backup' type snapshot.

Positional arguments**<server>**

Name or ID of server.

<name>

Name of the backup image.

<backup-type>

The backup type, like "daily" or "weekly".

<rotation>

Int parameter representing how many backups to keep around.

6.19. NOVA BAREMETAL-INTERFACE-ADD

```
usage: nova baremetal-interface-add [--datapath_id <datapath_id>] [--port_no <port_no>] <node> <address>
```

Add a network interface to a baremetal node.

Positional arguments**<node>**

ID of node

<address>

MAC address of interface

Optional arguments**--datapath_id <datapath_id>**

OpenFlow Datapath ID of interface

--port_no <port_no>

OpenFlow port number of interface

6.20. NOVA BAREMETAL-INTERFACE-LIST

```
usage: nova baremetal-interface-list <node>
```

List network interfaces associated with a baremetal node.

Positional arguments

<node>

ID of node

6.21. NOVA BAREMETAL-INTERFACE-REMOVE

```
usage: nova baremetal-interface-remove <node> <address>
```

Remove a network interface from a baremetal node.

Positional arguments

<node>

ID of node

<address>

MAC address of interface

6.22. NOVA BAREMETAL-NODE-CREATE

```
usage: nova baremetal-node-create [--pm_address <pm_address>] [--pm_user <pm_user>] [--pm_password <pm_password>] [--terminal_port <terminal_port>] <service_host> <cpus> <memory_mb> <local_gb> <prov_mac_address>
```

Create a baremetal node.

Positional arguments

<service_host>

Name of nova compute host which will control this baremetal node

<cpus>

Number of CPUs in the node

<memory_mb>

Megabytes of RAM in the node

<local_gb>

Gigabytes of local storage in the node

<prov_mac_address>

MAC address to provision the node

Optional arguments

--pm_address <pm_address>

Power management IP for the node

--pm_user <pm_user>

Username for the node's power management

--pm_password <pm_password>

Password for the node's power management

--terminal_port <terminal_port>

ShellInABox port?

6.23. NOVA BAREMETAL-NODE-DELETE

```
usage: nova baremetal-node-delete <node>
```

Remove a baremetal node and any associated interfaces.

Positional arguments

<node>

ID of the node to delete.

6.24. NOVA BAREMETAL-NODE-LIST

```
usage: nova baremetal-node-list
```

Print list of available baremetal nodes.

6.25. NOVA BAREMETAL-NODE-SHOW

```
usage: nova baremetal-node-show <node>
```

Show information about a baremetal node.

Positional arguments

<node>

ID of node

6.26. NOVA BOOT

```
usage: nova boot [--flavor <flavor>] [--image <image>] [--image-with
<key=value>] [--boot-volume <volume_id>] [--snapshot <snapshot_id>] [--
min-count <number>] [--max-count <number>] [--meta <key=value>] [--file
<dst-path=src-path>] [--key-name <key-name>] [--user-data <user-data>]
[--availability-zone <availability-zone>] [--security-groups <security-
groups>] [--block-device-mapping <dev-name=mapping>] [--block-device
key1=value1[,key2=value2...]] [--swap <swap_size>] [--ephemeral size=
<size>[,format=<format>]] [--hint <key=value>] [--nic <net-id=net-
uuid,net-name=network-name,v4-fixed-ip=ip-addr,v6-fixed-ip=ip-
addr,port-id=port-uuid>] [--config-drive <value>] [--poll] [--admin-
pass <value>] [--access-ip-v4 <value>] [--access-ip-v6 <value>] [--
description <description>] <name>
```

Boot a new server.

Positional arguments

<name>

Name for the new server.

Optional arguments

--flavor <flavor>

Name or ID of flavor (see 'nova flavor-list').

--image <image>

Name or ID of image (see 'nova image-list').

--image-with <key=value>

Image metadata property (see 'nova image- show').

--boot-volume <volume_id>

Volume ID to boot from.

--snapshot <snapshot_id>

Snapshot ID to boot from (will create a volume).

--min-count <number>

Boot at least <number> servers (limited by quota).

--max-count <number>

Boot up to <number> servers (limited by quota).

--meta <key=value>

Record arbitrary key/value metadata to /meta_data.json on the metadata server. Can be specified multiple times.

--file <dst-path=src-path>

Store arbitrary files from <src-path> locally to <dst-path> on the new server. Limited by the injected_files quota value.

--key-name <key-name>

Key name of keypair that should be created earlier with the command keypair-add.

--user-data <user-data>

user data file to pass to be exposed by the metadata server.

--availability-zone <availability-zone>

The availability zone for server placement.

--security-groups <security-groups>

Comma separated list of security group names.

--block-device-mapping <dev-name=mapping>

Block device mapping in the format <dev- name>=<id>:<type>:<size(GB)>:<delete-on-terminate>.

--block-device

key1=value1[,key2=value2...] Block device mapping with the keys: id=UUID (image_id, snapshot_id or volume_id only if using source image, snapshot or volume) source=source type (image, snapshot, volume or blank), dest=destination type of the block device (volume or local), bus=device's bus (e.g. uml, lxc, virtio, ...; if omitted, hypervisor driver chooses a suitable default, honoured only if device type is supplied) type=device type (e.g. disk, cdrom, ...; defaults to 'disk') device=name of the device (e.g. vda, xda, ...; if omitted, hypervisor driver chooses suitable device depending on selected bus; note the libvirt driver always uses default device names), size=size of the block device in MB(for swap) and in GB(for other formats) (if omitted, hypervisor driver calculates size), format=device will be formatted (e.g. swap, ntfs, ...; optional), bootindex=integer used for ordering the boot disks (for image backed instances it is equal to 0, for others need to be specified) and shutdown=shutdown behaviour (either preserve or remove, for local destination set to remove).

--swap <swap_size>

Create and attach a local swap block device of <swap_size> MB.

--ephemeral

size=<size>[,format=<format>] Create and attach a local ephemeral block device of <size> GB and format it to <format>.

--hint <key=value>

Send arbitrary key/value pairs to the scheduler for custom use.

--nic <net-id=net-uuid,net-name=network-name,v4-fixed-ip=ip-addr,v6-fixed-ip=ip-addr,port-id=port-uuid>

Create a NIC on the server. Specify option multiple times to create multiple NICs. net- id: attach NIC to network with this UUID net- name: attach NIC to network with this name (either port-id or net-id or net-name must be provided), v4-fixed-ip: IPv4 fixed address for NIC (optional), v6-fixed-ip: IPv6 fixed address for NIC (optional), port-id: attach NIC to port with this UUID (either port-id or net-id must be provided).

--config-drive <value>

Enable config drive.

--poll

Report the new server boot progress until it completes.

--admin-pass <value>

Admin password for the instance.

--access-ip-v4 <value>

Alternative access IPv4 of the instance.

--access-ip-v6 <value>

Alternative access IPv6 of the instance.

--description <description>

Description for the server. (Supported by API versions '2.19' - '2.latest')

6.27. NOVA CELL-CAPACITIES

```
usage: nova cell-capacities [--cell <cell-name>]
```

Get cell capacities for all cells or a given cell.

Optional arguments

--cell <cell-name>

Name of the cell to get the capacities.

6.28. NOVA CELL-SHOW

```
usage: nova cell-show <cell-name>
```

Show details of a given cell.

Positional arguments

<cell-name>

Name of the cell.

6.29. NOVA CLEAR-PASSWORD

```
usage: nova clear-password <server>
```

Clear the admin password for a server.

Positional arguments

<server>

Name or ID of server.

6.30. NOVA CLOUDPIPE-CONFIGURE

```
usage: nova cloudpipe-configure <ip address> <port>
```

Update the VPN IP/port of a cloudpipe instance.

Positional arguments

<ip address>

New IP Address.

<port>

New Port.

6.31. NOVA CLOUDPIPE-CREATE

```
usage: nova cloudpipe-create <project_id>
```

Create a cloudpipe instance for the given project.

Positional arguments

<project_id>

UUID of the project to create the cloudpipe for.

6.32. NOVA CLOUDPIPE-LIST

```
usage: nova cloudpipe-list
```

Print a list of all cloudpipe instances.

6.33. NOVA CONSOLE-LOG

```
usage: nova console-log [--length <length>] <server>
```


Get console log output of a server.

Positional arguments

<server>

Name or ID of server.

Optional arguments

--length <length>

Length in lines to tail.

6.34. NOVA CREDENTIALS

```
usage: nova credentials [--wrap <integer>]
```

Show user credentials returned from auth.

Optional arguments

--wrap <integer>

Wrap PKI tokens to a specified length, or 0 to disable.

6.35. NOVA DELETE

```
usage: nova delete [--all-tenants] <server> [<server> ...]
```

Immediately shut down and delete specified server(s).

Positional arguments

<server>

Name or ID of server(s).

Optional arguments

--all-tenants

Delete server(s) in another tenant by name (Admin only).

6.36. NOVA DIAGNOSTICS

6.36. NOVA DIAGNOSTICS

```
usage: nova diagnostics <server>
```

Retrieve server diagnostics.

Positional arguments

<server>

Name or ID of server.

6.37. NOVA DNS-CREATE

```
usage: nova dns-create [--type <type>] <ip> <name> <domain>
```

Create a DNS entry for domain, name, and IP.

Positional arguments

<ip>

IP address.

<name>

DNS name.

<domain>

DNS domain.

Optional arguments

--type <type>

DNS type (e.g. "A")

6.38. NOVA DNS-CREATE-PRIVATE-DOMAIN

```
usage: nova dns-create-private-domain [--availability-zone  
<availability-zone>] <domain>
```

Create the specified DNS domain.

Positional arguments**<domain>**

DNS domain.

Optional arguments**--availability-zone <availability-zone>**

Limit access to this domain to servers in the specified availability zone.

6.39. NOVA DNS-CREATE-PUBLIC-DOMAIN**usage: nova dns-create-public-domain [--project <project>] <domain>**

Create the specified DNS domain.

Positional arguments**<domain>**

DNS domain.

Optional arguments**--project <project>**

Limit access to this domain to users of the specified project.

6.40. NOVA DNS-DELETE**usage: nova dns-delete <domain> <name>**

Delete the specified DNS entry.

Positional arguments**<domain>**

DNS domain.

<name>

DNS name.

6.41. NOVA DNS-DELETE-DOMAIN

```
usage: nova dns-delete-domain <domain>
```

Delete the specified DNS domain.

Positional arguments

<domain>

DNS domain.

6.42. NOVA DNS-DOMAINS

```
usage: nova dns-domains
```

Print a list of available dns domains.

6.43. NOVA DNS-LIST

```
usage: nova dns-list [--ip <ip>] [--name <name>] <domain>
```

List current DNS entries for domain and IP or domain and name.

Positional arguments

<domain>

DNS domain.

Optional arguments

--ip <ip>

IP address.

--name <name>

DNS name.

6.44. NOVA ENDPOINTS

```
usage: nova endpoints
```

Discover endpoints that get returned from the authenticate services.

6.45. NOVA EVACUATE

```
usage: nova evacuate [--password <password>] <server> [<host>]
```

Evacuate server from failed host.

Positional arguments

<server>

Name or ID of server.

<host>

Name or ID of the target host. If no host is specified, the scheduler will choose one.

Optional arguments

--password <password>

Set the provided admin password on the evacuated server. Not applicable if the server is on shared storage.

6.46. NOVA FIXED-IP-GET

```
usage: nova fixed-ip-get <fixed_ip>
```

Retrieve info on a fixed IP.

Positional arguments

<fixed_ip>

Fixed IP Address.

6.47. NOVA FIXED-IP-RESERVE

```
usage: nova fixed-ip-reserve <fixed_ip>
```

Reserve a fixed IP.

Positional arguments

<fixed_ip>

Fixed IP Address.

6.48. NOVA FIXED-IP-UNRESERVE

```
usage: nova fixed-ip-unreserve <fixed_ip>
```

Unreserve a fixed IP.

Positional arguments

<fixed_ip>

Fixed IP Address.

6.49. NOVA FLAVOR-ACCESS-ADD

```
usage: nova flavor-access-add <flavor> <tenant_id>
```

Add flavor access for the given tenant.

Positional arguments

<flavor>

Flavor name or ID to add access for the given tenant.

<tenant_id>

Tenant ID to add flavor access for.

6.50. NOVA FLAVOR-ACCESS-LIST

```
usage: nova flavor-access-list [--flavor <flavor>] [--tenant  
<tenant_id>]
```

Print access information about the given flavor.

Optional arguments

--flavor <flavor>

Filter results by flavor name or ID.

```
--tenant <tenant_id>
```

Filter results by tenant ID.

6.51. NOVA FLAVOR-ACCESS-REMOVE

```
usage: nova flavor-access-remove <flavor> <tenant_id>
```

Remove flavor access for the given tenant.

Positional arguments

<flavor>

Flavor name or ID to remove access for the given tenant.

<tenant_id>

Tenant ID to remove flavor access for.

6.52. NOVA FLAVOR-CREATE

```
usage: nova flavor-create [--ephemeral <ephemeral>] [--swap <swap>] [--  
rxtx-factor <factor>] [--is-public <is-public>] <name> <id> <ram>  
<disk> <vcpus>
```

Create a new flavor.

Positional arguments

<name>

Unique name of the new flavor.

<id>

Unique ID of the new flavor. Specifying 'auto' will generated a UUID for the ID.

<ram>

Memory size in MB.

<disk>

Disk size in GB.

<vcpus>

Number of vcpus

Optional arguments

--ephemeral <ephemeral>

Ephemeral space size in GB (default 0).

--swap <swap>

Swap space size in MB (default 0).

--rxtx-factor <factor>

RX/TX factor (default 1).

--is-public <is-public>

Make flavor accessible to the public (default true).

6.53. NOVA FLAVOR-DELETE

```
usage: nova flavor-delete <flavor>
```

Delete a specific flavor

Positional arguments

<flavor>

Name or ID of the flavor to delete.

6.54. NOVA FLAVOR-KEY

```
usage: nova flavor-key <flavor> <action> <key=value> [<key=value> ...]
```

Set or unset extra_spec for a flavor.

Positional arguments

<flavor>

Name or ID of flavor.

<action>

Actions: 'set' or 'unset'.

<key=value>

Extra_specs to set/unset (only key is necessary on unset).

6.55. NOVA FLAVOR-LIST

```
usage: nova flavor-list [--extra-specs] [--all] [--marker <marker>] [-limit <limit>]
```

Print a list of available 'flavors' (sizes of servers).

Optional arguments

--extra-specs

Get extra-specs of each flavor.

--all

Display all flavors (Admin only).

--marker <marker>

The last flavor ID of the previous page; displays list of flavors after "marker".

--limit <limit>

Maximum number of flavors to display. If limit == -1, all flavors will be displayed. If limit is bigger than 'osapi_max_limit' option of Nova API, limit 'osapi_max_limit' will be used instead.

6.56. NOVA FLAVOR-SHOW

```
usage: nova flavor-show <flavor>
```

Show details about the given flavor.

Positional arguments

<flavor>

Name or ID of flavor.

6.57. NOVA FLOATING-IP-ASSOCIATE

```
usage: nova floating-ip-associate [--fixed-address <fixed_address>]
<server> <address>
```

Associate a floating IP address to a server.

Positional arguments

<server>

Name or ID of server.

<address>

IP Address.

Optional arguments

--fixed-address <fixed_address>

Fixed IP Address to associate with.

6.58. NOVA FLOATING-IP-BULK-CREATE

```
usage: nova floating-ip-bulk-create [--pool <pool>] [--interface
<interface>] <range>
```

Bulk create floating IPs by range (nova-network only).

Positional arguments

<range>

Address range to create.

Optional arguments

--pool <pool>

Pool for new Floating IPs.

--interface <interface>

Interface for new Floating IPs.

6.59. NOVA FLOATING-IP-BULK-DELETE

```
usage: nova floating-ip-bulk-delete <range>
```

Bulk delete floating IPs by range (nova-network only).

Positional arguments

<range>

Address range to delete.

6.60. NOVA FLOATING-IP-BULK-LIST

```
usage: nova floating-ip-bulk-list [--host <host>]
```

List all floating IPs (nova-network only).

Optional arguments

--host <host>

Filter by host.

6.61. NOVA FLOATING-IP-CREATE

```
usage: nova floating-ip-create [<floating-ip-pool>]
```

Allocate a floating IP for the current tenant.

Positional arguments

<floating-ip-pool>

Name of Floating IP Pool. (Optional)

6.62. NOVA FLOATING-IP-DELETE

```
usage: nova floating-ip-delete <address>
```

De-allocate a floating IP.

Positional arguments

<address>

IP of Floating IP.

6.63. NOVA FLOATING-IP-DISASSOCIATE

```
usage: nova floating-ip-disassociate <server> <address>
```

Disassociate a floating IP address from a server.

Positional arguments

<server>

Name or ID of server.

<address>

IP Address.

6.64. NOVA FLOATING-IP-LIST

```
usage: nova floating-ip-list
```

List floating IPs.

6.65. NOVA FLOATING-IP-POOL-LIST

```
usage: nova floating-ip-pool-list
```

List all floating IP pools.

6.66. NOVA FORCE-DELETE

```
usage: nova force-delete <server>
```

Force delete a server.

Positional arguments

<server>

Name or ID of server.

6.67. NOVA GET-MKS-CONSOLE

```
usage: nova get-mks-console <server>
```

Get a serial console to a server. (Supported by API versions '2.8' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

Positional arguments

<server>

Name or ID of server.

6.68. NOVA GET-PASSWORD

```
usage: nova get-password <server> [<private-key>]
```

Get the admin password for a server.

Positional arguments

<server>

Name or ID of server.

<private-key>

Private key (used locally to decrypt password) (Optional). When specified, the command displays the clear (decrypted) VM password. When not specified, the ciphered VM password is displayed.

6.69. NOVA GET-RDP-CONSOLE

```
usage: nova get-rdp-console <server> <console-type>
```

Get a rdp console to a server.

Positional arguments

<server>

Name or ID of server.

<console-type>

Type of rdp console ("rdp-html5").

6.70. NOVA GET-SERIAL-CONSOLE

```
usage: nova get-serial-console [--console-type CONSOLE_TYPE] <server>
```

Get a serial console to a server.

Positional arguments**<server>**

Name or ID of server.

Optional arguments

--console-type CONSOLE_TYPE

Type of serial console, default="serial".

6.71. NOVA GET-SPICE-CONSOLE

```
usage: nova get-spice-console <server> <console-type>
```

Get a spice console to a server.

Positional arguments**<server>**

Name or ID of server.

<console-type>

Type of spice console ("spice-html5").

6.72. NOVA GET-VNC-CONSOLE

```
usage: nova get-vnc-console <server> <console-type>
```

Get a vnc console to a server.

Positional arguments**<server>**

Name or ID of server.

<console-type>

Type of vnc console ("novnc" or "xvpvnc").

6.73. NOVA HOST-ACTION

```
usage: nova host-action [--action <action>] <hostname>
```

Perform a power action on a host.

Positional arguments**<hostname>**

Name of host.

Optional arguments**--action <action>**

A power action: startup, reboot, or shutdown.

6.74. NOVA HOST-DESCRIBE

```
usage: nova host-describe <hostname>
```

Describe a specific host.

Positional arguments**<hostname>**

Name of host.

6.75. NOVA HOST-EVACUATE

```
usage: nova host-evacuate [--target_host <target_host>] [--on-shared-storage] <host>
```

Evacuate all instances from failed host.

Positional arguments

<host>

Name of host.

Optional arguments

--target-host <target_host>

Name of target host. If no host is specified the scheduler will select a target.

--on-shared-storage

Specifies whether all instances files are on shared storage

6.76. NOVA HOST-EVACUATE-LIVE

```
usage: nova host-evacuate-live [--target-host <target_host>] [--block-migrate] [--disk-over-commit] [--max-servers <max_servers>] <host>
```

Live migrate all instances of the specified host to other available hosts.

Positional arguments

<host>

Name of host.

Optional arguments

--target-host <target_host>

Name of target host.

--block-migrate

Enable block migration.

--disk-over-commit

Enable disk overcommit.

--max-servers <max_servers>

Maximum number of servers to live migrate simultaneously

6.77. NOVA HOST-LIST

```
usage: nova host-list [--zone <zone>]
```

List all hosts by service.

Optional arguments

--zone <zone>

Filters the list, returning only those hosts in the availability zone <zone>.

6.78. NOVA HOST-META

```
usage: nova host-meta <host> <action> <key=value> [<key=value> ...]
```

Set or Delete metadata on all instances of a host.

Positional arguments

<host>

Name of host.

<action>

Actions: 'set' or 'delete'

<key=value>

Metadata to set or delete (only key is necessary on delete)

6.79. NOVA HOST-SERVERS-MIGRATE

```
usage: nova host-servers-migrate <host>
```

Migrate all instances of the specified host to other available hosts.

Positional arguments

<host>

Name of host.

6.80. NOVA HOST-UPDATE

```
usage: nova host-update [--status <enable|disable>] [--maintenance  
<enable|disable>] <hostname>
```

Update host settings.

Positional arguments

<hostname>

Name of host.

Optional arguments

--status <enable|disable>

Either enable or disable a host.

--maintenance <enable|disable>

Either put or resume host to/from maintenance.

6.81. NOVA HYPERVISOR-LIST

```
usage: nova hypervisor-list [--matching <hostname>]
```

List hypervisors.

Optional arguments

--matching <hostname>

List hypervisors matching the given <hostname>.

6.82. NOVA HYPERVISOR-SERVERS

```
usage: nova hypervisor-servers <hostname>
```

List servers belonging to specific hypervisors.

Positional arguments

<hostname>

The hypervisor hostname (or pattern) to search for.

6.83. NOVA HYPERVISOR-SHOW

```
usage: nova hypervisor-show [--wrap <integer>] <hypervisor>
```

Display the details of the specified hypervisor.

Positional arguments

<hypervisor>

Name or ID of the hypervisor to show the details of.

Optional arguments

--wrap <integer>

Wrap the output to a specified length. Default is 40 or 0 to disable

6.84. NOVA HYPERVISOR-STATS

```
usage: nova hypervisor-stats
```

Get hypervisor statistics over all compute nodes.

Warning

When using Red Hat Ceph as a back end for ephemeral storage, the Compute service does not calculate the amount of available storage correctly. Specifically, Compute simply adds up the amount of available storage without factoring in replication. This results in grossly overstated available storage, which in turn could cause unexpected storage oversubscription.

To determine the correct ephemeral storage capacity, query the Ceph service directly instead. For more information, see [BZ#1236473](#).

6.85. NOVA HYPERVISOR-UPTIME

```
usage: nova hypervisor-uptime <hypervisor>
```

Display the uptime of the specified hypervisor.

Positional arguments

<hypervisor>

Name or ID of the hypervisor to show the uptime of.

6.86. NOVA IMAGE-CREATE

```
usage: nova image-create [--metadata <key=value>] [--show] [--poll]
<server> <name>
```

Create a new image by taking a snapshot of a running server.

Positional arguments

<server>

Name or ID of server.

<name>

Name of snapshot.

Optional arguments

--metadata <key=value>

Record arbitrary key/value metadata to /meta_data.json on the metadata server. Can be specified multiple times.

--show

Print image info.

--poll

Report the snapshot progress and poll until image creation is complete.

6.87. NOVA IMAGE-DELETE

```
usage: nova image-delete <image> [<image> ...]
```

Delete specified image(s).

Positional arguments

<image>

Name or ID of image(s).

6.88. NOVA IMAGE-LIST

```
usage: nova image-list [--limit <limit>]
```

Print a list of available images to boot from.

Optional arguments

--limit <limit>

Number of images to return per request.

6.89. NOVA IMAGE-META

```
usage: nova image-meta <image> <action> <key=value> [<key=value> ...]
```

Set or delete metadata on an image.

Positional arguments

<image>

Name or ID of image.

<action>

Actions: 'set' or 'delete'.

<key=value>

Metadata to add/update or delete (only key is necessary on delete).

6.90. NOVA IMAGE-SHOW

```
usage: nova image-show <image>
```

Show details about the given image.

Positional arguments

<image>

Name or ID of image.

6.91. NOVA INSTANCE-ACTION

```
usage: nova instance-action <server> <request_id>
```

Show an action.

Positional arguments

<server>

Name or UUID of the server to show actions for. Only UUID can be used to show actions for a deleted server. (Supported by API versions '2.21' - '2.latest')

<request_id>

Request ID of the action to get.

6.92. NOVA INSTANCE-ACTION-LIST

```
usage: nova instance-action-list <server>
```

List actions on a server.

Positional arguments

<server>

Name or UUID of the server to list actions for. Only UUID can be used to list actions on a deleted server. (Supported by API versions '2.21' - '2.latest')

6.93. NOVA INTERFACE-ATTACH

```
usage: nova interface-attach [--port-id <port_id>] [--net-id <net_id>]  
[--fixed-ip <fixed_ip>] <server>
```

Attach a network interface to a server.

Positional arguments

<server>

Name or ID of server.

Optional arguments

--port-id <port_id>

Port ID.

--net-id <net_id>

Network ID

--fixed-ip <fixed_ip>

Requested fixed IP.

6.94. NOVA INTERFACE-DETACH

```
usage: nova interface-detach <server> <port_id>
```

Detach a network interface from a server.

Positional arguments

<server>

Name or ID of server.

<port_id>

Port ID.

6.95. NOVA INTERFACE-LIST

```
usage: nova interface-list <server>
```

List interfaces attached to a server.

Positional arguments

<server>

Name or ID of server.

6.96. NOVA KEYPAIR-ADD

```
usage: nova keypair-add [--pub-key <pub-key>] [--key-type <key-type>]
      [--user <user-id>] <name>
```

Create a new key pair for use with servers.

Positional arguments

<name>

Name of key.

Optional arguments

--pub-key <pub-key>

Path to a public ssh key.

--key-type <key-type>

Keypair type. Can be ssh or x509. (Supported by API versions '2.2' - '2.latest')

--user <user-id>

ID of user to whom to add key-pair (Admin only). (Supported by API versions '2.10' - '2.latest')

6.97. NOVA KEYPAIR-DELETE

```
usage: nova keypair-delete [--user <user-id>] <name>
```

Delete keypair given by its name. (Supported by API versions '2.0' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

Positional arguments

<name>

Keypair name to delete.

Optional arguments

--user <user-id>

ID of key-pair owner (Admin only).

6.98. NOVA KEYPAIR-LIST

```
usage: nova keypair-list [--user <user-id>]
```

Print a list of keypairs for a user (Supported by API versions '2.0' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

Optional arguments

--user <user-id>

List key-pairs of specified user ID (Admin only).

6.99. NOVA KEYPAIR-SHOW

```
usage: nova keypair-show [--user <user-id>] <keypair>
```

Show details about the given keypair. (Supported by API versions '2.0' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

Positional arguments

<keypair>

Name of keypair.

Optional arguments

--user <user-id>

ID of key-pair owner (Admin only).

6.100. NOVA LIMITS

```
usage: nova limits [--tenant [<tenant>]] [--reserved]
```

Print rate and absolute limits.

Optional arguments

--tenant [<tenant>]

Display information from single tenant (Admin only).

--reserved

Include reservations count.

6.101. NOVA LIST

```
usage: nova list [--reservation-id <reservation-id>] [--ip <ip-regexp>]
[--ip6 <ip6-regexp>] [--name <name-regexp>] [--instance-name <name-
regexp>] [--status <status>] [--flavor <flavor>] [--image <image>] [--
host <hostname>] [--all-tenants [<0|1>]] [--tenant [<tenant>]] [--user
<user>]] [--deleted] [--fields <fields>] [--minimal] [--sort <key>[:
<direction>]] [--marker <marker>] [--limit <limit>]
```

List active servers.

Optional arguments

--reservation-id <reservation-id>

Only return servers that match reservation-id.

--ip <ip-regexp>

Search with regular expression match by IP address.

--ip6 <ip6-regexp>

Search with regular expression match by IPv6 address.

--name <name-regexp>

Search with regular expression match by name.

--instance-name <name-regexp>

Search with regular expression match by server name.

--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 servers by hostname to which they are assigned (Admin only).

--all-tenants [<0|1>]

Display information from all tenants (Admin only).

--tenant [<tenant>]

Display information from single tenant (Admin only).

--user [<user>]

Display information from single user (Admin only).

--deleted

Only display deleted servers (Admin only).

--fields <fields>

Comma-separated list of fields to display. Use the show command to see which fields are available.

--minimal

Get only UUID and name.

--sort <key>[:<direction>]

Comma-separated list of sort keys and directions in the form of <key>[:<asc|desc>]. The direction defaults to descending if not specified.

--marker <marker>

The last server UUID of the previous page; displays list of servers after "marker".

--limit <limit>

Maximum number of servers to display. If limit == -1, all servers will be displayed. If limit is bigger than 'osapi_max_limit' option of Nova API, limit 'osapi_max_limit' will be used instead.

6.102. NOVA LIST-EXTENSIONS

```
usage: nova list-extensions
```

List all the os-api extensions that are available.

6.103. NOVA LIST-SECGROUP

```
usage: nova list-secgroup <server>
```

List Security Group(s) of a server.

Positional arguments

<server>

Name or ID of server.

6.104. NOVA LIVE-MIGRATION

```
usage: nova live-migration [--block-migrate] <server> [<host>]
```

Migrate running server to a new machine.

Positional arguments

<server>

Name or ID of server.

<host>

Destination host name.

Optional arguments

--block-migrate

True in case of block_migration. (Default=auto:live_migration) (Supported by API versions '2.25' - '2.latest')

6.105. NOVA LIVE-MIGRATION-ABORT

```
usage: nova live-migration-abort <server> <migration>
```

-

Abort an on-going live migration. (Supported by API versions '2.24' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

Positional arguments

<server>

Name or ID of server.

<migration>

ID of migration.

6.106. NOVA LIVE-MIGRATION-FORCE-COMPLETE

```
usage: nova live-migration-force-complete <server> <migration>
```

Force on-going live migration to complete. (Supported by API versions '2.22' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

Positional arguments

<server>

Name or ID of server.

<migration>

ID of migration.

6.107. NOVA LOCK

```
usage: nova lock <server>
```

Lock a server. A normal (non-admin) user will not be able to execute actions on a locked server.

Positional arguments

<server>

Name or ID of server.

6.108. NOVA META

```
usage: nova meta <server> <action> <key=value> [<key=value> ...]
```

Set or delete metadata on a server.

Positional arguments

<server>

Name or ID of server.

<action>

Actions: 'set' or 'delete'.

<key=value>

Metadata to set or delete (only key is necessary on delete).

6.109. NOVA MIGRATE

```
usage: nova migrate [--poll] <server>
```

Migrate a server. The new host will be selected by the scheduler.

Positional arguments

<server>

Name or ID of server.

Optional arguments

--poll

Report the server migration progress until it completes.

6.110. NOVA MIGRATION-LIST

```
usage: nova migration-list [--host <host>] [--status <status>] [--  
cell_name <cell_name>]
```

Print a list of migrations.

Optional arguments

--host <host>

Fetch migrations for the given host.

--status <status>

Fetch migrations for the given status.

--cell_name <cell_name>

Fetch migrations for the given cell_name.

6.111. NOVA NETWORK-ASSOCIATE-HOST

```
usage: nova network-associate-host <network> <host>
```

Associate host with network.

Positional arguments

<network>

UUID of network.

<host>

Name of host

6.112. NOVA NETWORK-ASSOCIATE-PROJECT

```
usage: nova network-associate-project <network>
```

Associate project with network.

Positional arguments

<network>

UUID of network.

6.113. NOVA NETWORK-CREATE

```
usage: nova network-create [--fixed-range-v4 <x.x.x.x/yy>] [--fixed-range-v6 CIDR_V6] [--vlan <vlan id>] [--vlan-start <vlan start>] [--vpn <vpn start>] [--gateway GATEWAY] [--gateway-v6 GATEWAY_V6] [--bridge
```

```
<bridge>] [--bridge-interface <bridge interface>] [--multi-host
<'T'/'F'>] [--dns1 <DNS Address>] [--dns2 <DNS Address>] [--uuid
<network uuid>] [--fixed-cidr <x.x.x.x/yy>] [--project-id <project id>]
[--priority <number>] [--mtu MTU] [--enable-dhcp <'T'/'F'>] [--dhcp-
server DHCP_SERVER] [--share-address <'T'/'F'>] [--allowed-start
ALLOWED_START] [--allowed-end ALLOWED_END] <network_label>
```

Create a network.

Positional arguments

<network_label>

Label for network

Optional arguments

--fixed-range-v4 <x.x.x.x/yy>

IPv4 subnet (ex: 10.0.0.0/8)

--fixed-range-v6

CIDR_V6 IPv6 subnet (ex: fe80::/64)

--vlan <vlan id>

The vlan ID to be assigned to the project.

--vlan-start <vlan start>

First vlan ID to be assigned to the project. Subsequent vlan IDs will be assigned incrementally.

--vpn <vpn start>

vpn start

--gateway GATEWAY

gateway

--gateway-v6

GATEWAY_V6 IPv6 gateway

--bridge <bridge>

VIFs on this network are connected to this bridge.

--bridge-interface <bridge interface>

The bridge is connected to this interface.

--multi-host <'T'|'F'>

Multi host

--dns1 <DNS Address>

First DNS.

--dns2 <DNS Address>

Second DNS.

--uuid <network uuid>

Network UUID.

--fixed-cidr <x.x.x.x/yy>

IPv4 subnet for fixed IPs (ex: 10.20.0.0/16).

--project-id <project id>

Project ID.

--priority <number>

Network interface priority.

--mtu MTU

MTU for network.

--enable-dhcp <'T'|'F'>

Enable DHCP.

--dhcp-server DHCP_SERVER

DHCP-server address (defaults to gateway address)

--share-address <'T'|'F'>

Share address

--allowed-start ALLOWED_START

Start of allowed addresses for instances.

--allowed-end ALLOWED_END

End of allowed addresses for instances.

6.114. NOVA NETWORK-DELETE

```
usage: nova network-delete <network>
```

Delete network by label or id.

Positional arguments

<network>

UUID or label of network.

6.115. NOVA NETWORK-DISASSOCIATE

```
usage: nova network-disassociate [--host-only [<0|1>]] [--project-only  
[<0|1>]] <network>
```

Disassociate host and/or project from the given network.

Positional arguments

<network>

UUID of network.

Optional arguments

--host-only [<0|1>]

--project-only [<0|1>]

6.116. NOVA NETWORK-LIST

```
usage: nova network-list [--fields <fields>]
```

Print a list of available networks.

Optional arguments

--fields <fields>

Comma-separated list of fields to display. Use the show command to see which fields are available.

6.117. NOVA NETWORK-SHOW

usage: nova network-show <network>

Show details about the given network.

Positional arguments

<network>

UUID or label of network.

6.118. NOVA PAUSE

usage: nova pause <server>

Pause a server.

Positional arguments

<server>

Name or ID of server.

6.119. NOVA QUOTA-CLASS-SHOW

usage: nova quota-class-show <class>

List the quotas for a quota class.

Positional arguments

<class>

Name of quota class to list the quotas for.

6.120. NOVA QUOTA-CLASS-UPDATE

```
usage: nova quota-class-update [--instances <instances>] [--cores
<cores>] [--ram <ram>] [--floating-ips <floating-ips>] [--fixed-ips
<fixed-ips>] [--metadata-items <metadata-items>] [--injected-files
<injected-files>] [--injected-file-content-bytes <injected-file-
content-bytes>] [--injected-file-path-bytes <injected-file-path-bytes>]
[--key-pairs <key-pairs>] [--security-groups <security-groups>] [--
security-group-rules <security-group-rules>] [--server-groups <server-
groups>] [--server-group-members <server-group-members>] <class>
```

Update the quotas for a quota class.

Positional arguments

<class>

Name of quota class to set the quotas for.

Optional arguments

--instances <instances>

New value for the "instances" quota.

--cores <cores>

New value for the "cores" quota.

--ram <ram>

New value for the "ram" quota.

--floating-ips <floating-ips>

New value for the "floating-ips" quota.

--fixed-ips <fixed-ips>

New value for the "fixed-ips" quota.

--metadata-items <metadata-items>

New value for the "metadata-items" quota.

--injected-files <injected-files>

New value for the "injected-files" quota.

--injected-file-content-bytes <injected-file-content-bytes>

New value for the "injected-file-content- bytes" quota.

--injected-file-path-bytes <injected-file-path-bytes>

New value for the "injected-file-path-bytes" quota.

--key-pairs <key-pairs>

New value for the "key-pairs" quota.

--security-groups <security-groups>

New value for the "security-groups" quota.

--security-group-rules <security-group-rules>

New value for the "security-group-rules" 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.

6.121. NOVA QUOTA-DEFAULTS

```
usage: nova quota-defaults [--tenant <tenant-id>]
```

List the default quotas for a tenant.

Optional arguments

--tenant <tenant-id>

ID of tenant to list the default quotas for.

6.122. NOVA QUOTA-DELETE

```
usage: nova quota-delete --tenant <tenant-id> [--user <user-id>]
```

Delete quota for a tenant/user so their quota will Revert back to default.

Optional arguments

--tenant <tenant-id>

ID of tenant to delete quota for.

--user <user-id>

ID of user to delete quota for.

6.123. NOVA QUOTA-SHOW

```
usage: nova quota-show [--tenant <tenant-id>] [--user <user-id>]
```

List the quotas for a tenant/user.

Optional arguments

--tenant <tenant-id>

ID of tenant to list the quotas for.

--user <user-id>

ID of user to list the quotas for.

6.124. NOVA QUOTA-UPDATE

```
usage: nova quota-update [--user <user-id>] [--instances <instances>]
[--cores <cores>] [--ram <ram>] [--floating-ips <floating-ips>] [--
fixed-ips <fixed-ips>] [--metadata-items <metadata-items>] [--injected-
files <injected-files>] [--injected-file-content-bytes <injected-file-
content-bytes>] [--injected-file-path-bytes <injected-file-path-bytes>]
[--key-pairs <key-pairs>] [--security-groups <security-groups>] [--
security-group-rules <security-group-rules>] [--server-groups <server-
groups>] [--server-group-members <server-group-members>] [--force]
<tenant-id>
```

Update the quotas for a tenant/user.

Positional arguments

<tenant-id>

ID of tenant to set the quotas for.

Optional arguments

--user <user-id>

ID of user to set the quotas for.

--instances <instances>

New value for the "instances" quota.

--cores <cores>

New value for the "cores" quota.

--ram <ram>

New value for the "ram" quota.

--floating-ips <floating-ips>

New value for the "floating-ips" quota.

--fixed-ips <fixed-ips>

New value for the "fixed-ips" quota.

--metadata-items <metadata-items>

New value for the "metadata-items" quota.

--injected-files <injected-files>

New value for the "injected-files" quota.

--injected-file-content-bytes <injected-file-content-bytes>

New value for the "injected-file-content- bytes" quota.

--injected-file-path-bytes <injected-file-path-bytes>

New value for the "injected-file-path-bytes" quota.

--key-pairs <key-pairs>

New value for the "key-pairs" quota.

--security-groups <security-groups>

New value for the "security-groups" quota.

--security-group-rules <security-group-rules>

New value for the "security-group-rules" 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.

--force

Whether force update the quota even if the already used and reserved exceeds the new quota.

6.125. NOVA REBOOT

usage: nova reboot [--hard] [--poll] <server> [<server> ...]

Reboot a server.

Positional arguments

<server>

Name or ID of server(s).

Optional arguments

--hard

Perform a hard reboot (instead of a soft one).

--poll

Poll until reboot is complete.

6.126. NOVA REBUILD


```
usage: nova rebuild [--rebuild-password <rebuild-password>] [--poll] [-
-minimal] [--preserve-ephemeral] [--name <name>] [--description
<description>] [--meta <key=value>] [--file <dst-path=src-path>]
<server> <image>
```

Shutdown, re-image, and re-boot a server.

Positional arguments

<server>

Name or ID of server.

<image>

Name or ID of new image.

Optional arguments

--rebuild-password <rebuild-password>

Set the provided admin password on the rebuilt server.

--poll

Report the server rebuild progress until it completes.

--minimal

Skips flavor/image lookups when showing servers.

--preserve-ephemeral

Preserve the default ephemeral storage partition on rebuild.

--name <name>

Name for the new server.

--description <description>

New description for the server. (Supported by API versions '2.19' - '2.latest')

--meta <key=value>

Record arbitrary key/value metadata to /meta_data.json on the metadata server. Can be specified multiple times.

--file <dst-path=src-path>

Store arbitrary files from <src-path> locally to <dst-path> on the new server. You may store up to 5 files.

6.127. NOVA REFRESH-NETWORK

usage: nova refresh-network <server>

Refresh server network information.

Positional arguments

<server>

Name or ID of a server for which the network cache should be refreshed from neutron (Admin only).

6.128. NOVA REMOVE-FIXED-IP

usage: nova remove-fixed-ip <server> <address>

Remove an IP address from a server.

Positional arguments

<server>

Name or ID of server.

<address>

IP Address.

6.129. NOVA REMOVE-SECGROUP

usage: nova remove-secgroup <server> <secgroup>

Remove a Security Group from a server.

Positional arguments

<server>

Name or ID of server.

<secgroup>

Name of Security Group.

6.130. NOVA RESCUE

```
usage: nova rescue [--password <password>] [--image <image>] <server>
```

Reboots a server into rescue mode, which starts the machine from either the initial image or a specified image, attaching the current boot disk as secondary.

Positional arguments

<server>

Name or ID of server.

Optional arguments

--password <password>

The admin password to be set in the rescue environment.

--image <image>

The image to rescue with.

6.131. NOVA RESET-NETWORK

```
usage: nova reset-network <server>
```

Reset network of a server.

Positional arguments

<server>

Name or ID of server.

6.132. NOVA RESET-STATE

```
usage: nova reset-state [--all-tenants] [--active] <server> [<server> ...]
```

-

Reset the state of a server.

Positional arguments

<server>

Name or ID of server(s).

Optional arguments

--all-tenants

Reset state server(s) in another tenant by name (Admin only).

--active

Request the server be reset to "active" state instead of "error" state (the default).

6.133. NOVA RESIZE

```
usage: nova resize [--poll] <server> <flavor>
```

Resize a server.

Positional arguments

<server>

Name or ID of server.

<flavor>

Name or ID of new flavor.

Optional arguments

--poll

Report the server resize progress until it completes.

6.134. NOVA RESIZE-CONFIRM

```
usage: nova resize-confirm <server>
```

Confirm a previous resize.

Positional arguments

<server>

Name or ID of server.

6.135. NOVA RESIZE-REVERT

```
usage: nova resize-revert <server>
```

Revert a previous resize (and return to the previous VM).

Positional arguments

<server>

Name or ID of server.

6.136. NOVA RESTORE

```
usage: nova restore <server>
```

Restore a soft-deleted server.

Positional arguments

<server>

Name or ID of server.

6.137. NOVA RESUME

```
usage: nova resume <server>
```

Resume a server.

Positional arguments

<server>

Name or ID of server.

6.138. NOVA SCRUB

```
usage: nova scrub <project_id>
```

Delete networks and security groups associated with a project.

Positional arguments

<project_id>

The ID of the project.

6.139. NOVA SECGROUP-ADD-DEFAULT-RULE

```
usage: nova secgroup-add-default-rule <ip-PROTO> <from-port> <to-port>
<cidr>
```

Add a rule to the set of rules that will be added to the 'default' security group for new tenants (nova-network only).

Positional arguments

<ip-PROTO>

IP protocol (icmp, tcp, udp).

<from-port>

Port at start of range.

<to-port>

Port at end of range.

<cidr>

CIDR for address range.

6.140. NOVA SECGROUP-ADD-GROUP-RULE

```
usage: nova secgroup-add-group-rule <secgroup> <source-group> <ip-
PROTO> <from-port> <to-port>
```

Add a source group rule to a security group.

Positional arguments**<secgroup>**

ID or name of security group.

<source-group>

ID or name of source group.

<ip-proto>

IP protocol (icmp, tcp, udp).

<from-port>

Port at start of range.

<to-port>

Port at end of range.

6.141. NOVA SECGRP-ADD-RULE

```
usage: nova secgroup-add-rule <secgroup> <ip-proto> <from-port> <to-  
port> <cidr>
```

Add a rule to a security group.

Positional arguments**<secgroup>**

ID or name of security group.

<ip-proto>

IP protocol (icmp, tcp, udp).

<from-port>

Port at start of range.

<to-port>

Port at end of range.

<cidr>

CIDR for address range.

6.142. NOVA SECGRP-CREATE

```
usage: nova secgroup-create <name> <description>
```

Create a security group.

Positional arguments

<name>

Name of security group.

<description>

Description of security group.

6.143. NOVA SECGRP-DELETE

```
usage: nova secgroup-delete <secgroup>
```

Delete a security group.

Positional arguments

<secgroup>

ID or name of security group.

6.144. NOVA SECGRP-DELETE-DEFAULT-RULE

```
usage: nova secgroup-delete-default-rule <ip-proto> <from-port> <to-  
port> <cidr>
```

Delete a rule from the set of rules that will be added to the 'default' security group for new tenants (nova-network only).

Positional arguments

<ip-proto>

IP protocol (icmp, tcp, udp).

<from-port>

Port at start of range.

<to-port>

Port at end of range.

<cidr>

CIDR for address range.

6.145. NOVA SECGRP-DELETE-GROUP-RULE

```
usage: nova secgroup-delete-group-rule <secgroup> <source-group> <ip-
proto> <from-port> <to-port>
```

Delete a source group rule from a security group.

Positional arguments

<secgroup>

ID or name of security group.

<source-group>

ID or name of source group.

<ip-proto>

IP protocol (icmp, tcp, udp).

<from-port>

Port at start of range.

<to-port>

Port at end of range.

6.146. NOVA SECGRP-DELETE-RULE

```
usage: nova secgroup-delete-rule <secgroup> <ip-PROTO> <from-port> <to-port> <cidr>
```

Delete a rule from a security group.

Positional arguments

<secgroup>

ID or name of security group.

<ip-PROTO>

IP protocol (icmp, tcp, udp).

<from-port>

Port at start of range.

<to-port>

Port at end of range.

<cidr>

CIDR for address range.

6.147. NOVA SECGROUP-LIST

```
usage: nova secgroup-list [--all-tenants [<0|1>]]
```

List security groups for the current tenant.

Optional arguments

--all-tenants [<0|1>]

Display information from all tenants (Admin only).

6.148. NOVA SECGROUP-LIST-DEFAULT-RULES

```
usage: nova secgroup-list-default-rules
```

List rules that will be added to the 'default' security group for new tenants.

6.149. NOVA SECGROUP-LIST-RULES

```
usage: nova secgroup-list-rules <secgroup>
```

List rules for a security group.

Positional arguments

<secgroup>

ID or name of security group.

6.150. NOVA SECGROUP-UPDATE

```
usage: nova secgroup-update <secgroup> <name> <description>
```

Update a security group.

Positional arguments

<secgroup>

ID or name of security group.

<name>

Name of security group.

<description>

Description of security group.

6.151. NOVA SERVER-GROUP-CREATE

```
usage: nova server-group-create <name> [<policy> [<policy> ...]]
```

Create a new server group with the specified details.

Positional arguments

<name>

Server group name.

<policy>

Policies for the server groups.

6.152. NOVA SERVER-GROUP-DELETE

```
usage: nova server-group-delete <id> [<id> ...]
```

Delete specific server group(s).

Positional arguments**<id>**

Unique ID(s) of the server group to delete.

6.153. NOVA SERVER-GROUP-GET

```
usage: nova server-group-get <id>
```

Get a specific server group.

Positional arguments**<id>**

Unique ID of the server group to get.

6.154. NOVA SERVER-GROUP-LIST

```
usage: nova server-group-list [--all-projects]
```

Print a list of all server groups.

Optional arguments**--all-projects**

Display server groups from all projects (Admin only).

6.155. NOVA SERVER-MIGRATION-LIST

```
usage: nova server-migration-list <server>
```

Get the migrations list of specified server. (Supported by API versions '2.23' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

Positional arguments

<server>

Name or ID of server.

6.156. NOVA SERVER-MIGRATION-SHOW

```
usage: nova server-migration-show <server> <migration>
```

Get the migration of specified server. (Supported by API versions '2.23' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

Positional arguments

<server>

Name or ID of server.

<migration>

ID of migration.

6.157. NOVA SERVICE-DELETE

```
usage: nova service-delete <id>
```

Delete the service.

Positional arguments

<id>

ID of service.

6.158. NOVA SERVICE-DISABLE

```
usage: nova service-disable [--reason <reason>] <hostname> <binary>
```

Disable the service.

Positional arguments

<hostname>

Name of host.

<binary>

Service binary.

Optional arguments

--reason <reason>

Reason for disabling service.

6.159. NOVA SERVICE-ENABLE

```
usage: nova service-enable <hostname> <binary>
```

Enable the service.

Positional arguments

<hostname>

Name of host.

<binary>

Service binary.

6.160. NOVA SERVICE-FORCE-DOWN

```
usage: nova service-force-down [--unset] <hostname> <binary>
```

Force service to down. (Supported by API versions '2.11' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

Positional arguments

<hostname>

Name of host.

<binary>

Service binary.

Optional arguments

--unset

Unset the force state down of service.

6.161. NOVA SERVICE-LIST

```
usage: nova service-list [--host <hostname>] [--binary <binary>]
```

Show a list of all running services. Filter by host & binary.

Optional arguments

--host <hostname>

Name of host.

--binary <binary>

Service binary.

6.162. NOVA SET-PASSWORD

```
usage: nova set-password <server>
```

Change the admin password for a server.

Positional arguments

<server>

Name or ID of server.

6.163. NOVA SHELVE

```
usage: nova shelve <server>
```

Shelve a server.

Positional arguments

<server>

Name or ID of server.

6.164. NOVA SHELVE-OFFLOAD

```
usage: nova shelve-offload <server>
```

Remove a shelved server from the compute node.

Positional arguments

<server>

Name or ID of server.

6.165. NOVA SHOW

```
usage: nova show [--minimal] <server>
```

Show details about the given server.

Positional arguments

<server>

Name or ID of server.

Optional arguments

--minimal

Skips flavor/image lookups when showing servers.

6.166. NOVA SSH

```
usage: nova ssh [--port PORT] [--address-type ADDRESS_TYPE] [--network <network>] [--ipv6] [--login <login>] [-i IDENTITY] [--extra-opts EXTRA] <server>
```

SSH into a server.

Positional arguments**<server>**

Name or ID of server.

Optional arguments**--port PORT**

Optional flag to indicate which port to use for ssh. (Default=22)

--address-type ADDRESS_TYPE

Optional flag to indicate which IP type to use. Possible values includes fixed and floating (the Default).

--network <network>

Network to use for the ssh.

--ipv6

Optional flag to indicate whether to use an IPv6 address attached to a server. (Defaults to IPv4 address)

--login <login>

Login to use.

-i IDENTITY, --identity IDENTITY

Private key file, same as the -i option to the ssh command.

--extra-opts EXTRA

Extra options to pass to ssh. see: man ssh.

6.167. NOVA START**usage: nova start [--all-tenants] <server> [<server> ...]**

Start the server(s).

Positional arguments

<server>

Name or ID of server(s).

Optional arguments

--all-tenants

Start server(s) in another tenant by name (Admin only).

6.168. NOVA STOP

```
usage: nova stop [--all-tenants] <server> [<server> ...]
```

Stop the server(s).

Positional arguments

<server>

Name or ID of server(s).

Optional arguments

--all-tenants

Stop server(s) in another tenant by name (Admin only).

6.169. NOVA SUSPEND

```
usage: nova suspend <server>
```

Suspend a server.

Positional arguments

<server>

Name or ID of server.

6.170. NOVA TENANT-NETWORK-CREATE

```
usage: nova tenant-network-create <network_label> <cidr>
```

Create a tenant network.

Positional arguments

<network_label>

Network label (ex. my_new_network)

<cidr>

IP block to allocate from (ex. 172.16.0.0/24 or 2001:DB8::/64)

6.171. NOVA TENANT-NETWORK-DELETE

```
usage: nova tenant-network-delete <network_id>
```

Delete a tenant network.

Positional arguments

<network_id>

ID of network

6.172. NOVA TENANT-NETWORK-LIST

```
usage: nova tenant-network-list
```

List tenant networks.

6.173. NOVA TENANT-NETWORK-SHOW

```
usage: nova tenant-network-show <network_id>
```

Show a tenant network.

Positional arguments

<network_id>

ID of network

6.174. NOVA TRIGGER-CRASH-DUMP

```
usage: nova trigger-crash-dump <server>
```

Trigger crash dump in an instance. (Supported by API versions '2.17' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

Positional arguments

<server>

Name or ID of server.

6.175. NOVA UNLOCK

```
usage: nova unlock <server>
```

Unlock a server.

Positional arguments

<server>

Name or ID of server.

6.176. NOVA UNPAUSE

```
usage: nova unpause <server>
```

Unpause a server.

Positional arguments

<server>

Name or ID of server.

6.177. NOVA UNRESCUE

```
usage: nova unrescue <server>
```

Restart the server from normal boot disk again.

Positional arguments

<server>

Name or ID of server.

6.178. NOVA UNSHELVE

usage: nova unshelve <server>

Unshelve a server.

Positional arguments

<server>

Name or ID of server.

6.179. NOVA UPDATE

usage: nova update [--name <name>] [--description <description>]
<server>

Update the name or the description for a server.

Positional arguments

<server>

Name (old name) or ID of server.

Optional arguments

--name <name>

New name for the server.

--description <description>

New description for the server. If it equals to empty string (i.g. ""), the server description will be removed. (Supported by API versions '2.19' - '2.latest')

6.180. NOVA USAGE

usage: nova usage [--start <start>] [--end <end>] [--tenant <tenant-id>]

Show usage data for a single tenant.

Optional arguments

--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)

--tenant <tenant-id>

UUID of tenant to get usage for.

6.181. NOVA USAGE-LIST

```
usage: nova usage-list [--start <start>] [--end <end>]
```

List usage data for all tenants.

Optional arguments

--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)

6.182. NOVA VERSION-LIST

```
usage: nova version-list
```

List all API versions.

6.183. NOVA VIRTUAL-INTERFACE-LIST

```
usage: nova virtual-interface-list <server>
```

Show virtual interface info about the given server.

Positional arguments

<server>

ID of server.

6.184. NOVA VOLUME-ATTACH

```
usage: nova volume-attach <server> <volume> [<device>]
```

Attach a volume to a server.

Positional arguments

<server>

Name or ID of server.

<volume>

ID of the volume to attach.

<device>

Name of the device e.g. /dev/vdb. Use "auto" for autoassign (if supported). Libvirt driver will use default device name.

6.185. NOVA VOLUME-ATTACHMENTS

```
usage: nova volume-attachments <server>
```

List all the volumes attached to a server.

Positional arguments

<server>

Name or ID of server.

6.186. NOVA VOLUME-DETACH

```
usage: nova volume-detach <server> <volume>
```

Detach a volume from a server.

Positional arguments

<server>

Name or ID of server.

<volume>

ID of the volume to detach.

6.187. NOVA VOLUME-UPDATE

```
usage: nova volume-update <server> <attachment> <volume>
```

Update volume attachment.

Positional arguments

<server>

Name or ID of server.

<attachment>

Attachment ID of the volume.

<volume>

ID of the volume to attach.

6.188. NOVA X509-CREATE-CERT

```
usage: nova x509-create-cert [<private-key-filename>] [<x509-cert-filename>]
```

Create x509 cert for a user in tenant.

Positional arguments

<private-key-filename>

Filename for the private key. [Default: pk.pem]

<x509-cert-filename>

Filename for the X.509 certificate. [Default: cert.pem]

6.189. NOVA X509-GET-ROOT-CERT

```
usage: nova x509-get-root-cert [<filename>]
```

Fetch the x509 root cert.

Positional arguments

<filename>

Filename to write the x509 root cert.

CHAPTER 7. IDENTITY SERVICE COMMAND-LINE CLIENT

Warning

The keystone CLI is deprecated in favor of `python-openstackclient`. For more information on `python-openstackclient`, please see [Section 3.3, “Subcommands”](#). For a Python library, continue using `python-keystoneclient`.

The **keystone** client is the command-line interface (CLI) for the Identity service API and its extensions. This chapter documents **keystone** version **2.3.1**.

For help on a specific **keystone** command, enter:

```
$ keystone help COMMAND
```

7.1. KEYSTONE USAGE

```
usage: keystone [--version] [--debug] [--os-username <auth-user-name>]
               [--os-password <auth-password>] [--os-tenant-name <auth-tenant-name>]
               [--os-tenant-id <tenant-id>] [--os-auth-url <auth-url>] [--os-region-
               name <region-name>] [--os-identity-api-version <identity-api-version>]
               [--os-token <service-token>] [--os-endpoint <service-endpoint>] [--os-
               cache] [--force-new-token] [--stale-duration <seconds>] [--insecure]
               [--os-cacert <ca-certificate>] [--os-cert <certificate>] [--os-key
               <key>] [--timeout <seconds>] <subcommand> ...
```

Subcommands

catalog

List service catalog, possibly filtered by service.

ec2-credentials-create

Create EC2-compatible credentials for user per tenant.

ec2-credentials-delete

Delete EC2-compatible credentials.

ec2-credentials-get

Display EC2-compatible credentials.

ec2-credentials-list

List EC2-compatible credentials for a user.

endpoint-create

Create a new endpoint associated with a service.

endpoint-delete

Delete a service endpoint.

endpoint-get

Find endpoint filtered by a specific attribute or service type.

endpoint-list

List configured service endpoints.

password-update

Update own password.

role-create

Create new role.

role-delete

Delete role.

role-get

Display role details.

role-list

List all roles.

service-create

Add service to Service Catalog.

service-delete

Delete service from Service Catalog.

service-get

Display service from Service Catalog.

service-list

List all services in Service Catalog.

tenant-create

Create new tenant.

tenant-delete

Delete tenant.

tenant-get

Display tenant details.

tenant-list

List all tenants.

tenant-update

Update tenant name, description, enabled status.

token-get

Display the current user token.

user-create

Create new user.

user-delete

Delete user.

user-get

Display user details.

user-list

List users.

user-password-update

Update user password.

user-role-add

Add role to user.

user-role-list

List roles granted to a user.

user-role-remove

Remove role from user.

user-update

Update user's name, email, and enabled status.

discover

Discover Keystone servers, supported API versions and extensions.

bootstrap

Grants a new role to a new user on a new tenant, after creating each.

bash-completion

Prints all of the commands and options to stdout.

help

Display help about this program or one of its subcommands.

7.2. KEYSTONE OPTIONAL ARGUMENTS

--version

Shows the client version and exits.

--debug

Prints debugging output onto the console, this includes the curl request and response calls. Helpful for debugging and understanding the API calls.

--os-username <auth-user-name>

Name used for authentication with the OpenStack Identity service. Defaults to **env[OS_USERNAME]**.

--os-password <auth-password>

Password used for authentication with the OpenStack Identity service. Defaults to **env[OS_PASSWORD]**.

--os-tenant-name <auth-tenant-name>

Tenant to request authorization on. Defaults to **env[OS_TENANT_NAME]**.

--os-tenant-id <tenant-id>

Tenant to request authorization on. Defaults to **env[OS_TENANT_ID]**.

--os-auth-url <auth-url>

Specify the Identity endpoint to use for authentication. Defaults to **env[OS_AUTH_URL]**.

--os-region-name <region-name>

Specify the region to use. Defaults to **env[OS_REGION_NAME]**.

--os-identity-api-version <identity-api-version>

Specify Identity API version to use. Defaults to **env[OS_IDENTITY_API_VERSION]** or 2.0.

--os-token <service-token>

Specify an existing token to use instead of retrieving one via authentication (e.g. with username & password). Defaults to **env[OS_SERVICE_TOKEN]**.

--os-endpoint <service-endpoint>

Specify an endpoint to use instead of retrieving one from the service catalog (via authentication). Defaults to **env[OS_SERVICE_ENDPOINT]**.

--os-cache

Use the auth token cache. Defaults to **env[OS_CACHE]**.

--force-new-token

If the keyring is available and in use, token will always be stored and fetched from the keyring until the token has expired. Use this option to request a new token and replace the existing one in the keyring.

--stale-duration <seconds>

Stale duration (in seconds) used to determine whether a token has expired when retrieving it from keyring. This is useful in mitigating process or network delays. Default is 30 seconds.

--insecure

Explicitly allow client to perform "insecure" TLS (https) requests. The server's certificate will not be verified against any certificate authorities. This option should be used with caution.

--os-cacert <ca-certificate>

Specify a CA bundle file to use in verifying a TLS (https) server certificate. Defaults to `env[OS_CACERT]`.

--os-cert <certificate>

Defaults to `env[OS_CERT]`.

--os-key <key>

Defaults to `env[OS_KEY]`.

--timeout <seconds>

Set request timeout (in seconds).

7.3. KEYSTONE BOOTSTRAP

```
usage: keystone bootstrap [--user-name <user-name>] --pass <password>
      [--role-name <role-name>] [--tenant-name <tenant-name>]
```

Grants a new role to a new user on a new tenant, after creating each.

Arguments

--user-name <user-name>

The name of the user to be created (default="admin").

--pass <password>

The password for the new user.

--role-name <role-name>

The name of the role to be created and granted to the user (default="admin").

--tenant-name <tenant-name>

The name of the tenant to be created (default="admin").

7.4. KEYSTONE CATALOG

```
usage: keystone catalog [--service <service-type>]
```

List service catalog, possibly filtered by service.

Arguments

--service <service-type>

Service type to return.

7.5. KEYSTONE DISCOVER

```
usage: keystone discover
```

Discover Keystone servers, supported API versions and extensions.

7.6. KEYSTONE EC2-CREDENTIALS-CREATE

```
usage: keystone ec2-credentials-create [--user-id <user-id>] [--tenant-id <tenant-id>]
```

Create EC2-compatible credentials for user per tenant.

Arguments

--user-id <user-id>

User ID for which to create credentials. If not specified, the authenticated user will be used.

--tenant-id <tenant-id>

Tenant ID for which to create credentials. If not specified, the authenticated tenant ID will be used.

7.7. KEYSTONE EC2-CREDENTIALS-DELETE


```
usage: keystone ec2-credentials-delete [--user-id <user-id>] --access
<access-key>
```

Delete EC2-compatible credentials.

Arguments

--user-id <user-id>

User ID.

--access <access-key>

Access Key.

7.8. KEYSTONE EC2-CREDENTIALS-GET

```
usage: keystone ec2-credentials-get [--user-id <user-id>] --access
<access-key>
```

Display EC2-compatible credentials.

Arguments

--user-id <user-id>

User ID.

--access <access-key>

Access Key.

7.9. KEYSTONE EC2-CREDENTIALS-LIST

```
usage: keystone ec2-credentials-list [--user-id <user-id>]
```

List EC2-compatible credentials for a user.

Arguments

--user-id <user-id>

User ID.

7.10. KEYSTONE ENDPOINT CREATE

7.10. KEYSTONE ENDPOINT-CREATE

```
usage: keystone endpoint-create [--region <endpoint-region>] --service
<service> --publicurl <public-url> [--adminurl <admin-url>] [--
internalurl <internal-url>]
```

Create a new endpoint associated with a service.

Arguments

--region <endpoint-region>

Endpoint region.

--service <service>, --service-id <service>, --service_id <service>

Name or ID of service associated with endpoint.

--publicurl <public-url>

Public URL endpoint.

--adminurl <admin-url>

Admin URL endpoint.

--internalurl <internal-url>

Internal URL endpoint.

7.11. KEYSTONE ENDPOINT-DELETE

```
usage: keystone endpoint-delete <endpoint-id>
```

Delete a service endpoint.

Arguments

<endpoint-id>

ID of endpoint to delete.

7.12. KEYSTONE ENDPOINT-GET

```
usage: keystone endpoint-get --service <service-type> [--endpoint-type
<endpoint-type>] [--attr <service-attribute>] [--value <value>]
```

■

Find endpoint filtered by a specific attribute or service type.

Arguments

--service <service-type>

Service type to select.

--endpoint-type <endpoint-type>

Endpoint type to select.

--attr <service-attribute>

Service attribute to match for selection.

--value <value>

Value of attribute to match.

7.13. KEYSTONE ENDPOINT-LIST

usage: keystone endpoint-list

List configured service endpoints.

7.14. KEYSTONE PASSWORD-UPDATE

usage: keystone password-update [--current-password <current-password>]
 [--new-password <new-password>]

Update own password.

Arguments

--current-password <current-password>

Current password, Defaults to the password as set by --os-password or **env[OS_PASSWORD]**.

--new-password <new-password>

Desired new password.

7.15. KEYSTONE ROLE-CREATE

```
usage: keystone role-create --name <role-name>
```

Create new role.

Arguments

--name <role-name>

Name of new role.

7.16. KEYSTONE ROLE-DELETE

```
usage: keystone role-delete <role>
```

Delete role.

Arguments

<role>

Name or ID of role to delete.

7.17. KEYSTONE ROLE-GET

```
usage: keystone role-get <role>
```

Display role details.

Arguments

<role>

Name or ID of role to display.

7.18. KEYSTONE ROLE-LIST

```
usage: keystone role-list
```

List all roles.

7.19. KEYSTONE SERVICE-CREATE

7.19. KEYSTONE SERVICE-CREATE

```
usage: keystone service-create --type <type> [--name <name>] [--description <service-description>]
```

Add service to Service Catalog.

Arguments

--type <type>

Service type (one of: identity, compute, network, image, object-store, or other service identifier string).

--name <name>

Name of new service (must be unique).

--description <service-description>

Description of service.

7.20. KEYSTONE SERVICE-DELETE

```
usage: keystone service-delete <service>
```

Delete service from Service Catalog.

Arguments

<service>

Name or ID of service to delete.

7.21. KEYSTONE SERVICE-GET

```
usage: keystone service-get <service>
```

Display service from Service Catalog.

Arguments

<service>

Name or ID of service to display.

7.22. KEYSTONE SERVICE-LIST

```
usage: keystone service-list
```

List all services in Service Catalog.

7.23. KEYSTONE TENANT-CREATE

```
usage: keystone tenant-create --name <tenant-name> [--description  
<tenant-description>] [--enabled <true|false>]
```

Create new tenant.

Arguments

--name <tenant-name>

New tenant name (must be unique).

--description <tenant-description>

Description of new tenant. Default is none.

--enabled <true|false>

Initial tenant enabled status. Default is true.

7.24. KEYSTONE TENANT-DELETE

```
usage: keystone tenant-delete <tenant>
```

Delete tenant.

Arguments

<tenant>

Name or ID of tenant to delete.

7.25. KEYSTONE TENANT-GET

```
usage: keystone tenant-get <tenant>
```

Display tenant details.

Arguments

<tenant>

Name or ID of tenant to display.

7.26. KEYSTONE TENANT-LIST

```
usage: keystone tenant-list
```

List all tenants.

7.27. KEYSTONE TENANT-UPDATE

```
usage: keystone tenant-update [--name <tenant_name>] [--description
<tenant-description>] [--enabled <true|false>] <tenant>
```

Update tenant name, description, enabled status.

Arguments

--name <tenant_name>

Desired new name of tenant.

--description <tenant-description>

Desired new description of tenant.

--enabled <true|false>

Enable or disable tenant.

<tenant>

Name or ID of tenant to update.

7.28. KEYSTONE TOKEN-GET

```
usage: keystone token-get [--wrap <integer>]
```

Display the current user token.

Arguments

--wrap <integer>

Wrap PKI tokens to a specified length, or 0 to disable.

7.29. KEYSTONE USER-CREATE

```
usage: keystone user-create --name <user-name> [--tenant <tenant>] [--pass [<pass>]] [--email <email>] [--enabled <true|false>]
```

Create new user.

Arguments

--name <user-name>

New user name (must be unique).

--tenant <tenant>, --tenant-id <tenant>

New user default tenant.

--pass [<pass>]

New user password; required for some auth backends.

--email <email>

New user email address.

--enabled <true|false>

Initial user enabled status. Default is true.

7.30. KEYSTONE USER-DELETE

```
usage: keystone user-delete <user>
```

Delete user.

Arguments

<user>

Name or ID of user to delete.

7.31. KEYSTONE USER-GET

```
usage: keystone user-get <user>
```

Display user details.

Arguments

<user>

Name or ID of user to display.

7.32. KEYSTONE USER-LIST

```
usage: keystone user-list [--tenant <tenant>]
```

List users.

Arguments

--tenant <tenant>, --tenant-id <tenant>

Tenant; lists all users if not specified.

7.33. KEYSTONE USER-PASSWORD-UPDATE

```
usage: keystone user-password-update [--pass <password>] <user>
```

Update user password.

Arguments

--pass <password>

Desired new password.

<user>

Name or ID of user to update password.

7.34. KEYSTONE USER-ROLE-ADD

```
usage: keystone user-role-add --user <user> --role <role> [--tenant <tenant>]
```

Add role to user.

Arguments

--user <user>, --user-id <user>, --user_id <user>

Name or ID of user.

--role <role>, --role-id <role>, --role_id <role>

Name or ID of role.

--tenant <tenant>, --tenant-id <tenant>

Name or ID of tenant.

7.35. KEYSTONE USER-ROLE-LIST

```
usage: keystone user-role-list [--user <user>] [--tenant <tenant>]
```

List roles granted to a user.

Arguments

--user <user>, --user-id <user>

List roles granted to specified user.

--tenant <tenant>, --tenant-id <tenant>

List only roles granted on specified tenant.

7.36. KEYSTONE USER-ROLE-REMOVE

```
usage: keystone user-role-remove --user <user> --role <role> [--tenant <tenant>]
```

Remove role from user.

Arguments

--user <user>, --user-id <user>, --user_id <user>

Name or ID of user.

--role <role>, --role-id <role>, --role_id <role>

Name or ID of role.

--tenant <tenant>, --tenant-id <tenant>

Name or ID of tenant.

7.37. KEYSTONE USER-UPDATE

```
usage: keystone user-update [--name <user-name>] [--email <email>] [--  
enabled <true|false>] <user>
```

Update user's name, email, and enabled status.

Arguments

--name <user-name>

Desired new user name.

--email <email>

Desired new email address.

--enabled <true|false>

Enable or disable user.

<user>

Name or ID of user to update.

CHAPTER 8. IMAGE SERVICE COMMAND-LINE CLIENT

The **glance** client is the command-line interface (CLI) for the Image service API and its extensions. This chapter documents **glance** version **2.0.0**.

For help on a specific **glance** command, enter:

```
$ glance help COMMAND
```

8.1. GLANCE USAGE

```
usage: glance [--version] [-d] [-v] [--get-schema] [--no-ssl-
compression] [-f] [--os-image-url OS_IMAGE_URL] [--os-image-api-version
OS_IMAGE_API_VERSION] [--profile HMAC_KEY] [--insecure] [--os-cacert
<ca-certificate>] [--os-cert <certificate>] [--os-key <key>] [--timeout
<seconds>] [--os-auth-url OS_AUTH_URL] [--os-domain-id OS_DOMAIN_ID] [-
os-domain-name OS_DOMAIN_NAME] [--os-project-id OS_PROJECT_ID] [--os-
project-name OS_PROJECT_NAME] [--os-project-domain-id
OS_PROJECT_DOMAIN_ID] [--os-project-domain-name OS_PROJECT_DOMAIN_NAME]
[--os-trust-id OS_TRUST_ID] [--os-user-id OS_USER_ID] [--os-username
OS_USERNAME] [--os-user-domain-id OS_USER_DOMAIN_ID] [--os-user-domain-
name OS_USER_DOMAIN_NAME] [--os-password OS_PASSWORD] [--key-file
OS_KEY] [--ca-file OS_CACERT] [--cert-file OS_CERT] [--os-tenant-id
OS_TENANT_ID] [--os-tenant-name OS_TENANT_NAME] [--os-region-name
OS_REGION_NAME] [--os-auth-token OS_AUTH_TOKEN] [--os-service-type
OS_SERVICE_TYPE] [--os-endpoint-type OS_ENDPOINT_TYPE] <subcommand> ...
```

8.2. GLANCE OPTIONAL ARGUMENTS

--version

show program's version number and exit

-d, --debug

Defaults to **env[GLANCECLIENT_DEBUG]**.

-v, --verbose

Print more verbose output.

--get-schema

Ignores cached copy and forces retrieval of schema that generates portions of the help text. Ignored with API version 1.

--no-ssl-compression

DEPRECATED! This option is deprecated and not used anymore. SSL compression should be disabled by default by the system SSL library.

-f, --force

Prevent select actions from requesting user confirmation.

--os-image-url OS_IMAGE_URL

Defaults to `env[OS_IMAGE_URL]`. If the provided image url contains a version number and `--os-image-api-version` is omitted the version of the URL will be picked as the image api version to use.`

--os-image-api-version OS_IMAGE_API_VERSION

Defaults to `env[OS_IMAGE_API_VERSION]` or 2.

--profile HMAC_KEY

HMAC key to use for encrypting context data for performance profiling of operation. This key should be the value of HMAC key configured in osprofiler middleware in glance, it is specified in paste configuration file at `/etc/glance/api-paste.ini` and `/etc/glance/registry-paste.ini`. Without key the profiling will not be triggered even if osprofiler is enabled on server side.

--insecure

Explicitly allow client to perform "insecure" TLS (https) requests. The server's certificate will not be verified against any certificate authorities. This option should be used with caution.

--os-cacert <ca-certificate>

Specify a CA bundle file to use in verifying a TLS (https) server certificate. Defaults to `env[OS_CACERT]`.

--os-cert <certificate>

Defaults to `env[OS_CERT]`.

--os-key <key>

Defaults to `env[OS_KEY]`.

--timeout <seconds>

Set request timeout (in seconds).

--os-auth-url OS_AUTH_URL

Authentication URL

--os-domain-id OS_DOMAIN_ID

Domain ID to scope to

--os-domain-name OS_DOMAIN_NAME

Domain name to scope to

--os-project-id OS_PROJECT_ID

Project ID to scope to

--os-project-name OS_PROJECT_NAME

Project name to scope to

--os-project-domain-id OS_PROJECT_DOMAIN_ID

Domain ID containing project

--os-project-domain-name OS_PROJECT_DOMAIN_NAME

Domain name containing project

--os-trust-id OS_TRUST_ID

Trust ID

--os-user-id OS_USER_ID

User ID

--os-username OS_USERNAME, --os-user_name OS_USERNAME

Username

--os-user-domain-id OS_USER_DOMAIN_ID

User's domain id

--os-user-domain-name OS_USER_DOMAIN_NAME

User's domain name

--os-password OS_PASSWORD

User's password

--key-file OS_KEY

DEPRECATED! Use --os-key.

--ca-file OS_CACERT

DEPRECATED! Use --os-cacert.

--cert-file OS_CERT

DEPRECATED! Use --os-cert.

--os-tenant-id OS_TENANT_ID

Defaults to `env[OS_TENANT_ID]`.

--os-tenant-name OS_TENANT_NAME

Defaults to `env[OS_TENANT_NAME]`.

--os-region-name OS_REGION_NAME

Defaults to `env[OS_REGION_NAME]`.

--os-auth-token OS_AUTH_TOKEN

Defaults to `env[OS_AUTH_TOKEN]`.

--os-service-type OS_SERVICE_TYPE

Defaults to `env[OS_SERVICE_TYPE]`.

--os-endpoint-type OS_ENDPOINT_TYPE

Defaults to `env[OS_ENDPOINT_TYPE]`.

8.3. IMAGE SERVICE API V1 COMMANDS

8.3.1. glance image-create (v1)

```
usage: glance --os-image-api-version 1 image-create [--id <IMAGE_ID>]
[--name <NAME>] [--store <STORE>] [--disk-format <DISK_FORMAT>] [--
container-format <CONTAINER_FORMAT>] [--owner <TENANT_ID>] [--size
<SIZE>] [--min-disk <DISK_GB>] [--min-ram <DISK_RAM>] [--location
```

```
<IMAGE_URL>] [--file <FILE>] [--checksum <CHECKSUM>] [--copy-from  
<IMAGE_URL>] [--is-public {True,False}] [--is-protected {True,False}]  
[--property <key=value>] [--human-readable] [--progress]
```

Create a new image.

Optional arguments

--id <IMAGE_ID>

ID of image to reserve.

--name <NAME>

Name of image.

--store <STORE>

Store to upload image to.

--disk-format <DISK_FORMAT>

Disk format of image. Acceptable formats: ami, ari, aki, vhd, vmdk, raw, qcow2, vdi, and iso.

--container-format <CONTAINER_FORMAT>

Container format of image. Acceptable formats: ami, ari, aki, bare, and ovf.

--owner <TENANT_ID>

Tenant who should own image.

--size <SIZE>

Size of image data (in bytes). Only used with '--location' and '--copy_from'.

--min-disk <DISK_GB>

Minimum size of disk needed to boot image (in gigabytes).

--min-ram <DISK_RAM>

Minimum amount of ram needed to boot image (in megabytes).

--location <IMAGE_URL>

URL where the data for this image already resides. For example, if the image data is stored in swift, you could specify `--location http://tenant1/QAaccountkey@auth.vultr.com/containers/abi`

in SWIFT, you could specify `swift+http://tenant%3Aaccount:key@auth_uri/v2.0/container/obj`.
(Note: '%3A' is ':' URL encoded.)

--file <FILE>

Local file that contains disk image to be uploaded during creation. Alternatively, images can be passed to the client via stdin.

--checksum <CHECKSUM>

Hash of image data used Glance can use for verification. Provide a md5 checksum here.

--copy-from <IMAGE_URL>

Similar to '--location' in usage, but this indicates that the Glance server should immediately copy the data and store it in its configured image store.

--is-public {True,False}

Make image accessible to the public.

--is-protected {True,False}

Prevent image from being deleted.

--property <key=value>

Arbitrary property to associate with image. May be used multiple times.

--human-readable

Print image size in a human-friendly format.

--progress

Show upload progress bar.

8.3.2. glance image-delete (v1)

```
usage: glance --os-image-api-version 1 image-delete <IMAGE> [<IMAGE>
...]
```

Delete specified image(s).

Positional arguments

<IMAGE>

Name or ID of image(s) to delete.

8.3.3. glance image-download (v1)

```
usage: glance --os-image-api-version 1 image-download [--file <FILE>]
       [--progress] <IMAGE>
```

Download a specific image.

Positional arguments

<IMAGE>

Name or ID of image to download.

Optional arguments

--file <FILE>

Local file to save downloaded image data to. If this is not specified and there is no redirection the image data will be not be saved.

--progress

Show download progress bar.

8.3.4. glance image-list (v1)

```
usage: glance --os-image-api-version 1 image-list [--name <NAME>] [--status <STATUS>]
       [--changes-since <CHANGES_SINCE>] [--container-format <CONTAINER_FORMAT>]
       [--disk-format <DISK_FORMAT>] [--size-min <SIZE>] [--size-max <SIZE>]
       [--property-filter <KEY=VALUE>] [--page-size <SIZE>] [--human-readable]
       [--sort-key {name,status,container_format,disk_format,size,id,created_at,updated_at}]
       [--sort-dir {asc,desc}] [--is-public {True,False}] [--owner <TENANT_ID>]
       [--all-tenants]
```

List images you can access.

Optional arguments

--name <NAME>

Filter images to those that have this name.

--status <STATUS>

Filter images to those that have this status.

--changes-since <CHANGES_SINCE>

Filter images to those that changed since the given time, which will include the deleted images.

--container-format <CONTAINER_FORMAT>

Filter images to those that have this container format. Acceptable formats: ami, ari, aki, bare, and ovf.

--disk-format <DISK_FORMAT>

Filter images to those that have this disk format. Acceptable formats: ami, ari, aki, vhd, vmdk, raw, qcow2, vdi, and iso.

--size-min <SIZE>

Filter images to those with a size greater than this.

--size-max <SIZE>

Filter images to those with a size less than this.

--property-filter <KEY=VALUE>

Filter images by a user-defined image property.

--page-size <SIZE>

Number of images to request in each paginated request.

--human-readable

Print image size in a human-friendly format.

--sort-key

{name,status,container_format,disk_format,size,id,created_at,updated_at}

Sort image list by specified field.

--sort-dir {asc,desc}

Sort image list in specified direction.

--is-public {True,False}

Allows the user to select a listing of public or non public images.

--owner <TENANT_ID>

Display only images owned by this tenant id. Filtering occurs on the client side so may be inefficient. This option is mainly intended for admin use. Use an empty string (") to list images with no owner. Note: This option overrides the --is-public argument if present. Note: the v2 API supports more efficient server-side owner based filtering.

--all-tenants

Allows the admin user to list all images irrespective of the image's owner or is_public value.

8.3.5. glance image-show (v1)

```
usage: glance --os-image-api-version 1 image-show [--human-readable] [-  
-max-column-width <integer>] <IMAGE>
```

Describe a specific image.

Positional arguments

<IMAGE>

Name or ID of image to describe.

Optional arguments

--human-readable

Print image size in a human-friendly format.

--max-column-width <integer>

The max column width of the printed table.

8.3.6. glance image-update (v1)

```
usage: glance --os-image-api-version 1 image-update [--name <NAME>] [--  
disk-format <DISK_FORMAT>] [--container-format <CONTAINER_FORMAT>] [--  
owner <TENANT_ID>] [--size <SIZE>] [--min-disk <DISK_GB>] [--min-ram  
<DISK_RAM>] [--location <IMAGE_URL>] [--file <FILE>] [--checksum  
<CHECKSUM>] [--copy-from <IMAGE_URL>] [--is-public {True,False}] [--is-  
protected {True,False}] [--property <key=value>] [--purge-props] [--  
human-readable] [--progress] <IMAGE>
```

Update a specific image.

Positional arguments

<IMAGE>

Name or ID of image to modify.

Optional arguments

--name <NAME>

Name of image.

--disk-format <DISK_FORMAT>

Disk format of image. Acceptable formats: ami, ari, aki, vhd, vmdk, raw, qcow2, vdi, and iso.

--container-format <CONTAINER_FORMAT>

Container format of image. Acceptable formats: ami, ari, aki, bare, and ovf.

--owner <TENANT_ID>

Tenant who should own image.

--size <SIZE>

Size of image data (in bytes).

--min-disk <DISK_GB>

Minimum size of disk needed to boot image (in gigabytes).

--min-ram <DISK_RAM>

Minimum amount of ram needed to boot image (in megabytes).

--location <IMAGE_URL>

URL where the data for this image already resides. For example, if the image data is stored in swift, you could specify 'swift+http://tenant%3Aaccount:key@auth_url/v2.0/container/obj'. (Note: '%3A' is ':' URL encoded.) This option only works for images in 'queued' status.

--file <FILE>

Local file that contains disk image to be uploaded during update. Alternatively, images can be passed to the client via stdin.

--checksum <CHECKSUM>

Hash of image data used Glance can use for verification.

--copy-from <IMAGE_URL>

Similar to '--location' in usage, but this indicates that the Glance server should immediately copy the data and store it in its configured image store. This option only works for images in 'queued' status.

--is-public {True,False}

Make image accessible to the public.

--is-protected {True,False}

Prevent image from being deleted.

--property <key=value>

Arbitrary property to associate with image. May be used multiple times.

--purge-props

If this flag is present, delete all image properties not explicitly set in the update request. Otherwise, those properties not referenced are preserved.

--human-readable

Print image size in a human-friendly format.

--progress

Show upload progress bar.

8.3.7. glance member-create (v1)

```
usage: glance --os-image-api-version 1 member-create [--can-share]
      <IMAGE> <TENANT_ID>
```

Share a specific image with a tenant.

Positional arguments

<IMAGE>

Image to add member to.

<TENANT_ID>

Tenant to add as member.

Optional arguments

--can-share

Allow the specified tenant to share this image.

8.3.8. glance member-delete (v1)

```
usage: glance --os-image-api-version 1 member-delete <IMAGE>
<TENANT_ID>
```

Remove a shared image from a tenant.

Positional arguments

<IMAGE>

Image from which to remove member.

<TENANT_ID>

Tenant to remove as member.

8.3.9. glance member-list (v1)

```
usage: glance --os-image-api-version 1 member-list [--image-id
<IMAGE_ID>] [--tenant-id <TENANT_ID>]
```

Describe sharing permissions by image or tenant.

Optional arguments

--image-id <IMAGE_ID>

Filter results by an image ID.

--tenant-id <TENANT_ID>

Filter results by a tenant ID.

8.4. IMAGE SERVICE API V2 COMMANDS

You can select an API version to use by adding the **--os-image-api-version** parameter or by setting the corresponding environment variable:

```
$ export OS_IMAGE_API_VERSION=2
```

8.4.1. glance explain (v2)

```
usage: glance --os-image-api-version 2 explain <MODEL>
```

Describe a specific model.

Positional arguments

<MODEL>

Name of model to describe.

8.4.2. glance image-create (v2)

```
usage: glance --os-image-api-version 2 image-create [--architecture
<ARCHITECTURE>] [--protected [True|False]] [--name <NAME>] [--instance-
uuid <INSTANCE_UUID>] [--min-disk <MIN_DISK>] [--visibility
<VISIBILITY>] [--kernel-id <KERNEL_ID>] [--tags <TAGS> [<TAGS> ...]] [-
os-version <OS_VERSION>] [--disk-format <DISK_FORMAT>] [--os-distro
<OS_DISTRO>] [--id <ID>] [--owner <OWNER>] [--ramdisk-id <RAMDISK_ID>]
[--min-ram <MIN_RAM>] [--container-format <CONTAINER_FORMAT>] [--
property <key=value>] [--file <FILE>] [--progress]
```

Create a new image.

Optional arguments

--architecture <ARCHITECTURE>

Operating system architecture as specified in <http://docs.openstack.org/trunk/openstack-compute/admin/content/adding-images.html>

--protected [True|False]

If true, image will not be deletable.

--name <NAME>

Descriptive name for the image

--instance-uuid <INSTANCE_UUID>

Metadata which can be used to record which instance this image is associated with.
(Informational only, does not create an instance snapshot.)

--min-disk <MIN_DISK>

Amount of disk space (in GB) required to boot image.

--visibility <VISIBILITY>

Scope of image accessibility Valid values: public, private

--kernel-id <KERNEL_ID>

ID of image stored in Glance that should be used as the kernel when booting an AMI-style image.

--tags <TAGS> [<TAGS> ...]

List of strings related to the image

--os-version <OS_VERSION>

Operating system version as specified by the distributor

--disk-format <DISK_FORMAT>

Format of the disk Valid values: ami, ari, aki, vhd, vmdk, raw, qcow2, vdi, iso

--os-distro <OS_DISTRO>

Common name of operating system distribution as specified in
<http://docs.openstack.org/trunk/openstack-compute/admin/content/adding-images.html>

--id <ID>

An identifier for the image

--owner <OWNER>

Owner of the image

--ramdisk-id <RAMDISK_ID>

ID of image stored in Glance that should be used as the ramdisk when booting an AMI-style image.

--min-ram <MIN_RAM>

Amount of ram (in MB) required to boot image.

--container-format <CONTAINER_FORMAT>

Format of the container Valid values: ami, ari, aki, bare, ovf, ova, docker

--property <key=value>

Arbitrary property to associate with image. May be used multiple times.

--file <FILE>

Local file that contains disk image to be uploaded during creation. Alternatively, the image data can be passed to the client via stdin.

--progress

Show upload progress bar.

8.4.3. glance image-deactivate (v2)

```
usage: glance --os-image-api-version 2 image-deactivate <IMAGE_ID>
```

Deactivate specified image.

Positional arguments

<IMAGE_ID>

ID of image to deactivate.

8.4.4. glance image-delete (v2)

```
usage: glance --os-image-api-version 2 image-delete <IMAGE_ID>
[<IMAGE_ID> ...]
```

Delete specified image.

Positional arguments

<IMAGE_ID>

ID of image(s) to delete.

8.4.5. glance image-download (v2)

■

```
usage: glance --os-image-api-version 2 image-download [--file <FILE>]
[--progress] <IMAGE_ID>
```

Download a specific image.

Positional arguments

<IMAGE_ID>

ID of image to download.

Optional arguments

--file <FILE>

Local file to save downloaded image data to. If this is not specified and there is no redirection the image data will be not be saved.

--progress

Show download progress bar.

8.4.6. glance image-list (v2)

```
usage: glance --os-image-api-version 2 image-list [--limit <LIMIT>] [--page-size <SIZE>]
[--visibility <VISIBILITY>] [--member-status <MEMBER_STATUS>] [--owner <OWNER>]
[--property-filter <KEY=VALUE>] [--checksum <CHECKSUM>] [--tag <TAG>] [--sort-key
{name,status,container_format,disk_format,size,id,created_at,updated_at
}] [--sort-dir {asc,desc}] [--sort <key>[:<direction>]]
```

List images you can access.

Optional arguments

--limit <LIMIT>

Maximum number of images to get.

--page-size <SIZE>

Number of images to request in each paginated request.

--visibility <VISIBILITY>

The visibility of the images to display.

--member-status <MEMBER_STATUS>

The status of images to display.

--owner <OWNER>

Display images owned by <OWNER>.

--property-filter <KEY=VALUE>

Filter images by a user-defined image property.

--checksum <CHECKSUM>

Displays images that match the checksum.

--tag <TAG>

Filter images by a user-defined tag.

--sort-key

{name,status,container_format,disk_format,size,id,created_at,updated_at}

Sort image list by specified fields. May be used multiple times.

--sort-dir {asc,desc}

Sort image list in specified directions.

--sort <key>[:<direction>]

Comma-separated list of sort keys and directions in the form of <key>[:<asc|desc>]. Valid keys: name, status, container_format, disk_format, size, id, created_at, updated_at. OPTIONAL.

8.4.7. glance image-reactivate (v2)

usage: glance --os-image-api-version 2 image-reactivate <IMAGE_ID>

Reactivate specified image.

Positional arguments

<IMAGE_ID>

ID of image to reactivate.

8.4.8. glance image-show (v2)

```
usage: glance --os-image-api-version 2 image-show [--human-readable] [-max-column-width <integer>] <IMAGE_ID>
```

Describe a specific image.

Positional arguments

<IMAGE_ID>

ID of image to describe.

Optional arguments

--human-readable

Print image size in a human-friendly format.

--max-column-width <integer>

The max column width of the printed table.

8.4.9. glance image-tag-delete (v2)

```
usage: glance --os-image-api-version 2 image-tag-delete <IMAGE_ID> <TAG_VALUE>
```

Delete the tag associated with the given image.

Positional arguments

<IMAGE_ID>

ID of the image from which to delete tag.

<TAG_VALUE>

Value of the tag.

8.4.10. glance image-tag-update (v2)

```
usage: glance --os-image-api-version 2 image-tag-update <IMAGE_ID> <TAG_VALUE>
```

Update an image with the given tag.

Positional arguments

<IMAGE_ID>

Image to be updated with the given tag.

<TAG_VALUE>

Value of the tag.

8.4.11. glance image-update (v2)

```
usage: glance --os-image-api-version 2 image-update [--architecture
<ARCHITECTURE>] [--protected [True|False]] [--name <NAME>] [--instance-
uuid <INSTANCE_UUID>] [--min-disk <MIN_DISK>] [--visibility
<VISIBILITY>] [--kernel-id <KERNEL_ID>] [--os-version <OS_VERSION>] [--
disk-format <DISK_FORMAT>] [--os-distro <OS_DISTRO>] [--owner <OWNER>]
[--ramdisk-id <RAMDISK_ID>] [--min-ram <MIN_RAM>] [--container-format
<CONTAINER_FORMAT>] [--property <key=value>] [--remove-property key]
<IMAGE_ID>
```

Update an existing image.

Positional arguments

<IMAGE_ID>

ID of image to update.

Optional arguments

--architecture <ARCHITECTURE>

Operating system architecture as specified in <http://docs.openstack.org/trunk/openstack-compute/admin/content/adding-images.html>

--protected [True|False]

If true, image will not be deletable.

--name <NAME>

Descriptive name for the image

--instance-uuid <INSTANCE_UUID>

Metadata which can be used to record which instance this image is associated with.
(Informational only, does not create an instance snapshot.)

--min-disk <MIN_DISK>

Amount of disk space (in GB) required to boot image.

--visibility <VISIBILITY>

Scope of image accessibility Valid values: public, private

--kernel-id <KERNEL_ID>

ID of image stored in Glance that should be used as the kernel when booting an AMI-style image.

--os-version <OS_VERSION>

Operating system version as specified by the distributor

--disk-format <DISK_FORMAT>

Format of the disk Valid values: ami, ari, aki, vhd, vmdk, raw, qcow2, vdi, iso

--os-distro <OS_DISTRO>

Common name of operating system distribution as specified in
<http://docs.openstack.org/trunk/openstack-compute/admin/content/adding-images.html>

--owner <OWNER>

Owner of the image

--ramdisk-id <RAMDISK_ID>

ID of image stored in Glance that should be used as the ramdisk when booting an AMI-style image.

--min-ram <MIN_RAM>

Amount of ram (in MB) required to boot image.

--container-format <CONTAINER_FORMAT>

Format of the container Valid values: ami, ari, aki, bare, ovf, ova, docker

--property <key=value>

Arbitrary property to associate with image. May be used multiple times.

--remove-property

key Name of arbitrary property to remove from the image.

8.4.12. glance image-upload (v2)

```
usage: glance --os-image-api-version 2 image-upload [--file <FILE>] [--size <IMAGE_SIZE>] [--progress] <IMAGE_ID>
```

Upload data for a specific image.

Positional arguments

<IMAGE_ID>

ID of image to upload data to.

Optional arguments

--file <FILE>

Local file that contains disk image to be uploaded. Alternatively, images can be passed to the client via stdin.

--size <IMAGE_SIZE>

Size in bytes of image to be uploaded. Default is to get size from provided data object but this is supported in case where size cannot be inferred.

--progress

Show upload progress bar.

8.4.13. glance location-add (v2)

```
usage: glance --os-image-api-version 2 location-add --url <URL> [--metadata <STRING>] <IMAGE_ID>
```

Add a location (and related metadata) to an image.

Positional arguments

<IMAGE_ID>

ID of image to which the location is to be added.

Optional arguments

--url <URL>

URL of location to add.

--metadata <STRING>

Metadata associated with the location. Must be a valid JSON object (default: {})

8.4.14. glance location-delete (v2)

```
usage: glance --os-image-api-version 2 location-delete --url <URL>
      <IMAGE_ID>
```

Remove locations (and related metadata) from an image.

Positional arguments

<IMAGE_ID>

ID of image whose locations are to be removed.

Optional arguments

--url <URL>

URL of location to remove. May be used multiple times.

8.4.15. glance location-update (v2)

```
usage: glance --os-image-api-version 2 location-update --url <URL> [--
      metadata <STRING>] <IMAGE_ID>
```

Update metadata of an image's location.

Positional arguments

<IMAGE_ID>

ID of image whose location is to be updated.

Optional arguments

--url <URL>

URL of location to update.

--metadata <STRING>

Metadata associated with the location. Must be a valid JSON object (default: {})

8.4.16. glance md-namespace-create (v2)

```
usage: glance --os-image-api-version 2 md-namespace-create <NAMESPACE>
<unavailable>
```

Create a new metadata definitions namespace.

Positional arguments

<NAMESPACE>

Name of the namespace.

<unavailable>

Please run with connection parameters set to retrieve the schema for generating help for this command

8.4.17. glance md-namespace-delete (v2)

```
usage: glance --os-image-api-version 2 md-namespace-delete <NAMESPACE>
```

Delete specified metadata definitions namespace with its contents.

Positional arguments

<NAMESPACE>

Name of namespace to delete.

8.4.18. glance md-namespace-import (v2)

```
usage: glance --os-image-api-version 2 md-namespace-import [--file
<FILEPATH>]
```

Import a metadata definitions namespace from file or standard input.

Optional arguments

--file <FILEPATH>

Path to file with namespace schema to import. Alternatively, namespaces schema can be passed to the client via stdin.

8.4.19. glance md-namespace-list (v2)

```
usage: glance --os-image-api-version 2 md-namespace-list [--resource-  
types <RESOURCE_TYPES>] [--visibility <VISIBILITY>] [--page-size  
<SIZE>]
```

List metadata definitions namespaces.

Optional arguments

--resource-types <RESOURCE_TYPES>

Resource type to filter namespaces.

--visibility <VISIBILITY>

Visibility parameter to filter namespaces.

--page-size <SIZE>

Number of namespaces to request in each paginated request.

8.4.20. glance md-namespace-objects-delete (v2)

```
usage: glance --os-image-api-version 2 md-namespace-objects-delete  
<NAMESPACE>
```

Delete all metadata definitions objects inside a specific namespace.

Positional arguments

<NAMESPACE>

Name of namespace.

8.4.21. glance md-namespace-properties-delete (v2)

```
usage: glance --os-image-api-version 2 md-namespace-properties-delete  
<NAMESPACE>
```

Delete all metadata definitions property inside a specific namespace.

Positional arguments

<NAMESPACE>

Name of namespace.

8.4.22. glance md-namespace-resource-type-list (v2)

```
usage: glance --os-image-api-version 2 md-namespace-resource-type-list
<NAMESPACE>
```

List resource types associated to specific namespace.

Positional arguments

<NAMESPACE>

Name of namespace.

8.4.23. glance md-namespace-show (v2)

```
usage: glance --os-image-api-version 2 md-namespace-show [--resource-
type <RESOURCE_TYPE>] [--max-column-width <integer>] <NAMESPACE>
```

Describe a specific metadata definitions namespace. Lists also the namespace properties, objects and resource type associations.

Positional arguments

<NAMESPACE>

Name of namespace to describe.

Optional arguments

--resource-type <RESOURCE_TYPE>

Applies prefix of given resource type associated to a namespace to all properties of a namespace.

--max-column-width <integer>

The max column width of the printed table.

8.4.24. glance md-namespace-tags-delete (v2)

```
usage: glance --os-image-api-version 2 md-namespace-tags-delete
<NAMESPACE>
```

Delete all metadata definitions tags inside a specific namespace.

Positional arguments

<NAMESPACE>

Name of namespace.

8.4.25. glance md-namespace-update (v2)

```
usage: glance --os-image-api-version 2 md-namespace-update <NAMESPACE>
<unavailable>
```

Update an existing metadata definitions namespace.

Positional arguments

<NAMESPACE>

Name of namespace to update.

<unavailable>

Please run with connection parameters set to retrieve the schema for generating help for this command

8.4.26. glance md-object-create (v2)

```
usage: glance --os-image-api-version 2 md-object-create --name <NAME> -
-schema <SCHEMA> <NAMESPACE>
```

Create a new metadata definitions object inside a namespace.

Positional arguments

<NAMESPACE>

Name of namespace the object will belong.

Optional arguments

--name <NAME>

Internal name of an object.

--schema <SCHEMA>

Valid JSON schema of an object.

8.4.27. glance md-object-delete (v2)

```
usage: glance --os-image-api-version 2 md-object-delete <NAMESPACE>
<OBJECT>
```

Delete a specific metadata definitions object inside a namespace.

Positional arguments

<NAMESPACE>

Name of namespace the object belongs.

<OBJECT>

Name of an object.

8.4.28. glance md-object-list (v2)

```
usage: glance --os-image-api-version 2 md-object-list <NAMESPACE>
```

List metadata definitions objects inside a specific namespace.

Positional arguments

<NAMESPACE>

Name of namespace.

8.4.29. glance md-object-property-show (v2)

```
usage: glance --os-image-api-version 2 md-object-property-show [--max-
column-width <integer>] <NAMESPACE> <OBJECT> <PROPERTY>
```

Describe a specific metadata definitions property inside an object.

Positional arguments

<NAMESPACE>

Name of namespace the object belongs.

<OBJECT>

Name of an object.

<PROPERTY>

Name of a property.

Optional arguments

--max-column-width <integer>

The max column width of the printed table.

8.4.30. glance md-object-show (v2)

```
usage: glance --os-image-api-version 2 md-object-show [--max-column-
width <integer>] <NAMESPACE> <OBJECT>
```

Describe a specific metadata definitions object inside a namespace.

Positional arguments**<NAMESPACE>**

Name of namespace the object belongs.

<OBJECT>

Name of an object.

Optional arguments

--max-column-width <integer>

The max column width of the printed table.

8.4.31. glance md-object-update (v2)

```
usage: glance --os-image-api-version 2 md-object-update [--name <NAME>]
[--schema <SCHEMA>] <NAMESPACE> <OBJECT>
```

Update metadata definitions object inside a namespace.

Positional arguments

<NAMESPACE>

Name of namespace the object belongs.

<OBJECT>

Name of an object.

Optional arguments

--name <NAME>

New name of an object.

--schema <SCHEMA>

Valid JSON schema of an object.

8.4.32. glance md-property-create (v2)

```
usage: glance --os-image-api-version 2 md-property-create --name <NAME>
      --title <TITLE> --schema <SCHEMA> <NAMESPACE>
```

Create a new metadata definitions property inside a namespace.

Positional arguments

<NAMESPACE>

Name of namespace the property will belong.

Optional arguments

--name <NAME>

Internal name of a property.

--title <TITLE>

Property name displayed to the user.

--schema <SCHEMA>

Valid JSON schema of a property.

8.4.33. glance md-property-delete (v2)

```
usage: glance --os-image-api-version 2 md-property-delete <NAMESPACE>
<PROPERTY>
```

Delete a specific metadata definitions property inside a namespace.

Positional arguments

<NAMESPACE>

Name of namespace the property belongs.

<PROPERTY>

Name of a property.

8.4.34. glance md-property-list (v2)

```
usage: glance --os-image-api-version 2 md-property-list <NAMESPACE>
```

List metadata definitions properties inside a specific namespace.

Positional arguments

<NAMESPACE>

Name of namespace.

8.4.35. glance md-property-show (v2)

```
usage: glance --os-image-api-version 2 md-property-show [--max-column-
width <integer>] <NAMESPACE> <PROPERTY>
```

Describe a specific metadata definitions property inside a namespace.

Positional arguments

<NAMESPACE>

Name of namespace the property belongs.

<PROPERTY>

Name of a property.

Optional arguments

--max-column-width <integer>

The max column width of the printed table.

8.4.36. glance md-property-update (v2)

```
usage: glance --os-image-api-version 2 md-property-update [--name
<NAME>] [--title <TITLE>] [--schema <SCHEMA>] <NAMESPACE> <PROPERTY>
```

Update metadata definitions property inside a namespace.

Positional arguments

<NAMESPACE>

Name of namespace the property belongs.

<PROPERTY>

Name of a property.

Optional arguments

--name <NAME>

New name of a property.

--title <TITLE>

Property name displayed to the user.

--schema <SCHEMA>

Valid JSON schema of a property.

8.4.37. glance md-resource-type-associate (v2)

```
usage: glance --os-image-api-version 2 md-resource-type-associate
<NAMESPACE> <unavailable>
```

Associate resource type with a metadata definitions namespace.

Positional arguments**<NAMESPACE>**

Name of namespace.

<unavailable>

Please run with connection parameters set to retrieve the schema for generating help for this command

8.4.38. glance md-resource-type-deassociate (v2)

```
usage: glance --os-image-api-version 2 md-resource-type-deassociate
<NAMESPACE> <RESOURCE_TYPE>
```

Deassociate resource type with a metadata definitions namespace.

Positional arguments**<NAMESPACE>**

Name of namespace.

<RESOURCE_TYPE>

Name of resource type.

8.4.39. glance md-resource-type-list (v2)

```
usage: glance --os-image-api-version 2 md-resource-type-list
```

List available resource type names.

8.4.40. glance md-tag-create (v2)

```
usage: glance --os-image-api-version 2 md-tag-create --name <NAME>
<NAMESPACE>
```

Add a new metadata definitions tag inside a namespace.

Positional arguments**<NAMESPACE>**

Name of the namespace the tag will belong to.

Optional arguments

--name <NAME>

The name of the new tag to add.

8.4.41. glance md-tag-create-multiple (v2)

```
usage: glance --os-image-api-version 2 md-tag-create-multiple --names
<NAMES> [--delim <DELIM>] <NAMESPACE>
```

Create new metadata definitions tags inside a namespace.

Positional arguments

<NAMESPACE>

Name of the namespace the tags will belong to.

Optional arguments

--names <NAMES>

A comma separated list of tag names.

--delim <DELIM>

The delimiter used to separate the names (if none is provided then the default is a comma).

8.4.42. glance md-tag-delete (v2)

```
usage: glance --os-image-api-version 2 md-tag-delete <NAMESPACE> <TAG>
```

Delete a specific metadata definitions tag inside a namespace.

Positional arguments

<NAMESPACE>

Name of the namespace to which the tag belongs.

<TAG>

Name of the tag.

8.4.43. glance md-tag-list (v2)

```
usage: glance --os-image-api-version 2 md-tag-list <NAMESPACE>
```

List metadata definitions tags inside a specific namespace.

Positional arguments

<NAMESPACE>

Name of namespace.

8.4.44. glance md-tag-show (v2)

```
usage: glance --os-image-api-version 2 md-tag-show <NAMESPACE> <TAG>
```

Describe a specific metadata definitions tag inside a namespace.

Positional arguments

<NAMESPACE>

Name of the namespace to which the tag belongs.

<TAG>

Name of the tag.

8.4.45. glance md-tag-update (v2)

```
usage: glance --os-image-api-version 2 md-tag-update --name <NAME>
<NAMESPACE> <TAG>
```

Rename a metadata definitions tag inside a namespace.

Positional arguments

<NAMESPACE>

Name of the namespace to which the tag belongs.

<TAG>

Name of the old tag.

Optional arguments

- -name <NAME>

New name of the new tag.

8.4.46. glance member-create (v2)

```
usage: glance --os-image-api-version 2 member-create <IMAGE_ID>
<MEMBER_ID>
```

Create member for a given image.

Positional arguments

<IMAGE_ID>

Image with which to create member.

<MEMBER_ID>

Tenant to add as member.

8.4.47. glance member-delete (v2)

```
usage: glance --os-image-api-version 2 member-delete <IMAGE_ID>
<MEMBER_ID>
```

Delete image member.

Positional arguments

<IMAGE_ID>

Image from which to remove member.

<MEMBER_ID>

Tenant to remove as member.

8.4.48. glance member-list (v2)

```
usage: glance --os-image-api-version 2 member-list --image-id
<IMAGE_ID>
```

-

Describe sharing permissions by image.

Optional arguments

--image-id <IMAGE_ID>

Image to display members of.

8.4.49. glance member-update (v2)

```
usage: glance --os-image-api-version 2 member-update <IMAGE_ID>
      <MEMBER_ID> <MEMBER_STATUS>
```

Update the status of a member for a given image.

Positional arguments

<IMAGE_ID>

Image from which to update member.

<MEMBER_ID>

Tenant to update.

<MEMBER_STATUS>

Updated status of member. Valid Values: accepted, rejected, pending

8.4.50. glance task-create (v2)

```
usage: glance --os-image-api-version 2 task-create [--type <TYPE>] [--
input <STRING>]
```

Create a new task.

Optional arguments

--type <TYPE>

Type of Task. Please refer to Glance schema or documentation to see which tasks are supported.

--input <STRING>

Parameters of the task to be launched

8.4.51. glance task-list (v2)

```
usage: glance --os-image-api-version 2 task-list [--sort-key
{id,type,status}] [--sort-dir {asc,desc}] [--page-size <SIZE>] [--type
<TYPE>] [--status <STATUS>]
```

List tasks you can access.

Optional arguments

--sort-key {id,type,status}

Sort task list by specified field.

--sort-dir {asc,desc}

Sort task list in specified direction.

--page-size <SIZE>

Number of tasks to request in each paginated request.

--type <TYPE>

Filter tasks to those that have this type.

--status <STATUS>

Filter tasks to those that have this status.

8.4.52. glance task-show (v2)

```
usage: glance --os-image-api-version 2 task-show <TASK_ID>
```

Describe a specific task.

Positional arguments

<TASK_ID>

ID of task to describe.

8.5. IMAGE SERVICE PROPERTY KEYS

The following keys, together with the components to which they are specific, can be used with the **property** option for both the **glance image-update** and **glance image-create** commands. For example:

```
$ glance image-update IMG-UUID --property architecture=x86_64
```



Note

Behavior set using image properties overrides behavior set using flavors. For more information, refer to the *Red Hat OpenStack Platform Cloud Admin Guide*.

Table 8.1. Property keys

Specific to	Key	Description	Supported values
All	architecture	The CPU architecture that must be supported by the hypervisor. For example, x86_64 , arm , or ppc64 . Run uname -m to get the architecture of a machine. We strongly recommend using the architecture data vocabulary defined by the libosinfo project for this purpose.	<ul style="list-style-type: none"> ✦ alpha—DEC 64-bit RISC ✦ armv7l—ARM Cortex-A7 MPCore ✦ cris—Ethernet, Token Ring, AXis—Code Reduced Instruction Set ✦ i686—Intel sixth-generation x86 (P6 micro architecture) ✦ ia64—Itanium ✦ lm32—Lattice Micro32 ✦ m68k—Motorola 68000 ✦ microblaze—Xilinx 32-bit FPGA (Big Endian) ✦ microblazeel—Xilinx 32-bit FPGA (Little Endian) ✦ mips—MIPS 32-bit RISC (Big Endian) ✦ mipsel—MIPS 32-bit RISC (Little Endian) ✦ mips64—MIPS 64-bit RISC (Big Endian)

Specific to	Key	Description	Supported values
			<ul style="list-style-type: none"> ✧ mips64el—MIPS 64-bit RISC (Little Endian) ✧ openrisc—OpenCores RISC ✧ parisc—HP Precision Architecture RISC ✧ parisc64—HP Precision Architecture 64-bit RISC ✧ ppc—PowerPC 32-bit ✧ ppc64—PowerPC 64-bit ✧ ppcemb—PowerPC (Embedded 32-bit) ✧ s390—IBM Enterprise Systems Architecture/390 ✧ s390x—S/390 64-bit ✧ sh4—SuperH SH-4 (Little Endian) ✧ sh4eb—SuperH SH-4 (Big Endian) ✧ sparc—Scalable Processor Architecture, 32-bit ✧ sparc64—Scalable Processor Architecture, 64-bit ✧ unicore32—Microprocessor Research and Development Center RISC Unicores32 ✧ x86_64—64-bit extension of IA-32 ✧ xtensa—Tensilica Xtensa configurable microprocessor core ✧ xtensaeb—Tensilica Xtensa configurable microprocessor core (Big Endian)
All	hypervisor_type	The hypervisor type.	xen , qemu , kvm , lxc , uml , vmware , or hyperv

Specific to	Key	Description	Supported values
All	instance_uuid	For snapshot images, this is the UUID of the server used to create this image.	Valid server UUID
All	kernel_id	The ID of an image stored in the Image Service that should be used as the kernel when booting an AMI-style image.	Valid image ID
All	os_distro	<p>The common name of the operating system distribution in lowercase (uses the same data vocabulary as the libosinfo project). Specify only a recognized value for this field.</p> <p>Deprecated values are listed to assist you in searching for the recognized value.</p>	<ul style="list-style-type: none"> ✦ arch—Arch Linux. Do not use archlinux or org.archlinux ✦ centos—Community Enterprise Operating System. Do not use org.centos or CentOS ✦ debian—Debian. Do not use Debian or org.debian ✦ fedora—Fedora. Do not use Fedora, org.fedora, or org.fedoraproject ✦ freebsd—FreeBSD. Do not use org.freebsd, freeBSD, or FreeBSD ✦ gentoo—Gentoo Linux. Do not use Gentoo or org.gentoo ✦ mandrake—Mandrakelinux (MandrakeSoft) distribution. Do not use mandrakelinux or MandrakeLinux ✦ mandriva—Mandriva Linux. Do not use mandrivalinux ✦ mes—Mandriva Enterprise Server. Do not use mandrivaent or mandrivaES ✦ msdos—Microsoft Disc Operating System. Do not use ms-dos ✦ netbsd—NetBSD. Do not use NetBSD or org.netbsd

Specific to	Key	Description	Supported values
			<ul style="list-style-type: none"> ✧ netware—Novell NetWare. Do not use novell or NetWare. ✧ openbsd—OpenBSD. Do not use OpenBSD or org.openbsd. ✧ opensolaris—OpenSolaris. Do not use OpenSolaris or org.opensolaris. ✧ opensuse—openSUSE. Do not use suse, SuSE, or org.opensuse. ✧ rhel—Red Hat Enterprise Linux. Do not use redhat, RedHat, or com.redhat. ✧ sled—SUSE Linux Enterprise Desktop. Do not use com.suse. ✧ ubuntu—Ubuntu. Do not use Ubuntu, com.ubuntu, org.ubuntu, or canonical. ✧ windows—Microsoft Windows. Do not use com.microsoft.server.
All	os_version	The operating system version as specified by the distributor.	Version number (for example, "11.10")
All	ramdisk_id	The ID of image stored in the Image Service that should be used as the ramdisk when booting an AMI-style image.	Valid image ID
All	vm_mode	The virtual machine mode. This represents the host/guest ABI (application binary interface) used for the virtual machine.	<ul style="list-style-type: none"> ✧ hvm—Fully virtualized. This is the mode used by QEMU and KVM. ✧ xen—Xen 3.0 paravirtualized. ✧ uml—User Mode Linux paravirtualized. ✧ exe—Executables in containers. This is the mode used by LXC.
libvirt API driver	hw_disk_bus	Specifies the type of disk controller to attach disk devices to.	One of scsi , virtio , uml , xen , ide , or usb .

Specific to	Key	Description	Supported values
libvirt API driver	hw_rng_model	<p>Adds a random-number generator device to the image's instances. The cloud administrator can enable and control device behavior by configuring the instance's flavor. By default:</p> <ul style="list-style-type: none"> ✎ The generator device is disabled. ✎ /dev/random is used as the default entropy source. To specify a physical HW RNG device, use the following option in the nova.conf file: <pre>rng_dev_path=/dev/hwrng</pre>	virtio , or other supported device.
libvirt API driver	hw_machine_type	Enables booting an ARM system using the specified machine type. By default, if an ARM image is used and its type is not specified, Compute uses vexpress-a15 (for ARMv7) or virt (for AArch64) machine types.	Libvirt machine type. Valid types can be viewed by using the virsh capabilities command (machine types are displayed in the machine tag).
libvirt API driver	hw_scsi_model	Enables the use of VirtIO SCSI (virtio-scsi) to provide block device access for compute instances; by default, instances use VirtIO Block (virtio-blk). VirtIO SCSI is a para-virtualized SCSI controller device that provides improved scalability and performance, and supports advanced SCSI hardware.	virtio-scsi
libvirt API driver	hw_video_model	The video image driver used.	vga , cirrus , vmvga , xen , or qxl
libvirt API driver	hw_video_ram	<p>Maximum RAM for the video image. Used only if a hw_video:ram_max_mb value has been set in the flavor's extra_specs and that value is higher than the value set in hw_video_ram.</p>	Integer in MB (for example, '64')

Specific to	Key	Description	Supported values
libvirt API driver	hw_watchdog_action	Enables a virtual hardware watchdog device that carries out the specified action if the server hangs. The watchdog uses the i6300esb device (emulating a PCI Intel 6300ESB). If hw_watchdog_action is not specified, the watchdog is disabled.	<ul style="list-style-type: none"> ✦ disabled—(default) The device is not attached. Allows the user to disable the watchdog for the image, even if it has been enabled using the image's flavor. ✦ reset—Forcefully reset the guest. ✦ poweroff—Forcefully power off the guest. ✦ pause—Pause the guest. ✦ none—Only enable the watchdog; do nothing if the server hangs.
libvirt API driver	os_command_line	The kernel command line to be used by the libvirt driver, instead of the default. For linux containers (LXC), the value is used as arguments for initialization. This key is valid only for Amazon kernel, ramdisk, or machine images (aki, ari, or ami).	
libvirt API driver and VMware API driver	hw_vif_model	Specifies the model of virtual network interface device to use.	<p>The valid options depend on the configured hypervisor.</p> <ul style="list-style-type: none"> ✦ KVM and QEMU: e1000, ne2k_pci, pcnet, rtl8139, and virtio. ✦ VMware: e1000, e1000e, VirtualE1000, VirtualE1000e, VirtualPCNet32, VirtualSriovEthernetCard, and VirtualVmxnet. ✦ Xen: e1000, netfront, ne2k_pci, pcnet, and rtl8139.
VMware API driver	vmware_adapter_type	The virtual SCSI or IDE controller used by the hypervisor.	lsiLogic , busLogic , or ide

Specific to	Key	Description	Supported values
VMware API driver	vmware_ostype	A VMware GuestID which describes the operating system installed in the image. This value is passed to the hypervisor when creating a virtual machine. If not specified, the key defaults to otherGuest .	See thinkvirt.com .
VMware API driver	vmware_image_version	Currently unused.	1
XenAPI driver	auto_disk_config	If true, the root partition on the disk is automatically resized before the instance boots. This value is only taken into account by the Compute service when using a Xen-based hypervisor with the XenAPI driver. The Compute service will only attempt to resize if there is a single partition on the image, and only if the partition is in ext3 or ext4 format.	true false
XenAPI driver	os_type	The operating system installed on the image. The XenAPI driver contains logic that takes different actions depending on the value of the os_type parameter of the image. For example, for os_type=windows images, it creates a FAT32-based swap partition instead of a Linux swap partition, and it limits the injected host name to less than 16 characters.	linux or windows

CHAPTER 9. NETWORKING SERVICE COMMAND-LINE CLIENT

The **neutron** client is the command-line interface (CLI) for the Networking service API and its extensions. This chapter documents **neutron** version **4.1.1**.

For help on a specific **neutron** command, enter:

```
$ neutron help COMMAND
```

9.1. NEUTRON USAGE

```
usage: neutron [--version] [-v] [-q] [-h] [-r NUM] [--os-service-type
<os-service-type>] [--os-endpoint-type <os-endpoint-type>] [--service-
type <service-type>] [--endpoint-type <endpoint-type>] [--os-auth-
strategy <auth-strategy>] [--os-cloud <cloud>] [--os-auth-url <auth-
url>] [--os-tenant-name <auth-tenant-name> | --os-project-name <auth-
project-name>] [--os-tenant-id <auth-tenant-id> | --os-project-id
<auth-project-id>] [--os-username <auth-username>] [--os-user-id <auth-
user-id>] [--os-user-domain-id <auth-user-domain-id>] [--os-user-
domain-name <auth-user-domain-name>] [--os-project-domain-id <auth-
project-domain-id>] [--os-project-domain-name <auth-project-domain-
name>] [--os-cert <certificate>] [--os-cacert <ca-certificate>] [--os-
key <key>] [--os-password <auth-password>] [--os-region-name <auth-
region-name>] [--os-token <token>] [--http-timeout <seconds>] [--os-url
<url>] [--insecure]
```

9.2. NEUTRON OPTIONAL ARGUMENTS

--version

show program's version number and exit

-v, --verbose, --debug

Increase verbosity of output and show tracebacks on errors. You can repeat this option.

-q, --quiet

Suppress output except warnings and errors.

-h, --help

Show this help message and exit.

-r NUM, --retries NUM

How many times the request to the Neutron server should be retried if it fails.

--os-service-type <os-service-type>

Defaults to **env[OS_NETWORK_SERVICE_TYPE]** or **network**.

--os-endpoint-type <os-endpoint-type>

Defaults to **env[OS_ENDPOINT_TYPE]** or **public**.

--service-type <service-type>

DEPRECATED! Use **--os-service-type**.

--endpoint-type <endpoint-type>

DEPRECATED! Use **--os-endpoint-type**.

--os-auth-strategy <auth-strategy>

DEPRECATED! Only keystone is supported.

--os-cloud <cloud>

Defaults to **env[OS_CLOUD]**.

--os-auth-url <auth-url>

Authentication URL, defaults to **env[OS_AUTH_URL]**.

--os-tenant-name <auth-tenant-name>

Authentication tenant name, defaults to **env[OS_TENANT_NAME]**.

--os-project-name <auth-project-name>

Another way to specify tenant name. This option is mutually exclusive with **--os-tenant-name**. Defaults to **env[OS_PROJECT_NAME]**.

--os-tenant-id <auth-tenant-id>

Authentication tenant ID, defaults to **env[OS_TENANT_ID]**.

--os-project-id <auth-project-id>

Another way to specify tenant ID. This option is mutually exclusive with **--os-tenant-id**. Defaults to **env[OS_PROJECT_ID]**.

--os-username <auth-username>

Authentication username, defaults to **env[OS_USERNAME]**.

--os-user-id <auth-user-id>

Authentication user ID (Env: OS_USER_ID)

--os-user-domain-id <auth-user-domain-id>

OpenStack user domain ID. Defaults to **env[OS_USER_DOMAIN_ID]**.

--os-user-domain-name <auth-user-domain-name>

OpenStack user domain name. Defaults to **env[OS_USER_DOMAIN_NAME]**.

--os-project-domain-id <auth-project-domain-id>

Defaults to **env[OS_PROJECT_DOMAIN_ID]**.

--os-project-domain-name <auth-project-domain-name>

Defaults to **env[OS_PROJECT_DOMAIN_NAME]**.

--os-cert <certificate>

Path of certificate file to use in SSL connection. This file can optionally be prepended with the private key. Defaults to **env[OS_CERT]**.

--os-cacert <ca-certificate>

Specify a CA bundle file to use in verifying a TLS (https) server certificate. Defaults to **env[OS_CACERT]**.

--os-key <key>

Path of client key to use in SSL connection. This option is not necessary if your key is prepended to your certificate file. Defaults to **env[OS_KEY]**.

--os-password <auth-password>

Authentication password, defaults to **env[OS_PASSWORD]**.

--os-region-name <auth-region-name>

Authentication region name, defaults to **env[OS_REGION_NAME]**.

--os-token <token>

Authentication token, defaults to `env[OS_TOKEN]`.

--http-timeout <seconds>

Timeout in seconds to wait for an HTTP response. Defaults to `env[OS_NETWORK_TIMEOUT]` or None if not specified.

--os-url <url>

Defaults to `env[OS_URL]`.

--insecure

Explicitly allow neutronclient to perform "insecure" SSL (https) requests. The server's certificate will not be verified against any certificate authorities. This option should be used with caution.

9.3. NEUTRON API V2.0 COMMANDS

address-scope-create

Create an address scope for a given tenant.

address-scope-delete

Delete an address scope.

address-scope-list

List address scopes that belong to a given tenant.

address-scope-show

Show information about an address scope.

address-scope-update

Update an address scope.

agent-delete

Delete a given agent.

agent-list

List agents.

agent - show

Show information of a given agent.

agent - update

Updates the admin status and description for a specified agent.

auto-allocated-topology - show

Show the auto-allocated topology of a given tenant.

availability-zone - list

List availability zones.

bash-completion

Prints all of the commands and options for bash-completion.

bgp-dragent - list - hosting - speaker

List Dynamic Routing agents hosting a BGP speaker.

bgp-dragent - speaker - add

Add a BGP speaker to a Dynamic Routing agent.

bgp-dragent - speaker - remove

Removes a BGP speaker from a Dynamic Routing agent.

bgp-peer - create

Create a BGP Peer.

bgp-peer - delete

Delete a BGP peer.

bgp-peer - list

List BGP peers.

bgp-peer - show

Show information of a given BGP peer.

bgp-peer-update

Update BGP Peer's information.

bgp-speaker-advertiseroute-list

List routes advertised by a given BGP speaker.

bgp-speaker-create

Create a BGP Speaker.

bgp-speaker-delete

Delete a BGP speaker.

bgp-speaker-list

List BGP speakers.

bgp-speaker-list-on-dragent

List BGP speakers hosted by a Dynamic Routing agent.

bgp-speaker-network-add

Add a network to the BGP speaker.

bgp-speaker-network-remove

Remove a network from the BGP speaker.

bgp-speaker-peer-add

Add a peer to the BGP speaker.

bgp-speaker-peer-remove

Remove a peer from the BGP speaker.

bgp-speaker-show

Show information of a given BGP speaker.

bgp-speaker-update

Update BGP Speaker's information.

dhcp-agent-list-hosting-net

List DHCP agents hosting a network.

dhcp-agent-network-add

Add a network to a DHCP agent.

dhcp-agent-network-remove

Remove a network from a DHCP agent.

ext-list

List all extensions.

ext-show

Show information of a given resource.

firewall-create

Create a firewall.

firewall-delete

Delete a given firewall.

firewall-list

List firewalls that belong to a given tenant.

firewall-policy-create

Create a firewall policy.

firewall-policy-delete

Delete a given firewall policy.

firewall-policy-insert-rule

Insert a rule into a given firewall policy.

firewall-policy-list

List firewall policies that belong to a given tenant.

firewall-policy-remove-rule

Remove a rule from a given firewall policy.

firewall-policy-show

Show information of a given firewall policy.

firewall-policy-update

Update a given firewall policy.

firewall-rule-create

Create a firewall rule.

firewall-rule-delete

Delete a given firewall rule.

firewall-rule-list

List firewall rules that belong to a given tenant.

firewall-rule-show

Show information of a given firewall rule.

firewall-rule-update

Update a given firewall rule.

firewall-show

Show information of a given firewall.

firewall-update

Update a given firewall.

flavor-associate

Associate a Neutron service flavor with a flavor profile.

flavor-create

Create a Neutron service flavor.

flavor-delete

Delete a given Neutron service flavor.

flavor-disassociate

Disassociate a Neutron service flavor from a flavor profile.

flavor-list

List Neutron service flavors.

flavor-profile-create

Create a Neutron service flavor profile.

flavor-profile-delete

Delete a given Neutron service flavor profile.

flavor-profile-list

List Neutron service flavor profiles.

flavor-profile-show

Show information about a given Neutron service flavor profile.

flavor-profile-update

Update a given Neutron service flavor profile.

flavor-show

Show information about a given Neutron service flavor.

flavor-update

Update a Neutron service flavor.

floatingip-associate

Create a mapping between a floating IP and a fixed IP.

floatingip-create

Create a floating IP for a given tenant.

floatingip-delete

Delete a given floating IP.

floatingip-disassociate

Remove a mapping from a floating IP to a fixed IP.

floatingip-list

List floating IPs that belong to a given tenant.

floatingip-show

Show information of a given floating IP.

gateway-device-create

Create a network gateway device.

gateway-device-delete

Delete a given network gateway device.

gateway-device-list

List network gateway devices for a given tenant.

gateway-device-show

Show information for a given network gateway device.

gateway-device-update

Update a network gateway device.

help

print detailed help for another command

ipsec-site-connection-create

Create an IPsec site connection.

ipsec-site-connection-delete

Delete a given IPsec site connection.

ipsec-site-connection-list

List IPsec site connections that belong to a given tenant.

ipsec-site-connection-show

Show information of a given IPsec site connection.

ipsec-site-connection-update

Update a given IPsec site connection.

l3-agent-list-hosting-router

List L3 agents hosting a router.

l3-agent-router-add

Add a router to a L3 agent.

l3-agent-router-remove

Remove a router from a L3 agent.

lb-agent-hosting-pool

Get loadbalancer agent hosting a pool.

lb-healthmonitor-associate

Create a mapping between a health monitor and a pool.

lb-healthmonitor-create

Create a health monitor.

lb-healthmonitor-delete

Delete a given health monitor.

lb-healthmonitor-disassociate

Remove a mapping from a health monitor to a pool.

lb-healthmonitor-list

List health monitors that belong to a given tenant.

lb-healthmonitor-show

Show information of a given health monitor.

lb-healthmonitor-update

Update a given health monitor.

lb-member-create

Create a member.

lb-member-delete

Delete a given member.

lb-member-list

List members that belong to a given tenant.

lb-member-show

Show information of a given member.

lb-member-update

Update a given member.

lb-pool-create

Create a pool.

lb-pool-delete

Delete a given pool.

lb-pool-list

List pools that belong to a given tenant.

lb-pool-list-on-agent

List the pools on a loadbalancer agent.

lb-pool-show

Show information of a given pool.

lb-pool-stats

Retrieve stats for a given pool.

lb-pool-update

Update a given pool.

lb-vip-create

Create a vip.

lb-vip-delete

Delete a given vip.

lb-vip-list

List vips that belong to a given tenant.

lb-vip-show

Show information of a given vip.

lb-vip-update

Update a given vip.

lbaas-agent-hosting-loadbalancer

Get lbaas v2 agent hosting a loadbalancer.

lbaas-healthmonitor-create

LBaaS v2 Create a healthmonitor.

lbaas-healthmonitor-delete

LBaaS v2 Delete a given healthmonitor.

lbaas-healthmonitor-list

LBaaS v2 List healthmonitors that belong to a given tenant.

lbaas-healthmonitor-show

LBaaS v2 Show information of a given healthmonitor.

lbaas-healthmonitor-update

LBaaS v2 Update a given healthmonitor.

lbaas-l7policy-create

LBaaS v2 Create L7 policy.

lbaas-l7policy-delete

LBaaS v2 Delete a given L7 policy.

lbaas-l7policy-list

LBaaS v2 List L7 policies that belong to a given listener.

lbaas-l7policy-show

LBaaS v2 Show information of a given L7 policy.

lbaas-l7policy-update

LBaaS v2 Update a given L7 policy.

lbaas-l7rule-create

LBaaS v2 Create L7 rule.

lbaas-l7rule-delete

LBaaS v2 Delete a given L7 rule.

lbaas-l7rule-list

LBaaS v2 List L7 rules that belong to a given L7 policy.

lbaas-l7rule-show

LBaaS v2 Show information of a given rule.

lbaas-l7rule-update

LBaaS v2 Update a given L7 rule.

lbaas-listener-create

LBaaS v2 Create a listener.

lbaas-listener-delete

LBaaS v2 Delete a given listener.

lbaas-listener-list

LBaaS v2 List listeners that belong to a given tenant.

lbaas-listener-show

LBaaS v2 Show information of a given listener.

lbaas-listener-update

LBaaS v2 Update a given listener.

lbaas-loadbalancer-create

LBaaS v2 Create a loadbalancer.

lbaas-loadbalancer-delete

LBaaS v2 Delete a given loadbalancer.

lbaas-loadbalancer-list

LBaaS v2 List loadbalancers that belong to a given tenant.

lbaas-loadbalancer-list-on-agent

List the loadbalancers on a loadbalancer v2 agent.

lbaas-loadbalancer-show

LBaaS v2 Show information of a given loadbalancer.

lbaas-loadbalancer-stats

Retrieve stats for a given loadbalancer.

lbaas-loadbalancer-status

Retrieve status for a given loadbalancer.

lbaas-loadbalancer-update

LBaaS v2 Update a given loadbalancer.

lbaas-member-create

LBaaS v2 Create a member.

lbaas-member-delete

LBaaS v2 Delete a given member.

lbaas-member-list

LBaaS v2 List members that belong to a given pool.

lbaas-member-show

LBaaS v2 Show information of a given member.

lbaas-member-update

LBaaS v2 Update a given member.

lbaas-pool-create

LBaaS v2 Create a pool.

lbaas-pool-delete

LBaaS v2 Delete a given pool.

lbaas-pool-list

LBaaS v2 List pools that belong to a given tenant.

lbaas-pool-show

LBaaS v2 Show information of a given pool.

lbaas-pool-update

LBaaS v2 Update a given pool.

meter-label-create

Create a metering label for a given tenant.

meter-label-delete

Delete a given metering label.

meter-label-list

List metering labels that belong to a given tenant.

meter-label-rule-create

Create a metering label rule for a given label.

meter-label-rule-delete

Delete a given metering label.

meter-label-rule-list

List metering labels that belong to a given label.

meter-label-rule-show

Show information of a given metering label rule.

meter-label-show

Show information of a given metering label.

net-create

Create a network for a given tenant.

net-delete

Delete a given network.

net-external-list

List external networks that belong to a given tenant.

net-gateway-connect

Add an internal network interface to a router.

net-gateway-create

Create a network gateway.

net-gateway-delete

Delete a given network gateway.

net-gateway-disconnect

Remove a network from a network gateway.

net-gateway-list

List network gateways for a given tenant.

net-gateway-show

Show information of a given network gateway.

net-gateway-update

Update the name for a network gateway.

net-ip-availability-list

List IP usage of networks

net-ip-availability-show

Show IP usage of specific network

net-list

List networks that belong to a given tenant.

net-list-on-dhcp-agent

List the networks on a DHCP agent.

net-show

Show information of a given network.

net-update

Update network's information.

network-template-assignments-create

[bsn_extensions] Create a Network Template Assignment.

network-template-assignments-delete

[bsn_extensions] Delete a Network Template Assignment.

network-template-assignments-list

[bsn_extensions] List Network Template Assignments

network-template-assignments-show

[bsn_extensions] Show a Network Template Assignment.

network-template-assignments-update

[bsn_extensions] Update a Network Template Assignment.

network-templates-create

[bsn_extensions] Create a Network Template.

network-templates-delete

[bsn_extensions] Delete a network template.

network-templates-list

[bsn_extensions] List Network Templates

network-templates-show

[bsn_extensions] Show a network template.

network-templates-update

[bsn_extensions] Update a network template.

port-create

Create a port for a given tenant.

port-delete

Delete a given port.

port-list

List ports that belong to a given tenant.

port-show

Show information of a given port.

port-update

Update port's information.

purge**qos-available-rule-types**

List available qos rule types.

qos-bandwidth-limit-rule-create

Create a qos bandwidth limit rule.

qos-bandwidth-limit-rule-delete

Delete a given qos bandwidth limit rule.

qos-bandwidth-limit-rule-list

List all qos bandwidth limit rules belonging to the specified policy.

qos-bandwidth-limit-rule-show

Show information about the given qos bandwidth limit rule.

qos-bandwidth-limit-rule-update

Update the given qos bandwidth limit rule.

qos-policy-create

Create a qos policy.

qos-policy-delete

Delete a given qos policy.

qos-policy-list

List QoS policies that belong to a given tenant connection.

qos-policy-show

Show information of a given qos policy.

qos-policy-update

Update a given qos policy.

queue-create

Create a queue.

queue-delete

Delete a given queue.

queue-list

List queues that belong to a given tenant.

queue-show

Show information of a given queue.

quota-delete

Delete defined quotas of a given tenant.

quota-list

List quotas of all tenants who have non-default quota values.

quota-show

Show quotas of a given tenant.

quota-update

Define tenant's quotas not to use defaults.

rbac-create

Create a RBAC policy for a given tenant.

rbac-delete

Delete a RBAC policy.

rbac-list

List RBAC policies that belong to a given tenant.

rbac-show

Show information of a given RBAC policy.

rbac-update

Update RBAC policy for given tenant.

reachability-quick-tests-create

[bsn_extensions] Create a Reachability Quick Test.

reachability-quick-tests-delete

[bsn_extensions] Delete a Reachability Quick Test.

reachability-quick-tests-list

[bsn_extensions] List Reachability Quick Tests.

reachability-quick-tests-run

[bsn_extensions] Run a Reachability Quick Test.

reachability-quick-tests-show

[bsn_extensions] Show a Reachability Quick Test.

reachability-quick-tests-update

[bsn_extensions] Update a Reachability Quick Test.

reachability-tests-create

[bsn_extensions] Create a Reachability Test.

reachability-tests-delete

[bsn_extensions] Delete a Reachability Test.

reachability-tests-list

[bsn_extensions] List Reachability Tests.

reachability-tests-run

[bsn_extensions] Run a Reachability Test.

reachability-tests-show

[bsn_extensions] Show a Reachability Test.

reachability-tests-update

[bsn_extensions] Update a Reachability Test.

router-create

Create a router for a given tenant.

router-delete

Delete a given router.

router-gateway-clear

Remove an external network gateway from a router.

router-gateway-set

Set the external network gateway for a router.

router-interface-add

Add an internal network interface to a router.

router-interface-delete

Remove an internal network interface from a router.

router-list

List routers that belong to a given tenant.

router-list-on-l3-agent

List the routers on a L3 agent.

router-port-list

List ports that belong to a given tenant, with specified router.

router-show

Show information of a given router.

router-update

Update router's information.

security-group-create

Create a security group.

security-group-delete

Delete a given security group.

security-group-list

List security groups that belong to a given tenant.

security-group-rule-create

Create a security group rule.

security-group-rule-delete

Delete a given security group rule.

security-group-rule-list

List security group rules that belong to a given tenant.

security-group-rule-show

Show information of a given security group rule.

security-group-show

Show information of a given security group.

security-group-update

Update a given security group.

service-provider-list

List service providers.

subnet-create

Create a subnet for a given tenant.

subnet-delete

Delete a given subnet.

subnet-list

List subnets that belong to a given tenant.

subnet-show

Show information of a given subnet.

subnet-update

Update subnet's information.

subnetpool-create

Create a subnetpool for a given tenant.

subnetpool-delete

Delete a given subnetpool.

subnetpool-list

List subnetpools that belong to a given tenant.

subnetpool-show

Show information of a given subnetpool.

subnetpool-update

Update subnetpool's information.

tag-add

Add a tag into the resource.

tag-remove

Remove a tag on the resource.

tag-replace

Replace all tags on the resource.

vpn-endpoint-group-create

Create a VPN endpoint group.

vpn-endpoint-group-delete

Delete a given VPN endpoint group.

vpn-endpoint-group-list

List VPN endpoint groups that belong to a given tenant.

vpn-endpoint-group-show

Show a specific VPN endpoint group.

vpn-endpoint-group-update

Update a given VPN endpoint group.

vpn-ikepolicy-create

Create an IKE policy.

vpn-ikepolicy-delete

Delete a given IKE policy.

vpn-ikepolicy-list

List IKE policies that belong to a tenant.

vpn-ikepolicy-show

Show information of a given IKE policy.

vpn-ikepolicy-update

Update a given IKE policy.

vpn-ipsecpolicy-create

Create an IPsec policy.

vpn-ipsecpolicy-delete

Delete a given IPsec policy.

vpn-ipsecpolicy-list

List IPsec policies that belong to a given tenant connection.

vpn-ipsecpolicy-show

Show information of a given IPsec policy.

vpn-ipsecpolicy-update

Update a given IPsec policy.

vpn-service-create

Create a VPN service.

vpn-service-delete

Delete a given VPN service.

vpn-service-list

List VPN service configurations that belong to a given tenant.

vpn-service-show

Show information of a given VPN service.

vpn-service-update

Update a given VPN service.

9.4. NEUTRON ADDRESS-SCOPE-CREATE

```
usage: neutron address-scope-create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
tenant-id TENANT_ID] [--shared] NAME IP_VERSION
```

Create an address scope for a given tenant.

Positional arguments**NAME**

Specify the name of the address scope.

IP_VERSION

Specify the address family of the address scope.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--shared

Set the address scope as shared.

9.5. NEUTRON ADDRESS-SCOPE-DELETE

```
usage: neutron address-scope-delete [-h] [--request-format {json}]
ADDRESS_SCOPE
```

Delete an address scope.

Positional arguments

ADDRESS_SCOPE

ID or name of address_scope to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.6. NEUTRON ADDRESS-SCOPE-SHOW

```
usage: neutron address-scope-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] ADDRESS_SCOPE
```

Show information about an address scope.

Positional arguments

ADDRESS_SCOPE

ID or name of address_scope to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.7. NEUTRON ADDRESS-SCOPE-UPDATE

```
usage: neutron address-scope-update [-h] [--request-format {json}] [--
name NAME] ADDRESS_SCOPE
```

Update an address scope.

Positional arguments

ADDRESS_SCOPE

ID or name of address_scope to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--name NAME

Name of the address scope to update.

9.8. NEUTRON AGENT-DELETE

```
usage: neutron agent-delete [-h] [--request-format {json}] AGENT
```

Delete a given agent.

Positional arguments

AGENT

ID of agent to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.9. NEUTRON AGENT-SHOW

```
usage: neutron agent-show [-h] [-f {html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width <integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-D] [-F FIELD] AGENT
```

Show information of a given agent.

Positional arguments

AGENT

ID of agent to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.10. NEUTRON AGENT-UPDATE

```
usage: neutron agent-update [-h] [--request-format {json}] [--admin-  
state-down] [--description DESCRIPTION] AGENT
```

Updates the admin status and description for a specified agent.

Positional arguments

AGENT

ID of agent to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--admin-state-down

Set admin state up of the agent to false.

--description DESCRIPTION

Description for the agent.

9.11. NEUTRON BGP-DRAGENT-LIST-HOSTING-SPEAKER

```
usage: neutron bgp-dragent-list-hosting-speaker [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}] [--
request-format {json}] [-D] [-F FIELD] BGP_SPEAKER
```

List Dynamic Routing agents hosting a BGP speaker.

Positional arguments**BGP_SPEAKER**

ID or name of the BGP speaker.

Optional arguments**-h, --help**

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.12. NEUTRON BGP-DRAGENT-SPEAKER-ADD

```
usage: neutron bgp-dragent-speaker-add [-h] [--request-format {json}]
BGP_DRAGENT_ID BGP_SPEAKER
```

Add a BGP speaker to a Dynamic Routing agent.

Positional arguments

BGP_DRAGENT_ID

ID of the Dynamic Routing agent.

BGP_SPEAKER

ID or name of the BGP speaker.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.13. NEUTRON BGP-DRAGENT-SPEAKER-REMOVE

```
usage: neutron bgp-dragent-speaker-remove [-h] [--request-format {json}] BGP_DRAGENT_ID BGP_SPEAKER
```

Removes a BGP speaker from a Dynamic Routing agent.

Positional arguments

BGP_DRAGENT_ID

ID of the Dynamic Routing agent.

BGP_SPEAKER

ID or name of the BGP speaker.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.14. NEUTRON BGP-PEER-CREATE

```
usage: neutron bgp-peer-create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
-tenant-id TENANT_ID] --peer-ip PEER_IP_ADDRESS --remote-as
PEER_REMOTE_AS [--auth-type PEER_AUTH_TYPE] [--password AUTH_PASSWORD]
NAME
```

Create a BGP Peer.

Positional arguments

NAME

Name of the BGP peer to create.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--peer-ip PEER_IP_ADDRESS

Peer IP address.

--remote-as PEER_REMOTE_AS

Peer AS number. (Integer in [1, 65535] is allowed.)

--auth-type PEER_AUTH_TYPE

Authentication algorithm. Supported algorithms: none(default), md5

--password AUTH_PASSWORD

Authentication password.

9.15. NEUTRON BGP-PEER-DELETE

```
usage: neutron bgp-peer-delete [-h] [--request-format {json}] BGP_PEER
```

Delete a BGP peer.

Positional arguments

BGP_PEER

ID or name of bgp_peer to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.16. NEUTRON BGP-PEER-SHOW

```
usage: neutron bgp-peer-show [-h] [-f {html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width <integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-D] [-F FIELD] BGP_PEER
```

Show information of a given BGP peer.

Positional arguments

BGP_PEER

ID or name of bgp_peer to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.17. NEUTRON BGP-PEER-UPDATE

```
usage: neutron bgp-peer-update [-h] [--request-format {json}] [--name
NAME] [--password AUTH_PASSWORD] BGP_PEER
```

Update BGP Peer's information.

Positional arguments

BGP_PEER

ID or name of bgp_peer to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--name NAME

Updated name of the BGP peer.

--password AUTH_PASSWORD

Updated authentication password.

9.18. NEUTRON BGP-SPEAKER-ADVERTISERROUTE-LIST

```
usage: neutron bgp-speaker-advertiseroute-list [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}] [--
request-format {json}] [-D] [-F FIELD] [-P SIZE] [--sort-key FIELD] [-
-sort-dir {asc,desc}] BGP_SPEAKER
```

List routes advertised by a given BGP speaker.

Positional arguments

BGP_SPEAKER

ID or name of the BGP speaker.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

-P SIZE, --page-size SIZE

Specify retrieve unit of each request, then split one request to several requests.

--sort-key FIELD

Sorts the list by the specified fields in the specified directions. You can repeat this option, but you must specify an equal number of sort_dir and sort_key values. Extra sort_dir options are ignored. Missing sort_dir options use the default asc value.

--sort-dir {asc,desc}

Sorts the list in the specified direction. You can repeat this option.

9.19. NEUTRON BGP-SPEAKER-CREATE

```
usage: neutron bgp-speaker-create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
-tenant-id TENANT_ID] --local-as LOCAL_AS [--ip-version {4,6}] [--
advertise-floating-ip-host-routes {True,False}] [--advertise-tenant-
networks {True,False}] NAME
```

Create a BGP Speaker.

Positional arguments

NAME

Name of the BGP speaker to create.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--local-as LOCAL_AS

Local AS number. (Integer in [1, 65535] is allowed.)

--ip-version {4,6} IP

version for the BGP speaker (default is 4).

--advertise-floating-ip-host-routes {True,False}

Whether to enable or disable the advertisement of floating-ip host routes by the BGP speaker. By default floating ip host routes will be advertised by the BGP speaker.

--advertise-tenant-networks {True,False}

Whether to enable or disable the advertisement of tenant network routes by the BGP speaker. By default tenant network routes will be advertised by the BGP speaker.

9.20. NEUTRON BGP-SPEAKER-DELETE

```
usage: neutron bgp-speaker-delete [-h] [--request-format {json}]
BGP_SPEAKER
```

Delete a BGP speaker.

Positional arguments

BGP_SPEAKER

ID or name of bgp_speaker to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.21. NEUTRON BGP-SPEAKER-LIST-ON-DRAGENT

```
usage: neutron bgp-speaker-list-on-dragent [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}] [--
request-format {json}] [-D] [-F FIELD] BGP_DRAGENT_ID
```

List BGP speakers hosted by a Dynamic Routing agent.

Positional arguments

BGP_DRAGENT_ID

ID of the Dynamic Routing agent.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.22. NEUTRON BGP-SPEAKER-NETWORK-ADD

```
usage: neutron bgp-speaker-network-add [-h] [--request-format {json}]
BGP_SPEAKER NETWORK
```

Add a network to the BGP speaker.

Positional arguments

BGP_SPEAKER

ID or name of the BGP speaker.

NETWORK

ID or name of the network to add.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.23. NEUTRON BGP-SPEAKER-NETWORK-REMOVE

```
usage: neutron bgp-speaker-network-remove [-h] [--request-format
{json}] BGP_SPEAKER NETWORK
```

Remove a network from the BGP speaker.

Positional arguments

BGP_SPEAKER

ID or name of the BGP speaker.

NETWORK

ID or name of the network to remove.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.24. NEUTRON BGP-SPEAKER-PEER-ADD

```
usage: neutron bgp-speaker-peer-add [-h] [--request-format {json}]
BGP_SPEAKER BGP_PEER
```

Add a peer to the BGP speaker.

Positional arguments**BGP_SPEAKER**

ID or name of the BGP speaker.

BGP_PEER

ID or name of the BGP peer to add.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.25. NEUTRON BGP-SPEAKER-PEER-REMOVE

```
usage: neutron bgp-speaker-peer-remove [-h] [--request-format {json}]
BGP_SPEAKER BGP_PEER
```

Remove a peer from the BGP speaker.

Positional arguments

BGP_SPEAKER

ID or name of the BGP speaker.

BGP_PEER

ID or name of the BGP peer to remove.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.26. NEUTRON BGP-SPEAKER-SHOW

```
usage: neutron bgp-speaker-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] BGP_SPEAKER
```

Show information of a given BGP speaker.

Positional arguments

BGP_SPEAKER

ID or name of bgp_speaker to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.27. NEUTRON BGP-SPEAKER-UPDATE

```
usage: neutron bgp-speaker-update [-h] [--request-format {json}] [--  
name NAME] [--advertise-floating-ip-host-routes {True,False}] [--  
advertise-tenant-networks {True,False}] BGP_SPEAKER
```

Update BGP Speaker's information.

Positional arguments

BGP_SPEAKER

ID or name of bgp_speaker to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--name NAME

Name of the BGP speaker to update.

--advertise-floating-ip-host-routes {True,False}

Whether to enable or disable the advertisement of floating-ip host routes by the BGP speaker. By default floating ip host routes will be advertised by the BGP speaker.

--advertise-tenant-networks {True,False}

Whether to enable or disable the advertisement of tenant network routes by the BGP speaker. By default tenant network routes will be advertised by the BGP speaker.

9.28. NEUTRON DHCP-AGENT-LIST-HOSTING-NET

```
usage: neutron dhcp-agent-list-hosting-net [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}] [--
request-format {json}] [-D] [-F FIELD] NETWORK
```

List DHCP agents hosting a network.

Positional arguments

NETWORK

Network to query.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.29. NEUTRON DHCP-AGENT-NETWORK-ADD

```
usage: neutron dhcp-agent-network-add [-h] [--request-format {json}]
DHCP_AGENT NETWORK
```

Add a network to a DHCP agent.

Positional arguments

DHCP_AGENT

ID of the DHCP agent.

NETWORK

Network to add.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.30. NEUTRON DHCP-AGENT-NETWORK-REMOVE

```
usage: neutron dhcp-agent-network-remove [-h] [--request-format
{json}] DHCP_AGENT NETWORK
```

Remove a network from a DHCP agent.

Positional arguments

DHCP_AGENT

ID of the DHCP agent.

NETWORK

Network to remove.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.31. NEUTRON EXT-SHOW

```
usage: neutron ext-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] EXTENSION
```

Show information of a given resource.

Positional arguments

EXTENSION

ID of extension to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.32. NEUTRON FIREWALL-CREATE

```
usage: neutron firewall-create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
-tenant-id TENANT_ID] [--name NAME] [--description DESCRIPTION] [--
router ROUTER | --no-routers] [--admin-state-down] POLICY
```

Create a firewall.

Positional arguments

POLICY

Firewall policy name or ID.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--name NAME

Name for the firewall.

--description DESCRIPTION

Description for the firewall.

--router ROUTER

Firewall associated router name or ID (requires FWaaS router insertion extension, this option can be repeated)

--no-routers

Associate no routers with the firewall (requires FWaaS router insertion extension)

--admin-state-down

Set admin state up to false.

9.33. NEUTRON FIREWALL-DELETE

```
usage: neutron firewall-delete [-h] [--request-format {json}] FIREWALL
```

Delete a given firewall.

Positional arguments

FIREWALL

ID or name of firewall to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.34. NEUTRON FIREWALL-POLICY-CREATE

```
usage: neutron firewall-policy-create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
tenant-id TENANT_ID] [--shared] [--audited] [--description
DESCRIPTION] [--firewall-rules FIREWALL_RULES] NAME
```

Create a firewall policy.

Positional arguments

NAME

Name for the firewall policy.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--shared

Create a shared policy.

--audited

Sets audited to True.

--description DESCRIPTION

Description for the firewall policy.

--firewall-rules FIREWALL_RULES

Ordered list of whitespace-delimited firewall rule names or IDs; e.g., --firewall-rules "rule1 rule2"

9.35. NEUTRON FIREWALL-POLICY-DELETE

```
usage: neutron firewall-policy-delete [-h] [--request-format {json}]
FIREWALL_POLICY
```

Delete a given firewall policy.

Positional arguments

FIREWALL_POLICY

ID or name of firewall_policy to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.36. NEUTRON FIREWALL-POLICY-INSERT-RULE

```
usage: neutron firewall-policy-insert-rule [-h] [--request-format
{json}] [--insert-before FIREWALL_RULE] [--insert-after FIREWALL_RULE]
FIREWALL_POLICY FIREWALL_RULE
```

Insert a rule into a given firewall policy.

Positional arguments

FIREWALL_POLICY

ID or name of firewall_policy to update.

FIREWALL_RULE

New rule to insert.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--insert-before FIREWALL_RULE

Insert before this rule.

--insert-after FIREWALL_RULE

Insert after this rule.

9.37. NEUTRON FIREWALL-POLICY-REMOVE-RULE

```
usage: neutron firewall-policy-remove-rule [-h] [--request-format
{json}] FIREWALL_POLICY FIREWALL_RULE
```

Remove a rule from a given firewall policy.

Positional arguments

FIREWALL_POLICY

ID or name of firewall_policy to update.

FIREWALL_RULE

Firewall rule to remove from policy.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.38. NEUTRON FIREWALL-POLICY-SHOW

```
usage: neutron firewall-policy-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] FIREWALL_POLICY
```

Show information of a given firewall policy.

Positional arguments

FIREWALL_POLICY

ID or name of firewall_policy to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.39. NEUTRON FIREWALL-POLICY-UPDATE

```
usage: neutron firewall-policy-update [-h] [--request-format {json}] [-
-description DESCRIPTION] [--firewall-rules FIREWALL_RULES] [--name
NAME] [--shared {True,False}] [--audited {True,False}] FIREWALL_POLICY
```

Update a given firewall policy.

Positional arguments

FIREWALL_POLICY

ID or name of firewall_policy to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--description DESCRIPTION

Description for the firewall policy.

--firewall-rules FIREWALL_RULES

Ordered list of whitespace-delimited firewall rule names or IDs; e.g., --firewall-rules "rule1 rule2"

--name NAME

Name for the firewall policy.

--shared {True,False}

Update the sharing status of the policy. (True means shared)

--audited {True,False}

Update the audit status of the policy. (True means auditing is enabled)

9.40. NEUTRON FIREWALL-RULE-DELETE

```
usage: neutron firewall-rule-delete [-h] [--request-format {json}]
FIREWALL_RULE
```

Delete a given firewall rule.

Positional arguments

FIREWALL_RULE

ID or name of firewall_rule to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.41. NEUTRON FIREWALL-RULE-SHOW

```
usage: neutron firewall-rule-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] FIREWALL_RULE
```

Show information of a given firewall rule.

Positional arguments

FIREWALL_RULE

ID or name of firewall_rule to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.42. NEUTRON FIREWALL-RULE-UPDATE

```
usage: neutron firewall-rule-update [-h] [--request-format {json}] [--shared {True,False}] [--ip-version {4,6}] [--name NAME] [--description DESCRIPTION] [--source-ip-address SOURCE_IP_ADDRESS] [--destination-ip-address DESTINATION_IP_ADDRESS] [--source-port SOURCE_PORT] [--destination-port DESTINATION_PORT] [--enabled {True,False}] [--protocol {tcp,udp,icmp,any}] [--action {allow,deny,reject}] FIREWALL_RULE
```

Update a given firewall rule.

Positional arguments

FIREWALL_RULE

ID or name of firewall_rule to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--shared {True,False}

Update the shared flag for the firewall rule.

--ip-version {4,6}

Update IP version for the firewall rule.

--name NAME

Name for the firewall rule.

--description DESCRIPTION

Description for the firewall rule.

--source-ip-address SOURCE_IP_ADDRESS

Source IP address or subnet.

--destination-ip-address DESTINATION_IP_ADDRESS

Destination IP address or subnet.

--source-port SOURCE_PORT

Source port (integer in [1, 65535] or range in a:b).

--destination-port DESTINATION_PORT

Destination port (integer in [1, 65535] or range in a:b).

--enabled {True,False}

Whether to enable or disable this rule.

--protocol {tcp,udp,icmp,any}

Protocol for the firewall rule.

--action {allow,deny,reject}

Action for the firewall rule.

9.43. NEUTRON FIREWALL-SHOW

```
usage: neutron firewall-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] FIREWALL
```

Show information of a given firewall.

Positional arguments

FIREWALL

ID or name of firewall to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.44. NEUTRON FIREWALL-UPDATE

```
usage: neutron firewall-update [-h] [--request-format {json}] [--name
NAME] [--description DESCRIPTION] [--router ROUTER | --no-routers] [--
policy POLICY] [--admin-state-up {True,False}] FIREWALL
```

Update a given firewall.

Positional arguments

FIREWALL

ID or name of firewall to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--name NAME

Name for the firewall.

--description DESCRIPTION

Description for the firewall.

--router ROUTER

Firewall associated router name or ID (requires FWaaS router insertion extension, this option can be repeated)

--no-routers

Associate no routers with the firewall (requires FWaaS router insertion extension)

--policy POLICY

Firewall policy name or ID.

--admin-state-up {True,False}

Update the admin state for the firewall(True means UP)

9.45. NEUTRON FLAVOR-ASSOCIATE

```
usage: neutron flavor-associate [-h] [--request-format {json}] FLAVOR
                                FLAVOR_PROFILE
```

Associate a Neutron service flavor with a flavor profile.

Positional arguments

FLAVOR

Name or ID of the flavor to associate.

FLAVOR_PROFILE

ID of the flavor profile to be associated with the flavor.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.46. NEUTRON FLAVOR-CREATE

```
usage: neutron flavor-create [-h] [-f
                              {html,json,json,shell,table,value,yaml,yaml}]
                              [-c COLUMN] [--max-width
                              <integer>] [--noindent]
                              [--prefix PREFIX]
                              [--request-format {json}]
                              [-tenant-id TENANT_ID]
                              [--description DESCRIPTION]
                              [--enabled {True,False}]
                              NAME SERVICE_TYPE
```


Create a Neutron service flavor.

Positional arguments

NAME

Name for the flavor.

SERVICE_TYPE

Service type to which the flavor applies to: e.g. VPN. (See service-provider-list for loaded examples.)

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--description DESCRIPTION

Description for the flavor.

--enabled {True,False}

Sets enabled flag.

9.47. NEUTRON FLAVOR-DELETE

```
usage: neutron flavor-delete [-h] [--request-format {json}] FLAVOR
```

Delete a given Neutron service flavor.

Positional arguments

FLAVOR

ID or name of flavor to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.48. NEUTRON FLAVOR-DISASSOCIATE

```
usage: neutron flavor-disassociate [-h] [--request-format {json}]
FLAVOR FLAVOR_PROFILE
```

Disassociate a Neutron service flavor from a flavor profile.

Positional arguments

FLAVOR

Name or ID of the flavor.

FLAVOR_PROFILE

ID of the flavor profile to be disassociated from the flavor.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.49. NEUTRON FLAVOR-PROFILE-DELETE

```
usage: neutron flavor-profile-delete [-h] [--request-format {json}]
SERVICE_PROFILE
```

Delete a given Neutron service flavor profile.

Positional arguments

SERVICE_PROFILE

ID or name of service_profile to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.50. NEUTRON FLAVOR-PROFILE-SHOW

```
usage: neutron flavor-profile-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] SERVICE_PROFILE
```

Show information about a given Neutron service flavor profile.

Positional arguments**SERVICE_PROFILE**

ID or name of service_profile to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.51. NEUTRON FLAVOR-PROFILE-UPDATE

```
usage: neutron flavor-profile-update [-h] [--request-format {json}] [-  
-description DESCRIPTION] [--driver DRIVER] [--metainfo METAINFO] [--  
enabled {True,False}] SERVICE_PROFILE
```

Update a given Neutron service flavor profile.

Positional arguments

SERVICE_PROFILE

ID or name of service_profile to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--description DESCRIPTION

Description for the flavor profile.

--driver DRIVER

Python module path to driver.

--metainfo METAINFO

Metainfo for the flavor profile.

--enabled {True,False}

Sets enabled flag.

9.52. NEUTRON FLAVOR-SHOW

```
usage: neutron flavor-show [-h] [-f  
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width  
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-  
D] [-F FIELD] FLAVOR
```

Show information about a given Neutron service flavor.

Positional arguments

FLAVOR

ID or name of flavor to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.53. NEUTRON FLAVOR-UPDATE

```
usage: neutron flavor-update [-h] [--request-format {json}] [--name
NAME] [--description DESCRIPTION] [--enabled {True,False}] FLAVOR
```

Update a Neutron service flavor.

Positional arguments

FLAVOR

ID or name of flavor to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--name NAME

Name for the flavor.

--description DESCRIPTION

Description for the flavor.

--enabled {True,False}

Sets enabled flag.

9.54. NEUTRON FLOATINGIP-ASSOCIATE

```
usage: neutron floatingip-associate [-h] [--request-format {json}] [--
fixed-ip-address FIXED_IP_ADDRESS] FLOATINGIP_ID PORT
```

Create a mapping between a floating IP and a fixed IP.

Positional arguments

FLOATINGIP_ID

ID of the floating IP to associate.

PORT

ID or name of the port to be associated with the floating IP.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--fixed-ip-address FIXED_IP_ADDRESS

IP address on the port (only required if port has multiple IPs).

9.55. NEUTRON FLOATINGIP-CREATE

```
usage: neutron floatingip-create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
-tenant-id TENANT_ID] [--port-id PORT_ID] [--fixed-ip-address
FIXED_IP_ADDRESS] [--floating-ip-address FLOATING_IP_ADDRESS] [--subnet
SUBNET_ID] [--dns-domain DNS_DOMAIN] [--dns-name DNS_NAME]
FLOATING_NETWORK
```

Create a floating IP for a given tenant.

Positional arguments

FLOATING_NETWORK

Network name or ID to allocate floating IP from.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--port-id PORT_ID

ID of the port to be associated with the floating IP.

--fixed-ip-address FIXED_IP_ADDRESS

IP address on the port (only required if port has multiple IPs).

--floating-ip-address FLOATING_IP_ADDRESS

IP address of the floating IP

--subnet SUBNET_ID

Subnet ID on which you want to create the floating IP.

--dns-domain DNS_DOMAIN

Assign DNS domain to the floatingip (requires DNS integration extension)

- -dns-name DNS_NAME

Assign DNS name to the floatingip (requires DNS integration extension)

9.56. NEUTRON FLOATINGIP-DELETE

```
usage: neutron floatingip-delete [-h] [--request-format {json}]
FLOATINGIP
```

Delete a given floating IP.

Positional arguments

FLOATINGIP

ID of floatingip to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.57. NEUTRON FLOATINGIP-DISASSOCIATE

```
usage: neutron floatingip-disassociate [-h] [--request-format {json}]
FLOATINGIP_ID
```

Remove a mapping from a floating IP to a fixed IP.

Positional arguments

FLOATINGIP_ID

ID of the floating IP to disassociate.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.58. NEUTRON FLOATINGIP-SHOW

```
usage: neutron floatingip-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] FLOATINGIP
```

Show information of a given floating IP.

Positional arguments

FLOATINGIP

ID of floatingip to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.59. NEUTRON GATEWAY-DEVICE-CREATE

```
usage: neutron gateway-device-create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
-tenant-id TENANT_ID] [--connector-type
```

```
{stt,gre,ipsecre,ipsecestt,bridge,ipsecgre,ipsecstt}] --connector-ip
CONNECTOR_IP (--client-certificate CERT_DATA | --client-certificate-
file CERT_FILE) NAME
```

Create a network gateway device.

Positional arguments

NAME

Name of network gateway device to create.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--connector-type {stt,gre,ipsecre,ipsecestt,bridge,ipsecgre,ipsecstt}

Type of the transport zone connector to use for this device. Valid values are gre, stt, ipsecgre, ipsecstt, and bridge. Defaults to stt. ipsecgre and ipsecstt are also accepted as alternative names

--connector-ip CONNECTOR_IP

IP address for this device's transport connector. It must correspond to the IP address of the interface used for tenant traffic on the NSX gateway node.

--client-certificate CERT_DATA

PEM certificate used by the NSX gateway transport node to authenticate with the NSX controller.

--client-certificate-file CERT_FILE

File containing the PEM certificate used by the NSX gateway transport node to authenticate with the NSX controller.

9.60 NEUTRON GATEWAY-DEVICE-DELETE

9.60. NEUTRON GATEWAY-DEVICE-DELETE

```
usage: neutron gateway-device-delete [-h] [--request-format {json}]
GATEWAY_DEVICE
```

Delete a given network gateway device.

Positional arguments

GATEWAY_DEVICE

ID or name of gateway_device to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.61. NEUTRON GATEWAY-DEVICE-SHOW

```
usage: neutron gateway-device-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] GATEWAY_DEVICE
```

Show information for a given network gateway device.

Positional arguments

GATEWAY_DEVICE

ID or name of gateway_device to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.62. NEUTRON GATEWAY-DEVICE-UPDATE

```
usage: neutron gateway-device-update [-h] [--request-format {json}] [--name NAME] [--connector-type {stt,gre,ipsecgre,ipsecstt,bridge,ipsec_gre,ipsec_stt}] [--connector-ip CONNECTOR_IP] [--client-certificate CERT_DATA | --client-certificate-file CERT_FILE] GATEWAY_DEVICE
```

Update a network gateway device.

Positional arguments

GATEWAY_DEVICE

ID or name of gateway_device to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--name NAME

New name for network gateway device.

--connector-type {stt,gre,ipsecgre,ipsecstt,bridge,ipsec_gre,ipsec_stt}

Type of the transport zone connector to use for this device. Valid values are gre, stt, ipsec_gre, ipsec_stt, and bridge. Defaults to stt. ipsecgre and ipsecstt are also accepted as alternative names

--connector-ip CONNECTOR_IP

IP address for this device's transport connector. It must correspond to the IP address of the interface used for tenant traffic on the NSX gateway node.

--client-certificate CERT_DATA

PEM certificate used by the NSX gateway transport node to authenticate with the NSX controller.

--client-certificate-file CERT_FILE

File containing the PEM certificate used by the NSX gateway transport node to authenticate with the NSX controller.

9.63. NEUTRON IPSEC-SITE-CONNECTION-DELETE

```
usage: neutron ipsec-site-connection-delete [-h] [--request-format
{json}] IPSEC_SITE_CONNECTION
```

Delete a given IPsec site connection.

Positional arguments

IPSEC_SITE_CONNECTION

ID or name of IPsec site connection to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.64. NEUTRON IPSEC-SITE-CONNECTION-SHOW

```
usage: neutron ipsec-site-connection-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] IPSEC_SITE_CONNECTION
```

Show information of a given IPsec site connection.

Positional arguments

IPSEC_SITE_CONNECTION

ID or name of IPsec site connection to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.65. NEUTRON IPSEC-SITE-CONNECTION-UPDATE

```
usage: neutron ipsec-site-connection-update [-h] [--request-format
{json}] [--dpd action=ACTION,interval=INTERVAL,timeout=TIMEOUT] [--
local-ep-group LOCAL_EP_GROUP] [--peer-ep-group PEER_EP_GROUP]
IPSEC_SITE_CONNECTION
```

Update a given IPsec site connection.

Positional arguments

IPSEC_SITE_CONNECTION

ID or name of IPsec site connection to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--dpd

action=ACTION,interval=INTERVAL,timeout=TIMEOUT Ipsec connection. Dead Peer Detection attributes. 'action'-hold,clear,disabled,restart,restart-by-peer. 'interval' and 'timeout' are non negative integers. 'interval' should be less than 'timeout' value. 'action', default:hold 'interval', default:30, 'timeout', default:120.

--local-ep-group LOCAL_EP_GROUP

Local endpoint group ID/name with subnet(s) for IPsec connection.

--peer-ep-group PEER_EP_GROUP

Peer endpoint group ID/name with CIDR(s) for IPsec connection.

9.66. NEUTRON L3-AGENT-LIST-HOSTING-ROUTER

```
usage: neutron l3-agent-list-hosting-router [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}] [--
request-format {json}] [-D] [-F FIELD] ROUTER
```

List L3 agents hosting a router.

Positional arguments**ROUTER**

Router to query.

Optional arguments**-h, --help**

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.67. NEUTRON L3-AGENT-ROUTER-ADD

```
usage: neutron l3-agent-router-add [-h] [--request-format {json}]
L3_AGENT ROUTER
```

Add a router to a L3 agent.

Positional arguments

L3_AGENT

ID of the L3 agent.

ROUTER

Router to add.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.68. NEUTRON L3-AGENT-ROUTER-REMOVE

```
usage: neutron l3-agent-router-remove [-h] [--request-format {json}]
L3_AGENT ROUTER
```

Remove a router from a L3 agent.

Positional arguments

L3_AGENT

ID of the L3 agent.

ROUTER

Router to remove.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.69. NEUTRON LB-AGENT-HOSTING-POOL

```
usage: neutron lb-agent-hosting-pool [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}] [--
request-format {json}] [-D] [-F FIELD] POOL
```

Get loadbalancer agent hosting a pool. Deriving from ListCommand though server will return only one agent to keep common output format for all agent schedulers

Positional arguments

POOL

Pool to query.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.70. NEUTRON LB-HEALTHMONITOR-ASSOCIATE

```
usage: neutron lb-healthmonitor-associate [-h] [--request-format
{json}] HEALTH_MONITOR_ID POOL
```

Create a mapping between a health monitor and a pool.

Positional arguments

HEALTH_MONITOR_ID

Health monitor to associate.

POOL

ID of the pool to be associated with the health monitor.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.71. NEUTRON LB-HEALTHMONITOR-DELETE

```
usage: neutron lb-healthmonitor-delete [-h] [--request-format {json}]
HEALTH_MONITOR
```

Delete a given health monitor.

Positional arguments

HEALTH_MONITOR

ID of health_monitor to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.72. NEUTRON LB-HEALTHMONITOR-DISASSOCIATE

```
usage: neutron lb-healthmonitor-disassociate [-h] [--request-format
{json}] HEALTH_MONITOR_ID POOL
```

Remove a mapping from a health monitor to a pool.

Positional arguments

HEALTH_MONITOR_ID

Health monitor to associate.

POOL

ID of the pool to be associated with the health monitor.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.73. NEUTRON LB-HEALTHMONITOR-SHOW

```
usage: neutron lb-healthmonitor-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] HEALTH_MONITOR
```

Show information of a given health monitor.

Positional arguments

HEALTH_MONITOR

ID of health_monitor to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.74. NEUTRON LB-HEALTHMONITOR-UPDATE

```
usage: neutron lb-healthmonitor-update [-h] [--request-format {json}]
HEALTH_MONITOR
```

Update a given health monitor.

Positional arguments

HEALTH_MONITOR

ID of health_monitor to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.75. NEUTRON LB-MEMBER-CREATE

```
usage: neutron lb-member-create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
-tenant-id TENANT_ID] [--admin-state-down] [--weight WEIGHT] --address
ADDRESS --protocol-port PROTOCOL_PORT POOL
```

Create a member.

Positional arguments

POOL

Pool ID or name this vip belongs to.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--admin-state-down

Set admin state up to false.

--weight WEIGHT

Weight of pool member in the pool (default:1, [0..256]).

--address ADDRESS

IP address of the pool member on the pool network.

--protocol-port PROTOCOL_PORT

Port on which the pool member listens for requests or connections.

9.76. NEUTRON LB-MEMBER-DELETE

```
usage: neutron lb-member-delete [-h] [--request-format {json}] MEMBER
```

Delete a given member.

Positional arguments

MEMBER

ID or name of member to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.77. NEUTRON LB-MEMBER-SHOW

```
usage: neutron lb-member-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] MEMBER
```

Show information of a given member.

Positional arguments

MEMBER

ID of member to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.78. NEUTRON LB-MEMBER-UPDATE

```
usage: neutron lb-member-update [-h] [--request-format {json}] MEMBER
```

Update a given member.

Positional arguments

MEMBER

ID or name of member to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.79. NEUTRON LB-POOL-DELETE

```
usage: neutron lb-pool-delete [-h] [--request-format {json}] POOL
```

Delete a given pool.

Positional arguments

POOL

ID or name of pool to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.80. NEUTRON LB-POOL-LIST-ON-AGENT

```
usage: neutron lb-pool-list-on-agent [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}] [--
request-format {json}] [-D] [-F FIELD] LBAAS_AGENT
```

List the pools on a loadbalancer agent.

Positional arguments

LBAAS_AGENT

ID of the loadbalancer agent to query.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.81. NEUTRON LB-POOL-SHOW

```
usage: neutron lb-pool-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] POOL
```

Show information of a given pool.

Positional arguments

POOL

ID or name of pool to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.82. NEUTRON LB-POOL-STATS

```
usage: neutron lb-pool-stats [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] POOL
```

Retrieve stats for a given pool.

Positional arguments

POOL

ID or name of pool to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.83. NEUTRON LB-POOL-UPDATE

```
usage: neutron lb-pool-update [-h] [--request-format {json}] POOL
```

Update a given pool.

Positional arguments

POOL

ID or name of pool to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.84. NEUTRON LB-VIP-CREATE

```
usage: neutron lb-vip-create [-h] [-f {html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width <integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-tenant-id TENANT_ID] [--address ADDRESS] [--admin-state-down] [--connection-limit CONNECTION_LIMIT] [--description DESCRIPTION] --name NAME --protocol-port PROTOCOL_PORT --protocol {TCP,HTTP,HTTPS} --subnet-id SUBNET POOL
```

Create a vip.

Positional arguments

POOL

Pool ID or name this vip belongs to.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--address ADDRESS

IP address of the vip.

--admin-state-down

Set admin state up to false.

--connection-limit CONNECTION_LIMIT

The maximum number of connections per second allowed for the vip. Positive integer or -1 for unlimited (default).

--description DESCRIPTION

Description of the vip.

--name NAME

Name of the vip.

--protocol-port PROTOCOL_PORT

TCP port on which to listen for client traffic that is associated with the vip address.

--protocol {TCP,HTTP,HTTPS}

Protocol for balancing.

--subnet-id SUBNET

The subnet on which to allocate the vip address.

9.85. NEUTRON LB-VIP-DELETE

■

```
usage: neutron lb-vip-delete [-h] [--request-format {json}] VIP
```

Delete a given vip.

Positional arguments

VIP

ID or name of vip to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.86. NEUTRON LB-VIP-SHOW

```
usage: neutron lb-vip-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] VIP
```

Show information of a given vip.

Positional arguments

VIP

ID or name of vip to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.87. NEUTRON LB-VIP-UPDATE

```
usage: neutron lb-vip-update [-h] [--request-format {json}] VIP
```

Update a given vip.

Positional arguments

VIP

ID or name of vip to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.88. NEUTRON LBAAS-AGENT-HOSTING-LOADBALANCER

```
usage: neutron lbaas-agent-hosting-loadbalancer [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}] [--
request-format {json}] [-D] [-F FIELD] LOADBALANCER
```

Get lbaas v2 agent hosting a loadbalancer. Deriving from ListCommand though server will return only one agent to keep common output format for all agent schedulers

Positional arguments

LOADBALANCER

LoadBalancer to query.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.89. NEUTRON LBAAS-HEALTHMONITOR-DELETE

```
usage: neutron lbaas-healthmonitor-delete [-h] [--request-format
{json}] HEALTHMONITOR
```

LBaaS v2 Delete a given healthmonitor.

Positional arguments

HEALTHMONITOR

ID or name of healthmonitor to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.90. NEUTRON LBAAS-HEALTHMONITOR-SHOW

```
usage: neutron lbaas-healthmonitor-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] HEALTHMONITOR
```

LBaaS v2 Show information of a given healthmonitor.

Positional arguments

HEALTHMONITOR

ID or name of healthmonitor to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.91. NEUTRON LBAAS-HEALTHMONITOR-UPDATE

```
usage: neutron lbaas-healthmonitor-update [-h] [--request-format
{json}] [--name NAME] HEALTHMONITOR
```

LBaaS v2 Update a given healthmonitor.

Positional arguments

HEALTHMONITOR

ID or name of healthmonitor to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

- -name NAME

Updated name of the health monitor.

9.92. NEUTRON LBAAS-L7POLICY-DELETE

```
usage: neutron lbaas-l7policy-delete [-h] [--request-format {json}]
L7POLICY
```

LBaaS v2 Delete a given L7 policy.

Positional arguments

L7POLICY

ID or name of l7policy to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.93. NEUTRON LBAAS-L7POLICY-SHOW

```
usage: neutron lbaas-l7policy-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] L7POLICY
```

LBaaS v2 Show information of a given L7 policy.

Positional arguments

L7POLICY

ID or name of l7policy to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.94. NEUTRON LBAAS-L7POLICY-UPDATE

```
usage: neutron lbaas-l7policy-update [-h] [--request-format {json}] [--name NAME] [--description DESCRIPTION] [--action ACTION] [--redirect-pool REDIRECT_POOL] [--redirect-url REDIRECT_URL] [--position POSITION] [--admin-state-up {True,False}] L7POLICY
```

LBaaS v2 Update a given L7 policy.

Positional arguments

L7POLICY

ID or name of l7policy to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--name NAME

Name of the policy.

--description DESCRIPTION

Description of the policy.

--action ACTION

Action type of the policy.

--redirect-pool REDIRECT_POOL

ID or name of the pool for REDIRECT_TO_POOL action type.

--redirect-url REDIRECT_URL

URL for REDIRECT_TO_URL action type. This should be a valid URL string.

--position POSITION

L7 policy position in ordered policies list. This must be an integer starting from 1. Not specifying the position will place the policy at the tail of existing policies list.

--admin-state-up {True,False}

Specify the administrative state of the policy (True meaning "Up").

9.95. NEUTRON LBaaS-L7RULE-CREATE

```
usage: neutron lbaas-l7rule-create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
tenant-id TENANT_ID] --type {HOST_NAME,PATH,FILE_TYPE,HEADER,COOKIE} -
compare-type {REGEX,STARTS_WITH,ENDS_WITH,CONTAINS,EQUAL_TO} [--
invert-compare] [--key KEY] --value VALUE [--admin-state-down] L7POLICY
```

LBaaS v2 Create L7 rule.

Positional arguments

L7POLICY

ID or name of L7 policy this rule belongs to.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--type {HOST_NAME, PATH, FILE_TYPE, HEADER, COOKIE}

Rule type.

--compare-type {REGEX, STARTS_WITH, ENDS_WITH, CONTAINS, EQUAL_TO}

Rule compare type.

--invert-compare

Invert the compare type.

--key KEY

Key to compare. Relevant for HEADER and COOKIE types only.

--value VALUE

Value to compare.

--admin-state-down

Set admin state up to false

9.96. NEUTRON LBAAS-L7RULE-DELETE

```
usage: neutron lbaas-l7rule-delete [-h] [--request-format {json}] RULE
L7POLICY
```

LBaaS v2 Delete a given L7 rule.

Positional arguments

RULE

ID or name of rule to delete.

L7POLICY

ID or name of L7 policy this rule belongs to.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.97. NEUTRON LBAAS-L7RULE-LIST

```
usage: neutron lbaas-l7rule-list [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}] [--
request-format {json}] [-D] [-F FIELD] [-P SIZE] [--sort-key FIELD] [-
-sort-dir {asc,desc}] L7POLICY
```

LBaaS v2 List L7 rules that belong to a given L7 policy.

Positional arguments

L7POLICY

ID or name of L7 policy this rule belongs to.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

-P SIZE, --page-size SIZE

Specify retrieve unit of each request, then split one request to several requests.

--sort-key FIELD

Sorts the list by the specified fields in the specified directions. You can repeat this option, but you must specify an equal number of sort_dir and sort_key values. Extra sort_dir options are ignored. Missing sort_dir options use the default asc value.

--sort-dir {asc,desc}

Sorts the list in the specified direction. You can repeat this option.

9.98. NEUTRON LBAAS-L7RULE-SHOW

```
usage: neutron lbaas-l7rule-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] RULE L7POLICY
```

LBaaS v2 Show information of a given rule.

Positional arguments**RULE**

ID or name of rule to look up.

L7POLICY

ID or name of L7 policy this rule belongs to.

Optional arguments**-h, --help**

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.99. NEUTRON LBAAS-L7RULE-UPDATE

```
usage: neutron lbaas-l7rule-update [-h] [--request-format {json}] [--type {HOST_NAME,PATH,FILE_TYPE,HEADER,COOKIE}] [--compare-type {REGEX,STARTS_WITH,ENDS_WITH,CONTAINS,EQUAL_TO}] [--invert-compare] [--key KEY] [--value VALUE] [--admin-state-up {True,False}] RULE L7POLICY
```

LBaaS v2 Update a given L7 rule.

Positional arguments

RULE

ID or name of rule to update.

L7POLICY

ID or name of L7 policy this rule belongs to.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--type {HOST_NAME,PATH,FILE_TYPE,HEADER,COOKIE}

Rule type.

--compare-type {REGEX,STARTS_WITH,ENDS_WITH,CONTAINS,EQUAL_TO}

Rule compare type.

--invert-compare

Invert the compare type.

--key KEY

Key to compare. Relevant for HEADER and COOKIE types only.

--value VALUE

Value to compare.

--admin-state-up {True,False}

Specify the administrative state of the rule (True meaning "Up").

9.100. NEUTRON LBAAS-LISTENER-DELETE

```
usage: neutron lbaas-listener-delete [-h] [--request-format {json}]
LISTENER
```

LBaaS v2 Delete a given listener.

Positional arguments

LISTENER

ID or name of listener to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.101. NEUTRON LBAAS-LISTENER-SHOW

```
usage: neutron lbaas-listener-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] LISTENER
```

LBaaS v2 Show information of a given listener.

Positional arguments

LISTENER

ID or name of listener to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.102. NEUTRON LBAAS-LISTENER-UPDATE

```
usage: neutron lbaas-listener-update [-h] [--request-format {json}]
LISTENER
```

LBaaS v2 Update a given listener.

Positional arguments

LISTENER

ID of listener to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.103. NEUTRON LBAAS-LOADBALANCER-CREATE

```
usage: neutron lbaas-loadbalancer-create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
tenant-id TENANT_ID] [--description DESCRIPTION] [--admin-state-down]
```



```
[--name NAME] [--provider PROVIDER] [--flavor FLAVOR] [--vip-address
VIP_ADDRESS] VIP_SUBNET
```

LBaaS v2 Create a loadbalancer.

Positional arguments

VIP_SUBNET

Load balancer VIP subnet.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--description DESCRIPTION

Description of the load balancer.

--admin-state-down

Set admin state up to false.

--name NAME

Name of the load balancer.

--provider PROVIDER

Provider name of load balancer service.

--flavor FLAVOR

ID or name of flavor.

--vip-address VIP_ADDRESS

VIP address for the load balancer.

9.104. NEUTRON LBAAS-LOADBALANCER-DELETE

```
usage: neutron lbaas-loadbalancer-delete [-h] [--request-format {json}]
LOADBALANCER
```

LBaaS v2 Delete a given loadbalancer.

Positional arguments

LOADBALANCER

ID or name of loadbalancer to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.105. NEUTRON LBAAS-LOADBALANCER-LIST-ON-AGENT

```
usage: neutron lbaas-loadbalancer-list-on-agent [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}] [--
request-format {json}] [-D] [-F FIELD] LBAAS_AGENT
```

List the loadbalancers on a loadbalancer v2 agent.

Positional arguments

LBAAS_AGENT

ID of the loadbalancer agent to query.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.106. NEUTRON LBAAS-LOADBALANCER-SHOW

```
usage: neutron lbaas-loadbalancer-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] LOADBALANCER
```

LBaaS v2 Show information of a given loadbalancer.

Positional arguments

LOADBALANCER

ID or name of loadbalancer to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.107. NEUTRON LBAAS-LOADBALANCER-STATS

```
usage: neutron lbaas-loadbalancer-stats [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] LOADBALANCER
```

Retrieve stats for a given loadbalancer.

Positional arguments

LOADBALANCER

ID or name of loadbalancer to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.108. NEUTRON LBAAS-LOADBALANCER-STATUS

```
usage: neutron lbaas-loadbalancer-status [-h] [--request-format {json}]
LOADBALANCER
```

Retrieve status for a given loadbalancer. The only output is a formatted JSON tree, and the table format does not support this type of data.

Positional arguments

LOADBALANCER

ID or name of loadbalancer to show.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.109. NEUTRON LBAAS-LOADBALANCER-UPDATE

```
usage: neutron lbaas-loadbalancer-update [-h] [--request-format {json}]
LOADBALANCER
```

LBaaS v2 Update a given loadbalancer.

Positional arguments

LOADBALANCER

ID or name of loadbalancer to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.110. NEUTRON LBAAS-MEMBER-CREATE

```
usage: neutron lbaas-member-create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
tenant-id TENANT_ID] [--admin-state-down] [--weight WEIGHT] [--name
NAME] --subnet SUBNET --address ADDRESS --protocol-port PROTOCOL_PORT
POOL
```

LBaaS v2 Create a member.

Positional arguments

POOL

ID or name of the pool that this member belongs to.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--admin-state-down

Set admin state up to false

--weight WEIGHT

Weight of member in the pool (default:1, [0..256]).

--name NAME

Name of the member to be created.

--subnet SUBNET

Subnet ID or name for the member.

--address ADDRESS

IP address of the pool member in the pool.

--protocol-port PROTOCOL_PORT

Port on which the pool member listens for requests or connections.

9.111. NEUTRON LBAAS-MEMBER-DELETE

```
usage: neutron lbaas-member-delete [-h] [--request-format {json}]
MEMBER POOL
```

LBaaS v2 Delete a given member.

Positional arguments**MEMBER**

ID or name of member to delete.

POOL

ID or name of the pool that this member belongs to.

Optional arguments**-h, --help**

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.112. NEUTRON LBAAS-MEMBER-LIST

```
usage: neutron lbaas-member-list [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}] [--
request-format {json}] [-D] [-F FIELD] [-P SIZE] [--sort-key FIELD] [-
-sort-dir {asc,desc}] POOL
```

LBaaS v2 List members that belong to a given pool.

Positional arguments**POOL**

ID or name of the pool that this member belongs to.

Optional arguments**-h, --help**

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

-P SIZE, --page-size SIZE

Specify retrieve unit of each request, then split one request to several requests.

--sort-key FIELD

Sorts the list by the specified fields in the specified directions. You can repeat this option, but you must specify an equal number of sort_dir and sort_key values. Extra sort_dir options are ignored. Missing sort_dir options use the default asc value.

--sort-dir {asc,desc}

Sorts the list in the specified direction. You can repeat this option.

9.113. NEUTRON LBAAS-MEMBER-SHOW

```
usage: neutron lbaas-member-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] MEMBER POOL
```

LBaaS v2 Show information of a given member.

Positional arguments

MEMBER

ID or name of member to look up.

POOL

ID or name of the pool that this member belongs to.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.114. NEUTRON LBaaS-MEMBER-UPDATE

```
usage: neutron lbaas-member-update [-h] [--request-format {json}] [--
admin-state-down] [--weight WEIGHT] [--name NAME] MEMBER POOL
```

LBaaS v2 Update a given member.

Positional arguments

MEMBER

ID or name of member to update.

POOL

ID or name of the pool that this member belongs to

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--admin-state-down

Set admin state up to false

--weight WEIGHT

Weight of member in the pool (default:1, [0..256])

--name NAME

Updated name of the member.

9.115. NEUTRON LBAAS-POOL-DELETE

```
usage: neutron lbaas-pool-delete [-h] [--request-format {json}] POOL
```

LBaaS v2 Delete a given pool.

Positional arguments

POOL

ID or name of pool to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.116. NEUTRON LBAAS-POOL-SHOW

```
usage: neutron lbaas-pool-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] POOL
```

LBaaS v2 Show information of a given pool.

Positional arguments

POOL

ID or name of pool to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.117. NEUTRON LBaaS-POOL-UPDATE

```
usage: neutron lbaas-pool-update [-h] [--request-format {json}] POOL
```

LBaaS v2 Update a given pool.

Positional arguments

POOL

ID or name of pool to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.118. NEUTRON METER-LABEL-CREATE

```
usage: neutron meter-label-create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
tenant-id TENANT_ID] [--description DESCRIPTION] [--shared] NAME
```

Create a metering label for a given tenant.

Positional arguments

NAME

Name of metering label to create.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--description DESCRIPTION

Description of metering label to create.

--shared

Set the label as shared.

9.119. NEUTRON METER-LABEL-DELETE

```
usage: neutron meter-label-delete [-h] [--request-format {json}]  
METERING_LABEL
```

Delete a given metering label.

Positional arguments

METERING_LABEL

ID or name of metering_label to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.120. NEUTRON METER-LABEL-RULE-CREATE

```
usage: neutron meter-label-rule-create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
-tenant-id TENANT_ID] [--direction {ingress,egress}] [--excluded] LABEL
REMOTE_IP_PREFIX
```

Create a metering label rule for a given label.

Positional arguments

LABEL

Id or Name of the label.

REMOTE_IP_PREFIX

CIDR to match on.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--direction {ingress,egress}

Direction of traffic, default: ingress.

--excluded

Exclude this CIDR from the label, default: not excluded.

9.121. NEUTRON METER-LABEL-RULE-DELETE

```
usage: neutron meter-label-rule-delete [-h] [--request-format {json}]
METERING_LABEL_RULE
```

Delete a given metering label.

Positional arguments

METERING_LABEL_RULE

ID or name of metering_label_rule to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.122. NEUTRON METER-LABEL-RULE-SHOW

```
usage: neutron meter-label-rule-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] METERING_LABEL_RULE
```

Show information of a given metering label rule.

Positional arguments

METERING_LABEL_RULE

ID or name of metering_label_rule to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.123. NEUTRON METER-LABEL-SHOW

```
usage: neutron meter-label-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] METERING_LABEL
```

Show information of a given metering label.

Positional arguments**METERING_LABEL**

ID or name of metering_label to look up.

Optional arguments**-h, --help**

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.124. NEUTRON NET-CREATE

```
usage: neutron net-create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
```

```
-tenant-id TENANT_ID] [--admin-state-down] [--shared] [--  
provider:network_type <network_type>] [--provider:physical_network  
<physical_network_name>] [--provider:segmentation_id <segmentation_id>]  
[--vlan-transparent {True,False}] [--qos-policy QOS_POLICY] [--  
availability-zone-hint AVAILABILITY_ZONE] [--dns-domain DNS_DOMAIN]  
NAME
```

Create a network for a given tenant.

Positional arguments

NAME

Name of network to create.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--admin-state-down

Set admin state up to false.

--shared

Set the network as shared.

--provider:network_type <network_type>

The physical mechanism by which the virtual network is implemented.

--provider:physical_network <physical_network_name>

Name of the physical network over which the virtual network is implemented.

--provider:segmentation_id <segmentation_id>

VLAN ID for VLAN networks or tunnel-id for GRE/VXLAN networks.

--vlan-transparent {True,False}

Create a vlan transparent network.

--qos-policy QOS_POLICY

Attach QoS policy ID or name to the resource.

--availability-zone-hint AVAILABILITY_ZONE

Availability Zone for the network (requires availability zone extension, this option can be repeated).

--dns-domain DNS_DOMAIN

Assign DNS domain to the network (requires DNS integration extension)

9.125. NEUTRON NET-DELETE

```
usage: neutron net-delete [-h] [--request-format {json}] NETWORK
```

Delete a given network.

Positional arguments

NETWORK

ID or name of network to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.126. NEUTRON NET-GATEWAY-CONNECT

```
usage: neutron net-gateway-connect [-h] [--request-format {json}] [--segmentation-type SEGMENTATION_TYPE] [--segmentation-id SEGMENTATION_ID] NET-GATEWAY-ID NETWORK-ID
```

Add an internal network interface to a router.

Positional arguments

NET-GATEWAY-ID

ID of the network gateway.

NETWORK-ID

ID of the internal network to connect on the gateway.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--segmentation-type SEGMENTATION_TYPE

L2 segmentation strategy on the external side of the gateway (e.g.: VLAN, FLAT).

--segmentation-id SEGMENTATION_ID

Identifier for the L2 segment on the external side of the gateway.

9.127. NEUTRON NET-GATEWAY-CREATE

```
usage: neutron net-gateway-create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
tenant-id TENANT_ID] [--device id=ID,interface_name=NAME_OR_ID] NAME
```

Create a network gateway.

Positional arguments

NAME

Name of network gateway to create.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--device

id=ID,interface_name=NAME_OR_ID Device info for this gateway. You can repeat this option for multiple devices for HA gateways.

9.128. NEUTRON NET-GATEWAY-DELETE

```
usage: neutron net-gateway-delete [-h] [--request-format {json}]
NETWORK_GATEWAY
```

Delete a given network gateway.

Positional arguments

NETWORK_GATEWAY

ID or name of network_gateway to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.129. NEUTRON NET-GATEWAY-DISCONNECT

```
usage: neutron net-gateway-disconnect [-h] [--request-format {json}] [-
-segmentation-type SEGMENTATION_TYPE] [--segmentation-id
SEGMENTATION_ID] NET-GATEWAY-ID NETWORK-ID
```

Remove a network from a network gateway.

Positional arguments

NET-GATEWAY-ID

ID of the network gateway.

NETWORK-ID

ID of the internal network to connect on the gateway.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--segmentation-type SEGMENTATION_TYPE

L2 segmentation strategy on the external side of the gateway (e.g.: VLAN, FLAT).

--segmentation-id SEGMENTATION_ID

Identifier for the L2 segment on the external side of the gateway.

9.130. NEUTRON NET-GATEWAY-SHOW

```
usage: neutron net-gateway-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] NETWORK_GATEWAY
```

Show information of a given network gateway.

Positional arguments

NETWORK_GATEWAY

ID or name of network_gateway to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.131. NEUTRON NET-GATEWAY-UPDATE

```
usage: neutron net-gateway-update [-h] [--request-format {json}]
NETWORK_GATEWAY
```

Update the name for a network gateway.

Positional arguments

NETWORK_GATEWAY

ID or name of network_gateway to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.132. NEUTRON NET-IP-AVAILABILITY-SHOW

```
usage: neutron net-ip-availability-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}]
NETWORK
```

Show IP usage of specific network

Positional arguments

NETWORK

ID or name of network to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.133. NEUTRON NET-LIST-ON-DHCP-AGENT

```
usage: neutron net-list-on-dhcp-agent [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}] [--
request-format {json}] [-D] [-F FIELD] [-P SIZE] [--sort-key FIELD] [-
-sort-dir {asc,desc}] [--tenant-id TENANT_ID] [--name NAME] [--admin-
state-up {True,False}] [--status STATUS] [--shared {True,False}] [--
router:external {True,False}] [--tags TAG] [--tags-any TAG] [--not-tags
TAG] [--not-tags-any TAG] DHCP_AGENT
```

List the networks on a DHCP agent.

Positional arguments

DHCP_AGENT

ID of the DHCP agent.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

-P SIZE, --page-size SIZE

Specify retrieve unit of each request, then split one request to several requests.

--sort-key FIELD

Sorts the list by the specified fields in the specified directions. You can repeat this option, but you must specify an equal number of sort_dir and sort_key values. Extra sort_dir options are ignored. Missing sort_dir options use the default asc value.

--sort-dir {asc,desc}

Sorts the list in the specified direction. You can repeat this option.

9.134. NEUTRON NET-SHOW

```
usage: neutron net-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] NETWORK
```

Show information of a given network.

Positional arguments**NETWORK**

ID or name of network to look up.

Optional arguments**-h, --help**

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.135. NEUTRON NET-UPDATE

```
usage: neutron net-update [-h] [--request-format {json}] [--qos-policy
QOS_POLICY | --no-qos-policy] [--dns-domain DNS_DOMAIN | --no-dns-
domain] NETWORK
```

Update network's information.

Positional arguments

NETWORK

ID or name of network to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--qos-policy QOS_POLICY

Attach QoS policy ID or name to the resource.

--no-qos-policy

Detach QoS policy from the resource.

--dns-domain DNS_DOMAIN

Assign DNS domain to the network (requires DNS integration extension.)

--no-dns-domain

Unassign DNS domain from the network (requires DNS integration extension.)

9.136. NEUTRON NETWORK-TEMPLATE-ASSIGNMENTS-CREATE

```
usage: neutron network-template-assignments-create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
tenant-id TENANT_ID] template-id stack-id
```

[bsn_extensions] Create a Network Template Assignment.

Positional arguments

template-id

ID of the network template associated with this tenant.

stack-id

ID of the heat template associated with this tenant.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

9.137. NEUTRON NETWORK-TEMPLATE-ASSIGNMENTS-DELETE

```
usage: neutron network-template-assignments-delete [-h] [--request-
format {json}] NETWORKTEMPLATEASSIGNMENT
```

[bsn_extensions] Delete a Network Template Assignment.

Positional arguments

NETWORKTEMPLATEASSIGNMENT

ID or name of networktemplateassignment to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.138. NEUTRON NETWORK-TEMPLATE-ASSIGNMENTS-SHOW

```
usage: neutron network-template-assignments-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] NETWORKTEMPLATEASSIGNMENT
```

[bsn_extensions] Show a Network Template Assignment.

Positional arguments

NETWORKTEMPLATEASSIGNMENT

ID or name of networktemplateassignment to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.139. NEUTRON NETWORK-TEMPLATE-ASSIGNMENTS-UPDATE

```
usage: neutron network-template-assignments-update [-h] [--request-format {json}] NETWORKTEMPLATEASSIGNMENT template-id stack-id
```

[bsn_extensions] Update a Network Template Assignment.

Positional arguments

NETWORKTEMPLATEASSIGNMENT

ID of networktemplateassignment to update.

template-id

ID of the network template associated with this tenant.

stack-id

ID of the heat template associated with this tenant.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.140. NEUTRON NETWORK-TEMPLATES-CREATE

```
usage: neutron network-templates-create [-h] [-f {html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width <integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-tenant-id TENANT_ID] name body
```

[bsn_extensions] Create a Network Template.

Positional arguments

name

Name of this network template.

body

Body of this network template.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

9.141. NEUTRON NETWORK-TEMPLATES-DELETE

```
usage: neutron network-templates-delete [-h] [--request-format {json}]
NETWORKTEMPLATE
```

[bsn_extensions] Delete a network template.

Positional arguments

NETWORKTEMPLATE

ID or name of networktemplate to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.142. NEUTRON NETWORK-TEMPLATES-SHOW

```
usage: neutron network-templates-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] NETWORKTEMPLATE
```

[bsn_extensions] Show a network template.

Positional arguments

NETWORKTEMPLATE

ID or name of networktemplate to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.143. NEUTRON NETWORK-TEMPLATES-UPDATE

```
usage: neutron network-templates-update [-h] [--request-format {json}]
NETWORKTEMPLATE name body
```

[bsn_extensions] Update a network template.

Positional arguments

NETWORKTEMPLATE

ID or name of networktemplate to update.

name

Name of this network template.

body

Body of this network template.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.144. NEUTRON PORT-CREATE

```
usage: neutron port-create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
tenant-id TENANT_ID] [--name NAME] [--fixed-ip
subnet_id=SUBNET,ip_address=IP_ADDR] [--device-id DEVICE_ID] [--device-
owner DEVICE_OWNER] [--admin-state-down] [--mac-address MAC_ADDRESS] [-
vnic-type <direct | direct-physical | macvtap | normal | baremetal>]
[--binding-profile BINDING_PROFILE] [--security-group SECURITY_GROUP |
--no-security-groups] [--extra-dhcp-opt EXTRA_DHCP_OPTS] [--qos-policy
QOS_POLICY] [--allowed-address-pair
ip_address=IP_ADDR[,mac_address=MAC_ADDR] | --no-allowed-address-pairs]
[--dns-name DNS_NAME] NETWORK
```

Create a port for a given tenant.

Positional arguments

NETWORK

Network ID or name this port belongs to.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--name NAME

Name of this port.

--fixed-ip

subnet_id=SUBNET,ip_address=IP_ADDR Desired IP and/or subnet for this port:
subnet_id=<name_or_id>,ip_address=<ip>. You can repeat this option.

--device-id DEVICE_ID

Device ID of this port.

--device-owner DEVICE_OWNER

Device owner of this port.

--admin-state-down

Set admin state up to false.

--mac-address MAC_ADDRESS

MAC address of this port.

--vnic-type <direct | direct-physical | macvtap | normal | baremetal>

VNIC type for this port.

--binding-profile BINDING_PROFILE

Custom data to be passed as binding:profile.

--security-group SECURITY_GROUP

Security group associated with the port. You can repeat this option.

--no-security-groups

Associate no security groups with the port.

--extra-dhcp-opt EXTRA_DHCP_OPTS

Extra dhcp options to be assigned to this port: opt_name=<dhcp_option_name>,opt_value=<value>,ip_version={4, 6}. You can repeat this option.

--qos-policy QOS_POLICY

Attach QoS policy ID or name to the resource.

--allowed-address-pair

ip_address=IP_ADDR[,mac_address=MAC_ADDR] Allowed address pair associated with the port. You can repeat this option.

--no-allowed-address-pairs

Associate no allowed address pairs with the port.

--dns-name DNS_NAME

Assign DNS name to the port (requires DNS integration extension)

9.145. NEUTRON PORT-DELETE

```
usage: neutron port-delete [-h] [--request-format {json}] PORT
```

Delete a given port.

Positional arguments**PORT**

ID or name of port to delete.

Optional arguments**-h, --help**

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.146. NEUTRON PORT-SHOW

```
usage: neutron port-show [-h] [-f {html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width <integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-D] [-F FIELD] PORT
```

Show information of a given port.

Positional arguments

PORT

ID or name of port to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.147. NEUTRON PORT-UPDATE

```
usage: neutron port-update [-h] [--request-format {json}] [--name
NAME] [--fixed-ip subnet_id=SUBNET,ip_address=IP_ADDR] [--device-id
DEVICE_ID] [--device-owner DEVICE_OWNER] [--admin-state-up
{True,False}] [--security-group SECURITY_GROUP | --no-security-groups]
[--extra-dhcp-opt EXTRA_DHCP_OPTS] [--qos-policy QOS_POLICY | --no-qos-
policy] [--allowed-address-pair
ip_address=IP_ADDR[,mac_address=MAC_ADDR] | --no-allowed-address-pairs]
[--dns-name DNS_NAME | --no-dns-name] PORT
```

Update port's information.

Positional arguments**PORT**

ID or name of port to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--name NAME

Name of this port.

--fixed-ip

subnet_id=SUBNET,ip_address=IP_ADDR Desired IP and/or subnet for this port:
subnet_id=<name_or_id>,ip_address=<ip>. You can repeat this option.

--device-id DEVICE_ID

Device ID of this port.

--device-owner DEVICE_OWNER

Device owner of this port.

--admin-state-up {True,False}

Set admin state up for the port.

--security-group SECURITY_GROUP

Security group associated with the port. You can repeat this option.

--no-security-groups

Associate no security groups with the port.

--extra-dhcp-opt EXTRA_DHCP_OPTS

Extra dhcp options to be assigned to this port: opt_name=<dhcp_option_name>,opt_value=<value>,ip_version={4, 6}. You can repeat this option.

--qos-policy QOS_POLICY

Attach QoS policy ID or name to the resource.

--no-qos-policy

Detach QoS policy from the resource.

--allowed-address-pair

`ip_address=IP_ADDR[,mac_address=MAC_ADDR]` Allowed address pair associated with the port. You can repeat this option.

--no-allowed-address-pairs

Associate no allowed address pairs with the port.

--dns-name DNS_NAME

Assign DNS name to the port (requires DNS integration extension.)

--no-dns-name

Unassign DNS name from the port (requires DNS integration extension.)

9.148. NEUTRON PURGE

```
usage: neutron purge [-h] [--request-format {json}] TENANT
```

Positional arguments

TENANT

ID of Tenant owning the resources to be deleted.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.149. NEUTRON QOS-BANDWIDTH-LIMIT-RULE-CREATE

```
usage: neutron qos-bandwidth-limit-rule-create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
-tenant-id TENANT_ID] [--max-kbps MAX_KBPS] [--max-burst-kbps
MAX_BURST_KBPS] QOS_POLICY
```

Create a qos bandwidth limit rule.

Positional arguments

QOS_POLICY

ID or name of the QoS policy.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--max-kbps MAX_KBPS

max bandwidth in kbps.

--max-burst-kbps MAX_BURST_KBPS

max burst bandwidth in kbps.

9.150. NEUTRON QOS-BANDWIDTH-LIMIT-RULE-DELETE

```
usage: neutron qos-bandwidth-limit-rule-delete [-h] [--request-format {json}] BANDWIDTH_LIMIT_RULE QOS_POLICY
```

Delete a given qos bandwidth limit rule.

Positional arguments

BANDWIDTH_LIMIT_RULE

ID of bandwidth_limit_rule to delete.

QOS_POLICY

ID or name of the QoS policy.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.151. NEUTRON QOS-BANDWIDTH-LIMIT-RULE-LIST

```
usage: neutron qos-bandwidth-limit-rule-list [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}] [--
request-format {json}] [-D] [-F FIELD] [-P SIZE] [--sort-key FIELD] [-
-sort-dir {asc,desc}] QOS_POLICY
```

List all qos bandwidth limit rules belonging to the specified policy.

Positional arguments

QOS_POLICY

ID or name of the QoS policy.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

-P SIZE, --page-size SIZE

Specify retrieve unit of each request, then split one request to several requests.

--sort-key FIELD

Sorts the list by the specified fields in the specified directions. You can repeat this option,

but you must specify an equal number of `sort_dir` and `sort_key` values. Extra `sort_dir` options are ignored. Missing `sort_dir` options use the default `asc` value.

--sort-dir {asc,desc}

Sorts the list in the specified direction. You can repeat this option.

9.152. NEUTRON QOS-BANDWIDTH-LIMIT-RULE-SHOW

```
usage: neutron qos-bandwidth-limit-rule-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] BANDWIDTH_LIMIT_RULE QOS_POLICY
```

Show information about the given qos bandwidth limit rule.

Positional arguments

BANDWIDTH_LIMIT_RULE

ID of `bandwidth_limit_rule` to look up.

QOS_POLICY

ID or name of the QoS policy.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.153. NEUTRON QOS-BANDWIDTH-LIMIT-RULE-UPDATE

```
usage: neutron qos-bandwidth-limit-rule-update [-h] [--request-format
{json}] [--max-kbps MAX_KBPS] [--max-burst-kbps MAX_BURST_KBPS]
BANDWIDTH_LIMIT_RULE QOS_POLICY
```

Update the given qos bandwidth limit rule.

Positional arguments

BANDWIDTH_LIMIT_RULE

ID of bandwidth_limit_rule to update.

QOS_POLICY

ID or name of the QoS policy.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--max-kbps MAX_KBPS

max bandwidth in kbps.

--max-burst-kbps MAX_BURST_KBPS

max burst bandwidth in kbps.

9.154. NEUTRON QOS-POLICY-CREATE

```
usage: neutron qos-policy-create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
tenant-id TENANT_ID] [--description DESCRIPTION] [--shared] NAME
```

Create a qos policy.

Positional arguments

NAME

Name of QoS policy to create.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--description DESCRIPTION

Description of the QoS policy.

--shared

Accessible by other tenants. Set shared to True (default is False).

9.155. NEUTRON QOS-POLICY-DELETE

```
usage: neutron qos-policy-delete [-h] [--request-format {json}] POLICY
```

Delete a given qos policy.

Positional arguments

POLICY

ID or name of policy to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.156. NEUTRON QOS-POLICY-SHOW

```
usage: neutron qos-policy-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] POLICY
```

Show information of a given qos policy.

Positional arguments

POLICY

ID or name of policy to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.157. NEUTRON QOS-POLICY-UPDATE

```
usage: neutron qos-policy-update [-h] [--request-format {json}] [--name
NAME] [--description DESCRIPTION] [--shared] POLICY
```

Update a given qos policy.

Positional arguments

POLICY

ID or name of policy to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--name NAME

Name of QoS policy.

--description DESCRIPTION

Description of the QoS policy.

--shared

Accessible by other tenants. Set shared to True (default is False).

9.158. NEUTRON QUEUE-CREATE

```
usage: neutron queue-create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
tenant-id TENANT_ID] [--min MIN] [--max MAX] [--qos-marking
QOS_MARKING] [--default DEFAULT] [--dscp DSCP] NAME
```

Create a queue.

Positional arguments

NAME

Name of queue.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--min MIN

Minimum rate.

--max MAX

Maximum rate.

--qos-marking QOS_MARKING

QOS marking as untrusted or trusted.

--default DEFAULT

If true all created ports will be the size of this queue, if queue is not specified

--dscp DSCP

Differentiated Services Code Point.

9.159. NEUTRON QUEUE-DELETE

```
usage: neutron queue-delete [-h] [--request-format {json}] QOS_QUEUE
```

Delete a given queue.

Positional arguments

QOS_QUEUE

ID or name of qos_queue to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.160. NEUTRON QUEUE-SHOW

```
usage: neutron queue-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] QOS_QUEUE
```

Show information of a given queue.

Positional arguments

QOS_QUEUE

ID or name of qos_queue to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.161. NEUTRON RBAC-CREATE

```
usage: neutron rbac-create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
-tenant-id TENANT_ID] --type {qos-policy,network} [--target-tenant
TARGET_TENANT] --action {access_as_external,access_as_shared}
RBAC_OBJECT
```

Create a RBAC policy for a given tenant.

Positional arguments

RBAC_OBJECT

ID or name of the RBAC object.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--type {qos-policy,network}

Type of the object that RBAC policy affects.

--target-tenant TARGET_TENANT

ID of the tenant to which the RBAC policy will be enforced.

--action {access_as_external,access_as_shared}

Action for the RBAC policy.

9.162. NEUTRON RBAC-DELETE

```
usage: neutron rbac-delete [-h] [--request-format {json}] RBAC_POLICY
```

Delete a RBAC policy.

Positional arguments

RBAC_POLICY

ID of rbac_policy to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.163. NEUTRON RBAC-SHOW

```
usage: neutron rbac-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] RBAC_POLICY
```

Show information of a given RBAC policy.

Positional arguments

RBAC_POLICY

ID of rbac_policy to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.164. NEUTRON RBAC-UPDATE

```
usage: neutron rbac-update [-h] [--request-format {json}] [--target-
tenant TARGET_TENANT] RBAC_POLICY
```

Update RBAC policy for given tenant.

Positional arguments

RBAC_POLICY

ID of rbac_policy to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--target-tenant TARGET_TENANT

ID of the tenant to which the RBAC policy will be enforced.

9.165. NEUTRON REACHABILITY-QUICK-TESTS-CREATE

```
usage: neutron reachability-quick-tests-create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
tenant-id TENANT_ID] name src-tenant-name src-segment-name src-ip dst-
ip expected-result
```

[bsn_extensions] Create a Reachability Quick Test.

Positional arguments

name

Name of this reachability test.

src-tenant-name

Tenant name of the src-ip.

src-segment-name

Network name of the src-ip.

src-ip

Source IP of the reachability test.

dst-ip

Destination IP of the reachability test.

expected-result

Expected result of the test.

Optional arguments**-h, --help**

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

9.166. NEUTRON REACHABILITY-QUICK-TESTS-DELETE

```
usage: neutron reachability-quick-tests-delete [-h] [--request-format {json}] REACHABILITYQUICKTEST
```

[bsn_extensions] Delete a Reachability Quick Test.

Positional arguments**REACHABILITYQUICKTEST**

ID or name of reachabilityquicktest to delete.

Optional arguments**-h, --help**

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.167. NEUTRON REACHABILITY-QUICK-TESTS-RUN


```
usage: neutron reachability-quick-tests-run [-h] [--request-format
{json}] REACHABILITYQUICKTEST
```

[bsn_extensions] Run a Reachability Quick Test.

Positional arguments

REACHABILITYQUICKTEST

ID or name of reachabilityquicktest to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.168. NEUTRON REACHABILITY-QUICK-TESTS-SHOW

```
usage: neutron reachability-quick-tests-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] REACHABILITYQUICKTEST
```

[bsn_extensions] Show a Reachability Quick Test.

Positional arguments

REACHABILITYQUICKTEST

ID or name of reachabilityquicktest to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.169. NEUTRON REACHABILITY-QUICK-TESTS-UPDATE

```
usage: neutron reachability-quick-tests-update [-h] [--request-format {json}] REACHABILITYQUICKTEST name src-tenant-name src-segment-name src-ip dst-ip expected-result
```

[bsn_extensions] Update a Reachability Quick Test.

Positional arguments

REACHABILITYQUICKTEST

ID or name of reachabilityquicktest to update.

name

Name of this reachability test.

src-tenant-name

Tenant name of the src-ip.

src-segment-name

Network name of the src-ip.

src-ip

Source IP of the reachability test.

dst-ip

Destination IP of the reachability test.

expected-result

Expected result of the test.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.170. NEUTRON REACHABILITY-TESTS-CREATE

```
usage: neutron reachability-tests-create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
tenant-id TENANT_ID] name src-tenant-name src-segment-name src-ip dst-
ip expected-result
```

[bsn_extensions] Create a Reachability Test.

Positional arguments

name

Name of this reachability test.

src-tenant-name

Tenant name of the src-ip.

src-segment-name

Network name of the src-ip.

src-ip

Source IP of the reachability test.

dst-ip

Destination IP of the reachability test.

expected-result

Expected result of the test.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

9.171. NEUTRON REACHABILITY-TESTS-DELETE

```
usage: neutron reachability-tests-delete [-h] [--request-format {json}]
REACHABILITYTEST
```

[bsn_extensions] Delete a Reachability Test.

Positional arguments

REACHABILITYTEST

ID or name of reachabilitytest to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.172. NEUTRON REACHABILITY-TESTS-RUN

```
usage: neutron reachability-tests-run [-h] [--request-format {json}]
REACHABILITYTEST
```

[bsn_extensions] Run a Reachability Test.

Positional arguments

REACHABILITYTEST

ID or name of reachabilitytest to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.173. NEUTRON REACHABILITY-TESTS-SHOW

```
usage: neutron reachability-tests-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] REACHABILITYTEST
```

[bsn_extensions] Show a Reachability Test.

Positional arguments**REACHABILITYTEST**

ID or name of reachabilitytest to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.174. NEUTRON REACHABILITY-TESTS-UPDATE

```
usage: neutron reachability-tests-update [-h] [--request-format {json}]
REACHABILITYTEST name src-tenant-name src-segment-name src-ip dst-ip
expected-result
```

[bsn_extensions] Update a Reachability Test.

Positional arguments

REACHABILITYTEST

ID or name of reachabilitytest to update.

name

Name of this reachability test.

src-tenant-name

Tenant name of the src-ip.

src-segment-name

Network name of the src-ip.

src-ip

Source IP of the reachability test.

dst-ip

Destination IP of the reachability test.

expected-result

Expected result of the test.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.175. NEUTRON ROUTER-CREATE

```
usage: neutron router-create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
-tenant-id TENANT_ID] [--admin-state-down] [--distributed {True,False}]
[--ha {True,False}] [--availability-zone-hint AVAILABILITY_ZONE] NAME
```

Create a router for a given tenant.

Positional arguments

NAME

Name of router to create.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--admin-state-down

Set admin state up to false.

--distributed {True,False}

Create a distributed router.

--ha {True,False}

Create a highly available router.

--availability-zone-hint AVAILABILITY_ZONE

Availability Zone for the router (requires availability zone extension, this option can be

repeated).

9.176. NEUTRON ROUTER-DELETE

```
usage: neutron router-delete [-h] [--request-format {json}] ROUTER
```

Delete a given router.

Positional arguments

ROUTER

ID or name of router to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.177. NEUTRON ROUTER-GATEWAY-CLEAR

```
usage: neutron router-gateway-clear [-h] [--request-format {json}]  
ROUTER
```

Remove an external network gateway from a router.

Positional arguments

ROUTER

ID or name of the router.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.178. NEUTRON ROUTER-GATEWAY-SET

```
usage: neutron router-gateway-set [-h] [--request-format {json}] [--
disable-snat] [--fixed-ip subnet_id=SUBNET,ip_address=IP_ADDR] ROUTER
EXTERNAL-NETWORK
```

Set the external network gateway for a router.

Positional arguments

ROUTER

ID or name of the router.

EXTERNAL - NETWORK

ID or name of the external network for the gateway.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--disable-snat

Disable source NAT on the router gateway.

--fixed-ip

subnet_id=SUBNET,ip_address=IP_ADDR Desired IP and/or subnet on external network:
 subnet_id=<name_or_id>,ip_address=<ip>. You can specify both of subnet_id and
 ip_address or specify one of them as well. You can repeat this option.

9.179. NEUTRON ROUTER-INTERFACE-ADD

```
usage: neutron router-interface-add [-h] [--request-format {json}]
ROUTER INTERFACE
```

Add an internal network interface to a router.

Positional arguments

ROUTER

ID or name of the router.

INTERFACE

The format is "SUBNET|subnet=SUBNET|port=PORT". Either a subnet or port must be specified. Both ID and name are accepted as SUBNET or PORT. Note that "subnet=" can be omitted when specifying a subnet.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.180. NEUTRON ROUTER-INTERFACE-DELETE

```
usage: neutron router-interface-delete [-h] [--request-format {json}]
ROUTER INTERFACE
```

Remove an internal network interface from a router.

Positional arguments

ROUTER

ID or name of the router.

INTERFACE

The format is "SUBNET|subnet=SUBNET|port=PORT". Either a subnet or port must be specified. Both ID and name are accepted as SUBNET or PORT. Note that "subnet=" can be omitted when specifying a subnet.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.181. NEUTRON ROUTER-LIST-ON-L3-AGENT

```
usage: neutron router-list-on-l3-agent [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}] [--
request-format {json}] [-D] [-F FIELD] L3_AGENT
```

List the routers on a L3 agent.

Positional arguments

L3_AGENT

ID of the L3 agent to query.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.182. NEUTRON ROUTER-PORT-LIST

```
usage: neutron router-port-list [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}] [--
request-format {json}] [-D] [-F FIELD] [-P SIZE] [--sort-key FIELD] [-
sort-dir {asc,desc}] ROUTER
```

List ports that belong to a given tenant, with specified router.

Positional arguments

ROUTER

ID or name of router to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

-P SIZE, --page-size SIZE

Specify retrieve unit of each request, then split one request to several requests.

--sort-key FIELD

Sorts the list by the specified fields in the specified directions. You can repeat this option, but you must specify an equal number of sort_dir and sort_key values. Extra sort_dir options are ignored. Missing sort_dir options use the default asc value.

--sort-dir {asc,desc}

Sorts the list in the specified direction. You can repeat this option.

9.183. NEUTRON ROUTER-SHOW

```
usage: neutron router-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] ROUTER
```

Show information of a given router.

Positional arguments

ROUTER

ID or name of router to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.184. NEUTRON ROUTER-UPDATE

```
usage: neutron router-update [-h] [--request-format {json}] [--name NAME]
[--admin-state-up {True,False}] [--distributed {True,False}] [--route destination=CIDR,nexthop=IP_ADDR | --no-routes] ROUTER
```

Update router's information.

Positional arguments

ROUTER

ID or name of router to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--name NAME

Name of this router.

--admin-state-up {True,False}

Specify the administrative state of the router (True meaning "Up")

--distributed {True,False}

True means this router should operate in distributed mode.

--route

destination=CIDR,nexthop=IP_ADDR Route to associate with the router. You can repeat this option.

--no-routes

Remove routes associated with the router.

9.185. NEUTRON SECURITY-GROUP-CREATE

```
usage: neutron security-group-create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
tenant-id TENANT_ID] [--description DESCRIPTION] NAME
```

Create a security group.

Positional arguments

NAME

Name of security group.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--description DESCRIPTION

Description of security group.

9.186. NEUTRON SECURITY-GROUP-DELETE

```
usage: neutron security-group-delete [-h] [--request-format {json}]
SECURITY_GROUP
```

Delete a given security group.

Positional arguments

SECURITY_GROUP

ID or name of security_group to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.187. NEUTRON SECURITY-GROUP-RULE-CREATE

```
usage: neutron security-group-rule-create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
tenant-id TENANT_ID] [--direction {ingress,egress}] [--ethertype
ETHERTYPE] [--protocol PROTOCOL] [--port-range-min PORT_RANGE_MIN] [--
port-range-max PORT_RANGE_MAX] [--remote-ip-prefix REMOTE_IP_PREFIX] [-
remote-group-id REMOTE_GROUP] SECURITY_GROUP
```

Create a security group rule.

Positional arguments

SECURITY_GROUP

Security group name or ID to add rule.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--direction {ingress,egress}

Direction of traffic: ingress/egress.

--ethertype ETHERTYPE

IPv4/IPv6

--protocol PROTOCOL

Protocol of packet. Allowed values are [icmp, icmpv6, tcp, udp] and integer representations [0-255]

--port-range-min PORT_RANGE_MIN

Starting port range. For ICMP it is type.

--port-range-max PORT_RANGE_MAX

Ending port range. For ICMP it is code.

--remote-ip-prefix REMOTE_IP_PREFIX

CIDR to match on.

--remote-group-id REMOTE_GROUP

Remote security group name or ID to apply rule.

9.188. NEUTRON SECURITY-GROUP-RULE-DELETE

■


```
usage: neutron security-group-rule-delete [-h] [--request-format
{json}] SECURITY_GROUP_RULE
```

Delete a given security group rule.

Positional arguments

SECURITY_GROUP_RULE

ID of security_group_rule to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.189. NEUTRON SECURITY-GROUP-RULE-SHOW

```
usage: neutron security-group-rule-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] SECURITY_GROUP_RULE
```

Show information of a given security group rule.

Positional arguments

SECURITY_GROUP_RULE

ID of security_group_rule to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.190. NEUTRON SECURITY-GROUP-SHOW

```
usage: neutron security-group-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] SECURITY_GROUP
```

Show information of a given security group.

Positional arguments

SECURITY_GROUP

ID or name of security_group to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.191. NEUTRON SECURITY-GROUP-UPDATE

```
usage: neutron security-group-update [-h] [--request-format {json}] [-
-name NAME] [--description DESCRIPTION] SECURITY_GROUP
```

Update a given security group.

Positional arguments

SECURITY_GROUP

ID or name of security_group to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--name NAME

Name of security group.

--description DESCRIPTION

Description of security group.

9.192. NEUTRON SUBNET-CREATE

```
usage: neutron subnet-create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
-tenant-id TENANT_ID] [--name NAME] [--gateway GATEWAY_IP | --no-
gateway] [--allocation-pool start=IP_ADDR,end=IP_ADDR] [--host-route
destination=CIDR,nexthop=IP_ADDR] [--dns-nameserver DNS_NAMESERVER] [--
disable-dhcp] [--enable-dhcp] [--ip-version {4,6}] [--ipv6-ra-mode
{dhcpv6-stateful,dhcpv6-stateless,slaac}] [--ipv6-address-mode {dhcpv6-
stateful,dhcpv6-stateless,slaac}] [--subnetpool SUBNETPOOL] [--use-
default-subnetpool] [--prefixlen PREFIX_LENGTH] NETWORK [CIDR]
```

Create a subnet for a given tenant.

Positional arguments

NETWORK

Network ID or name this subnet belongs to.

CIDR

CIDR of subnet to create.

Optional arguments**-h, --help**

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--name NAME

Name of this subnet.

--gateway GATEWAY_IP

Gateway IP of this subnet.

--no-gateway

No distribution of gateway.

--allocation-pool

start=IP_ADDR,end=IP_ADDR Allocation pool IP addresses for this subnet (This option can be repeated).

--host-route

destination=CIDR,nexthop=IP_ADDR Additional route (This option can be repeated).

--dns-nameserver DNS_NAMESERVER

DNS name server for this subnet (This option can be repeated).

--disable-dhcp

Disable DHCP for this subnet.

--enable-dhcp

Enable DHCP for this subnet.

--ip-version {4,6} IP

version to use, default is 4. Note that when subnetpool is specified, IP version is determined from the subnetpool and this option is ignored.

--ipv6-ra-mode {dhcpv6-stateful,dhcpv6-stateless,slaac}

IPv6 RA (Router Advertisement) mode.

--ipv6-address-mode {dhcpv6-stateful,dhcpv6-stateless,slaac}

IPv6 address mode.

--subnetpool SUBNETPOOL

ID or name of subnetpool from which this subnet will obtain a CIDR.

--use-default-subnetpool

Use default subnetpool for ip_version, if it exists.

--prefixlen PREFIX_LENGTH

Prefix length for subnet allocation from subnetpool.

9.193. NEUTRON SUBNET-DELETE

```
usage: neutron subnet-delete [-h] [--request-format {json}] SUBNET
```

Delete a given subnet.

Positional arguments**SUBNET**

ID or name of subnet to delete.

Optional arguments**-h, --help**

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.194. NEUTRON SUBNET-SHOW

```
usage: neutron subnet-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] SUBNET
```

Show information of a given subnet.

Positional arguments

SUBNET

ID or name of subnet to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.195. NEUTRON SUBNET-UPDATE

```
usage: neutron subnet-update [-h] [--request-format {json}] [--name
NAME] [--gateway GATEWAY_IP | --no-gateway] [--allocation-pool
start=IP_ADDR,end=IP_ADDR] [--host-route
destination=CIDR,nextthop=IP_ADDR] [--dns-nameserver DNS_NAMESERVER] [--
disable-dhcp] [--enable-dhcp] SUBNET
```

Update subnet's information.

Positional arguments

SUBNET

ID or name of subnet to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--name NAME

Name of this subnet.

--gateway GATEWAY_IP

Gateway IP of this subnet.

--no-gateway

No distribution of gateway.

--allocation-pool

start=IP_ADDR,end=IP_ADDR Allocation pool IP addresses for this subnet (This option can be repeated).

--host-route

destination=CIDR,nexthop=IP_ADDR Additional route (This option can be repeated).

--dns-nameserver DNS_NAMESERVER

DNS name server for this subnet (This option can be repeated).

--disable-dhcp

Disable DHCP for this subnet.

--enable-dhcp

Enable DHCP for this subnet.

ENABLE DHCP FOR THIS SUBNET.

9.196. NEUTRON SUBNETPOOL-CREATE

```
usage: neutron subnetpool-create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
-tenant-id TENANT_ID] [--min-prefixlen MIN_PREFIXLEN] [--max-prefixlen
MAX_PREFIXLEN] [--default-prefixlen DEFAULT_PREFIXLEN] [--pool-prefix
PREFIXES] [--is-default {True,False}] [--shared] [--address-scope
ADDRSCOPE] NAME
```

Create a subnetpool for a given tenant.

Positional arguments

NAME

Name of subnetpool to create.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--min-prefixlen MIN_PREFIXLEN

Subnetpool minimum prefix length.

--max-prefixlen MAX_PREFIXLEN

Subnetpool maximum prefix length.

--default-prefixlen DEFAULT_PREFIXLEN

Subnetpool default prefix length.

--pool-prefix PREFIXES

Subnetpool prefixes (This option can be repeated).

--is-default {True,False}

Specify whether this should be the default subnetpool (True meaning default).

--shared

Set the subnetpool as shared.

--address-scope ADDRSCOPE

ID or name of the address scope with which the subnetpool is associated. Prefixes must be unique across address scopes

9.197. NEUTRON SUBNETPOOL-DELETE

```
usage: neutron subnetpool-delete [-h] [--request-format {json}]
SUBNETPOOL
```

Delete a given subnetpool.

Positional arguments

SUBNETPOOL

ID or name of subnetpool to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.198. NEUTRON SUBNETPOOL-SHOW

```
usage: neutron subnetpool-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] SUBNETPOOL
```

Show information of a given subnetpool.

Positional arguments

SUBNETPOOL

ID or name of subnetpool to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.199. NEUTRON SUBNETPOOL-UPDATE

```
usage: neutron subnetpool-update [-h] [--request-format {json}] [--min-  
prefixlen MIN_PREFIXLEN] [--max-prefixlen MAX_PREFIXLEN] [--default-  
prefixlen DEFAULT_PREFIXLEN] [--pool-prefix PREFIXES] [--is-default  
{True,False}] [--name NAME] [--address-scope ADDRSCOPE | --no-address-  
scope] SUBNETPOOL
```

Update subnetpool's information.

Positional arguments

SUBNETPOOL

ID or name of subnetpool to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--min-prefixlen MIN_PREFIXLEN

Subnetpool minimum prefix length.

--max-prefixlen MAX_PREFIXLEN

Subnetpool maximum prefix length.

--default-prefixlen DEFAULT_PREFIXLEN

Subnetpool default prefix length.

--pool-prefix PREFIXES

Subnetpool prefixes (This option can be repeated).

--is-default {True,False}

Specify whether this should be the default subnetpool (True meaning default).

--name NAME

Name of subnetpool to update.

--address-scope ADDRSCOPE

ID or name of the address scope with which the subnetpool is associated. Prefixes must be unique across address scopes

--no-address-scope

Detach subnetpool from the address scope

9.200. NEUTRON VPN-ENDPOINT-GROUP-DELETE

```
usage: neutron vpn-endpoint-group-delete [-h] [--request-format {json}]
ENDPOINT_GROUP
```

Delete a given VPN endpoint group.

Positional arguments

ENDPOINT_GROUP

ID or name of endpoint_group to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.201. NEUTRON VPN-ENDPOINT-GROUP-SHOW

```
usage: neutron vpn-endpoint-group-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] ENDPOINT_GROUP
```

Show a specific VPN endpoint group.

Positional arguments

ENDPOINT_GROUP

ID or name of endpoint_group to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.202. NEUTRON VPN-ENDPOINT-GROUP-UPDATE

```
usage: neutron vpn-endpoint-group-update [-h] [--request-format {json}]
[--name NAME] [--description DESCRIPTION] ENDPOINT_GROUP
```

Update a given VPN endpoint group.

Positional arguments

ENDPOINT_GROUP

ID or name of endpoint_group to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--name NAME

Set a name for the endpoint group.

--description DESCRIPTION

Set a description for the endpoint group.

9.203. NEUTRON VPN-IKEPOLICY-CREATE

```
usage: neutron vpn-ikepolicy-create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
tenant-id TENANT_ID] [--description DESCRIPTION] [--auth-algorithm
{sha1}] [--encryption-algorithm ENCRYPTION_ALGORITHM] [--phase1-
negotiation-mode {main}] [--ike-version {v1,v2}] [--pfs
{group2,group5,group14}] [--lifetime units=UNITS,value=VALUE] NAME
```

Create an IKE policy.

Positional arguments

NAME

Name of the IKE policy.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--description DESCRIPTION

Description of the IKE policy

--auth-algorithm {sha1}

Authentication algorithm in lowercase. Default:sha1

--encryption-algorithm ENCRYPTION_ALGORITHM

Encryption algorithm in lowercase, default:aes-128

--phase1-negotiation-mode {main}

IKE Phase1 negotiation mode in lowercase, default:main

--ike-version {v1,v2}

IKE version in lowercase, default:v1

--pfs {group2,group5,group14}

Perfect Forward Secrecy in lowercase, default:group5

--lifetime

units=UNITS,value=VALUE IKE lifetime attributes. 'units'-seconds, default:seconds. 'value'-non negative integer, default:3600.

9.204. NEUTRON VPN-IKEPOLICY-DELETE

```
usage: neutron vpn-ikepolicy-delete [-h] [--request-format {json}]
IKEPOLICY
```

Delete a given IKE policy.

Positional arguments

IKEPOLICY

ID or name of IKE policy to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.205. NEUTRON VPN-IKEPOLICY-SHOW

```
usage: neutron vpn-ikepolicy-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] IKEPOLICY
```

Show information of a given IKE policy.

Positional arguments

IKEPOLICY

ID or name of IKE policy to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.206. NEUTRON VPN-IKEPOLICY-UPDATE

```
usage: neutron vpn-ikepolicy-update [-h] [--request-format {json}] [--lifetime units=UNITS,value=VALUE] IKEPOLICY
```

Update a given IKE policy.

Positional arguments

IKEPOLICY

ID or name of IKE policy to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--lifetime

units=UNITS,value=VALUE IKE lifetime attributes. 'units'-seconds, default:seconds. 'value'-non negative integer, default:3600.

9.207. NEUTRON VPN-IPSECPOLICY-CREATE

```
usage: neutron vpn-ipsecpolicy-create [-h] [-f {html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width <integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-tenant-id TENANT_ID] [--description DESCRIPTION] [--transform-protocol {esp,ah,ah-esp}] [--auth-algorithm {sha1}] [--encryption-algorithm ENCRYPTION_ALGORITHM] [--encapsulation-mode {tunnel,transport}] [--pfs {group2,group5,group14}] [--lifetime units=UNITS,value=VALUE] NAME
```

Create an IPsec policy.

Positional arguments

NAME

Name of the IPsec policy.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--description DESCRIPTION

Description of the IPsec policy.

--transform-protocol {esp,ah,ah-esp}

Transform protocol in lowercase, default:esp

--auth-algorithm {sha1}

Authentication algorithm in lowercase, default:sha1

--encryption-algorithm ENCRYPTION_ALGORITHM

Encryption algorithm in lowercase, default:aes-128

--encapsulation-mode {tunnel,transport}

Encapsulation mode in lowercase, default:tunnel

--pfs {group2,group5,group14}

Perfect Forward Secrecy in lowercase, default:group5

--lifetime

units=UNITS,value=VALUE IPsec lifetime attributes. 'units'-seconds, default:seconds.
'value'-non negative integer, default:3600.

9.208. NEUTRON VPN-IPSECPOLICY-DELETE

```
usage: neutron vpn-ipsecpolicy-delete [-h] [--request-format {json}]
IPSECPOLICY
```

Delete a given IPsec policy.

Positional arguments

IPSECPOLICY

ID or name of IPsec policy to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.209. NEUTRON VPN-IPSECPOLICY-SHOW

```
usage: neutron vpn-ipsecpolicy-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] IPSECPOLICY
```

Show information of a given IPsec policy.

Positional arguments

IPSECPOLICY

ID or name of IPsec policy to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.210. NEUTRON VPN-IPSECPOLICY-UPDATE

```
usage: neutron vpn-ipsecpolicy-update [-h] [--request-format {json}] [-lifetime units=UNITS,value=VALUE] IPSECPOLICY
```

Update a given IPsec policy.

Positional arguments

IPSECPOLICY

ID or name of IPsec policy to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--lifetime

units=UNITS,value=VALUE IPsec lifetime attributes. 'units'-seconds, default:seconds.
'value'-non negative integer, default:3600.

9.211. NEUTRON VPN-SERVICE-CREATE

```
usage: neutron vpn-service-create [-h] [-f {html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width <integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-tenant-id TENANT_ID] [--admin-state-down] [--name NAME] [--description DESCRIPTION] ROUTER [SUBNET]
```

Create a VPN service.

Positional arguments

ROUTER

Router unique identifier for the VPN service.

SUBNET

[*DEPRECATED* in Mitaka] Unique identifier for the local private subnet.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--admin-state-down

Set admin state up to false.

--name NAME

Set a name for the VPN service.

--description DESCRIPTION

Set a description for the VPN service.

9.212. NEUTRON VPN-SERVICE-DELETE

```
usage: neutron vpn-service-delete [-h] [--request-format {json}]
VPNSERVICE
```

Delete a given VPN service.

Positional arguments

VPNSERVICE

ID or name of VPN service to delete.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

9.213. NEUTRON VPN-SERVICE-SHOW

```
usage: neutron vpn-service-show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--request-format {json}] [-
D] [-F FIELD] VPNSERVICE
```

Show information of a given VPN service.

Positional arguments**VPNSERVICE**

ID or name of VPN service to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

9.214. NEUTRON VPN-SERVICE-UPDATE

```
usage: neutron vpn-service-update [-h] [--request-format {json}]
VPNSERVICE
```

Update a given VPN service.

Positional arguments

VPNSERVICE

ID or name of VPN service to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

CHAPTER 10. NEUTRON-DEBUG COMMAND-LINE CLIENT

The **neutron-debug** client is an extension to the **neutron** command-line interface (CLI) for the OpenStack neutron-debug tool. This chapter documents **neutron-debug** version 2.3.0.

For help on a specific **neutron-debug** command, enter:

```
$ neutron-debug help COMMAND
```

10.1. NEUTRON-DEBUG USAGE

```
[--os-password <auth-password>] [--os-tenant-name <auth-tenant-name>]
[--os-tenant-id <auth-tenant-id>] [--os-auth-url <auth-url>] [--os-
region-name <region-name>] [--service-type <service-type>] [--service-
name <service-name>] [--volume-service-name <volume-service-name>] [--
endpoint-type <endpoint-type>] [--os-volume-api-version <volume-api-
ver>] [--os-cacert <ca-certificate>] [--retries <retries>] <subcommand>
...
```

Subcommands

probe-create

Create probe port - create port and interface within a network namespace.

probe-list

List all probes.

probe-clear

Clear all probes.

probe-delete

Delete probe - delete port then delete the namespace.

probe-exec

Execute commands in the namespace of the probe.

ping-all

ping-all is all-in-one command to ping all fixed IP's in a specified network.

10.2. NEUTRON-DEBUG OPTIONAL ARGUMENTS

--version

Show version number and exit.

-v, --verbose, --debug

Increase verbosity of output and show tracebacks on errors. Can be repeated.

-q, --quiet

Suppress output except warnings and errors

-h, --help

Show this help message and exit

--os-auth-strategy <auth-strategy>

Authentication strategy (Env: OS_AUTH_STRATEGY, default keystone). For now, any other value will disable the authentication

--os-auth-url <auth-url>

Authentication URL (Env: OS_AUTH_URL)

--os-tenant-name <auth-tenant-name>

Authentication tenant name (Env: OS_TENANT_NAME)

--os-tenant-id <auth-tenant-id>

Authentication tenant name (Env: OS_TENANT_ID)

--os-username <auth-username>

Authentication username (Env: OS_USERNAME)

--os-password <auth-password>

Authentication password (Env: OS_PASSWORD)

--os-region-name <auth-region-name>

Authentication region name (Env: OS_REGION_NAME)

--os-token <token>

Defaults to env[OS_TOKEN]

Defaults to `env[OS_TOKEN]`

--endpoint-type <endpoint-type>

Defaults to `env[OS_ENDPOINT_TYPE]` or public URL.

--os-url <url>

Defaults to `env[OS_URL]`

--os-cacert <ca-certificate>

Specify a CA bundle file to use in verifying a TLS (https) server certificate. Defaults to `env[OS_CACERT]`

--insecure

Explicitly allow neutron-debug to perform "insecure" SSL (https) requests. The server's certificate will not be verified against any certificate authorities. This option should be used with caution.

--config-file CONFIG_FILE

Config file for interface driver (You may also use `l3_agent.ini`)

10.3. NEUTRON-DEBUG PROBE-CREATE COMMAND

usage: neutron-debug probe-create NET

Create probe port - create port and interface, then place it into the created network namespace.

Positional arguments

NET ID

ID of the network in which the probe will be created.

10.4. NEUTRON-DEBUG PROBE-LIST COMMAND

usage: neutron-debug probe-list

List probes.

10.5. NEUTRON-DEBUG PROBE-CLEAR COMMAND

```
usage: neutron-debug probe-clear
```

Clear all probes.

10.6. NEUTRON-DEBUG PROBE-DELETE COMMAND

```
usage: neutron-debug probe-delete <port-id>
```

Remove a probe.

Positional arguments

<port-id>

ID of the probe to delete.

10.7. NEUTRON-DEBUG PROBE-EXEC COMMAND

```
usage: neutron-debug probe-exec <port-id> <command>
```

Execute commands in the namespace of the probe

10.8. NEUTRON-DEBUG PING-ALL COMMAND

```
usage: neutron-debug ping-all <port-id> --timeout <number>
```

All-in-one command to ping all fixed IP's in a specified network.

Positional arguments

<port-id>

ID of the port to use.

Optional arguments

--timeout <timeout in seconds>

Optional ping timeout.

10.9. NEUTRON-DEBUG EXAMPLE

```
usage: neutron-debug create-probe < NET_ID>
```

■

Create a probe namespace within the network identified by NET_ID. The namespace will have the name of qprobe-<UUID of the probe port>



Note

For the following examples to function, the security group rules may need to be modified to allow the SSH (TCP port 22) or ping (ICMP) traffic into network.

```
usage: neutron-debug probe-exec <probe ID> "ssh <IP of instance>"
```

SSH to an instance within the network.

```
usage: neutron-debug ping-all <network ID>"
```

Ping all instances on this network to verify they are responding.

```
usage: neutron-debug probe-exec <probe_ID> dhcping <VM_MAC address> -s  
<IP of DHCP server>"
```

Ping the DHCP server for this network using dhcping to verify it is working.

CHAPTER 11. OBJECT STORAGE SERVICE COMMAND-LINE CLIENT

The **swift** client is the command-line interface (CLI) for the Object Storage service API and its extensions. This chapter documents **swift** version **3.0.0**.

For help on a specific **swift** command, enter:

```
$ swift COMMAND --help
```

11.1. SWIFT USAGE

```
[--debug] [--info] [--quiet] [--auth <auth_url>] [--auth-version
<auth_version> | --os-identity-api-version <auth_version> ] [--user
<username>] [--key <api_key>] [--retries <num_retries>] [--os-username
<auth-user-name>] [--os-password <auth-password>] [--os-user-id <auth-
user-id>] [--os-user-domain-id <auth-user-domain-id>] [--os-user-
domain-name <auth-user-domain-name>] [--os-tenant-id <auth-tenant-id>]
[--os-tenant-name <auth-tenant-name>] [--os-project-id <auth-project-
id>] [--os-project-name <auth-project-name>] [--os-project-domain-id
<auth-project-domain-id>] [--os-project-domain-name <auth-project-
domain-name>] [--os-auth-url <auth-url>] [--os-auth-token <auth-token>]
[--os-storage-url <storage-url>] [--os-region-name <region-name>] [--
os-service-type <service-type>] [--os-endpoint-type <endpoint-type>] [-
os-cacert <ca-certificate>] [--insecure] [--no-ssl-compression]
<subcommand> [--help] [<subcommand options>]
```

Subcommands

delete

Delete a container or objects within a container.

download

Download objects from containers.

list

Lists the containers for the account or the objects for a container.

post

Updates meta information for the account, container, or object; creates containers if not present.

stat

Displays information for the account, container, or object.

upload

Uploads files or directories to the given container.

capabilities

List cluster capabilities.

tempurl

Create a temporary URL.

auth

Display auth related environment variables.

11.2. SWIFT EXAMPLES

```
swift download --help swift -A
https://auth.api.rackspacelcloud.com/v1.0 -U user -K api_key stat -v
swift --os-auth-url https://api.example.com/v2.0 --os-tenant-name
tenant \ --os-username user --os-password password list swift --os-
auth-url https://api.example.com/v3 --auth-version 3\ --os-project-name
project1 --os-project-domain-name domain1 \ --os-username user --os-
user-domain-name domain1 \ --os-password password list swift --os-auth-
url https://api.example.com/v3 --auth-version 3\ --os-project-id
0123456789abcdef0123456789abcdef \ --os-user-id
abcdef0123456789abcdef0123456789 \ --os-password password list swift --
os-auth-token 6ee5eb33efad4e45ab46806eac010566 \ --os-storage-url
https://10.1.5.2:8080/v1/AUTH_ced809b6a4baea7aeab61a \ list swift list
--lh
```

11.3. SWIFT OPTIONAL ARGUMENTS

--version

show program's version number and exit

-h, --help

show this help message and exit

--os-help

Show OpenStack authentication options.

-s, --snet

Use SERVICENET internal network.

-v, --verbose

Print more info.

--debug

Show the curl commands and results of all http queries regardless of result status.

--info

Show the curl commands and results of all http queries which return an error.

-q, --quiet

Suppress status output.

-A AUTH, --auth=AUTH URL

for obtaining an auth token.

-V AUTH_VERSION, --auth-version=AUTH_VERSION, --os-identity-api-version=AUTH_VERSION

Specify a version for authentication. Defaults to `env[ST_AUTH_VERSION]`, `env[OS_AUTH_VERSION]`, `env[OS_IDENTITY_API_VERSION]` or 1.0.

-U USER, --user=USER

User name for obtaining an auth token.

-K KEY, --key=KEY

Key for obtaining an auth token.

-R RETRIES, --retries=RETRIES

The number of times to retry a failed connection.

--insecure

Allow swiftclient to access servers without having to verify the SSL certificate. Defaults to `env[SWIFTCLIENT_INSECURE]` (set to 'true' to enable).

--no-ssl-compression

This option is deprecated and not used anymore. SSL compression should be disabled by default by the system SSL library.

11.4. SWIFT AUTH

Usage: swift auth

Display auth related authentication variables in shell friendly format.

Commands to run to export storage url and auth token into OS_STORAGE_URL and OS_AUTH_TOKEN:

```
swift auth
```

Commands to append to a runcom file (e.g. ~/.bashrc, /etc/profile) for automatic authentication:

```
swift auth -v -U test:tester -K testing -A
http://localhost:8080/auth/v1.0
```

11.5. SWIFT CAPABILITIES

Usage: swift capabilities

Retrieve capability of the proxy.

Optional positional arguments

<proxy_url>

Proxy URL of the cluster to retrieve capabilities.

11.6. SWIFT DELETE

Usage: swift delete

Delete a container or objects within a container.

Positional arguments

[<container>]

Name of container to delete from.

[<object>]

Name of object to delete. Specify multiple times for multiple objects.

Optional arguments

-a, --all

Delete all containers and objects.

--leave-segments

Do not delete segments of manifest objects.

--object-threads <threads>

Number of threads to use for deleting objects. Default is 10.

--container-threads <threads>

Number of threads to use for deleting containers. Default is 10.

11.7. SWIFT DOWNLOAD

Usage: swift download

Download objects from containers.

Positional arguments

<container>

Name of container to download from. To download a whole account, omit this and specify --all.

<object>

Name of object to download. Specify multiple times for multiple objects. Omit this to download all objects from the container.

Optional arguments

-a, --all

Indicates that you really want to download everything in the account.

-m, --marker

Marker to use when starting a container or account download.

-p, --prefix <prefix>

Only download items beginning with <prefix>

-r, --remove-prefix

An optional flag for --prefix <prefix>, use this option to download items without <prefix>

-o, --output <out_file>

For a single file download, stream the output to <out_file>. Specifying "-" as <out_file> will redirect to stdout.

-D, --output-dir <out_directory>

An optional directory to which to store objects. By default, all objects are recreated in the current directory.

--object-threads <threads>

Number of threads to use for downloading objects. Default is 10.

--container-threads <threads>

Number of threads to use for downloading containers. Default is 10.

--no-download

Perform download(s), but don't actually write anything to disk.

-H, --header <header:value>

Adds a customized request header to the query, like "Range" or "If-Match". This option may be repeated. Example --header "content-type:text/plain"

--skip-identical

Skip downloading files that are identical on both sides.

--no-shuffle

By default, when downloading a complete account or container, download order is

randomised in order to reduce the load on individual drives when multiple clients are executed simultaneously to download the same set of objects (e.g. a nightly automated download script to multiple servers). Enable this option to submit download jobs to the thread pool in the order they are listed in the object store.

11.8. SWIFT LIST

Usage: `swift list`

Lists the containers for the account or the objects for a container.

Positional arguments

[container]

Name of container to list object in.

Optional arguments

-l, --long

Long listing format, similar to `ls -l`.

--lh

Report sizes in human readable format similar to `ls -lh`.

-t, --totals

Used with `-l` or `--lh`, only report totals.

-p <prefix>, --prefix <prefix>

Only list items beginning with the prefix.

-d <delim>, --delimiter <delim>

Roll up items with the given delimiter. For containers only. See OpenStack Swift API documentation for what this means.

11.9. SWIFT POST

Usage: `swift post`

Updates meta information for the account, container, or object. If the container is not found, it will be created automatically.

Positional arguments**[container]**

Name of container to post to.

[object]

Name of object to post.

Optional arguments**-r, --read-acl <acl>**

Read ACL for containers. Quick summary of ACL syntax: .r:*, .r:-.example.com, .r:www.example.com, account1, account2:user2

-w, --write-acl <acl>

Write ACL for containers. Quick summary of ACL syntax: account1 account2:user2

-t, --sync-to <sync-to>

Sync To for containers, for multi-cluster replication.

-k, --sync-key <sync-key>

Sync Key for containers, for multi-cluster replication.

-m, --meta <name:value>

Sets a meta data item. This option may be repeated. Example: -m Color:Blue -m Size:Large

-H, --header <header:value>

Adds a customized request header. This option may be repeated. Example -H "content-type:text/plain" -H "Content-Length: 4000"

11.10. SWIFT STAT

Usage: swift stat

Displays information for the account, container, or object.

Positional arguments

[container]

Name of container to stat from.

[object]

Name of object to stat.

Optional arguments**--lh**

Report sizes in human readable format similar to `ls -lh`.

11.11. SWIFT TEMPURL

Usage: `swift tempurl`

Generates a temporary URL for a Swift object.

Positional arguments**<method>**

An HTTP method to allow for this temporary URL. Usually 'GET' or 'PUT'.

<seconds>

The amount of time in seconds the temporary URL will be valid for; or, if `--absolute` is passed, the Unix timestamp when the temporary URL will expire.

<path>

The full path to the Swift object. Example: `/v1/AUTH_account/c/o`.

<key>

The secret temporary URL key set on the Swift cluster. To set a key, run `'swift post -m "Temp-URL-Key:b3968d0207b54ece87cccc06515a89d4"'`

Optional arguments**--absolute**

Interpret the `<seconds>` positional argument as a Unix timestamp rather than a number of seconds in the future.

11.12. SWIFT UPLOAD

Usage: swift upload

Uploads specified files and directories to the given container.

Positional arguments

<container>

Name of container to upload to.

<file_or_directory>

Name of file or directory to upload. Specify multiple times for multiple uploads.

Optional arguments

-c, --changed

Only upload files that have changed since the last upload.

--skip-identical

Skip uploading files that are identical on both sides.

-S, --segment-size <size>

Upload files in segments no larger than <size> (in Bytes) and then create a "manifest" file that will download all the segments as if it were the original file.

--segment-container <container>

Upload the segments into the specified container. If not specified, the segments will be uploaded to a <container>_segments container to not pollute the main <container> listings.

--leave-segments

Indicates that you want the older segments of manifest objects left alone (in the case of overwrites).

--object-threads <threads>

Number of threads to use for uploading full objects. Default is 10.

--segment-threads <threads>

Number of threads to use for uploading object segments. Default is 10.

-H, --header <header:value>

Adds a customized request header. This option may be repeated. Example -H "content-type:text/plain" -H "Content-Length: 4000".

--use-slo

When used in conjunction with --segment-size it will create a Static Large Object instead of the default Dynamic Large Object.

--object-name <object-name>

Upload file and name object to <object-name> or upload dir and use <object-name> as object prefix instead of folder name.

--ignore-checksum

Turn off checksum validation for uploads.

CHAPTER 12. ORCHESTRATION SERVICE COMMAND-LINE CLIENT

The **heat** client is the command-line interface (CLI) for the Orchestration service API and its extensions. This chapter documents **heat** version **1.2.0**.

For help on a specific **heat** command, enter:

```
$ heat help COMMAND
```

12.1. HEAT USAGE

```
usage: heat [--version] [-d] [-v] [--api-timeout API_TIMEOUT] [--os-no-
client-auth] [--heat-url HEAT_URL] [--heat-api-version
HEAT_API_VERSION] [--include-password] [-k] [--os-cert OS_CERT] [--
cert-file OS_CERT] [--os-key OS_KEY] [--key-file OS_KEY] [--os-cacert
<ca-certificate-file>] [--ca-file OS_CACERT] [--os-username
OS_USERNAME] [--os-user-id OS_USER_ID] [--os-user-domain-id
OS_USER_DOMAIN_ID] [--os-user-domain-name OS_USER_DOMAIN_NAME] [--os-
project-id OS_PROJECT_ID] [--os-project-name OS_PROJECT_NAME] [--os-
project-domain-id OS_PROJECT_DOMAIN_ID] [--os-project-domain-name
OS_PROJECT_DOMAIN_NAME] [--os-password OS_PASSWORD] [--os-tenant-id
OS_TENANT_ID] [--os-tenant-name OS_TENANT_NAME] [--os-auth-url
OS_AUTH_URL] [--os-region-name OS_REGION_NAME] [--os-auth-token
OS_AUTH_TOKEN] [--os-service-type OS_SERVICE_TYPE] [--os-endpoint-type
OS_ENDPOINT_TYPE] [--profile HMAC_KEY] <subcommand> ...
```

Subcommands

action-check

Check that stack resources are in expected states.

action-resume

Resume the stack.

action-suspend

Suspend the stack.

build-info

Retrieve build information.

config-create

Create a software configuration.

config-delete

Delete the software configuration(s).

config-list

List software configs.

config-show

View details of a software configuration.

deployment-create

Create a software deployment.

deployment-delete

Delete the software deployment(s).

deployment-list

List software deployments.

deployment-metadata-show

Get deployment configuration metadata for the specified server.

deployment-output-show

Show a specific deployment output.

deployment-show

Show the details of a software deployment.

event

DEPRECATED!

event-list

List events for a stack.

event-show

Describe the event.

hook-clear

Clear hooks on a given stack.

hook-poll

List resources with pending hook for a stack.

output-list

Show available outputs.

output-show

Show a specific stack output.

resource-list

Show list of resources belonging to a stack.

resource-mark-unhealthy

Set resource's health.

resource-metadata

List resource metadata.

resource-show

Describe the resource.

resource-signal

Send a signal to a resource.

resource-template

DEPRECATED!

resource-type-list

List the available resource types.

resource-type-show

Show the resource type.

resource-type-template

Generate a template based on a resource type.

service-list

List the Heat engines.

snapshot-delete

Delete a snapshot of a stack.

snapshot-list

List the snapshots of a stack.

snapshot-show

Show a snapshot of a stack.

stack-abandon

Abandon the stack.

stack-adopt

Adopt a stack.

stack-cancel-update

Cancel currently running update of the stack.

stack-create

Create the stack.

stack-delete

Delete the stack(s).

stack-list

List the user's stacks.

stack-preview

Preview the stack.

stack-restore

Restore a snapshot of a stack.

stack-show

Describe the stack.

stack-snapshot

Make a snapshot of a stack.

stack-update

Update the stack.

template-function-list

List the available functions.

template-show

Get the template for the specified stack.

template-validate

Validate a template with parameters.

template-version-list

List the available template versions.

bash-completion

Prints all of the commands and options to stdout.

help

Display help about this program or one of its subcommands.

12.2. HEAT OPTIONAL ARGUMENTS

--version

Shows the client version and exits.

-d, --debug

Defaults to `env[HEATCLIENT_DEBUG]`.

-v, --verbose

Print more verbose output.

--api-timeout API_TIMEOUT

Number of seconds to wait for an API response, defaults to system socket timeout

--os-no-client-auth

Do not contact keystone for a token. Defaults to `env[OS_NO_CLIENT_AUTH]`.

--heat-url HEAT_URL

Defaults to `env[HEAT_URL]`.

--heat-api-version HEAT_API_VERSION

Defaults to `env[HEAT_API_VERSION]` or 1.

--include-password

Send os-username and os-password to heat.

-k, --insecure

Explicitly allow heatclient to perform "insecure SSL" (https) requests. The server's certificate will not be verified against any certificate authorities. This option should be used with caution.

--os-cert OS_CERT

Path of certificate file to use in SSL connection. This file can optionally be prepended with the private key.

--cert-file OS_CERT

DEPRECATED! Use --os-cert.

--os-key OS_KEY

Path of client key to use in SSL connection. This option is not necessary if your key is prepended to your cert file.

--key-file OS_KEY

DEPRECATED! Use --os-key.

--os-cacert <ca-certificate-file>

Path of CA TLS certificate(s) used to verify the remote server's certificate. Without this option glance looks for the default system CA certificates.

--ca-file OS_CACERT

DEPRECATED! Use --os-cacert.

--os-username OS_USERNAME

Defaults to `env[OS_USERNAME]`.

--os-user-id OS_USER_ID

Defaults to `env[OS_USER_ID]`.

--os-user-domain-id OS_USER_DOMAIN_ID

Defaults to `env[OS_USER_DOMAIN_ID]`.

--os-user-domain-name OS_USER_DOMAIN_NAME

Defaults to `env[OS_USER_DOMAIN_NAME]`.

--os-project-id OS_PROJECT_ID

Another way to specify tenant ID. This option is mutually exclusive with --os-tenant-id. Defaults to `env[OS_PROJECT_ID]`.

--os-project-name OS_PROJECT_NAME

Another way to specify tenant name. This option is mutually exclusive with --os-tenant-name. Defaults to `env[OS_PROJECT_NAME]`.

--os-project-domain-id OS_PROJECT_DOMAIN_ID

Defaults to `env[OS_PROJECT_DOMAIN_ID]`.

--os-project-domain-name OS_PROJECT_DOMAIN_NAME

Defaults to `env[OS_PROJECT_DOMAIN_NAME]`.

--os-password OS_PASSWORD

Defaults to `env[OS_PASSWORD]`.

--os-tenant-id OS_TENANT_ID

Defaults to `env[OS_TENANT_ID]`.

--os-tenant-name OS_TENANT_NAME

Defaults to `env[OS_TENANT_NAME]`.

--os-auth-url OS_AUTH_URL

Defaults to `env[OS_AUTH_URL]`.

--os-region-name OS_REGION_NAME

Defaults to `env[OS_REGION_NAME]`.

--os-auth-token OS_AUTH_TOKEN

Defaults to `env[OS_AUTH_TOKEN]`.

--os-service-type OS_SERVICE_TYPE

Defaults to `env[OS_SERVICE_TYPE]`.

--os-endpoint-type OS_ENDPOINT_TYPE

Defaults to `env[OS_ENDPOINT_TYPE]`.

--profile HMAC_KEY

HMAC key to use for encrypting context data for performance profiling of operation. This key should be the value of HMAC key configured in osprofiler middleware in heat, it is specified in the paste configuration (`/etc/heat/api-paste.ini`). Without the key, profiling will not be triggered even if osprofiler is enabled on server side.

12.3. HEAT ACTION-CHECK

usage: `heat action-check <NAME or ID>`

Check that stack resources are in expected states.

Positional arguments

<NAME or ID>

Name or ID of stack to check.

12.4. HEAT ACTION-RESUME

```
usage: heat action-resume <NAME or ID>
```

Resume the stack.

Positional arguments

<NAME or ID>

Name or ID of stack to resume.

12.5. HEAT ACTION-SUSPEND

```
usage: heat action-suspend <NAME or ID>
```

Suspend the stack.

Positional arguments

<NAME or ID>

Name or ID of stack to suspend.

12.6. HEAT BUILD-INFO

```
usage: heat build-info
```

Retrieve build information.

12.7. HEAT CONFIG-CREATE

```
usage: heat config-create [-f <FILE or URL>] [-c <FILE or URL>] [-g  
<GROUP_NAME>] <CONFIG_NAME>
```

Create a software configuration.

Positional arguments

<CONFIG_NAME>

Name of the configuration to create.

Optional arguments

-f <FILE or URL>, --definition-file <FILE or URL>

Path to JSON/YAML containing map defining <inputs>, <outputs>, and <options>.

-c <FILE or URL>, --config-file <FILE or URL>

Path to configuration script/data.

-g <GROUP_NAME>, --group <GROUP_NAME>

Group name of configuration tool expected by the config.

12.8. HEAT CONFIG-DELETE

```
usage: heat config-delete <ID> [<ID> ...]
```

Delete the software configuration(s).

Positional arguments

<ID>

ID of the configuration(s) to delete.

12.9. HEAT CONFIG-LIST

```
usage: heat config-list [-l <LIMIT>] [-m <ID>]
```

List software configs.

Optional arguments

-l <LIMIT>, --limit <LIMIT>

Limit the number of configs returned.

-m <ID>, --marker <ID>

Return configs that appear after the given config ID.

12.10. HEAT CONFIG-SHOW

```
usage: heat config-show [-c] <ID>
```

View details of a software configuration.

Positional arguments

<ID>

ID of the config.

Optional arguments

-c, --config-only

Only display the value of the <config> property.

12.11. HEAT DEPLOYMENT-CREATE

```
usage: heat deployment-create [-i <KEY=VALUE>] [-a <ACTION>] [-c
<CONFIG>] -s <SERVER> [-t <TRANSPORT>] [--container <CONTAINER_NAME>]
[--timeout <TIMEOUT>] <DEPLOY_NAME>
```

Create a software deployment.

Positional arguments

<DEPLOY_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.

Optional arguments

-i <KEY=VALUE>, --input-value <KEY=VALUE>

Input value to set on the deployment. This can be specified multiple times.

-a <ACTION>, --action <ACTION>

Name of action for this deployment. Can be a custom action, or one of: CREATE, UPDATE, DELETE, SUSPEND, RESUME

-c <CONFIG>, --config <CONFIG>

ID of the configuration to deploy.

-s <SERVER>, --server <SERVER>

ID of the server being deployed to.

-t <TRANSPORT>, --signal-transport <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.

NO_SIGNAL will result in the resource going to the COMPLETE state without waiting for any signal.

--container <CONTAINER_NAME>

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.

12.12. HEAT DEPLOYMENT-DELETE

```
usage: heat deployment-delete <ID> [<ID> ...]
```

Delete the software deployment(s).

Positional arguments

<ID>

ID of the deployment(s) to delete.

12.13. HEAT DEPLOYMENT-LIST

```
usage: heat deployment-list [-s <SERVER>]
```

List software deployments.

Optional arguments

-s <SERVER>, --server <SERVER>

ID of the server to fetch deployments for.

12.14. HEAT DEPLOYMENT-METADATA-SHOW

```
usage: heat deployment-metadata-show <ID>
```

Get deployment configuration metadata for the specified server.

Positional arguments

<ID>

ID of the server to fetch deployments for.

12.15. HEAT DEPLOYMENT-OUTPUT-SHOW

```
usage: heat deployment-output-show [-a] [-F <FORMAT>] <ID> [<OUTPUT  
NAME>]
```

Show a specific deployment output.

Positional arguments

<ID>

ID deployment to show the output for.

<OUTPUT NAME>

Name of an output to display.

Optional arguments

-a, --all

Display all deployment outputs.

-F <FORMAT>, --format <FORMAT>

The output value format, one of: raw, json

12.16. HEAT DEPLOYMENT-SHOW

```
usage: heat deployment-show <ID>
```

Show the details of a software deployment.

Positional arguments

<ID>

ID of the deployment.

12.17. HEAT EVENT-LIST

```
usage: heat event-list [-r <RESOURCE>] [-f
<KEY1=VALUE1;KEY2=VALUE2...>] [-l <LIMIT>] [-m <ID>] [-n <DEPTH>] [-F
<FORMAT>] <NAME or ID>
```

List events for a stack.

Positional arguments

<NAME or ID>

Name or ID of stack to show the events for.

Optional arguments

-r <RESOURCE>, --resource <RESOURCE>

Name of the resource to filter events by.

-f <KEY1=VALUE1;KEY2=VALUE2...>, --filters <KEY1=VALUE1;KEY2=VALUE2...>

Filter parameters to apply on returned events. This can be specified multiple times, or once with parameters separated by a semicolon.

-l <LIMIT>, --limit <LIMIT>

Limit the number of events returned.

-m <ID>, --marker <ID>

Only return events that appear after the given event ID.

-n <DEPTH>, --nested-depth <DEPTH>

Depth of nested stacks from which to display events. Note this cannot be specified with --resource.

-F <FORMAT>, --format <FORMAT>

The output value format, one of: log, table

12.18. HEAT EVENT-SHOW

```
usage: heat event-show <NAME or ID> <RESOURCE> <EVENT>
```

Describe the event.

Positional arguments

<NAME or ID>

Name or ID of stack to show the events for.

<RESOURCE>

Name of the resource the event belongs to.

<EVENT>

ID of event to display details for.

12.19. HEAT HOOK-CLEAR

```
usage: heat hook-clear [--pre-create] [--pre-update] <NAME or ID>  
      <RESOURCE> [<RESOURCE> ...]
```

Clear hooks on a given stack.

Positional arguments

<NAME or ID>

Name or ID of the stack these resources belong to.

<RESOURCE>

Resource names with hooks to clear. 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`

Optional arguments

--pre-create

Clear the pre-create hooks (optional)

--pre-update

Clear the pre-update hooks (optional)

12.20. HEAT HOOK-POLL

```
usage: heat hook-poll [-n <DEPTH>] <NAME or ID>
```

List resources with pending hook for a stack.

Positional arguments

<NAME or ID>

Name or ID of stack to show the pending hooks for.

Optional arguments

-n <DEPTH>, --nested-depth <DEPTH>

Depth of nested stacks from which to display hooks.

12.21. HEAT OUTPUT-LIST

```
usage: heat output-list <NAME or ID>
```

Show available outputs.

Positional arguments

<NAME or ID>

Name or ID of stack to query.

12.22. HEAT OUTPUT-SHOW

```
usage: heat output-show [-F <FORMAT>] [-a] [--with-detail] <NAME or ID>
[<OUTPUT NAME>]
```

Show a specific stack output.

Positional arguments

<NAME or ID>

Name or ID of stack to query.

<OUTPUT NAME>

Name of an output to display.

Optional arguments

-F <FORMAT>, --format <FORMAT>

The output value format, one of: json, raw.

-a, --all

Display all stack outputs.

--with-detail

Enable detail information presented, like key and description.

12.23. HEAT RESOURCE-LIST

```
usage: heat resource-list [-n <DEPTH>] [--with-detail] [-f <KEY=VALUE>]
<NAME or ID>
```

Show list of resources belonging to a stack.

Positional arguments

<NAME or ID>

Name or ID of stack to show the resources for.

Optional arguments

-n <DEPTH>, --nested-depth <DEPTH>

Depth of nested stacks from which to display resources.

--with-detail

Enable detail information presented for each resource in resources list.

-f <KEY=VALUE>, --filter <KEY=VALUE>

Filter parameters to apply on returned resources based on their name, status, type, action, id and physical_resource_id. This can be specified multiple times.

12.24. HEAT RESOURCE-MARK-UNHEALTHY

```
usage: heat resource-mark-unhealthy [--reset] <NAME or ID> <RESOURCE>
[reason]
```

Set resource's health.

Positional arguments

<NAME or ID>

Name or ID of stack the resource belongs to.

<RESOURCE>

Name of the resource.

reason

Reason for state change.

Optional arguments

--reset

Set the resource as healthy.

12.25. HEAT RESOURCE-METADATA

```
usage: heat resource-metadata <NAME or ID> <RESOURCE>
```

List resource metadata.

Positional arguments

<NAME or ID>

Name or ID of stack to show the resource metadata for.

<RESOURCE>

Name of the resource to show the metadata for.

12.26. HEAT RESOURCE-SHOW

```
usage: heat resource-show [-a <ATTRIBUTE>] <NAME or ID> <RESOURCE>
```

Describe the resource.

Positional arguments

<NAME or ID>

Name or ID of stack to show the resource for.

<RESOURCE>

Name of the resource to show the details for.

Optional arguments

-a <ATTRIBUTE>, --with-attr <ATTRIBUTE>

Attribute to show, it can be specified multiple times.

12.27. HEAT RESOURCE-SIGNAL

```
usage: heat resource-signal [-D <DATA>] [-f <FILE>] <NAME or ID>
<RESOURCE>
```

Send a signal to a resource.

Positional arguments

<NAME or ID>

Name or ID of stack the resource belongs to.

<RESOURCE>

Name of the resource to signal.

Optional arguments

-D <DATA>, --data <DATA>

JSON Data to send to the signal handler.

-f <FILE>, --data-file <FILE>

File containing JSON data to send to the signal handler.

12.28. HEAT RESOURCE-TYPE-LIST

```
usage: heat resource-type-list [-f <KEY1=VALUE1;KEY2=VALUE2...>]
```

List the available resource types.

Optional arguments

-f <KEY1=VALUE1;KEY2=VALUE2...>, --filters <KEY1=VALUE1;KEY2=VALUE2...>

Filter parameters to apply on returned resource types. This can be specified multiple times, or once with parameters separated by a semicolon. It can be any of name, version and support_status

12.29. HEAT RESOURCE-TYPE-SHOW

```
usage: heat resource-type-show <RESOURCE_TYPE>
```

Show the resource type.

Positional arguments

<RESOURCE_TYPE>

Resource type to get the details for.

12.30. HEAT RESOURCE-TYPE-TEMPLATE

```
usage: heat resource-type-template [-t <TEMPLATE_TYPE>] [-F <FORMAT>]
<RESOURCE_TYPE>
```

Generate a template based on a resource type.

Positional arguments

<RESOURCE_TYPE>

Resource type to generate a template for.

Optional arguments

-t <TEMPLATE_TYPE>, --template-type <TEMPLATE_TYPE>

Template type to generate, hot or cfn.

-F <FORMAT>, --format <FORMAT>

The template output format, one of: yaml, json.

12.31. HEAT SERVICE-LIST

```
usage: heat service-list
```

List the Heat engines.

12.32. HEAT SNAPSHOT-DELETE

```
usage: heat snapshot-delete <NAME or ID> <SNAPSHOT>
```

Delete a snapshot of a stack.

Positional arguments

<NAME or ID>

Name or ID of the stack containing the snapshot.

<SNAPSHOT>

The ID of the snapshot to delete.

12.33. HEAT SNAPSHOT-LIST

```
usage: heat snapshot-list <NAME or ID>
```

List the snapshots of a stack.

Positional arguments

<NAME or ID>

Name or ID of the stack containing the snapshots.

12.34. HEAT SNAPSHOT-SHOW

```
usage: heat snapshot-show <NAME or ID> <SNAPSHOT>
```

Show a snapshot of a stack.

Positional arguments

<NAME or ID>

Name or ID of the stack containing the snapshot.

<SNAPSHOT>

The ID of the snapshot to show.

12.35. HEAT STACK-ABANDON

```
usage: heat stack-abandon [-O <FILE>] <NAME or ID>
```

Abandon the stack. This will delete the record of the stack from Heat, but will not delete any of the underlying resources. Prints an adoptable JSON representation of the stack to stdout or a file on success.

Positional arguments

<NAME or ID>

Name or ID of stack to abandon.

Optional arguments

-O <FILE>, --output-file <FILE>

file to output abandon result. If the option is specified, the result will be output into <FILE>.

12.36. HEAT STACK-ADOPT

```
usage: heat stack-adopt [-e <FILE or URL>] [-c <TIMEOUT>] [-t  
<TIMEOUT>] [-a <FILE or URL>] [-r] [-P <KEY1=VALUE1;KEY2=VALUE2...>]  
<STACK_NAME>
```

Adopt a stack.

Positional arguments

<STACK_NAME>

Name of the stack to adopt.

Optional arguments

-e <FILE or URL>, --environment-file <FILE or URL>

Path to the environment, it can be specified multiple times.

-c <TIMEOUT>, --create-timeout <TIMEOUT>

Stack creation timeout in minutes. *DEPRECATED* use --timeout instead.

-t <TIMEOUT>, --timeout <TIMEOUT>

Stack creation timeout in minutes.

-a <FILE or URL>, --adopt-file <FILE or URL>

Path to adopt stack data file.

-r, --enable-rollback

Enable rollback on create/update failure.

**-P <KEY1=VALUE1;KEY2=VALUE2...>, --parameters
<KEY1=VALUE1;KEY2=VALUE2...>**

Parameter values used to create the stack. This can be specified multiple times, or once with parameters separated by a semicolon.

12.37. HEAT STACK-CANCEL-UPDATE

usage: heat stack-cancel-update <NAME or ID>

Cancel currently running update of the stack.

Positional arguments

<NAME or ID>

Name or ID of stack to cancel update for.

12.38. HEAT STACK-CREATE

```
usage: heat stack-create [-f <FILE>] [-e <FILE or URL>] [--pre-create
<RESOURCE>] [-u <URL>] [-o <URL>] [-c <TIMEOUT>] [-t <TIMEOUT>] [-r]
[-P <KEY1=VALUE1;KEY2=VALUE2...>] [-Pf <KEY=FILE>] [--poll [SECONDS]]
[--tags <TAG1,TAG2>] <STACK_NAME>
```

Create the stack.

Positional arguments

<STACK_NAME>

Name of the stack to create.

Optional arguments

-f <FILE>, --template-file <FILE>

Path to the template.

-e <FILE or URL>, --environment-file <FILE or URL>

Path to the environment, it can be specified multiple times.

--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

-u <URL>, --template-url <URL>

URL of template.

-o <URL>, --template-object <URL>

URL to retrieve template object (e.g. from swift).

-c <TIMEOUT>, --create-timeout <TIMEOUT>

Stack creation timeout in minutes. *DEPRECATED* use `--timeout` instead.

-t <TIMEOUT>, --timeout <TIMEOUT>

Stack creation timeout in minutes.

-r, --enable-rollback

Enable rollback on create/update failure.

**-P <KEY1=VALUE1;KEY2=VALUE2...>, --parameters
<KEY1=VALUE1;KEY2=VALUE2...>**

Parameter values used to create the stack. This can be specified multiple times, or once with parameters separated by a semicolon.

-Pf <KEY=FILE>, --parameter-file <KEY=FILE>

Parameter values from file used to create the stack. This can be specified multiple times. Parameter value would be the content of the file

--poll [SECONDS]

Poll and report events until stack completes. Optional poll interval in seconds can be provided as argument, default 5.

--tags <TAG1,TAG2>

A list of tags to associate with the stack.

12.39. HEAT STACK-DELETE

```
usage: heat stack-delete [-y] <NAME or ID> [<NAME or ID> ...]
```

Delete the stack(s).

Positional arguments

<NAME or ID>

Name or ID of stack(s) to delete.

Optional arguments

-y, --yes

Skip yes/no prompt (assume yes).

12.40. HEAT STACK-LIST

```
usage: heat stack-list [-s] [-n] [-a] [-f <KEY1=VALUE1;KEY2=VALUE2...>]
  [-t <TAG1,TAG2...>] [--tags-any <TAG1,TAG2...>] [--not-tags
  <TAG1,TAG2...>] [--not-tags-any <TAG1,TAG2...>] [-l <LIMIT>] [-m <ID>]
  [-k <KEY1;KEY2...>] [-d [asc|desc]] [-g] [-o]
```

List the user's stacks.

Optional arguments

-s, --show-deleted

Include soft-deleted stacks in the stack listing.

-n, --show-nested

Include nested stacks in the stack listing.

-a, --show-hidden

Include hidden stacks in the stack listing.

-f <KEY1=VALUE1;KEY2=VALUE2...>, --filters <KEY1=VALUE1;KEY2=VALUE2...>

Filter parameters to apply on returned stacks. This can be specified multiple times, or once with parameters separated by a semicolon.

-t <TAG1,TAG2...>, --tags <TAG1,TAG2...>

Show stacks containing these tags, combine multiple tags using the boolean AND expression

--tags-any <TAG1,TAG2...>

Show stacks containing these tags, combine multiple tags using the boolean OR expression

--not-tags <TAG1,TAG2...>

Show stacks not containing these tags, combine multiple tags using the boolean AND expression

--not-tags-any <TAG1,TAG2...>

Show stacks not containing these tags, combine multiple tags using the boolean OR expression

-l <LIMIT>, --limit <LIMIT>

Limit the number of stacks returned.

-m <ID>, --marker <ID>

Only return stacks that appear after the given stack ID.

-k <KEY1;KEY2...>, --sort-keys <KEY1;KEY2...>

List of keys for sorting the returned stacks. This can be specified multiple times or once with keys separated by semicolons. Valid sorting keys include "stack_name", "stack_status", "creation_time" and "updated_time".

-d [asc|desc], --sort-dir [asc|desc]

Sorting direction (either "asc" or "desc") for the sorting keys.

-g, --global-tenant

Display stacks from all tenants. Operation only authorized for users who match the policy in heat's policy.json.

-o, --show-owner

Display stack owner information. This is automatically enabled when using --global-tenant.

12.41. HEAT STACK-PREVIEW

```
usage: heat stack-preview [-f <FILE>] [-e <FILE or URL>] [-u <URL>] [-o <URL>] [-t <TIMEOUT>] [-r] [-P <KEY1=VALUE1;KEY2=VALUE2...>] [-Pf <KEY=FILE>] [--tags <TAG1,TAG2>] <STACK_NAME>
```

Preview the stack.

Positional arguments

<STACK_NAME>

Name of the stack to preview.

Optional arguments

-f <FILE>, --template-file <FILE>

Path to the template.

-e <FILE or URL>, --environment-file <FILE or URL>

Path to the environment, it can be specified multiple times.

-u <URL>, --template-url <URL>

URL of template.

-o <URL>, --template-object <URL>

URL to retrieve template object (e.g. from swift)

-t <TIMEOUT>, --timeout <TIMEOUT>

Stack creation timeout in minutes. This is only used during validation in preview.

-r, --enable-rollback

Enable rollback on failure. This option is not used during preview and exists only for symmetry with stack-create.

**-P <KEY1=VALUE1;KEY2=VALUE2...>, --parameters
<KEY1=VALUE1;KEY2=VALUE2...>**

Parameter values used to preview the stack. This can be specified multiple times, or once with parameters separated by semicolon.

-Pf <KEY=FILE>, --parameter-file <KEY=FILE>

Parameter values from file used to create the stack. This can be specified multiple times. Parameter value would be the content of the file

--tags <TAG1,TAG2>

A list of tags to associate with the stack.

12.42. HEAT STACK-RESTORE

usage: heat stack-restore <NAME or ID> <SNAPSHOT>

Restore a snapshot of a stack.

Positional arguments

<NAME or ID>

Name or ID of the stack containing the snapshot.

<SNAPSHOT>

The ID of the snapshot to restore.

12.43. HEAT STACK-SHOW

```
usage: heat stack-show [--no-resolve-outputs] <NAME or ID>
```

Describe the stack.

Positional arguments

<NAME or ID>

Name or ID of stack to describe.

Optional arguments

--no-resolve-outputs

Do not resolve outputs of the stack.

12.44. HEAT STACK-APSHOT

```
usage: heat stack-snapshot [-n <NAME>] <NAME or ID>
```

Make a snapshot of a stack.

Positional arguments

<NAME or ID>

Name or ID of stack to snapshot.

Optional arguments

-n <NAME>, --name <NAME>

If specified, the name given to the snapshot.

12.45. HEAT STACK-UPDATE

```
usage: heat stack-update [-f <FILE>] [-e <FILE or URL>] [--pre-update
<RESOURCE>] [-u <URL>] [-o <URL>] [-t <TIMEOUT>] [-r] [--rollback
<VALUE>] [-y] [-n] [-P <KEY1=VALUE1;KEY2=VALUE2...>] [-Pf <KEY=FILE>]
[-x] [-c <PARAMETER>] [--tags <TAG1,TAG2>] <NAME or ID>
```

Update the stack.

Positional arguments

<NAME or ID>

Name or ID of stack to update.

Optional arguments

-f <FILE>, --template-file <FILE>

Path to the template.

-e <FILE or URL>, --environment-file <FILE or URL>

Path to the environment, it can be specified multiple times.

--pre-update <RESOURCE>

Name of a resource to set a pre-update 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

-u <URL>, --template-url <URL>

URL of template.

-o <URL>, --template-object <URL>

URL to retrieve template object (e.g. from swift).

-t <TIMEOUT>, --timeout <TIMEOUT>

Stack update timeout in minutes.

-r, --enable-rollback

DEPRECATED! Use `--rollback` argument instead. Enable rollback on stack update failure. NOTE: default behavior is now to use the rollback value of existing stack.

--rollback <VALUE>

Set rollback on update failure. Values ('1', 't', 'true', 'on', 'y', 'yes') set rollback to enabled. Values ('0', 'f', 'false', 'off', 'n', 'no') set rollback to disabled. Default is to use the value of existing stack to be updated.

-y, --dry-run

Do not actually perform the stack update, but show what would be changed

-n, --show-nested

Show nested stacks when performing --dry-run

**-P <KEY1=VALUE1;KEY2=VALUE2...>, --parameters
<KEY1=VALUE1;KEY2=VALUE2...>**

Parameter values used to create the stack. This can be specified multiple times, or once with parameters separated by a semicolon.

-Pf <KEY=FILE>, --parameter-file <KEY=FILE>

Parameter values from file used to create the stack. This can be specified multiple times. Parameter value would be the content of the file

-x, --existing

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 --environment-file is specified then the existing environment is used. Parameters specified in --parameters will patch over the existing values in the current stack. Parameters omitted will keep the existing values.

-c <PARAMETER>, --clear-parameter <PARAMETER>

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.

--tags <TAG1,TAG2>

An updated list of tags to associate with the stack.

12.46. HEAT TEMPLATE-FUNCTION-LIST

```
usage: heat template-function-list <TEMPLATE_VERSION>
```

List the available functions.

Positional arguments**<TEMPLATE_VERSION>**

Template version to get the functions for.

12.47. HEAT TEMPLATE-SHOW

```
usage: heat template-show <NAME or ID>
```

Get the template for the specified stack.

Positional arguments

<NAME or ID>

Name or ID of stack to get the template for.

12.48. HEAT TEMPLATE-VALIDATE

```
usage: heat template-validate [-u <URL>] [-f <FILE>] [-e <FILE or
URL>] [-o <URL>] [-n] [-P <KEY1=VALUE1;KEY2=VALUE2...>] [-I
<ERR1,ERR2...>]
```

Validate a template with parameters.

Optional arguments

-u <URL>, --template-url <URL>

URL of template.

-f <FILE>, --template-file <FILE>

Path to the template.

-e <FILE or URL>, --environment-file <FILE or URL>

Path to the environment, it can be specified multiple times.

-o <URL>, --template-object <URL>

URL to retrieve template object (e.g. from swift).

-n, --show-nested

Resolve parameters from nested templates as well.

**-P <KEY1=VALUE1;KEY2=VALUE2...>, --parameters
<KEY1=VALUE1;KEY2=VALUE2...>**

Parameter values for the template. This can be specified multiple times, or once with parameters separated by a semicolon.

-I <ERR1,ERR2...>, --ignore-errors <ERR1,ERR2...>

List of heat errors to ignore.

12.49. HEAT TEMPLATE-VERSION-LIST

```
usage: heat template-version-list
```

List the available template versions.

CHAPTER 13. TELEMETRY SERVICE COMMAND-LINE CLIENT

The **ceilometer** client is the command-line interface (CLI) for the Telemetry service API and its extensions. This chapter documents **ceilometer** version **2.3.0**.

For help on a specific **ceilometer** command, enter:

```
$ ceilometer help COMMAND
```

13.1. CEILOMETER USAGE

```
usage: ceilometer [--version] [-d] [-v] [--timeout TIMEOUT] [--
ceilometer-url <CEILOMETER_URL>] [--ceilometer-api-version
CEILOMETER_API_VERSION] [--os-tenant-id <tenant-id>] [--os-region-name
<region-name>] [--os-auth-token <auth-token>] [--os-service-type
<service-type>] [--os-endpoint-type <endpoint-type>] [--os-cacert
<cacert>] [--os-insecure <insecure>] [--os-cert-file <cert-file>] [--
os-key-file <key-file>] [--os-cert <cert>] [--os-key <key>] [--os-
project-name <project-name>] [--os-project-id <project-id>] [--os-
project-domain-id <project-domain-id>] [--os-project-domain-name
<project-domain-name>] [--os-user-id <user-id>] [--os-user-domain-id
<user-domain-id>] [--os-user-domain-name <user-domain-name>] [--os-
endpoint <endpoint>] [--os-auth-system <auth-system>] [--os-username
<username>] [--os-password <password>] [--os-tenant-name <tenant-name>]
[--os-token <token>] [--os-auth-url <auth-url>] <subcommand> ...
```

Subcommands

alarm-combination-create

Create a new alarm based on state of other alarms.

alarm-combination-update

Update an existing alarm based on state of other alarms.

alarm-create

Create a new alarm (Deprecated). Use **alarm-threshold-create** instead.

alarm-delete

Delete an alarm.

alarm-event-create

Create a new alarm based on events.

alarm-event-update

Update an existing alarm based on events.

alarm-gnocchi-aggregation-by-metrics-threshold-create

Create a new alarm based on computed statistics.

alarm-gnocchi-aggregation-by-metrics-threshold-update

Update an existing alarm based on computed statistics.

alarm-gnocchi-aggregation-by-resources-threshold-create

Create a new alarm based on computed statistics.

alarm-gnocchi-aggregation-by-resources-threshold-update

Update an existing alarm based on computed statistics.

alarm-gnocchi-resources-threshold-create

Create a new alarm based on computed statistics.

alarm-gnocchi-resources-threshold-update

Update an existing alarm based on computed statistics.

alarm-history

Display the change history of an alarm.

alarm-list

List the user's alarms.

alarm-show

Show an alarm.

alarm-state-get

Get the state of an alarm.

alarm-state-set

Set the state of an alarm.

alarm-threshold-create

Create a new alarm based on computed statistics.

alarm-threshold-update

Update an existing alarm based on computed statistics.

alarm-update

Update an existing alarm (Deprecated).

capabilities

Print Ceilometer capabilities.

event-list

List events.

event-show

Show a particular event.

event-type-list

List event types.

meter-list

List the user's meters.

query-alarm-history

Query Alarm History.

query-alarms

Query Alarms.

query-samples

Query samples.

resource-list

List the resources.

resource-show

Show the resource.

sample-create

Create a sample.

sample-create-list

Create a sample list.

sample-list

List the samples (return OldSample objects if -m/--meter is set).

sample-show

Show a sample.

statistics

List the statistics for a meter.

trait-description-list

List trait info for an event type.

trait-list

List all traits with name <trait_name> for Event Type <event_type>.

bash-completion

Prints all of the commands and options to stdout.

help

Display help about this program or one of its subcommands.

13.2. CEILOMETER OPTIONAL ARGUMENTS

--version

show program's version number and exit

-d, --debug

Defaults to `env[CEILOMETERCLIENT_DEBUG]`.

-v, --verbose

Print more verbose output.

--timeout TIMEOUT

Number of seconds to wait for a response.

--ceilometer-url <CEILOMETER_URL>

DEPRECATED, use `--os-endpoint` instead. Defaults to `env[CEILOMETER_URL]`.

--ceilometer-api-version CEILOMETER_API_VERSION

Defaults to `env[CEILOMETER_API_VERSION]` or 2.

--os-tenant-id <tenant-id>

Defaults to `env[OS_TENANT_ID]`.

--os-region-name <region-name>

Defaults to `env[OS_REGION_NAME]`.

--os-auth-token <auth-token>

Defaults to `env[OS_AUTH_TOKEN]`.

--os-service-type <service-type>

Defaults to `env[OS_SERVICE_TYPE]`.

--os-endpoint-type <endpoint-type>

Defaults to `env[OS_ENDPOINT_TYPE]`.

--os-cacert <cacert>

Defaults to `env[OS_CACERT]`.

--os-insecure <insecure>

Defaults to `env[OS_INSECURE]`.

--os-cert-file <cert-file>

Defaults to `env[OS_CERT_FILE]`.

--os-key-file <key-file>

Defaults to `env[OS_KEY_FILE]`.

--os-cert <cert>

Defaults to `env[OS_CERT]`.

--os-key <key>

Defaults to `env[OS_KEY]`.

--os-project-name <project-name>

Defaults to `env[OS_PROJECT_NAME]`.

--os-project-id <project-id>

Defaults to `env[OS_PROJECT_ID]`.

--os-project-domain-id <project-domain-id>

Defaults to `env[OS_PROJECT_DOMAIN_ID]`.

--os-project-domain-name <project-domain-name>

Defaults to `env[OS_PROJECT_DOMAIN_NAME]`.

--os-user-id <user-id>

Defaults to `env[OS_USER_ID]`.

--os-user-domain-id <user-domain-id>

Defaults to `env[OS_USER_DOMAIN_ID]`.

--os-user-domain-name <user-domain-name>

Defaults to `env[OS_USER_DOMAIN_NAME]`.

--os-endpoint <endpoint>

Defaults to **env[OS_ENDPOINT]**.

--os-auth-system <auth-system>

Defaults to **env[OS_AUTH_SYSTEM]**.

--os-username <username>

Defaults to **env[OS_USERNAME]**.

--os-password <password>

Defaults to **env[OS_PASSWORD]**.

--os-tenant-name <tenant-name>

Defaults to **env[OS_TENANT_NAME]**.

--os-token <token>

Defaults to **env[OS_TOKEN]**.

--os-auth-url <auth-url>

Defaults to **env[OS_AUTH_URL]**.

13.3. CEILOMETER ALARM-COMBINATION-CREATE

```
usage: ceilometer alarm-combination-create --name <NAME> [--project-id
<ALARM_PROJECT_ID>] [--user-id <ALARM_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}] --alarm_ids <ALARM
IDS> [--operator <OPERATOR>]
```

Create a new alarm based on state of other alarms.

Optional arguments

--name <NAME>

Name of the alarm (must be unique per tenant). Required.

--project-id <ALARM_PROJECT_ID>

Tenant to associate with alarm (configurable by admin users only).

--user-id <ALARM_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']

--enabled {True|False}

True if alarm evaluation/actioning is enabled.

--alarm-action <Webhook URL>

URL to invoke when state transitions to alarm. May be used multiple times. Defaults to None.

--ok-action <Webhook URL>

URL to invoke when state transitions to OK. May be used multiple times. Defaults to None.

--insufficient-data-action <Webhook URL>

URL to invoke when state transitions to insufficient data. May be used multiple times. Defaults to None.

--time-constraint <Time Constraint>

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>;[time zone=<IANA Timezone>]] Defaults to None.

--repeat-actions {True|False}

True if actions should be repeatedly notified while alarm remains in target state. Defaults to False.

--alarm_ids <ALARM_IDS>

List of alarm IDs. Required.

--operator <OPERATOR>

Operator to compare with, one of: ['and', 'or'].

13.4. CEILOMETER ALARM-COMBINATION-UPDATE

```
usage: ceilometer alarm-combination-update [--name <NAME>] [--project-id <ALARM_PROJECT_ID>] [--user-id <ALARM_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}] [--remove-time-constraint <Constraint names>] [--alarm_ids <ALARM_IDS>] [--operator <OPERATOR>] [<ALARM_ID>]
```

Update an existing alarm based on state of other alarms.

Positional arguments

<ALARM_ID>

ID of the alarm to update.

Optional arguments

--name <NAME>

Name of the alarm (must be unique per tenant).

--project-id <ALARM_PROJECT_ID>

Tenant to associate with alarm (configurable by admin users only).

--user-id <ALARM_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']

--enabled {True|False}

True if alarm evaluation/actioning is enabled.

--alarm-action <Webhook URL>

URL to invoke when state transitions to alarm. May be used multiple times. Defaults to None.

--ok-action <Webhook URL>

URL to invoke when state transitions to OK. May be used multiple times. Defaults to None.

--insufficient-data-action <Webhook URL>

URL to invoke when state transitions to insufficient data. May be used multiple times. Defaults to None.

--time-constraint <Time Constraint>

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>;[time zone=<IANA Timezone>]] Defaults to None.

--repeat-actions {True|False}

True if actions should be repeatedly notified while alarm remains in target state. Defaults to False.

--remove-time-constraint <Constraint names>

Name or list of names of the time constraints to remove.

--alarm_ids <ALARM IDS>

List of alarm IDs.

--operator <OPERATOR>

Operator to compare with, one of: ['and', 'or'].

13.5. CEILOMETER ALARM-DELETE

```
usage: ceilometer alarm-delete [<ALARM_ID>]
```

Delete an alarm.

Positional arguments

<ALARM_ID>

ID of the alarm to delete.

13.6. CEILOMETER ALARM-EVENT-CREATE

```
usage: ceilometer alarm-event-create --name <NAME> [--project-id
<ALARM_PROJECT_ID>] [--user-id <ALARM_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}] [--event-type
<EVENT_TYPE>] [-q <QUERY>]
```

Create a new alarm based on events.

Optional arguments

--name <NAME>

Name of the alarm (must be unique per tenant). Required.

--project-id <ALARM_PROJECT_ID>

Tenant to associate with alarm (configurable by admin users only).

--user-id <ALARM_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']

--enabled {True|False}

True if alarm evaluation/actioning is enabled.

--alarm-action <Webhook URL>

URL to invoke when state transitions to alarm. May be used multiple times. Defaults to None.

--ok-action <Webhook URL>

URL to invoke when state transitions to OK. May be used multiple times. Defaults to None.

--insufficient-data-action <Webhook URL>

URL to invoke when state transitions to insufficient data. May be used multiple times. Defaults to None.

--time-constraint <Time Constraint>

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>;[time zone=<IANA Timezone>]] Defaults to None.

--repeat-actions {True|False}

True if actions should be repeatedly notified while alarm remains in target state. Defaults to False.

--event-type <EVENT_TYPE>

Event type for event alarm.

-q <QUERY>, --query <QUERY>

key[op]data_type::value; list for filtering events. data_type is optional, but if supplied must be string, integer, float or datetime.

13.7. CEILOMETER ALARM-EVENT-UPDATE

```
usage: ceilometer alarm-event-update [--name <NAME>] [--project-id
<ALARM_PROJECT_ID>] [--user-id <ALARM_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}] [--event-type  
<EVENT_TYPE>] [-q <QUERY>] [<ALARM_ID>]
```

Update an existing alarm based on events.

Positional arguments

<ALARM_ID>

ID of the alarm to update.

Optional arguments

--name <NAME>

Name of the alarm (must be unique per tenant).

--project-id <ALARM_PROJECT_ID>

Tenant to associate with alarm (configurable by admin users only).

--user-id <ALARM_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']

--enabled {True|False}

True if alarm evaluation/actioning is enabled.

--alarm-action <Webhook URL>

URL to invoke when state transitions to alarm. May be used multiple times. Defaults to None.

--ok-action <Webhook URL>

URL to invoke when state transitions to OK. May be used multiple times. Defaults to None.

--insufficient-data-action <Webhook URL>

URL to invoke when state transitions to insufficient data. May be used multiple times. Defaults to None.

--time-constraint <Time Constraint>

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>;[timezones=<IANA Timezone>]] Defaults to None.

--repeat-actions {True|False}

True if actions should be repeatedly notified while alarm remains in target state. Defaults to False.

--event-type <EVENT_TYPE>

Event type for event alarm.

-q <QUERY>, --query <QUERY>

key[op]data_type::value; list for filtering events. data_type is optional, but if supplied must be string, integer, float or datetime.

13.8. CEILOMETER ALARM-GNOCCHI-AGGREGATION-BY-METRICS-THRESHOLD-CREATE

```
usage: ceilometer alarm-gnocchi-aggregation-by-metrics-threshold-create
--name <NAME> [--project-id <ALARM_PROJECT_ID>] [--user-id
<ALARM_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}] [--granularity <GRANULARITY>] [--evaluation-periods
<COUNT>] [--aggregation-method <AGGREGATION>] [--comparison-operator
<OPERATOR>] --threshold <THRESHOLD> -m <METRICS>
```

Create a new alarm based on computed statistics.

Optional arguments

--name <NAME>

Name of the alarm (must be unique per tenant). Required.

--project-id <ALARM_PROJECT_ID>

Tenant to associate with alarm (configurable by admin users only).

--user-id <ALARM_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']

--enabled {True|False}

True if alarm evaluation/actioning is enabled.

--alarm-action <Webhook URL>

URL to invoke when state transitions to alarm. May be used multiple times. Defaults to None.

--ok-action <Webhook URL>

URL to invoke when state transitions to OK. May be used multiple times. Defaults to None.

--insufficient-data-action <Webhook URL>

URL to invoke when state transitions to insufficient data. May be used multiple times. Defaults to None.

--time-constraint <Time Constraint>

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>;[timez one=<IANA Timezone>]] Defaults to None.

--repeat-actions {True|False}

True if actions should be repeatedly notified while alarm remains in target state. Defaults to False.

--granularity <GRANULARITY>

Length of each period (seconds) to evaluate over.

--evaluation-periods <COUNT>

Number of periods to evaluate over.

--aggregation-method <AGGREATION>

Aggregation method to use, one of: ['last', 'min', 'median', 'sum', 'std', 'first', 'mean', 'count', 'moving-average', 'max', '1pct', '2pct', '3pct', '4pct', '5pct', '6pct', '7pct', '8pct', '9pct', '10pct', '11pct', '12pct', '13pct', '14pct', '15pct', '16pct', '17pct', '18pct', '19pct', '20pct', '21pct', '22pct', '23pct', '24pct', '25pct', '26pct', '27pct', '28pct', '29pct', '30pct', '31pct', '32pct', '33pct', '34pct', '35pct', '36pct', '37pct', '38pct', '39pct', '40pct', '41pct', '42pct', '43pct', '44pct', '45pct', '46pct', '47pct', '48pct', '49pct', '50pct', '51pct', '52pct', '53pct', '54pct', '55pct', '56pct', '57pct', '58pct', '59pct', '60pct', '61pct', '62pct', '63pct', '64pct', '65pct', '66pct', '67pct', '68pct', '69pct', '70pct', '71pct', '72pct', '73pct', '74pct', '75pct', '76pct', '77pct', '78pct', '79pct', '80pct', '81pct', '82pct', '83pct', '84pct', '85pct', '86pct', '87pct', '88pct', '89pct', '90pct', '91pct', '92pct', '93pct', '94pct', '95pct', '96pct', '97pct', '98pct', '99pct'].

--comparison-operator <OPERATOR>

Operator to compare with, one of: ['lt', 'le', 'eq', 'ne', 'ge', 'gt'].

--threshold <THRESHOLD>

Threshold to evaluate against. Required.

-m <METRICS>, --metrics <METRICS>

Metric to evaluate against. Required.

13.9. CEILOMETER ALARM-GNOCCHI-AGGREGATION-BY-METRICS-THRESHOLD-UPDATE

```
usage: ceilometer alarm-gnocchi-aggregation-by-metrics-threshold-update
[--name <NAME>] [--project-id <ALARM_PROJECT_ID>] [--user-id
<ALARM_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}] [--granularity <GRANULARITY>] [--evaluation-periods  
<COUNT>] [--aggregation-method <AGGREGATION>] [--comparison-operator  
<OPERATOR>] [--threshold <THRESHOLD>] [-m <METRICS>] [--remove-time-  
constraint <Constraint names>] [<ALARM_ID>]
```

Update an existing alarm based on computed statistics.

Positional arguments

<ALARM_ID>

ID of the alarm to update.

Optional arguments

--name <NAME>

Name of the alarm (must be unique per tenant).

--project-id <ALARM_PROJECT_ID>

Tenant to associate with alarm (configurable by admin users only).

--user-id <ALARM_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']

--enabled {True|False}

True if alarm evaluation/actioning is enabled.

--alarm-action <Webhook URL>

URL to invoke when state transitions to alarm. May be used multiple times. Defaults to None.

--ok-action <Webhook URL>

URL to invoke when state transitions to OK. May be used multiple times. Defaults to None.

--insufficient-data-action <Webhook URL>

URL to invoke when state transitions to insufficient data. May be used multiple times. Defaults to None.

--time-constraint <Time Constraint>

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>]] Defaults to None.

--repeat-actions {True|False}

True if actions should be repeatedly notified while alarm remains in target state. Defaults to False.

--granularity <GRANULARITY>

Length of each period (seconds) to evaluate over.

--evaluation-periods <COUNT>

Number of periods to evaluate over.

--aggregation-method <AGGREGATION>

Aggregation method to use, one of: ['last', 'min', 'median', 'sum', 'std', 'first', 'mean', 'count', 'moving-average', 'max', '1pct', '2pct', '3pct', '4pct', '5pct', '6pct', '7pct', '8pct', '9pct', '10pct', '11pct', '12pct', '13pct', '14pct', '15pct', '16pct', '17pct', '18pct', '19pct', '20pct', '21pct', '22pct', '23pct', '24pct', '25pct', '26pct', '27pct', '28pct', '29pct', '30pct', '31pct', '32pct', '33pct', '34pct', '35pct', '36pct', '37pct', '38pct', '39pct', '40pct', '41pct', '42pct', '43pct', '44pct', '45pct', '46pct', '47pct', '48pct', '49pct', '50pct', '51pct', '52pct', '53pct', '54pct', '55pct', '56pct', '57pct', '58pct', '59pct', '60pct', '61pct', '62pct', '63pct', '64pct', '65pct', '66pct', '67pct', '68pct', '69pct', '70pct', '71pct', '72pct', '73pct', '74pct', '75pct', '76pct', '77pct', '78pct', '79pct', '80pct', '81pct', '82pct', '83pct', '84pct', '85pct', '86pct', '87pct', '88pct', '89pct', '90pct', '91pct', '92pct', '93pct', '94pct', '95pct', '96pct', '97pct', '98pct', '99pct'].

--comparison-operator <OPERATOR>

Operator to compare with, one of: ['lt', 'le', 'eq', 'ne', 'ge', 'gt'].

--threshold <THRESHOLD>

Threshold to evaluate against.

-m <METRICS>, --metrics <METRICS>

Metric to evaluate against.

--remove-time-constraint <Constraint names>

Name or list of names of the time constraints to remove.

13.10. CEILOMETER ALARM-GNOCCHI-AGGREGATION-BY-RESOURCES-THRESHOLD-CREATE

```
usage: ceilometer alarm-gnocchi-aggregation-by-resources-threshold-
create --name <NAME> [--project-id <ALARM_PROJECT_ID>] [--user-id
<ALARM_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}] [--granularity <GRANULARITY>] [--evaluation-periods
<COUNT>] [--aggregation-method <AGGREATION>] [--comparison-operator
<OPERATOR>] --threshold <THRESHOLD> -m <METRIC> --resource-type
<RESOURCE_TYPE> --query <QUERY>
```

Create a new alarm based on computed statistics.

Optional arguments

--name <NAME>

Name of the alarm (must be unique per tenant). Required.

--project-id <ALARM_PROJECT_ID>

Tenant to associate with alarm (configurable by admin users only).

--user-id <ALARM_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']

--enabled {True|False}

True if alarm evaluation/actioning is enabled.

--alarm-action <Webhook URL>

URL to invoke when state transitions to alarm. May be used multiple times. Defaults to None.

--ok-action <Webhook URL>

URL to invoke when state transitions to OK. May be used multiple times. Defaults to None.

--insufficient-data-action <Webhook URL>

URL to invoke when state transitions to insufficient data. May be used multiple times. Defaults to None.

--time-constraint <Time Constraint>

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>]] Defaults to None.

--repeat-actions {True|False}

True if actions should be repeatedly notified while alarm remains in target state. Defaults to False.

--granularity <GRANULARITY>

Length of each period (seconds) to evaluate over.

--evaluation-periods <COUNT>

Number of periods to evaluate over.

--aggregation-method <AGGREGATION>

Aggregation method to use, one of: ['last', 'min', 'median', 'sum', 'std', 'first', 'mean', 'count', 'moving-average', 'max', '1pct', '2pct', '3pct', '4pct', '5pct', '6pct', '7pct', '8pct', '9pct', '10pct', '11pct', '12pct', '13pct', '14pct', '15pct', '16pct', '17pct', '18pct', '19pct', '20pct', '21pct', '22pct', '23pct', '24pct', '25pct', '26pct', '27pct', '28pct', '29pct', '30pct', '31pct', '32pct', '33pct', '34pct',

```
'35pct', '36pct', '37pct', '38pct', '39pct', '40pct', '41pct', '42pct', '43pct', '44pct', '45pct', '46pct',
'47pct', '48pct', '49pct', '50pct', '51pct', '52pct', '53pct', '54pct', '55pct', '56pct', '57pct', '58pct',
'59pct', '60pct', '61pct', '62pct', '63pct', '64pct', '65pct', '66pct', '67pct', '68pct', '69pct', '70pct',
'71pct', '72pct', '73pct', '74pct', '75pct', '76pct', '77pct', '78pct', '79pct', '80pct', '81pct', '82pct',
'83pct', '84pct', '85pct', '86pct', '87pct', '88pct', '89pct', '90pct', '91pct', '92pct', '93pct', '94pct',
'95pct', '96pct', '97pct', '98pct', '99pct'].
```

--comparison-operator <OPERATOR>

Operator to compare with, one of: ['lt', 'le', 'eq', 'ne', 'ge', 'gt'].

--threshold <THRESHOLD>

Threshold to evaluate against. Required.

-m <METRIC>, --metric <METRIC>

Metric to evaluate against. Required.

--resource-type <RESOURCE_TYPE>

Resource_type to evaluate against. Required.

--query <QUERY>

Gnocchi resources search query filter Required.

13.11. CEILOMETER ALARM-GNOCCHI-AGGREGATION-BY-RESOURCES-THRESHOLD-UPDATE

```
usage: ceilometer alarm-gnocchi-aggregation-by-resources-threshold-
update [--name <NAME>] [--project-id <ALARM_PROJECT_ID>] [--user-id
<ALARM_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}] [--granularity <GRANULARITY>] [--evaluation-periods
<COUNT>] [--aggregation-method <AGGREATION>] [--comparison-operator
<OPERATOR>] [--threshold <THRESHOLD>] [-m <METRIC>] [--resource-type
<RESOURCE_TYPE>] [--query <QUERY>] [--remove-time-constraint
<Constraint names>] [<ALARM_ID>]
```

Update an existing alarm based on computed statistics.

Positional arguments

<ALARM_ID>

ID of the alarm to update.

Optional arguments

--name <NAME>

Name of the alarm (must be unique per tenant).

--project-id <ALARM_PROJECT_ID>

Tenant to associate with alarm (configurable by admin users only).

--user-id <ALARM_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']

--enabled {True|False}

True if alarm evaluation/actioning is enabled.

--alarm-action <Webhook URL>

URL to invoke when state transitions to alarm. May be used multiple times. Defaults to None.

--ok-action <Webhook URL>

URL to invoke when state transitions to OK. May be used multiple times. Defaults to None.

--insufficient-data-action <Webhook URL>

URL to invoke when state transitions to insufficient data. May be used multiple times. Defaults to None.

--time-constraint <Time Constraint>

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>]] Defaults to None.

--repeat-actions {True|False}

True if actions should be repeatedly notified while alarm remains in target state. Defaults to False.

--granularity <GRANULARITY>

Length of each period (seconds) to evaluate over.

--evaluation-periods <COUNT>

Number of periods to evaluate over.

--aggregation-method <AGGREGATION>

Aggregation method to use, one of: ['last', 'min', 'median', 'sum', 'std', 'first', 'mean', 'count', 'moving-average', 'max', '1pct', '2pct', '3pct', '4pct', '5pct', '6pct', '7pct', '8pct', '9pct', '10pct', '11pct', '12pct', '13pct', '14pct', '15pct', '16pct', '17pct', '18pct', '19pct', '20pct', '21pct', '22pct', '23pct', '24pct', '25pct', '26pct', '27pct', '28pct', '29pct', '30pct', '31pct', '32pct', '33pct', '34pct', '35pct', '36pct', '37pct', '38pct', '39pct', '40pct', '41pct', '42pct', '43pct', '44pct', '45pct', '46pct', '47pct', '48pct', '49pct', '50pct', '51pct', '52pct', '53pct', '54pct', '55pct', '56pct', '57pct', '58pct', '59pct', '60pct', '61pct', '62pct', '63pct', '64pct', '65pct', '66pct', '67pct', '68pct', '69pct', '70pct', '71pct', '72pct', '73pct', '74pct', '75pct', '76pct', '77pct', '78pct', '79pct', '80pct', '81pct', '82pct', '83pct', '84pct', '85pct', '86pct', '87pct', '88pct', '89pct', '90pct', '91pct', '92pct', '93pct', '94pct', '95pct', '96pct', '97pct', '98pct', '99pct'].

--comparison-operator <OPERATOR>

Operator to compare with, one of: ['lt', 'le', 'eq', 'ne', 'ge', 'gt'].

--threshold <THRESHOLD>

Threshold to evaluate against.

-m <METRIC>, --metric <METRIC>

Metric to evaluate against.

--resource-type <RESOURCE_TYPE>

Resource_type to evaluate against.

--query <QUERY>

Gnocchi resources search query filter

--remove-time-constraint <Constraint names>

Name or list of names of the time constraints to remove.

13.12. CEILOMETER ALARM-GNOCCHI-RESOURCES-THRESHOLD-CREATE

```
usage: ceilometer alarm-gnocchi-resources-threshold-create --name
<NAME> [--project-id <ALARM_PROJECT_ID>] [--user-id <ALARM_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}] [--
granularity <GRANULARITY>] [--evaluation-periods <COUNT>] [--
aggregation-method <AGGREGATION>] [--comparison-operator <OPERATOR>] --
threshold <THRESHOLD> -m <METRIC> --resource-type <RESOURCE_TYPE> --
resource-id <RESOURCE_ID>
```

Create a new alarm based on computed statistics.

Optional arguments

--name <NAME>

Name of the alarm (must be unique per tenant). Required.

--project-id <ALARM_PROJECT_ID>

Tenant to associate with alarm (configurable by admin users only).

--user-id <ALARM_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']

--enabled {True|False}

True if alarm evaluation/actioning is enabled.

--alarm-action <Webhook URL>

URL to invoke when state transitions to alarm. May be used multiple times. Defaults to None.

--ok-action <Webhook URL>

URL to invoke when state transitions to OK. May be used multiple times. Defaults to None.

--insufficient-data-action <Webhook URL>

URL to invoke when state transitions to insufficient data. May be used multiple times. Defaults to None.

--time-constraint <Time Constraint>

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>]] Defaults to None.

--repeat-actions {True|False}

True if actions should be repeatedly notified while alarm remains in target state. Defaults to False.

--granularity <GRANULARITY>

Length of each period (seconds) to evaluate over.

--evaluation-periods <COUNT>

Number of periods to evaluate over.

--aggregation-method <AGGREGATION>

Aggregation method to use, one of: ['last', 'min', 'median', 'sum', 'std', 'first', 'mean', 'count', 'moving-average', 'max', '1pct', '2pct', '3pct', '4pct', '5pct', '6pct', '7pct', '8pct', '9pct', '10pct', '11pct', '12pct', '13pct', '14pct', '15pct', '16pct', '17pct', '18pct', '19pct', '20pct', '21pct', '22pct', '23pct', '24pct', '25pct', '26pct', '27pct', '28pct', '29pct', '30pct', '31pct', '32pct', '33pct', '34pct', '35pct', '36pct', '37pct', '38pct', '39pct', '40pct', '41pct', '42pct', '43pct', '44pct', '45pct', '46pct', '47pct', '48pct', '49pct', '50pct', '51pct', '52pct', '53pct', '54pct', '55pct', '56pct', '57pct', '58pct',

'59pct', '60pct', '61pct', '62pct', '63pct', '64pct', '65pct', '66pct', '67pct', '68pct', '69pct', '70pct', '71pct', '72pct', '73pct', '74pct', '75pct', '76pct', '77pct', '78pct', '79pct', '80pct', '81pct', '82pct', '83pct', '84pct', '85pct', '86pct', '87pct', '88pct', '89pct', '90pct', '91pct', '92pct', '93pct', '94pct', '95pct', '96pct', '97pct', '98pct', '99pct'].

--comparison-operator <OPERATOR>

Operator to compare with, one of: ['lt', 'le', 'eq', 'ne', 'ge', 'gt'].

--threshold <THRESHOLD>

Threshold to evaluate against. Required.

-m <METRIC>, --metric <METRIC>

Metric to evaluate against. Required.

--resource-type <RESOURCE_TYPE>

Resource_type to evaluate against. Required.

--resource-id <RESOURCE_ID>

Resource id to evaluate against Required.

13.13. CEILOMETER ALARM-GNOCCHI-RESOURCES-THRESHOLD-UPDATE

```
usage: ceilometer alarm-gnocchi-resources-threshold-update [--name
<NAME>] [--project-id <ALARM_PROJECT_ID>] [--user-id <ALARM_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}] [--
granularity <GRANULARITY>] [--evaluation-periods <COUNT>] [--
aggregation-method <AGGREGATION>] [--comparison-operator <OPERATOR>] [--
threshold <THRESHOLD>] [-m <METRIC>] [--resource-type <RESOURCE_TYPE>]
[--resource-id <RESOURCE_ID>] [--remove-time-constraint <Constraint
names>] [<ALARM_ID>]
```

Update an existing alarm based on computed statistics.

Positional arguments

<ALARM_ID>

ID of the alarm to update.

Optional arguments

--name <NAME>

Name of the alarm (must be unique per tenant).

--project-id <ALARM_PROJECT_ID>

Tenant to associate with alarm (configurable by admin users only).

--user-id <ALARM_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']

--enabled {True|False}

True if alarm evaluation/actioning is enabled.

--alarm-action <Webhook URL>

URL to invoke when state transitions to alarm. May be used multiple times. Defaults to None.

--ok-action <Webhook URL>

URL to invoke when state transitions to OK. May be used multiple times. Defaults to None.

--insufficient-data-action <Webhook URL>

URL to invoke when state transitions to insufficient data. May be used multiple times. Defaults to None.

--time-constraint <Time Constraint>

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>]] Defaults to None.

--repeat-actions {True|False}

True if actions should be repeatedly notified while alarm remains in target state. Defaults to False.

--granularity <GRANULARITY>

Length of each period (seconds) to evaluate over.

--evaluation-periods <COUNT>

Number of periods to evaluate over.

--aggregation-method <AGGREGATION>

Aggregation method to use, one of: ['last', 'min', 'median', 'sum', 'std', 'first', 'mean', 'count', 'moving-average', 'max', '1pct', '2pct', '3pct', '4pct', '5pct', '6pct', '7pct', '8pct', '9pct', '10pct', '11pct', '12pct', '13pct', '14pct', '15pct', '16pct', '17pct', '18pct', '19pct', '20pct', '21pct', '22pct', '23pct', '24pct', '25pct', '26pct', '27pct', '28pct', '29pct', '30pct', '31pct', '32pct', '33pct', '34pct', '35pct', '36pct', '37pct', '38pct', '39pct', '40pct', '41pct', '42pct', '43pct', '44pct', '45pct', '46pct', '47pct', '48pct', '49pct', '50pct', '51pct', '52pct', '53pct', '54pct', '55pct', '56pct', '57pct', '58pct', '59pct', '60pct', '61pct', '62pct', '63pct', '64pct', '65pct', '66pct', '67pct', '68pct', '69pct', '70pct', '71pct', '72pct', '73pct', '74pct', '75pct', '76pct', '77pct', '78pct', '79pct', '80pct', '81pct', '82pct', '83pct', '84pct', '85pct', '86pct', '87pct', '88pct', '89pct', '90pct', '91pct', '92pct', '93pct', '94pct', '95pct', '96pct', '97pct', '98pct', '99pct'].

--comparison-operator <OPERATOR>

Operator to compare with, one of: ['lt', 'le', 'eq', 'ne', 'ge', 'gt'].

--threshold <THRESHOLD>

Threshold to evaluate against.

-m <METRIC>, --metric <METRIC>

Metric to evaluate against.

--resource-type <RESOURCE_TYPE>

Resource_type to evaluate against.

--resource-id <RESOURCE_ID>

Resource id to evaluate against

--remove-time-constraint <Constraint names>

Name or list of names of the time constraints to remove.

13.14. CEILOMETER ALARM-HISTORY

```
usage: ceilometer alarm-history [-q <QUERY>] [<ALARM_ID>]
```

Display the change history of an alarm.

Positional arguments

<ALARM_ID>

ID of the alarm for which history is shown.

Optional arguments

-q <QUERY>, --query <QUERY>

key[op]data_type::value; list. data_type is optional, but if supplied must be string, integer, float, or boolean.

13.15. CEILOMETER ALARM-LIST

```
usage: ceilometer alarm-list [-q <QUERY>]
```

List the user's alarms.

Optional arguments

-q <QUERY>, --query <QUERY>

key[op]data_type::value; list. data_type is optional, but if supplied must be string, integer, float, or boolean.

13.16. CEILOMETER ALARM-SHOW

```
usage: ceilometer alarm-show [<ALARM_ID>]
```

Show an alarm.

Positional arguments

<ALARM_ID>

ID of the alarm to show.

13.17. CEILOMETER ALARM-STATE-GET

```
usage: ceilometer alarm-state-get [<ALARM_ID>]
```

Get the state of an alarm.

Positional arguments

<ALARM_ID>

ID of the alarm state to show.

13.18. CEILOMETER ALARM-STATE-SET

```
usage: ceilometer alarm-state-set --state <STATE> [<ALARM_ID>]
```

Set the state of an alarm.

Positional arguments

<ALARM_ID>

ID of the alarm state to set.

Optional arguments

--state <STATE>

State of the alarm, one of: ['ok', 'alarm', 'insufficient data']. Required.

13.19. CEILOMETER ALARM-THRESHOLD-CREATE

```
usage: ceilometer alarm-threshold-create --name <NAME> [--project-id
<ALARM_PROJECT_ID>] [--user-id <ALARM_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}] -m <METRIC> [--
period <PERIOD>] [--evaluation-periods <COUNT>] [--statistic
<STATISTIC>] [--comparison-operator <OPERATOR>] --threshold <THRESHOLD>
[-q <QUERY>]
```

Create a new alarm based on computed statistics.

Optional arguments

--name <NAME>

Name of the alarm (must be unique per tenant). Required.

--project-id <ALARM_PROJECT_ID>

Tenant to associate with alarm (configurable by admin users only).

--user-id <ALARM_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']

--enabled {True|False}

True if alarm evaluation/actioning is enabled.

--alarm-action <Webhook URL>

URL to invoke when state transitions to alarm. May be used multiple times. Defaults to None.

--ok-action <Webhook URL>

URL to invoke when state transitions to OK. May be used multiple times. Defaults to None.

--insufficient-data-action <Webhook URL>

URL to invoke when state transitions to insufficient data. May be used multiple times. Defaults to None.

--time-constraint <Time Constraint>

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>;[time zone=<IANA Timezone>]] Defaults to None.

--repeat-actions {True|False}

True if actions should be repeatedly notified while alarm remains in target state. Defaults to False.

-m <METRIC>, --meter-name <METRIC>

Metric to evaluate against. Required.

--period <PERIOD>

Length of each period (seconds) to evaluate over.

--evaluation-periods <COUNT>

Number of periods to evaluate over.

--statistic <STATISTIC>

Statistic to evaluate, one of: ['max', 'min', 'avg', 'sum', 'count'].

--comparison-operator <OPERATOR>

Operator to compare with, one of: ['lt', 'le', 'eq', 'ne', 'ge', 'gt'].

--threshold <THRESHOLD>

Threshold to evaluate against. Required.

-q <QUERY>, --query <QUERY>

key[op]data_type::value; list. data_type is optional, but if supplied must be string, integer, float, or boolean.

13.20. CEILOMETER ALARM-THRESHOLD-UPDATE

```
usage: ceilometer alarm-threshold-update [--name <NAME>] [--project-id
<ALARM_PROJECT_ID>] [--user-id <ALARM_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}] [--remove-time-
```

```
constraint <Constraint names>] [-m <METRIC>] [--period <PERIOD>] [--  
evaluation-periods <COUNT>] [--statistic <STATISTIC>] [--comparison-  
operator <OPERATOR>] [--threshold <THRESHOLD>] [-q <QUERY>]  
[<ALARM_ID>]
```

Update an existing alarm based on computed statistics.

Positional arguments

<ALARM_ID>

ID of the alarm to update.

Optional arguments

--name <NAME>

Name of the alarm (must be unique per tenant).

--project-id <ALARM_PROJECT_ID>

Tenant to associate with alarm (configurable by admin users only).

--user-id <ALARM_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']

--enabled {True|False}

True if alarm evaluation/actioning is enabled.

--alarm-action <Webhook URL>

URL to invoke when state transitions to alarm. May be used multiple times. Defaults to None.

--ok-action <Webhook URL>

URL to invoke when state transitions to OK. May be used multiple times. Defaults to None.

--insufficient-data-action <Webhook URL>

URL to invoke when state transitions to insufficient data. May be used multiple times. Defaults to None.

--time-constraint <Time Constraint>

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>;[time zone=<IANA Timezone>]] Defaults to None.

--repeat-actions {True|False}

True if actions should be repeatedly notified while alarm remains in target state. Defaults to False.

--remove-time-constraint <Constraint names>

Name or list of names of the time constraints to remove.

-m <METRIC>, --meter-name <METRIC>

Metric to evaluate against.

--period <PERIOD>

Length of each period (seconds) to evaluate over.

--evaluation-periods <COUNT>

Number of periods to evaluate over.

--statistic <STATISTIC>

Statistic to evaluate, one of: ['max', 'min', 'avg', 'sum', 'count'].

--comparison-operator <OPERATOR>

Operator to compare with, one of: ['lt', 'le', 'eq', 'ne', 'ge', 'gt'].

--threshold <THRESHOLD>

Threshold to evaluate against.

-q <QUERY>, --query <QUERY>

key[op]data_type::value; list. data_type is optional, but if supplied must be string, integer, float, or boolean.

13.21. CEILOMETER CAPABILITIES

```
usage: ceilometer capabilities
```

Print Ceilometer capabilities.

13.22. CEILOMETER EVENT-LIST

```
usage: ceilometer event-list [-q <QUERY>] [--no-traits] [-l <NUMBER>]
```

List events.

Optional arguments

-q <QUERY>, --query <QUERY>

key[op]data_type::value; list. data_type is optional, but if supplied must be string, integer, float or datetime.

--no-traits

If specified, traits will not be printed.

-l <NUMBER>, --limit <NUMBER>

Maximum number of events to return. API server limits result to <default_api_return_limit> rows if no limit provided. Option is configured in ceilometer.conf [api] group

13.23. CEILOMETER EVENT-SHOW

```
usage: ceilometer event-show <message_id>
```

Show a particular event.

Positional arguments

<message_id>

The ID of the event. Should be a UUID.

13.24. CEILOMETER EVENT-TYPE-LIST

```
usage: ceilometer event-type-list
```

List event types.

13.25. CEILOMETER METER-LIST

```
usage: ceilometer meter-list [-q <QUERY>] [-l <NUMBER>]
```

List the user's meters.

Optional arguments

-q <QUERY>, --query <QUERY>

key[op]data_type::value; list. data_type is optional, but if supplied must be string, integer, float, or boolean.

-l <NUMBER>, --limit <NUMBER>

Maximum number of meters to return. API server limits result to <default_api_return_limit> rows if no limit provided. Option is configured in ceilometer.conf [api] group

13.26. CEILOMETER QUERY-ALARM-HISTORY

```
usage: ceilometer query-alarm-history [-f <FILTER>] [-o <ORDERBY>] [-l <LIMIT>]
```

Query Alarm History.

Optional arguments

-f <FILTER>, --filter <FILTER>

{complex_op: [{simple_op: {field_name: value}}]} The complex_op is one of: ['and', 'or'], simple_op is one of: ['=', '!=', '<', '<=', '>', '>='].

-o <ORDERBY>, --orderby <ORDERBY>

{field_name: direction}, {field_name: direction}] The direction is one of: ['asc', 'desc'].

-l <LIMIT>, --limit <LIMIT>

Maximum number of alarm history items to return. API server limits result to <default_api_return_limit> rows if no limit provided. Option is configured in ceilometer.conf [api] group

13.27. CEILOMETER QUERY-ALARMS

```
usage: ceilometer query-alarms [-f <FILTER>] [-o <ORDERBY>] [-l
<LIMIT>]
```

Query Alarms.

Optional arguments

-f <FILTER>, --filter <FILTER>

{complex_op: [{simple_op: {field_name: value}}]} The complex_op is one of: ['and', 'or'], simple_op is one of: ['=', '!=', '<', '<=', '>', '>='].

-o <ORDERBY>, --orderby <ORDERBY>

{field_name: direction}, {field_name: direction}] The direction is one of: ['asc', 'desc'].

-l <LIMIT>, --limit <LIMIT>

Maximum number of alarms to return. API server limits result to <default_api_return_limit> rows if no limit provided. Option is configured in ceilometer.conf [api] group

13.28. CEILOMETER QUERY-SAMPLES

```
usage: ceilometer query-samples [-f <FILTER>] [-o <ORDERBY>] [-l
<LIMIT>]
```

Query samples.

Optional arguments

-f <FILTER>, --filter <FILTER>

{complex_op: [{simple_op: {field_name: value}}]} The complex_op is one of: ['and', 'or'], simple_op is one of: ['=', '!=', '<', '<=', '>', '>='].

-o <ORDERBY>, --orderby <ORDERBY>

{field_name: direction}, {field_name: direction}] The direction is one of: ['asc', 'desc'].

-l <LIMIT>, --limit <LIMIT>

Maximum number of samples to return. API server limits result to <default_api_return_limit> rows if no limit provided. Option is configured in ceilometer.conf [api] group

13.29. CEILOMETER RESOURCE-LIST

```
usage: ceilometer resource-list [-q <QUERY>] [-l <NUMBER>]
```

List the resources.

Optional arguments

-q <QUERY>, --query <QUERY>

key[op]data_type::value; list. data_type is optional, but if supplied must be string, integer, float, or boolean.

-l <NUMBER>, --limit <NUMBER>

Maximum number of resources to return. API server limits result to <default_api_return_limit> rows if no limit provided. Option is configured in ceilometer.conf [api] group

13.30. CEILOMETER RESOURCE-SHOW

```
usage: ceilometer resource-show <RESOURCE_ID>
```

Show the resource.

Positional arguments

<RESOURCE_ID>

ID of the resource to show.

13.31. CEILOMETER SAMPLE-CREATE

```
usage: ceilometer sample-create [--project-id <SAMPLE_PROJECT_ID>] [--user-id <SAMPLE_USER_ID>] -r <RESOURCE_ID> -m <METER_NAME> --meter-type <METER_TYPE> --meter-unit <METER_UNIT> --sample-volume <SAMPLE_VOLUME> [--resource-metadata <RESOURCE_METADATA>] [--timestamp <TIMESTAMP>] [--direct <DIRECT>]
```

Create a sample.

Optional arguments

--project-id <SAMPLE_PROJECT_ID>

Tenant to associate with sample (configurable by admin users only).

--user-id <SAMPLE_USER_ID>

User to associate with sample (configurable by admin users only).

-r <RESOURCE_ID>, --resource-id <RESOURCE_ID>

ID of the resource. Required.

-m <METER_NAME>, --meter-name <METER_NAME>

The meter name. Required.

--meter-type <METER_TYPE>

The meter type. Required.

--meter-unit <METER_UNIT>

The meter unit. Required.

--sample-volume <SAMPLE_VOLUME>

The sample volume. Required.

--resource-metadata <RESOURCE_METADATA>

Resource metadata. Provided value should be a set of key-value pairs e.g. {"key":"value"}.

--timestamp <TIMESTAMP>

The sample timestamp.

--direct <DIRECT>

Post sample to storage directly. Defaults to False.

13.32. CEILOMETER SAMPLE-CREATE-LIST

```
usage: ceilometer sample-create-list [--direct <DIRECT>] <SAMPLES_LIST>
```

Create a sample list.

Positional arguments

<SAMPLES_LIST>

Json array with samples to create.

Optional arguments

--direct <DIRECT>

Post samples to storage directly. Defaults to False.

13.33. CEILOMETER SAMPLE-LIST

```
usage: ceilometer sample-list [-q <QUERY>] [-m <NAME>] [-l <NUMBER>]
```

List the samples (return OldSample objects if -m/--meter is set).

Optional arguments

-q <QUERY>, --query <QUERY>

key[op]data_type::value; list. data_type is optional, but if supplied must be string, integer, float, or boolean.

-m <NAME>, --meter <NAME>

Name of meter to show samples for.

-l <NUMBER>, --limit <NUMBER>

Maximum number of samples to return. API server limits result to <default_api_return_limit> rows if no limit provided. Option is configured in ceilometer.conf [api] group

13.34. CEILOMETER SAMPLE-SHOW

```
usage: ceilometer sample-show <SAMPLE_ID>
```

Show a sample.

Positional arguments

<SAMPLE_ID>

ID (aka message ID) of the sample to show.

13.35. CEILOMETER STATISTICS

```
usage: ceilometer statistics [-q <QUERY>] -m <NAME> [-p <PERIOD>] [-g  
    <FIELD>] [-a <FUNC>[<-<PARAM>]]
```

List the statistics for a meter.

Optional arguments

-q <QUERY>, --query <QUERY>

key[op]data_type::value; list. data_type is optional, but if supplied must be string, integer, float, or boolean.

-m <NAME>, --meter <NAME>

Name of meter to list statistics for. Required.

-p <PERIOD>, --period <PERIOD>

Period in seconds over which to group samples.

-g <FIELD>, --groupby <FIELD>

Field for group by.

-a <FUNC>[<-<PARAM>], --aggregate <FUNC>[<-<PARAM>]

Function for data aggregation. Available aggregates are: count, cardinality, min, max, sum, stddev, avg. Defaults to [].

13.36. CEILOMETER TRAIT-DESCRIPTION-LIST

```
usage: ceilometer trait-description-list -e <EVENT_TYPE>
```

List trait info for an event type.

Optional arguments

-e <EVENT_TYPE>, --event_type <EVENT_TYPE>

Type of the event for which traits will be shown. Required.

13.37. CEILOMETER TRAIT-LIST


```
usage: ceilometer trait-list -e <EVENT_TYPE> -t <TRAIT_NAME>
```

List all traits with name <trait_name> for Event Type <event_type>.

Optional arguments

-e <EVENT_TYPE>, --event_type <EVENT_TYPE>

Type of the event for which traits will listed. Required.

-t <TRAIT_NAME>, --trait_name <TRAIT_NAME>

The name of the trait to list. Required.

CHAPTER 14. DATA PROCESSING SERVICE COMMAND-LINE CLIENT

The **sahara** client is the command-line interface (CLI) for the Data Processing service API and its extensions. This chapter documents **sahara** version **0.13.0**.

For help on a specific **sahara** command, enter:

```
$ sahara help COMMAND
```

14.1. SAHARA USAGE

```
usage: sahara [--version] [--debug] [--os-cache] [--region-name
<region-name>] [--service-type <service-type>] [--endpoint-type
<endpoint-type>] [--sahara-api-version <sahara-api-ver>] [--bypass-url
<bypass-url>] [--os-tenant-name OS_TENANT_NAME] [--os-tenant-id
OS_TENANT_ID] [--os-auth-system OS_AUTH_SYSTEM] [--os-auth-token
OS_AUTH_TOKEN] [--insecure] [--os-cacert <ca-certificate>] [--os-cert
<certificate>] [--os-key <key>] [--timeout <seconds>] [--os-auth-url
OS_AUTH_URL] [--os-domain-id OS_DOMAIN_ID] [--os-domain-name
OS_DOMAIN_NAME] [--os-project-id OS_PROJECT_ID] [--os-project-name
OS_PROJECT_NAME] [--os-project-domain-id OS_PROJECT_DOMAIN_ID] [--os-
project-domain-name OS_PROJECT_DOMAIN_NAME] [--os-trust-id OS_TRUST_ID]
[--os-user-id OS_USER_ID] [--os-username OS_USERNAME] [--os-user-
domain-id OS_USER_DOMAIN_ID] [--os-user-domain-name
OS_USER_DOMAIN_NAME] [--os-password OS_PASSWORD] <subcommand> ...
```

Subcommands

cluster-create

Create a cluster.

cluster-delete

Delete a cluster.

cluster-list

Print a list of available clusters.

cluster-scale

Scale a cluster.

cluster-show

Show details of a cluster.

cluster-template-create

Create a cluster template.

cluster-template-delete

Delete a cluster template.

cluster-template-list

Print a list of available cluster templates.

cluster-template-show

Show details of a cluster template.

cluster-template-update

Update a cluster template.

data-source-create

Create a data source that provides job input or receives job output.

data-source-delete

Delete a data source.

data-source-list

Print a list of available data sources.

data-source-show

Show details of a data source.

data-source-update

Update a data source.

image-add-tag

Add a tag to an image.

image-list

Print a list of available images.

image-register

Register an image from the Image index.

image-remove-tag

Remove a tag from an image.

image-show

Show details of an image.

image-unregister

Unregister an image.

job-binary-create

Record a job binary.

job-binary-data-create

Store data in the internal DB. Use 'swift upload' instead of this command. Use this command only if Swift is not available.

job-binary-data-delete

Delete an internally stored job binary data.

job-binary-data-list

Print a list of internally stored job binary data.

job-binary-delete

Delete a job binary.

job-binary-list

Print a list of job binaries.

job-binary-show

Show details of a job binary.

job-binary-update

Update a job binary.

job-create

Create a job.

job-delete

Delete a job.

job-list

Print a list of jobs.

job-show

Show details of a job.

job-template-create

Create a job template.

job-template-delete

Delete a job template.

job-template-list

Print a list of job templates.

job-template-show

Show details of a job template.

job-type-list

Show supported job types.

node-group-template-create

Create a node group template.

node-group-template-delete

Delete a node group template.

node-group-template-list

Print a list of available node group templates.

node-group-template-show

Show details of a node group template.

node-group-template-update

Update a node group template.

plugin-list

Print a list of available plugins.

plugin-show

Show details of a plugin.

bash-completion

Prints arguments for bash-completion. Prints all of the commands and options to stdout so that the `sahara.bash_completion` script doesn't have to hard code them.

help

Display help about this program or one of its subcommands.

14.2. SAHARA OPTIONAL ARGUMENTS

--version

show program's version number and exit

--debug

Print debugging output.

--os-cache

Use the auth token cache. Defaults to False if `env[OS_CACHE]` is not set.

--region-name <region-name>

Defaults to `env[OS_REGION_NAME]`.

--service-type <service-type>

Defaults to data-processing for all actions.

--endpoint-type <endpoint-type>

Defaults to `env[SAHARA_ENDPOINT_TYPE]` or `env[OS_ENDPOINT_TYPE]` or `publicURL`.

--sahara-api-version <sahara-api-ver>

Accepts "api", defaults to `env[SAHARA_API_VERSION]`.

--bypass-url <bypass-url>

Use this API endpoint instead of the Service Catalog.

--os-tenant-name OS_TENANT_NAME

Defaults to `env[OS_TENANT_NAME]`.

--os-tenant-id OS_TENANT_ID

Defaults to `env[OS_TENANT_ID]`.

--os-auth-system OS_AUTH_SYSTEM

Defaults to `env[OS_AUTH_SYSTEM]`.

--os-auth-token OS_AUTH_TOKEN

Defaults to `env[OS_AUTH_TOKEN]`.

--os-auth-url OS_AUTH_URL

Authentication URL

--os-domain-id OS_DOMAIN_ID

Domain ID to scope to

--os-domain-name OS_DOMAIN_NAME

Domain name to scope to

--os-project-id OS_PROJECT_ID

Project ID to scope to

--os-project-name OS_PROJECT_NAME

Project name to scope to

--os-project-domain-id OS_PROJECT_DOMAIN_ID

Domain ID containing project

--os-project-domain-name OS_PROJECT_DOMAIN_NAME

Domain name containing project

--os-trust-id OS_TRUST_ID

Trust ID

--os-user-id OS_USER_ID

User ID

--os-username OS_USERNAME, --os-user_name OS_USERNAME

Username

--os-user-domain-id OS_USER_DOMAIN_ID

User's domain id

--os-user-domain-name OS_USER_DOMAIN_NAME

User's domain name

--os-password OS_PASSWORD

User's password

14.3. SAHARA CLUSTER-CREATE

```
usage: sahara cluster-create [--json JSON] [--count COUNT]
```

Create a cluster.

Optional arguments

--json JSON

JSON representation of cluster.

--count COUNT

Number of clusters to create.

14.4. SAHARA CLUSTER-DELETE

```
usage: sahara cluster-delete [--name NAME] [--id <cluster_id>]
```

Delete a cluster.

Optional arguments

--name NAME

Name of the cluster.

--id <cluster_id>

ID of the cluster to delete.

14.5. SAHARA CLUSTER-LIST

```
usage: sahara cluster-list
```

Print a list of available clusters.

14.6. SAHARA CLUSTER-SCALE

```
usage: sahara cluster-scale [--name NAME] [--id <cluster_id>] [--json
JSON]
```

Scale a cluster.

Optional arguments

--name NAME

Name of the cluster.

--id <cluster_id>

ID of the cluster.

--json JSON

JSON representation of cluster scale.

14.7. SAHARA CLUSTER-SHOW

```
usage: sahara cluster-show [--name NAME] [--id <cluster_id>] [--show-  
progress SHOW_PROGRESS] [--json]
```

Show details of a cluster.

Optional arguments

--name NAME

Name of the cluster.

--id <cluster_id>

ID of the cluster to show.

--show-progress SHOW_PROGRESS

Show provision progress events of the cluster.

--json

Print JSON representation of the cluster.

14.8. SAHARA CLUSTER-TEMPLATE-CREATE

```
usage: sahara cluster-template-create [--json JSON]
```

Create a cluster template.

Optional arguments

--json JSON

JSON representation of cluster template.

14.9. SAHARA CLUSTER-TEMPLATE-DELETE

```
usage: sahara cluster-template-delete [--name NAME] [--id  
<template_id>]
```

■

Delete a cluster template.

Optional arguments

--name NAME

Name of the cluster template.

--id <template_id>

ID of the cluster template to delete.

14.10. SAHARA CLUSTER-TEMPLATE-LIST

```
usage: sahara cluster-template-list
```

Print a list of available cluster templates.

14.11. SAHARA CLUSTER-TEMPLATE-SHOW

```
usage: sahara cluster-template-show [--name NAME] [--id <template_id>]
[--json]
```

Show details of a cluster template.

Optional arguments

--name NAME

Name of the cluster template.

--id <template_id>

ID of the cluster template to show.

--json

Print JSON representation of cluster template.

14.12. SAHARA CLUSTER-TEMPLATE-UPDATE

```
usage: sahara cluster-template-update [--name NAME] [--id
<template_id>] [--json JSON]
```

Update a cluster template.

Optional arguments

--name NAME

Name of the cluster template to update.

--id <template_id>

ID of the cluster template to update.

--json JSON

JSON representation of cluster template update.

14.13. SAHARA DATA-SOURCE-CREATE

```
usage: sahara data-source-create --name NAME --type TYPE --url URL [--description DESCRIPTION] [--user USER] [--password PASSWORD]
```

Create a data source that provides job input or receives job output.

Optional arguments

--name NAME

Name of the data source.

--type TYPE

Type of the data source.

--url URL

URL for the data source.

--description DESCRIPTION

Description of the data source.

--user USER

Username for accessing the data source URL.

--password PASSWORD

Password for accessing the data source URL.

14.14. SAHARA DATA-SOURCE-DELETE

```
usage: sahara data-source-delete [--name NAME] [--id ID]
```

Delete a data source.

Optional arguments

--name NAME

Name of the data source.

--id ID

ID of data source to delete.

14.15. SAHARA DATA-SOURCE-LIST

```
usage: sahara data-source-list
```

Print a list of available data sources.

14.16. SAHARA DATA-SOURCE-SHOW

```
usage: sahara data-source-show [--name NAME] [--id ID]
```

Show details of a data source.

Optional arguments

--name NAME

Name of the data source.

--id ID

ID of the data source.

14.17. SAHARA DATA-SOURCE-UPDATE

```
usage: sahara data-source-update [--name NAME] [--id ID] [--json JSON]
```

Update a data source.

Optional arguments

--name NAME

Name of the data source to update.

--id ID

ID of the data source to update.

--json JSON

JSON containing the data source fields to update.

14.18. SAHARA IMAGE-ADD-TAG

```
usage: sahara image-add-tag [--name NAME] [--id <image_id>] --tag <tag>
```

Add a tag to an image.

Optional arguments

--name NAME

Name of the image.

--id <image_id>

ID of image to tag.

--tag <tag>

Tag to add.

14.19. SAHARA IMAGE-LIST

```
usage: sahara image-list
```

Print a list of available images.

14.20. SAHARA IMAGE-REGISTER

```
usage: sahara image-register --id <image_id> [--username <name>] [--
```

```
description <desc>]
```

Register an image from the Image index.

Optional arguments

--id <image_id>

ID of image, run "glance image-list" to see all IDs.

--username <name>

Username of privileged user in the image.

--description <desc>

Description of the image.

14.21. SAHARA IMAGE-REMOVE-TAG

```
usage: sahara image-remove-tag [--name NAME] [--id <image_id>] --tag
<tag>
```

Remove a tag from an image.

Optional arguments

--name NAME

Name of the image.

--id <image_id>

Image to tag.

--tag <tag>

Tag to remove.

14.22. SAHARA IMAGE-SHOW

```
usage: sahara image-show [--name NAME] [--id <image_id>]
```

Show details of an image.

Optional arguments

--name NAME

Name of the image.

--id <image_id>

ID of the image.

14.23. SAHARA IMAGE-UNREGISTER

```
usage: sahara image-unregister [--name NAME] [--id <image_id>]
```

Unregister an image.

Optional arguments

--name NAME

Name of the image.

--id <image_id>

ID of image to unregister.

14.24. SAHARA JOB-BINARY-CREATE

```
usage: sahara job-binary-create --name NAME --url URL [--description  
DESCRIPTION] [--user USER] [--password PASSWORD]
```

Record a job binary.

Optional arguments

--name NAME

Name of the job binary.

--url URL

URL for the job binary.

--description DESCRIPTION

Description of the job binary.

--user USER

Username for accessing the job binary URL.

--password PASSWORD

Password for accessing the job binary URL.

14.25. SAHARA JOB-BINARY-DATA-CREATE

```
usage: sahara job-binary-data-create [--file FILE] [--name NAME]
```

Store data in the internal DB. Use 'swift upload' instead of this command. Use this command only if Swift is not available.

Optional arguments

--file FILE

Data to store.

--name NAME

Name of the job binary internal.

14.26. SAHARA JOB-BINARY-DATA-DELETE

```
usage: sahara job-binary-data-delete --id ID
```

Delete an internally stored job binary data.

Optional arguments

--id ID

ID of internally stored job binary data.

14.27. SAHARA JOB-BINARY-DATA-LIST

```
usage: sahara job-binary-data-list
```

Print a list of internally stored job binary data.

14.28. SAHARA JOB-BINARY-DELETE

```
usage: sahara job-binary-delete [--name NAME] [--id ID]
```

Delete a job binary.

Optional arguments

--name NAME

Name of the job binary.

--id ID

ID of the job binary to delete.

14.29. SAHARA JOB-BINARY-LIST

```
usage: sahara job-binary-list
```

Print a list of job binaries.

14.30. SAHARA JOB-BINARY-SHOW

```
usage: sahara job-binary-show [--name NAME] [--id ID]
```

Show details of a job binary.

Optional arguments

--name NAME

Name of the job binary.

--id ID

ID of the job binary.

14.31. SAHARA JOB-BINARY-UPDATE

```
usage: sahara job-binary-update [--name NAME] [--id <job_binary_id>] [-  
-json JSON]
```

Update a job binary.

Optional arguments

--name NAME

Name of the job binary to update.

--id <job_binary_id>

ID of the job binary to update.

--json JSON

JSON representation of job binary update.

14.32. SAHARA JOB-CREATE

```
usage: sahara job-create --job-template JOB_TEMPLATE [--cluster
CLUSTER] [--input-data INPUT_DATA] [--output-data OUTPUT_DATA] [--param
name=value] [--arg ARG] [--config name=value] [--json JSON]
```

Create a job.

Optional arguments

--job-template JOB_TEMPLATE

ID of the job template to run.

--cluster CLUSTER

ID of the cluster to run the job in.

--input-data INPUT_DATA

ID of the input data source.

--output-data OUTPUT_DATA

ID of the output data source.

--param

name=value Parameters to add to the job, repeatable.

--arg ARG

Arguments to add to the job, repeatable.

--config

name=value Config parameters to add to the job, repeatable.

--json JSON

JSON representation of the job.

14.33. SAHARA JOB-DELETE

```
usage: sahara job-delete --id ID
```

Delete a job.

Optional arguments

--id ID

ID of a job.

14.34. SAHARA JOB-LIST

```
usage: sahara job-list
```

Print a list of jobs.

14.35. SAHARA JOB-SHOW

```
usage: sahara job-show --id ID
```

Show details of a job.

Optional arguments

--id ID

ID of the job.

14.36. SAHARA JOB-TEMPLATE-CREATE

```
usage: sahara job-template-create [--name NAME] [--type TYPE] [--main  
MAIN] [--lib LIB] [--description DESCRIPTION] [--json JSON]
```

Create a job template.

Optional arguments

--name NAME

Name of the job template.

--type TYPE

Type of the job template.

--main MAIN

ID for job's main job-binary.

--lib LIB

ID of job's lib job-binary, repeatable.

--description DESCRIPTION

Description of the job template.

--json JSON

JSON representation of job template.

14.37. SAHARA JOB-TEMPLATE-DELETE

```
usage: sahara job-template-delete [--name NAME] [--id ID]
```

Delete a job template.

Optional arguments

--name NAME

Name of the job template.

--id ID

ID of the job template.

14.38. SAHARA JOB-TEMPLATE-LIST

```
usage: sahara job-template-list
```

Print a list of job templates.

14.39. SAHARA JOB-TEMPLATE-SHOW

```
usage: sahara job-template-show [--name NAME] [--id ID]
```

Show details of a job template.

Optional arguments

--name NAME

Name of the job template.

--id ID

ID of the job template.

14.40. SAHARA JOB-TYPE-LIST

```
usage: sahara job-type-list [--type <job_type>] [--plugin <plugin>] [--  
plugin-version <plugin_version>]
```

Show supported job types.

Optional arguments

--type <job_type>

Report only on this job type.

--plugin <plugin>

Report only job types supported by this plugin.

--plugin-version <plugin_version>

Report only on job types supported by this version of a specified plugin. Only valid with --plugin.

14.41. SAHARA NODE-GROUP-TEMPLATE-CREATE

```
usage: sahara node-group-template-create [--json JSON]
```

Create a node group template.

Optional arguments

--json JSON

JSON representation of node group template.

14.42. SAHARA NODE-GROUP-TEMPLATE-DELETE

```
usage: sahara node-group-template-delete [--name NAME] [--id <template_id>]
```

Delete a node group template.

Optional arguments

--name NAME

Name of the node group template.

--id <template_id>

ID of the node group template to delete.

14.43. SAHARA NODE-GROUP-TEMPLATE-LIST

```
usage: sahara node-group-template-list
```

Print a list of available node group templates.

14.44. SAHARA NODE-GROUP-TEMPLATE-SHOW

```
usage: sahara node-group-template-show [--name NAME] [--id <template_id>] [--json]
```

Show details of a node group template.

Optional arguments

--name NAME

Name of the node group template.

--id <template_id>

ID of the node group template to show.

--json

Print JSON representation of node group template.

14.45. SAHARA NODE-GROUP-TEMPLATE-UPDATE

```
usage: sahara node-group-template-update [--name NAME] [--id
<template_id>] [--json JSON]
```

Update a node group template.

Optional arguments

--name NAME

Name of the node group template to update.

--id <template_id>

ID of the node group template to update.

--json JSON

JSON representation of the node group template update.

14.46. SAHARA PLUGIN-LIST

```
usage: sahara plugin-list
```

Print a list of available plugins.

14.47. SAHARA PLUGIN-SHOW

```
usage: sahara plugin-show --name <plugin>
```


Show details of a plugin.

Optional arguments

--name <plugin>

Name of the plugin.

CHAPTER 15. DATABASE SERVICE COMMAND-LINE CLIENT

Warning

Beginning in Red Hat OpenStack Platform 10, the OpenStack Trove service will no longer be included in the Red Hat OpenStack Platform distribution. We are working with a trusted partner to provide our customers with a production ready DBaaS service. Please contact your sales account manager to learn more about this option.

The **trove** client is the command-line interface (CLI) for the Database service API and its extensions. This chapter documents **trove** version **2.1.1**.

For help on a specific **trove** command, enter:

```
$ trove help COMMAND
```

15.1. TROVE USAGE

```
usage: trove [--version] [--debug] [--os-auth-system <auth-system>] [-
  -service-type <service-type>] [--service-name <service-name>] [--
  bypass-url <bypass-url>] [--database-service-name <database-service-
  name>] [--endpoint-type <endpoint-type>] [--os-database-api-version
  <database-api-ver>] [--retries <retries>] [--json] [--profile HMAC_KEY]
  [--insecure] [--os-cacert <ca-certificate>] [--os-cert <certificate>]
  [--os-key <key>] [--timeout <seconds>] [--os-auth-url OS_AUTH_URL] [--
  os-domain-id OS_DOMAIN_ID] [--os-domain-name OS_DOMAIN_NAME] [--os-
  project-id OS_PROJECT_ID] [--os-project-name OS_PROJECT_NAME] [--os-
  project-domain-id OS_PROJECT_DOMAIN_ID] [--os-project-domain-name
  OS_PROJECT_DOMAIN_NAME] [--os-trust-id OS_TRUST_ID] [--os-user-id
  OS_USER_ID] [--os-username OS_USERNAME] [--os-user-domain-id
  OS_USER_DOMAIN_ID] [--os-user-domain-name OS_USER_DOMAIN_NAME] [--os-
  password OS_PASSWORD] [--os-tenant-name <auth-tenant-name>] [--os-
  tenant-id <tenant-id>] [--os-auth-token OS_AUTH_TOKEN] [--os-region-
  name <region-name>] <subcommand> ...
```

Subcommands

backup-copy

Creates a backup from another backup.

backup-create

Creates a backup of an instance.

backup-delete

Deletes a backup.

backup-list

Lists available backups.

backup-list-instance

Lists available backups for an instance.

backup-show

Shows details of a backup.

cluster-create

Creates a new cluster.

cluster-delete

Deletes a cluster.

cluster-grow

Adds more instances to a cluster.

cluster-instances

Lists all instances of a cluster.

cluster-list

Lists all the clusters.

cluster-show

Shows details of a cluster.

cluster-shrink

Drops instances from a cluster.

configuration-attach

Attaches a configuration group to an instance.

configuration-create

Creates a configuration group.

configuration-default

Shows the default configuration of an instance.

configuration-delete

Deletes a configuration group.

configuration-detach

Detaches a configuration group from an instance.

configuration-instances

Lists all instances associated with a configuration group.

configuration-list

Lists all configuration groups.

configuration-parameter-list

Lists available parameters for a configuration group.

configuration-parameter-show

Shows details of a configuration parameter.

configuration-patch

Patches a configuration group.

configuration-show

Shows details of a configuration group.

configuration-update

Updates a configuration group.

create

Creates a new instance.

database-create

Creates a database on an instance.

database-delete

Deletes a database from an instance.

database-list

Lists available databases on an instance.

datastore-list

Lists available datastores.

datastore-show

Shows details of a datastore.

datastore-version-list

Lists available versions for a datastore.

datastore-version-show

Shows details of a datastore version.

delete

Deletes an instance.

detach-replica

Detaches a replica instance from its replication source.

eject-replica-source

Ejects a replica source from its set.

flavor-list

Lists available flavors.

flavor-show

Shows details of a flavor.

limit-list

Lists the limits for a tenant.

list

Lists all the instances.

log-disable

Instructs Trove guest to stop collecting log details.

log-discard

Instructs Trove guest to discard the container of the published log.

log-enable

Instructs Trove guest to start collecting log details.

log-list

Lists the log files available for instance.

log-publish

Instructs Trove guest to publish latest log entries on instance.

log-save

Save log file for instance.

log-show

Instructs Trove guest to show details of log.

log-tail

Display log entries for instance.

metadata-create

Creates metadata in the database for instance <id>.

metadata-delete

Deletes metadata for instance <id>.

metadata-edit

Replaces metadata value with a new one, this is non-destructive.

metadata-list

Shows all metadata for instance <id>.

metadata-show

Shows metadata entry for key <key> and instance <id>.

metadata-update

Updates metadata, this is destructive.

module-create

Create a module.

module-delete

Delete a module.

module-list

Lists the modules available.

module-show

Shows details of a module.

module-update

Create a module.

promote-to-replica-source

Promotes a replica to be the new replica source of its set.

resize-instance

Resizes an instance with a new flavor.

resize-volume

Resizes the volume size of an instance.

restart

Restarts an instance.

root-disable

Disables root for an instance.

root-enable

Enables root for an instance and resets if already exists.

root-show

Gets status if root was ever enabled for an instance or cluster.

secgroup-add-rule

Creates a security group rule.

secgroup-delete-rule

Deletes a security group rule.

secgroup-list

Lists all security groups.

secgroup-list-rules

Lists all rules for a security group.

secgroup-show

Shows details of a security group.

show

Shows details of an instance.

update

Updates an instance: Edits name, configuration, or replica source.

user-create

Creates a user on an instance.

user-delete

Deletes a user from an instance.

user-grant-access

Grants access to a database(s) for a user.

user-list

Lists the users for an instance.

user-revoke-access

Revokes access to a database for a user.

user-show

Shows details of a user of an instance.

user-show-access

Shows access details of a user of an instance.

user-update-attributes

Updates a user's attributes on an instance.

bash-completion

Prints arguments for bash_completion.

help

Displays help about this program or one of its subcommands.

15.2. TROVE OPTIONAL ARGUMENTS

--version

Show program's version number and exit.

--debug

Print debugging output.

--os-auth-system <auth-system>

Defaults to **env[OS_AUTH_SYSTEM]**.

--service-type <service-type>

Defaults to database for most actions.

--service-name <service-name>

Defaults to **env[TROVE_SERVICE_NAME]**.

--bypass-url <bypass-url>

Defaults to **env[TROVE_BYPASS_URL]**.

--database-service-name <database-service-name>

Defaults to **env[TROVE_DATABASE_SERVICE_NAME]**.

--endpoint-type <endpoint-type>

Defaults to **env[TROVE_ENDPOINT_TYPE]** or **env[OS_ENDPOINT_TYPE]** or publicURL.

--os-database-api-version <database-api-ver>

Accepts 1, defaults to **env[OS_DATABASE_API_VERSION]**.

--retries <retries>

Number of retries.

--json, --os-json-output

Output JSON instead of prettyprint. Defaults to **env[OS_JSON_OUTPUT]**.

--profile HMAC_KEY

HMAC key used to encrypt context data when profiling the performance of an operation. This key should be set to one of the HMAC keys configured in Trove (they are found in api-paste.ini, typically in /etc/trove). Without the key, profiling will not be triggered even if it is enabled on the server side. Defaults to **env[OS_PROFILE_HMACKEY]**.

--insecure

Explicitly allow client to perform "insecure" TLS (https) requests. The server's certificate will not be verified against any certificate authorities. This option should be used with caution.

--os-cacert <ca-certificate>

Specify a CA bundle file to use in verifying a TLS (https) server certificate. Defaults to **env[OS_CACERT]**.

--os-cert <certificate>

Defaults to **env[OS_CERT]**.

--os-key <key>

Defaults to **env[OS_KEY]**.

--timeout <seconds>

Set request timeout (in seconds).

--os-auth-url OS_AUTH_URL

Authentication URL

--os-domain-id OS_DOMAIN_ID

Domain ID to scope to

--os-domain-name OS_DOMAIN_NAME

Domain name to scope to

--os-project-id OS_PROJECT_ID

Project ID to scope to

--os-project-name OS_PROJECT_NAME

Project name to scope to

--os-project-domain-id OS_PROJECT_DOMAIN_ID

Domain ID containing project

--os-project-domain-name OS_PROJECT_DOMAIN_NAME

Domain name containing project

--os-trust-id OS_TRUST_ID

Trust ID

--os-user-id OS_USER_ID

User ID

--os-username OS_USERNAME, --os-user_name OS_USERNAME

Username

--os-user-domain-id OS_USER_DOMAIN_ID

User's domain id

--os-user-domain-name OS_USER_DOMAIN_NAME

User's domain name

--os-password OS_PASSWORD

User's password

--os-tenant-name <auth-tenant-name>

Tenant to request authorization on. Defaults to **env[OS_TENANT_NAME]**.

--os-tenant-id <tenant-id>

Tenant to request authorization on. Defaults to **env[OS_TENANT_ID]**.

--os-auth-token OS_AUTH_TOKEN

Defaults to **env[OS_AUTH_TOKEN]**

--os-region-name <region-name>

Specify the region to use. Defaults to **env[OS_REGION_NAME]**.

15.3. TROVE BACKUP-COPY

```
usage: trove backup-copy <name> <backup> [--region <region>] [--  
description <description>]
```

Creates a backup from another backup.

Positional arguments

<name>

Name of the backup.

<backup>

Backup ID of the source backup.

Optional arguments

--region <region>

Region where the source backup resides.

--description <description>

An optional description for the backup.

15.4. TROVE BACKUP-CREATE

```
usage: trove backup-create <instance> <name> [--description
<description>] [--parent <parent>]
```

Creates a backup of an instance.

Positional arguments

<instance>

ID or name of the instance.

<name>

Name of the backup.

Optional arguments

--description <description>

An optional description for the backup.

--parent <parent>

Optional ID of the parent backup to perform an incremental backup from.

15.5. TROVE BACKUP-DELETE

```
usage: trove backup-delete <backup>
```

Deletes a backup.

Positional arguments

<backup>

ID or name of the backup.

15.6. TROVE BACKUP-LIST

```
usage: trove backup-list [--limit <limit>] [--marker <ID>] [--datastore  
<datastore>]
```

Lists available backups.

Optional arguments

--limit <limit>

Return up to N number of the most recent backups.

--marker <ID>

Begin displaying the results for IDs greater than the specified marker. When used with --limit, set this to the last ID displayed in the previous run.

--datastore <datastore>

Name or ID of the datastore to list backups for.

15.7. TROVE BACKUP-LIST-INSTANCE

```
usage: trove backup-list-instance [--limit <limit>] [--marker <ID>]  
<instance>
```

Lists available backups for an instance.

Positional arguments

<instance>

ID or name of the instance.

Optional arguments

--limit <limit>

Return up to N number of the most recent backups.

--marker <ID>

Begin displaying the results for IDs greater than the specified marker. When used with --limit, set this to the last ID displayed in the previous run.

15.8. TROVE BACKUP-SHOW

```
usage: trove backup-show <backup>
```

Shows details of a backup.

Positional arguments

<backup>

ID of the backup.

15.9. TROVE CLUSTER-CREATE

```
usage: trove cluster-create <name> <datastore> <datastore_version> [--  
instance "<opt=value,opt=value,...>"]
```

Creates a new cluster.

Positional arguments

<name>

Name of the cluster.

<datastore>

A datastore name or ID.

<datastore_version>

A datastore version name or ID.

Optional arguments

--instance

"<opt=value,opt=value,...>" Create an instance for the cluster. Specify multiple times to create multiple instances. Valid options are: flavor=flavor_name_or_id, volume=disk_size_in_GB, volume_type=type, nic='net-id=net-uuid,v4-fixed-ip=ip-addr ,port-id=port-uuid' (where net- id=network_id, v4-fixed- ip=IPv4r_fixed_address, port-id=port_id), availability_zone=AZ_hint_for_Nova.

15.10. TROVE CLUSTER-DELETE

```
usage: trove cluster-delete <cluster>
```

Deletes a cluster.

Positional arguments

<cluster>

ID or name of the cluster.

15.11. TROVE CLUSTER-GROW

```
usage: trove cluster-grow <cluster> [--instance  
<name=name,flavor=flavor_name_or_id,volume=volume>]
```

Adds more instances to a cluster.

Positional arguments

<cluster>

ID or name of the cluster.

Optional arguments

--instance <name=name,flavor=flavor_name_or_id,volume=volume>

Add an instance to the cluster. Specify multiple times to create multiple instances.

15.12. TROVE CLUSTER-INSTANCES

```
usage: trove cluster-instances <cluster>
```

Lists all instances of a cluster.

Positional arguments**<cluster>**

ID or name of the cluster.

15.13. TROVE CLUSTER-LIST**usage:** trove cluster-list [--limit <limit>] [--marker <ID>]

Lists all the clusters.

Optional arguments**--limit <limit>**

Limit the number of results displayed.

--marker <ID>

Begin displaying the results for IDs greater than the specified marker. When used with --limit, set this to the last ID displayed in the previous run.

15.14. TROVE CLUSTER-SHOW**usage:** trove cluster-show <cluster>

Shows details of a cluster.

Positional arguments**<cluster>**

ID or name of the cluster.

15.15. TROVE CLUSTER-SHRINK**usage:** trove cluster-shrink <cluster> <instance> [<instance> ...]

Drops instances from a cluster.

Positional arguments**<cluster>**

ID or name of the cluster.

<instance>

Drop instance(s) from the cluster. Specify multiple ids to drop multiple instances.

15.16. TROVE CONFIGURATION-ATTACH

```
usage: trove configuration-attach <instance> <configuration>
```

Attaches a configuration group to an instance.

Positional arguments

<instance>

ID or name of the instance.

<configuration>

ID of the configuration group to attach to the instance.

15.17. TROVE CONFIGURATION-CREATE

```
usage: trove configuration-create <name> <values> [--datastore
<datastore>] [--datastore_version <datastore_version>] [--description
<description>]
```

Creates a configuration group.

Positional arguments

<name>

Name of the configuration group.

<values>

Dictionary of the values to set.

Optional arguments

--datastore <datastore>

Datastore assigned to the configuration group. Required if default datastore is not configured.

--datastore_version <datastore_version>

Datastore version ID assigned to the configuration group.

--description <description>

An optional description for the configuration group.

15.18. TROVE CONFIGURATION-DEFAULT

```
usage: trove configuration-default <instance>
```

Shows the default configuration of an instance.

Positional arguments

<instance>

ID or name of the instance.

15.19. TROVE CONFIGURATION-DELETE

```
usage: trove configuration-delete <configuration_group>
```

Deletes a configuration group.

Positional arguments

<configuration_group>

ID of the configuration group.

15.20. TROVE CONFIGURATION-DETACH

```
usage: trove configuration-detach <instance>
```

Detaches a configuration group from an instance.

Positional arguments

<instance>

ID or name of the instance.

15.21. TROVE CONFIGURATION-INSTANCES

```
usage: trove configuration-instances <configuration_group>
```

Lists all instances associated with a configuration group.

Positional arguments

<configuration_group>

ID of the configuration group.

15.22. TROVE CONFIGURATION-LIST

```
usage: trove configuration-list
```

Lists all configuration groups.

15.23. TROVE CONFIGURATION-PARAMETER-LIST

```
usage: trove configuration-parameter-list <datastore_version> [--  
datastore <datastore>]
```

Lists available parameters for a configuration group.

Positional arguments

<datastore_version>

Datastore version name or ID assigned to the configuration group.

Optional arguments

--datastore <datastore>

ID or name of the datastore to list configuration parameters for. Optional if the ID of the `datastore_version` is provided.

15.24. TROVE CONFIGURATION-PARAMETER-SHOW

```
usage: trove configuration-parameter-show <datastore_version>  
<parameter> [--datastore <datastore>]
```

Shows details of a configuration parameter.

Positional arguments

<datastore_version>

Datastore version name or ID assigned to the configuration group.

<parameter>

Name of the configuration parameter.

Optional arguments

--datastore <datastore>

ID or name of the datastore to list configuration parameters for. Optional if the ID of the `datastore_version` is provided.

15.25. TROVE CONFIGURATION-PATCH

```
usage: trove configuration-patch <configuration_group> <values>
```

Patches a configuration group.

Positional arguments

<configuration_group>

ID of the configuration group.

<values>

Dictionary of the values to set.

15.26. TROVE CONFIGURATION-SHOW

```
usage: trove configuration-show <configuration_group>
```

Shows details of a configuration group.

Positional arguments

<configuration_group>

ID of the configuration group.

15.27. TROVE CONFIGURATION-UPDATE

```
usage: trove configuration-update <configuration_group> <values> [--  
name <name>] [--description <description>]
```

Updates a configuration group.

Positional arguments

<configuration_group>

ID of the configuration group.

<values>

Dictionary of the values to set.

Optional arguments

--name <name>

Name of the configuration group.

--description <description>

An optional description for the configuration group.

15.28. TROVE CREATE

```
usage: trove create <name> <flavor> [--size <size>] [--volume_type  
<volume_type>] [--databases <databases> [<databases> ...]] [--users  
<users> [<users> ...]] [--backup <backup>] [--availability_zone  
<availability_zone>] [--datastore <datastore>] [--datastore_version  
<datastore_version>] [--nic <net-id=net-uuid,v4-fixed-ip=ip-addr,port-  
id=port-uuid>] [--configuration <configuration>] [--replica_of  
<source_instance>] [--replica_count <count>]
```

Creates a new instance.

Positional arguments

<name>

Name of the instance.

<flavor>

Flavor ID or name of the instance.

Optional arguments

--size <size>

Size of the instance disk volume in GB. Required when volume support is enabled.

--volume_type <volume_type>

Volume type. Optional when volume support is enabled.

--databases <databases> [<databases> ...]

Optional list of databases.

--users <users> [<users> ...]

Optional list of users in the form user:password.

--backup <backup>

A backup ID.

--availability_zone <availability_zone>

The Zone hint to give to nova.

--datastore <datastore>

A datastore name or ID.

--datastore_version <datastore_version>

A datastore version name or ID.

--nic <net-id=net-uuid,v4-fixed-ip=ip-addr,port-id=port-uuid>

Create a NIC on the instance. Specify option multiple times to create multiple NICs. net-id: attach NIC to network with this ID (either port-id or net-id must be specified), v4-fixed-ip: IPv4 fixed address for NIC (optional), port-id: attach NIC to port with this ID (either port-id or net-id must be specified).

--configuration <configuration>

ID of the configuration group to attach to the instance.

--replica_of <source_instance>

ID or name of an existing instance to replicate from.

--replica_count <count>

Number of replicas to create (defaults to 1).

15.29. TROVE DATABASE-CREATE

```
usage: trove database-create <instance> <name> [--character_set
<character_set>] [--collate <collate>]
```

Creates a database on an instance.

Positional arguments

<instance>

ID or name of the instance.

<name>

Name of the database.

Optional arguments

--character_set <character_set>

Optional character set for database.

--collate <collate>

Optional collation type for database.

15.30. TROVE DATABASE-DELETE

```
usage: trove database-delete <instance> <database>
```

Deletes a database from an instance.

Positional arguments

<instance>

ID or name of the instance.

<database>

Name of the database.

15.31. TROVE DATABASE-LIST

```
usage: trove database-list <instance>
```

Lists available databases on an instance.

Positional arguments

<instance>

ID or name of the instance.

15.32. TROVE DATASTORE-LIST

```
usage: trove datastore-list
```

Lists available datastores.

15.33. TROVE DATASTORE-SHOW

```
usage: trove datastore-show <datastore>
```

Shows details of a datastore.

Positional arguments

<datastore>

ID of the datastore.

15.34. TROVE DATASTORE-VERSION-LIST

```
usage: trove datastore-version-list <datastore>
```

Lists available versions for a datastore.

Positional arguments

<datastore>

ID or name of the datastore.

15.35. TROVE DATASTORE-VERSION-SHOW

```
usage: trove datastore-version-show <datastore_version> [--datastore
<datastore>]
```

Shows details of a datastore version.

Positional arguments

<datastore_version>

ID or name of the datastore version.

Optional arguments

--datastore <datastore>

ID or name of the datastore. Optional if the ID of the datastore_version is provided.

15.36. TROVE DELETE

```
usage: trove delete <instance>
```

Deletes an instance.

Positional arguments

<instance>

ID or name of the instance.

15.37. TROVE DETACH-REPLICA

```
usage: trove detach-replica <instance>
```

Detaches a replica instance from its replication source.

Positional arguments

<instance>

ID or name of the instance.

15.38. TROVE EJECT-REPLICA-SOURCE

usage: trove eject-replica-source <instance>

Ejects a replica source from its set.

Positional arguments

<instance>

ID or name of the instance.

15.39. TROVE FLAVOR-LIST

usage: trove flavor-list [--datastore_type <datastore_type>] [--datastore_version_id <datastore_version_id>]

Lists available flavors.

Optional arguments

--datastore_type <datastore_type>

Type of the datastore. For eg: mysql.

--datastore_version_id <datastore_version_id>

ID of the datastore version.

15.40. TROVE FLAVOR-SHOW

usage: trove flavor-show <flavor>

Shows details of a flavor.

Positional arguments

<flavor>

ID or name of the flavor.

15.41. TROVE LIMIT-LIST

```
usage: trove limit-list
```

Lists the limits for a tenant.

15.42. TROVE LIST

```
usage: trove list [--limit <limit>] [--marker <ID>] [--include-  
clustered]
```

Lists all the instances.

Optional arguments

--limit <limit>

Limit the number of results displayed.

--marker <ID>

Begin displaying the results for IDs greater than the specified marker. When used with --limit, set this to the last ID displayed in the previous run.

--include-clustered

Include instances that are part of a cluster (default false).

15.43. TROVE LOG-DISABLE

```
usage: trove log-disable [--discard] <instance> <log_name>
```

Instructs Trove guest to stop collecting log details.

Positional arguments

<instance>

Id or Name of the instance.

<log_name>

Name of log to publish.

Optional arguments

--discard

Discard published contents of specified log.

15.44. TROVE LOG-DISCARD

```
usage: trove log-discard <instance> <log_name>
```

Instructs Trove guest to discard the container of the published log.

Positional arguments

<instance>

Id or Name of the instance.

<log_name>

Name of log to publish.

15.45. TROVE LOG-ENABLE

```
usage: trove log-enable <instance> <log_name>
```

Instructs Trove guest to start collecting log details.

Positional arguments

<instance>

Id or Name of the instance.

<log_name>

Name of log to publish.

15.46. TROVE LOG-LIST

```
usage: trove log-list <instance>
```

Lists the log files available for instance.

Positional arguments

<instance>

Id or Name of the instance.

15.47. TROVE LOG-PUBLISH

```
usage: trove log-publish [--disable] [--discard] <instance> <log_name>
```

Instructs Trove guest to publish latest log entries on instance.

Positional arguments

<instance>

Id or Name of the instance.

<log_name>

Name of log to publish.

Optional arguments

--disable

Stop collection of specified log.

--discard

Discard published contents of specified log.

15.48. TROVE LOG-SAVE

```
usage: trove log-save [--publish] [--file <file>] <instance> <log_name>
```

Save log file for instance.

Positional arguments

<instance>

Id or Name of the instance.

<log_name>

Name of log to publish.

Optional arguments

--publish

Publish latest entries from guest before display.

--file <file>

Path of file to save log to for instance.

15.49. TROVE LOG-SHOW

```
usage: trove log-show <instance> <log_name>
```

Instructs Trove guest to show details of log.

Positional arguments

<instance>

Id or Name of the instance.

<log_name>

Name of log to show.

15.50. TROVE LOG-TAIL

```
usage: trove log-tail [--publish] [--lines <lines>] <instance>
<log_name>
```

Display log entries for instance.

Positional arguments

<instance>

Id or Name of the instance.

<log_name>

Name of log to publish.

Optional arguments

--publish

Publish latest entries from guest before display.

--lines <lines>

Publish latest entries from guest before display.

15.51. TROVE METADATA-CREATE

```
usage: trove metadata-create <instance_id> <key> <value>
```

Creates metadata in the database for instance <id>.

Positional arguments

<instance_id>

UUID for instance.

<key>

Key for assignment.

<value>

Value to assign to <key>.

15.52. TROVE METADATA-DELETE

```
usage: trove metadata-delete <instance_id> <key>
```

Deletes metadata for instance <id>.

Positional arguments

<instance_id>

UUID for instance.

<key>

Metadata key to delete.

15.53. TROVE METADATA-EDIT

```
usage: trove metadata-edit <instance_id> <key> <value>
```

Replaces metadata value with a new one, this is non-destructive.

Positional arguments

<instance_id>

UUID for instance.

<key>

Key to replace.

<value>

New value to assign to <key>.

15.54. TROVE METADATA-LIST

```
usage: trove metadata-list <instance_id>
```

Shows all metadata for instance <id>.

Positional arguments

<instance_id>

UUID for instance.

15.55. TROVE METADATA-SHOW

```
usage: trove metadata-show <instance_id> <key>
```

Shows metadata entry for key <key> and instance <id>.

Positional arguments

<instance_id>

UUID for instance.

<key>

Key to display.

15.56. TROVE METADATA-UPDATE

```
usage: trove metadata-update <instance_id> <key> <newkey> <value>
```

Updates metadata, this is destructive.

Positional arguments

<instance_id>

UUID for instance.

<key>

Key to update.

<newkey>

New key.

<value>

Value to assign to <newkey>.

15.57. TROVE MODULE-CREATE

```
usage: trove module-create <name> <type> <filename> [--description  
<description>] [--datastore <datastore>] [--datastore_version  
<version>] [--auto_apply] [--all_tenants] [--live_update]
```

Create a module.

Positional arguments

<name>

Name of the module.

<type>

Type of the module. The type must be supported by a corresponding module plugin on the datastore it is applied to.

<filename>

File containing data contents for the module.

Optional arguments

--description <description>

Description of the module.

--datastore <datastore>

Name or ID of datastore this module can be applied to. If not specified, module can be applied to all datastores.

--datastore_version <version>

Name or ID of datastore version this module can be applied to. If not specified, module can be applied to all versions.

--auto_apply

Automatically apply this module when creating an instance or cluster.

--all_tenants

Module is valid for all tenants (Admin only).

--live_update

Allow module to be updated even if it is already applied to a current instance or cluster. Automatically attempt to reapply this module if the contents change.

15.58. TROVE MODULE-DELETE

```
usage: trove module-delete <module>
```

Delete a module.

Positional arguments

<module>

ID or name of the module.

15.59. TROVE MODULE-LIST

```
usage: trove module-list [--datastore <datastore>]
```

Lists the modules available.

Optional arguments

--datastore <datastore>

Name or ID of datastore to list modules for.

15.60. TROVE MODULE-SHOW

```
usage: trove module-show <module>
```

Shows details of a module.

Positional arguments

<module>

ID or name of the module.

15.61. TROVE MODULE-UPDATE

```
usage: trove module-update <module> [--name <name>] [--type <type>] [--  
file <filename>] [--description <description>] [--datastore  
<datastore>] [--all_datastores] [--datastore_version <version>] [--  
all_datastore_versions] [--auto_apply] [--no_auto_apply] [--  
all_tenants] [--no_all_tenants] [--live_update] [--no_live_update]
```

Create a module.

Positional arguments

<module>

Name or ID of the module.

Optional arguments

--name <name>

Name of the module.

--type <type>

Type of the module. The type must be supported by a corresponding module plugin on the datastore it is applied to.

--file <filename>

File containing data contents for the module.

--description <description>

Description of the module.

--datastore <datastore>

Name or ID of datastore this module can be applied to. If not specified, module can be applied to all datastores.

--all_datastores

Module is valid for all datastores.

--datastore_version <version>

Name or ID of datastore version this module can be applied to. If not specified, module can be applied to all versions.

--all_datastore_versions

Module is valid for all datastore version.

--auto_apply

Automatically apply this module when creating an instance or cluster.

--no_auto_apply

Do not automatically apply this module when creating an instance or cluster.

--all_tenants

Module is valid for all tenants (Admin only).

--no_all_tenants

Module is valid for current tenant only (Admin only).

--live_update

Allow module to be updated or deleted even if it is already applied to a current instance or cluster. Automatically attempt to reapply this module if the contents change.

--no_live_update

Restricts a module from being updated or deleted if it is already applied to a current instance or cluster.

15.62. TROVE PROMOTE-TO-REPLICA-SOURCE

```
usage: trove promote-to-replica-source <instance>
```

Promotes a replica to be the new replica source of its set.

Positional arguments

<instance>

ID or name of the instance.

15.63. TROVE RESIZE-INSTANCE

```
usage: trove resize-instance <instance> <flavor>
```

Resizes an instance with a new flavor.

Positional arguments

<instance>

ID or name of the instance.

<flavor>

New flavor of the instance.

15.64. TROVE RESIZE-VOLUME

```
usage: trove resize-volume <instance> <size>
```

Resizes the volume size of an instance.

Positional arguments

<instance>

ID or name of the instance.

<size>

New size of the instance disk volume in GB.

15.65. TROVE RESTART

```
usage: trove restart <instance>
```

Restarts an instance.

Positional arguments

<instance>

ID or name of the instance.

15.66. TROVE ROOT-DISABLE

```
usage: trove root-disable <instance>
```

Disables root for an instance.

Positional arguments

<instance>

ID or name of the instance.

15.67. TROVE ROOT-ENABLE

```
usage: trove root-enable <instance_or_cluster> [--root_password  
<root_password>]
```

Enables root for an instance and resets if already exists.

Positional arguments

<instance_or_cluster>

ID or name of the instance or cluster.

Optional arguments

--root_password <root_password>

Root password to set.

15.68. TROVE ROOT-SHOW

```
usage: trove root-show <instance_or_cluster>
```

Gets status if root was ever enabled for an instance or cluster.

Positional arguments

<instance_or_cluster>

ID or name of the instance or cluster.

15.69. TROVE SECGROUP-ADD-RULE

```
usage: trove secgroup-add-rule <security_group> <cidr>
```

Creates a security group rule.

Positional arguments

<security_group>

Security group ID.

<cidr>

CIDR address.

15.70. TROVE SECGROUP-DELETE-RULE

```
usage: trove secgroup-delete-rule <security_group_rule>
```

Deletes a security group rule.

Positional arguments

<security_group_rule>

Name of security group rule.

15.71. TROVE SECGROUP-LIST

```
usage: trove secgroup-list
```

Lists all security groups.

15.72. TROVE SECGROUP-LIST-RULES

```
usage: trove secgroup-list-rules <security_group>
```

Lists all rules for a security group.

Positional arguments

<security_group>

Security group ID.

15.73. TROVE SECGROUP-SHOW

```
usage: trove secgroup-show <security_group>
```

Shows details of a security group.

Positional arguments

<security_group>

Security group ID.

15.74. TROVE SHOW

```
usage: trove show <instance>
```

Shows details of an instance.

Positional arguments

<instance>

ID or name of the instance.

15.75. TROVE UPDATE

```
usage: trove update <instance> [--name <name>] [--configuration
<configuration>] [--detach-replica-source] [--remove_configuration]
```

Updates an instance: Edits name, configuration, or replica source.

Positional arguments

<instance>

ID or name of the instance.

Optional arguments

--name <name>

Name of the instance.

--configuration <configuration>

ID of the configuration reference to attach.

--detach-replica-source

Detach the replica instance from its replication source.

--remove_configuration

Drops the current configuration reference.

15.76. TROVE USER-CREATE

```
usage: trove user-create <instance> <name> <password> [--host <host>]
[--databases <databases> [<databases> ...]]
```

Creates a user on an instance.

Positional arguments

<instance>

ID or name of the instance.

<name>

Name of user.

<password>

Password of user.

Optional arguments

--host <host>

Optional host of user.

--databases <databases> [<databases> ...]

Optional list of databases.

15.77. TROVE USER-DELETE

```
usage: trove user-delete [--host <host>] <instance> <name>
```

Deletes a user from an instance.

Positional arguments

<instance>

ID or name of the instance.

<name>

Name of user.

Optional arguments

--host <host>

Optional host of user.

15.78. TROVE USER-GRANT-ACCESS

```
usage: trove user-grant-access <instance> <name> <databases>
[<databases> ...] [--host <host>]
```

Grants access to a database(s) for a user.

Positional arguments**<instance>**

ID or name of the instance.

<name>

Name of user.

<databases>

List of databases.

Optional arguments**--host <host>**

Optional host of user.

15.79. TROVE USER-LIST

```
usage: trove user-list <instance>
```

Lists the users for an instance.

Positional arguments**<instance>**

ID or name of the instance.

15.80. TROVE USER-REVOKE-ACCESS

```
usage: trove user-revoke-access [--host <host>] <instance> <name>
<database>
```

Revokes access to a database for a user.

Positional arguments**<instance>**

ID or name of the instance.

<name>

Name of user.

<database>

A single database.

Optional arguments

--host <host>

Optional host of user.

15.81. TROVE USER-SHOW

```
usage: trove user-show [--host <host>] <instance> <name>
```

Shows details of a user of an instance.

Positional arguments

<instance>

ID or name of the instance.

<name>

Name of user.

Optional arguments

--host <host>

Optional host of user.

15.82. TROVE USER-SHOW-ACCESS

```
usage: trove user-show-access [--host <host>] <instance> <name>
```

Shows access details of a user of an instance.

Positional arguments

<instance>

ID or name of the instance.

<name>

Name of user.

Optional arguments

--host <host>

Optional host of user.

15.83. TROVE USER-UPDATE-ATTRIBUTES

```
usage: trove user-update-attributes <instance> <name> [--host <host>]
      [--new_name <new_name>] [--new_password <new_password>] [--new_host
      <new_host>]
```

Updates a user's attributes on an instance. At least one optional argument must be provided.

Positional arguments

<instance>

ID or name of the instance.

<name>

Name of user.

Optional arguments

--host <host>

Optional host of user.

--new_name <new_name>

Optional new name of user.

--new_password <new_password>

Optional new password of user.

--new_host <new_host>

Optional new host of user.

CHAPTER 16. DATABASE SERVICE MANAGEMENT UTILITY COMMAND-LINE CLIENT

The **trove-manage** client is the command-line interface (CLI) for the Database service management utility API and its extensions. This chapter documents **trove-manage** version **5.0.0**.

For help on a specific **trove-manage** command, enter:

```
$ trove-manage COMMAND --help
```

16.1. TROVE-MANAGE USAGE

```
usage: trove-manage [-h] [--config-dir DIR] [--config-file PATH] [--
debug] [--log-config-append PATH] [--log-date-format DATE_FORMAT] [--
log-dir LOG_DIR] [--log-file PATH] [--nodebug] [--nouse-syslog] [--
noverbose] [--nowatch-log-file] [--syslog-log-facility
SYSLOG_LOG_FACILITY] [--use-syslog] [--verbose] [--version] [--watch-
log-file]
{db_sync,db_upgrade,db_downgrade,datastore_update,datastore_version_upd
ate,db_recreate,db_load_datastore_config_parameters,datastore_version_f
lavor_add,datastore_version_flavor_delete} ...
```

16.2. TROVE-MANAGE OPTIONAL ARGUMENTS

-h, --help

show this help message and exit

--config-dir DIR

Path to a config directory to pull *.conf files from. This file set is sorted, so as to provide a predictable parse order if individual options are over-ridden. The set is parsed after the file(s) specified via previous --config-file, arguments hence over-ridden options in the directory take precedence.

--config-file PATH

Path to a config file to use. Multiple config files can be specified, with values in later files taking precedence. Defaults to None.

--debug, -d

If set to true, the logging level will be set to DEBUG instead of the default INFO level.

--log-config-append PATH, --log_config PATH

The name of a logging configuration file. This file is appended to any existing logging configuration files. For details about logging configuration files, see the Python logging module documentation. Note that when logging configuration files are used then all logging configuration is set in the configuration file and other logging configuration options are ignored (for example, `logging_context_format_string`).

--log-date-format DATE_FORMAT

Defines the format string for `%(asctime)s` in log records. Default: `None`. This option is ignored if `log_config_append` is set.

--log-dir LOG_DIR, --logdir LOG_DIR

(Optional) The base directory used for relative `log_file` paths. This option is ignored if `log_config_append` is set.

--log-file PATH, --logfile PATH

(Optional) Name of log file to send logging output to. If no default is set, logging will go to `stderr` as defined by `use_stderr`. This option is ignored if `log_config_append` is set.

--nodbbug

The inverse of `--debug`

--nouse-syslog

The inverse of `--use-syslog`

--noverbose

The inverse of `--verbose`

--nowatch-log-file

The inverse of `--watch-log-file`

--syslog-log-facility SYSLOG_LOG_FACILITY

Syslog facility to receive log lines. This option is ignored if `log_config_append` is set.

--use-syslog

Use syslog for logging. Existing syslog format is *DEPRECATED* and will be changed later to honor RFC5424. This option is ignored if `log_config_append` is set.

--verbose, -v

If set to false, the logging level will be set to WARNING instead of the default INFO level.

--version

show program's version number and exit

--watch-log-file

Uses logging handler designed to watch file system. When log file is moved or removed this handler will open a new log file with specified path instantaneously. It makes sense only if log_file option is specified and Linux platform is used. This option is ignored if log_config_append is set.

16.3. TROVE-MANAGE DATASTORE_VERSION_FLAVOR_ADD

```
usage: trove-manage datastore_version_flavor_add [-h] datastore_name
datastore_version_name flavor_ids
```

Adds flavor association to a given datastore and datastore version.

Positional arguments

datastore_name

Name of the datastore.

datastore_version_name

Name of the datastore version.

flavor_ids

Comma separated list of flavor ids.

Optional arguments

-h, --help

show this help message and exit

16.4. TROVE-MANAGE DATASTORE_VERSION_FLAVOR_DELETE

```
usage: trove-manage datastore_version_flavor_delete [-h] datastore_name
datastore_version_name flavor_id
```

Deletes a flavor associated with a given datastore and datastore version.

Positional arguments

datastore_name

Name of the datastore.

datastore_version_name

Name of the datastore version.

flavor_id

The flavor to be deleted for a given datastore and datastore version.

Optional arguments

-h, --help

show this help message and exit

16.5. TROVE-MANAGE DATASTORE_VERSION_UPDATE

```
usage: trove-manage datastore_version_update [-h] datastore
version_name manager image_id packages active
```

Add or update a datastore version. If the datastore version already exists, all values except the datastore name and version will be updated.

Positional arguments

datastore

Name of the datastore.

version_name

Name of the datastore version.

manager

Name of the manager that will administer the datastore version.

image_id

ID of the image used to create an instance of the datastore version.

packages

Packages required by the datastore version that are installed on the guest image.

active

Whether the datastore version is active or not. Accepted values are 0 and 1.

Optional arguments**-h, --help**

show this help message and exit

16.6. TROVE-MANAGE DB_DOWNGRADE

```
usage: trove-manage db_downgrade [-h] [--repo_path REPO_PATH] version
```

Downgrade the database to the specified version.

Positional arguments**version**

Target version.

Optional arguments**-h, --help**

show this help message and exit

--repo_path REPO_PATH

SQLAlchemy Migrate repository path.

16.7. TROVE-MANAGE DB_LOAD_DATASTORE_CONFIG_PARAMETERS

```
usage: trove-manage db_load_datastore_config_parameters [-h] datastore
datastore_version config_file_location
```

Loads configuration group parameter validation rules for a datastore version into the database.

Positional arguments

datastore

Name of the datastore.

datastore_version

Name of the datastore version.

config_file_location

Fully qualified file path to the configuration group parameter validation rules.

Optional arguments**-h, --help**

show this help message and exit

16.8. TROVE-MANAGE DB_RECREATE

```
usage: trove-manage db_recreate [-h] [--repo_path REPO_PATH]
```

Drop the database and recreate it.

Optional arguments**-h, --help**

show this help message and exit

--repo_path REPO_PATH

SQLAlchemy Migrate repository path.

16.9. TROVE-MANAGE DB_SYNC

```
usage: trove-manage db_sync [-h] [--repo_path REPO_PATH]
```

Populate the database structure

Optional arguments**-h, --help**

show this help message and exit

--repo_path REPO_PATH

SQLAlchemy Migrate repository path.

16.10. TROVE-MANAGE DB_UPGRADE

```
usage: trove-manage db_upgrade [-h] [--version VERSION] [--repo_path  
REPO_PATH]
```

Upgrade the database to the specified version.

Optional arguments

-h, --help

show this help message and exit

--version VERSION

Target version. Defaults to the latest version.

--repo_path REPO_PATH

SQLAlchemy Migrate repository path.

CHAPTER 17. BARE METAL SERVICE COMMAND-LINE CLIENT

The **ironic** client is the command-line interface (CLI) for the Bare Metal service API and its extensions. This chapter documents **ironic** version **1.3.1**.

For help on a specific **ironic** command, enter:

```
$ ironic help COMMAND
```

17.1. IRONIC USAGE

```
usage: ironic [--insecure] [--os-cacert <ca-certificate>] [--os-cert
<certificate>] [--os-key <key>] [--timeout <seconds>] [--version] [--
debug] [--json] [-v] [--cert-file OS_CERT] [--key-file OS_KEY] [--ca-
file OS_CACERT] [--os-username OS_USERNAME] [--os-password OS_PASSWORD]
[--os-tenant-id OS_TENANT_ID] [--os-tenant-name OS_TENANT_NAME] [--os-
auth-url OS_AUTH_URL] [--os-region-name OS_REGION_NAME] [--os-auth-
token OS_AUTH_TOKEN] [--ironic-url IRONIC_URL] [--ironic-api-version
IRONIC_API_VERSION] [--os-service-type OS_SERVICE_TYPE] [--os-endpoint
IRONIC_URL] [--os-endpoint-type OS_ENDPOINT_TYPE] [--os-user-domain-id
OS_USER_DOMAIN_ID] [--os-user-domain-name OS_USER_DOMAIN_NAME] [--os-
project-id OS_PROJECT_ID] [--os-project-name OS_PROJECT_NAME] [--os-
project-domain-id OS_PROJECT_DOMAIN_ID] [--os-project-domain-name
OS_PROJECT_DOMAIN_NAME] [--max-retries MAX_RETRIES] [--retry-interval
RETRY_INTERVAL] <subcommand> ...
```

Subcommands

chassis-create

Create a new chassis.

chassis-delete

Delete a chassis.

chassis-list

List the chassis.

chassis-node-list

List the nodes contained in a chassis.

chassis-show

Show detailed information about a chassis.

chassis-update

Update information about a chassis.

node-create

Register a new node with the Ironic service.

node-delete

Unregister node(s) from the Ironic service.

node-get-boot-device

Get the current boot device for a node.

node-get-console

Get the connection information for a node's console, if enabled.

node-get-supported-boot-devices

Get the supported boot devices for a node.

node-get-vendor-passthru-methods

Get the vendor passthru methods for a node.

node-list

List the nodes which are registered with the Ironic service.

node-port-list

List the ports associated with a node.

node-set-boot-device

Set the boot device for a node.

node-set-console-mode

Enable or disable serial console access for a node.

node-set-maintenance

Enable or disable maintenance mode for a node.

node-set-power-state

Power a node on or off or reboot.

node-set-provision-state

Initiate a provisioning state change for a node.

node-set-target-raid-config

Set target RAID config on a node.

node-show

Show detailed information about a node.

node-show-states

Show information about the node's states.

node-update

Update information about a registered node.

node-validate

Validate a node's driver interfaces.

node-vendor-passthru

Call a vendor-passthru extension for a node.

port-create

Create a new port.

port-delete

Delete a port.

port-list

List the ports.

port-show

Show detailed information about a port.

port-update

Update information about a port.

driver-get-vendor-passthru-methods

Get the vendor passthru methods for a driver.

driver-list

List the enabled drivers.

driver-properties

Get properties of a driver.

driver-raid-logical-disk-properties

Get RAID logical disk properties for a driver.

driver-show

Show information about a driver.

driver-vendor-passthru

Call a vendor-passthru extension for a driver.

bash-completion

Prints all of the commands and options for bash- completion.

help

Display help about this program or one of its subcommands.

17.2. IRONIC OPTIONAL ARGUMENTS

--version

show program's version number and exit

--debug

Defaults to **env[IRONICCLIENT_DEBUG]**

--json

Print JSON response without formatting.

-v, --verbose

Print more verbose output

--cert-file OS_CERT

DEPRECATED! Use --os-cert.

--key-file OS_KEY

DEPRECATED! Use --os-key.

--ca-file OS_CACERT

DEPRECATED! Use --os-cacert.

--os-username OS_USERNAME

Defaults to **env[OS_USERNAME]**

--os-password OS_PASSWORD

Defaults to **env[OS_PASSWORD]**

--os-tenant-id OS_TENANT_ID

Defaults to **env[OS_TENANT_ID]**

--os-tenant-name OS_TENANT_NAME

Defaults to **env[OS_TENANT_NAME]**

--os-auth-url OS_AUTH_URL

Defaults to **env[OS_AUTH_URL]**

--os-region-name OS_REGION_NAME

Defaults to **env[OS_REGION_NAME]**

--os-auth-token OS_AUTH_TOKEN

Defaults to **env[OS_AUTH_TOKEN]**

--ironic-url IRONIC_URL

Defaults to **env[IRONIC_URL]**

--ironic-api-version IRONIC_API_VERSION

Accepts 1.x (where "x" is microversion) or "latest", Defaults to **env[IRONIC_API_VERSION]** or 1

--os-service-type OS_SERVICE_TYPE

Defaults to **env[OS_SERVICE_TYPE]** or "baremetal"

--os-endpoint IRONIC_URL

Specify an endpoint to use instead of retrieving one from the service catalog (via authentication). Defaults to **env[OS_SERVICE_ENDPOINT]**.

--os-endpoint-type OS_ENDPOINT_TYPE

Defaults to **env[OS_ENDPOINT_TYPE]** or "publicURL"

--os-user-domain-id OS_USER_DOMAIN_ID

Defaults to **env[OS_USER_DOMAIN_ID]**.

--os-user-domain-name OS_USER_DOMAIN_NAME

Defaults to **env[OS_USER_DOMAIN_NAME]**.

--os-project-id OS_PROJECT_ID

Another way to specify tenant ID. This option is mutually exclusive with --os-tenant-id. Defaults to **env[OS_PROJECT_ID]**.

--os-project-name OS_PROJECT_NAME

Another way to specify tenant name. This option is mutually exclusive with --os-tenant-name. Defaults to **env[OS_PROJECT_NAME]**.

--os-project-domain-id OS_PROJECT_DOMAIN_ID

Defaults to **env[OS_PROJECT_DOMAIN_ID]**.

--os-project-domain-name OS_PROJECT_DOMAIN_NAME

Defaults to `env[OS_PROJECT_DOMAIN_NAME]`.

--max-retries MAX_RETRIES

Maximum number of retries in case of conflict error (HTTP 409). Defaults to `env[IRONIC_MAX_RETRIES]` or 5. Use 0 to disable retrying.

--retry-interval RETRY_INTERVAL

Amount of time (in seconds) between retries in case of conflict error (HTTP 409). Defaults to `env[IRONIC_RETRY_INTERVAL]` or 2.

17.3. IRONIC CHASSIS-CREATE

```
usage: ironic chassis-create [-d <description>] [-e <key=value>] [-u
<uuid>]
```

Create a new chassis.

Optional arguments

-d <description>, --description <description>

Description of the chassis.

-e <key=value>, --extra <key=value>

Record arbitrary key/value metadata. Can be specified multiple times.

-u <uuid>, --uuid <uuid>

UUID of the chassis.

17.4. IRONIC CHASSIS-DELETE

```
usage: ironic chassis-delete <chassis> [<chassis> ...]
```

Delete a chassis.

Positional arguments

<chassis>

UUID of the chassis.

17.5. IRONIC CHASSIS-LIST

17.5. IRONIC CHASSIS-LIST

```
usage: ironic chassis-list [--detail] [--limit <limit>] [--marker  
<chassis>] [--sort-key <field>] [--sort-dir <direction>] [--fields  
<field> [<field> ...]]
```

List the chassis.

Optional arguments

--detail

Show detailed information about the chassis.

--limit <limit>

Maximum number of chassis to return per request, 0 for no limit. Default is the maximum number used by the Ironic API Service.

--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 <field>

Chassis field that will be used for sorting.

--sort-dir <direction>

Sort direction: "asc" (the default) or "desc".

--fields <field> [<field> ...]

One or more chassis fields. Only these fields will be fetched from the server. Can not be used when '-- detail' is specified.

17.6. IRONIC CHASSIS-NODE-LIST

```
usage: ironic chassis-node-list [--detail] [--limit <limit>] [--marker  
<node>] [--sort-key <field>] [--sort-dir <direction>] [--fields <field>  
[<field> ...]] [--maintenance <boolean>] [--associated <boolean>] [--  
provision-state <provision-state>] <chassis>
```

List the nodes contained in a chassis.

Positional arguments

<chassis>

UUID of the chassis.

Optional arguments**--detail**

Show detailed information about the nodes.

--limit <limit>

Maximum number of nodes to return per request, 0 for no limit. Default is the maximum number used by the Ironic 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 <field>

Node field that will be used for sorting.

--sort-dir <direction>

Sort direction: "asc" (the default) or "desc".

--fields <field> [<field> ...]

One or more node fields. Only these fields will be fetched from the server. Can not be used when '-- detail' is specified.

--maintenance <boolean>

List nodes in maintenance mode: 'true' or 'false'.

--associated <boolean>

List nodes by instance association: 'true' or 'false'.

--provision-state <provision-state>

List nodes in specified provision state.

17.7. IRONIC CHASSIS-SHOW

■

```
usage: ironic chassis-show [--fields <field> [<field> ...]] <chassis>
```

Show detailed information about a chassis.

Positional arguments

<chassis>

UUID of the chassis.

Optional arguments

--fields <field> [<field> ...]

One or more chassis fields. Only these fields will be fetched from the server.

17.8. IRONIC CHASSIS-UPDATE

```
usage: ironic chassis-update <chassis> <op> <path=value> [<path=value> ...]
```

Update information about a chassis.

Positional arguments

<chassis>

UUID of the chassis.

<op>

Operation: 'add', 'replace', or 'remove'.

<path=value>

Attribute to add, replace, or remove. Can be specified multiple times. For 'remove', only <path> is necessary.

17.9. IRONIC DRIVER-GET-VENDOR-PASSTHRU-METHODS

```
usage: ironic driver-get-vendor-passthru-methods <driver>
```

Get the vendor passthru methods for a driver.

Positional arguments

<driver>

Name of the driver.

17.10. IRONIC DRIVER-LIST

```
usage: ironic driver-list
```

List the enabled drivers.

17.11. IRONIC DRIVER-PROPERTIES

```
usage: ironic driver-properties [--wrap <integer>] <driver>
```

Get properties of a driver.

Positional arguments

<driver>

Name of the driver.

Optional arguments

--wrap <integer>

Wrap the output to a specified length. Positive number can realize wrap functionality. 0 is default for disabled.

17.12. IRONIC DRIVER-RAID-LOGICAL-DISK-PROPERTIES

```
usage: ironic driver-raid-logical-disk-properties [--wrap <integer>]
<driver>
```

Get RAID logical disk properties for a driver.

Positional arguments

<driver>

Name of the driver.

Optional arguments

--wrap <integer>

Wrap the output to a specified length. Positive number can realize wrap functionality. 0 is default for disabled.

17.13. IRONIC DRIVER-SHOW

```
usage: ironic driver-show <driver>
```

Show information about a driver.

Positional arguments

<driver>

Name of the driver.

17.14. IRONIC DRIVER-VENDOR-PASSTHRU

```
usage: ironic driver-vendor-passthru [--http-method <http-method>]
<driver> <method> [<arg=value> [<arg=value> ...]]
```

Call a vendor-passthru extension for a driver.

Positional arguments

<driver>

Name of the driver.

<method>

Vendor-passthru method to be called.

<arg=value>

Argument to be passed to the vendor-passthru method. Can be specified multiple times.

Optional arguments

--http-method <http-method>

The HTTP method to use in the request. Valid HTTP methods are: 'POST', 'PUT', 'GET', 'DELETE', and 'PATCH'. Defaults to 'POST'.

17.15. IRONIC NODE-CREATE

```
usage: ironic node-create [-c <chassis>] -d <driver> [-i <key=value>]
                        [-p <key=value>] [-e <key=value>] [-u <uuid>] [-n <name>]
```

Register a new node with the Ironic service.

Optional arguments

-c <chassis>, --chassis <chassis>

UUID of the chassis that this node belongs to.

-d <driver>, --driver <driver>

Driver used to control the node [REQUIRED].

-i <key=value>, --driver-info <key=value>

Key/value pair used by the driver, such as out-of-band management credentials. Can be specified multiple times.

-p <key=value>, --properties <key=value>

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.

-e <key=value>, --extra <key=value>

Record arbitrary key/value metadata. Can be specified multiple times.

-u <uuid>, --uuid <uuid>

Unique UUID for the node.

-n <name>, --name <name>

Unique name for the node.

17.16. IRONIC NODE-DELETE

```
usage: ironic node-delete <node> [<node> ...]
```

Unregister node(s) from the Ironic service. :raises: ClientException, if error happens during the delete

Positional arguments**<node>**

Name or UUID of the node.

17.17. IRONIC NODE-GET-BOOT-DEVICE

```
usage: ironic node-get-boot-device <node>
```

Get the current boot device for a node.

Positional arguments**<node>**

Name or UUID of the node.

17.18. IRONIC NODE-GET-CONSOLE

```
usage: ironic node-get-console <node>
```

Get the connection information for a node's console, if enabled.

Positional arguments**<node>**

Name or UUID of the node.

17.19. IRONIC NODE-GET-SUPPORTED-BOOT-DEVICES

```
usage: ironic node-get-supported-boot-devices <node>
```

Get the supported boot devices for a node.

Positional arguments**<node>**

Name or UUID of the node.

17.20. IRONIC NODE-GET-VENDOR-PASSTHRU-METHODS

-

```
usage: ironic node-get-vendor-passthru-methods <node>
```

Get the vendor passthru methods for a node.

Positional arguments

<node>

Name or UUID of the node.

17.21. IRONIC NODE-LIST

```
usage: ironic node-list [--limit <limit>] [--marker <node>] [--sort-key
<field>] [--sort-dir <direction>] [--maintenance <boolean>] [--
associated <boolean>] [--provision-state <provision-state>] [--driver
<driver>] [--detail] [--fields <field> [<field> ...]]
```

List the nodes which are registered with the Ironic service.

Optional arguments

--limit <limit>

Maximum number of nodes to return per request, 0 for no limit. Default is the maximum number used by the Ironic 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 <field>

Node field that will be used for sorting.

--sort-dir <direction>

Sort direction: "asc" (the default) or "desc".

--maintenance <boolean>

List nodes in maintenance mode: 'true' or 'false'.

--associated <boolean>

List nodes by instance association: 'true' or 'false'.

--provision-state <provision-state>

List nodes in specified provision state.

--driver <driver>

List nodes using specified driver.

--detail

Show detailed information about the nodes.

--fields <field> [<field> ...]

One or more node fields. Only these fields will be fetched from the server. Can not be used when '-- detail' is specified.

17.22. IRONIC NODE-PORT-LIST

```
usage: ironic node-port-list [--detail] [--limit <limit>] [--marker  
<port>] [--sort-key <field>] [--sort-dir <direction>] [--fields <field>  
[<field> ...]] <node>
```

List the ports associated with a node.

Positional arguments**<node>**

Name or UUID of the node.

Optional arguments**--detail**

Show detailed information about the ports.

--limit <limit>

Maximum number of ports to return per request, 0 for no limit. Default is the maximum number used by the Ironic 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 <field>

Port field that will be used for sorting.

--sort-dir <direction>

Sort direction: "asc" (the default) or "desc".

--fields <field> [<field> ...]

One or more port fields. Only these fields will be fetched from the server. Can not be used when '-- detail' is specified.

17.23. IRONIC NODE-SET-BOOT-DEVICE

```
usage: ironic node-set-boot-device [--persistent] <node> <boot-device>
```

Set the boot device for a node.

Positional arguments

<node>

Name or UUID of the node.

<boot-device>

'pxe', 'disk', 'cdrom', 'bios', or 'safe'.

Optional arguments

--persistent

Make changes persistent for all future boots.

17.24. IRONIC NODE-SET-CONSOLE-MODE

```
usage: ironic node-set-console-mode <node> <enabled>
```

Enable or disable serial console access for a node.

Positional arguments

<node>

Name or UUID of the node.

<enabled>

Enable or disable console access for a node: 'true' or 'false'.

17.25. IRONIC NODE-SET-MAINTENANCE

```
usage: ironic node-set-maintenance [--reason <reason>] <node>
<maintenance-mode>
```

Enable or disable maintenance mode for a node.

Positional arguments

<node>

Name or UUID of the node.

<maintenance-mode>

'true' or 'false'; 'on' or 'off'.

Optional arguments

--reason <reason>

Reason for setting maintenance mode to 'true' or 'on'; not valid when setting to 'false' or 'off'.

17.26. IRONIC NODE-SET-POWER-STATE

```
usage: ironic node-set-power-state <node> <power-state>
```

Power a node on or off or reboot.

Positional arguments

<node>

Name or UUID of the node.

<power-state>

'on', 'off', or 'reboot'.

17.27. IRONIC NODE-SET-PROVISION-STATE

```
usage: ironic node-set-provision-state [--config-drive <config-drive>]
      [--clean-steps <clean-steps>] <node> <provision-state>
```

Initiate a provisioning state change for a node.

Positional arguments

<node>

Name or UUID of the node.

<provision-state>

Supported states: 'active', 'deleted', 'rebuild', 'inspect', 'provide', 'manage', 'clean' or 'abort'.

Optional arguments

--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. In case it's a directory, a config drive will be generated from it. This argument is only valid when setting provision-state to 'active'.

--clean-steps <clean-steps>

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 'interface' and 'step', and optional key 'args'. This argument must be specified (and is only valid) when setting provision-state to 'clean'.

17.28. IRONIC NODE-SET-TARGET-RAID-CONFIG

```
usage: ironic node-set-target-raid-config <node> <target-raid-config>
```

Set target RAID config on a node.

Positional arguments

<node>

Name or UUID of the node.

<target-raid-config>

A file containing JSON data of the desired RAID configuration. Use '-' to read the contents from standard input. It also accepts the valid json string as input if file/standard input are not used for providing input. The input can be an empty dictionary too which unsets the `node.target_raid_config` on the node.

17.29. IRONIC NODE-SHOW

```
usage: ironic node-show [--instance] [--fields <field> [<field> ...]]
<id>
```

Show detailed information about a node.

Positional arguments**<id>**

Name or UUID of the node (or instance UUID if `--instance` is specified).

Optional arguments**--instance <id>**

is an instance UUID.

--fields <field> [<field> ...]

One or more node fields. Only these fields will be fetched from the server.

17.30. IRONIC NODE-SHOW-STATES

```
usage: ironic node-show-states <node>
```

Show information about the node's states.

Positional arguments**<node>**

Name or UUID of the node.

17.31. IRONIC NODE-UPDATE

```
usage: ironic node-update <node> <op> <path=value> [<path=value> ...]
```

-

Update information about a registered node.

Positional arguments

<node>

Name or UUID of the node.

<op>

Operation: 'add', 'replace', or 'remove'.

<path=value>

Attribute to add, replace, or remove. Can be specified multiple times. For 'remove', only <path> is necessary.

17.32. IRONIC NODE-VALIDATE

```
usage: ironic node-validate <node>
```

Validate a node's driver interfaces.

Positional arguments

<node>

Name or UUID of the node.

17.33. IRONIC NODE-VENDOR-PASSTHRU

```
usage: ironic node-vendor-passthru [--http-method <http-method>] <node>  
<method> [<arg=value> [<arg=value> ...]]
```

Call a vendor-passthru extension for a node.

Positional arguments

<node>

Name or UUID of the node.

<method>

Vendor-passthru method to be called.

<arg=value>

Argument to be passed to the vendor-passthru method. Can be specified multiple times.

Optional arguments

--http-method <http-method>

The HTTP method to use in the request. Valid HTTP methods are: 'POST', 'PUT', 'GET', 'DELETE', and 'PATCH'. Defaults to 'POST'.

17.34. IRONIC PORT-CREATE

```
usage: ironic port-create -a <address> -n <node> [-e <key=value>] [-u <uuid>]
```

Create a new port.

Optional arguments

-a <address>, --address <address>

MAC address for this port.

-n <node>, --node <node>, --node_uuid <node>

UUID of the node that this port belongs to.

-e <key=value>, --extra <key=value>

Record arbitrary key/value metadata. Can be specified multiple times.

-u <uuid>, --uuid <uuid>

UUID of the port.

17.35. IRONIC PORT-DELETE

```
usage: ironic port-delete <port> [<port> ...]
```

Delete a port.

Positional arguments

<port>

UUID of the port.

17.36. IRONIC PORT-LIST

```
usage: ironic port-list [--detail] [--address <mac-address>] [--limit
<limit>] [--marker <port>] [--sort-key <field>] [--sort-dir
<direction>] [--fields <field> [<field> ...]]
```

List the ports.

Optional arguments

--detail

Show detailed information about ports.

--address <mac-address>

Only show information for the port with this MAC address.

--limit <limit>

Maximum number of ports to return per request, 0 for no limit. Default is the maximum number used by the Ironic 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 <field>

Port field that will be used for sorting.

--sort-dir <direction>

Sort direction: "asc" (the default) or "desc".

--fields <field> [<field> ...]

One or more port fields. Only these fields will be fetched from the server. Can not be used when '-- detail' is specified.

17.37. IRONIC PORT-SHOW

```
usage: ironic port-show [--address] [--fields <field> [<field> ...]]
<id>
```

Show detailed information about a port.

Positional arguments

<id>

UUID of the port (or MAC address if --address is specified).

Optional arguments

--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.

17.38. IRONIC PORT-UPDATE

```
usage: ironic port-update <port> <op> <path=value> [<path=value> ...]
```

Update information about a port.

Positional arguments

<port>

UUID of the port.

<op>

Operation: 'add', 'replace', or 'remove'.

<path=value>

Attribute to add, replace, or remove. Can be specified multiple times. For 'remove', only <path> is necessary.

CHAPTER 18. SHARED FILE SYSTEMS COMMAND-LINE CLIENT

The **manila** client is the command-line interface (CLI) for the Shared file systems API and its extensions. This chapter documents **manila** version **1.8.1**.

For help on a specific **manila** command, enter:

```
$ manila help COMMAND
```

18.1. MANILA USAGE

```
usage: manila [--version] [-d] [--os-cache] [--os-reset-cache] [--os-
user-id <auth-user-id>] [--os-username <auth-user-name>] [--os-password
<auth-password>] [--os-tenant-name <auth-tenant-name>] [--os-project-
name <auth-project-name>] [--os-tenant-id <auth-tenant-id>] [--os-
project-id <auth-project-id>] [--os-user-domain-id <auth-user-domain-
id>] [--os-user-domain-name <auth-user-domain-name>] [--os-project-
domain-id <auth-project-domain-id>] [--os-project-domain-name <auth-
project-domain-name>] [--os-auth-url <auth-url>] [--os-region-name
<region-name>] [--service-type <service-type>] [--service-name
<service-name>] [--share-service-name <share-service-name>] [--
endpoint-type <endpoint-type>] [--os-share-api-version <share-api-ver>]
[--os-cacert <ca-certificate>] [--retries <retries>] [--os-cert
<certificate>] <subcommand> ...
```

Subcommands

absolute-limits

Print a list of absolute limits for a user.

access-allow

Allow access to the share.

access-deny

Deny access to a share.

access-list

Show access list for share.

api-version

Display the API version information.

cg-create

Creates a new consistency group (Experimental).

cg-delete

Remove one or more consistency groups (Experimental).

cg-list

List consistency groups with filters (Experimental).

cg-reset-state

Explicitly update the state of a consistency group (Admin only, Experimental).

cg-show

Show details about a consistency group (Experimental).

cg-snapshot-create

Creates a new consistency group snapshot (Experimental).

cg-snapshot-delete

Remove one or more consistency group snapshots (Experimental).

cg-snapshot-list

List consistency group snapshots with filters (Experimental).

cg-snapshot-members

Get member details for a consistency group snapshot (Experimental).

cg-snapshot-reset-state

Explicitly update the state of a consistency group (Admin only, Experimental).

cg-snapshot-show

Show details about a consistency group snapshot (Experimental).

cg-snapshot-update

Update a consistency group snapshot (Experimental).

cg-update

Update a consistency group (Experimental).

create

Creates a new share (NFS, CIFS, CephFS, GlusterFS or HDFS).

credentials

Show user credentials returned from auth.

delete

Remove one or more shares.

endpoints

Discover endpoints that get returned from the authenticate services.

extend

Increases the size of an existing share.

extra-specs-list

Print a list of current 'share types and extra specs' (Admin Only).

force-delete

Attempt force-delete of share, regardless of state (Admin only).

list

List NAS shares with filters.

manage

Manage share not handled by Manila (Admin only).

metadata

Set or delete metadata on a share.

metadata-show

Show metadata of given share.

metadata-update-all

Update all metadata of a share.

migrate

(Deprecated) Migrates share to a new host (Admin only, Experimental).

migration-cancel

Cancels migration of a given share when copying (Admin only, Experimental).

migration-complete

Completes migration for a given share (Admin only, Experimental).

migration-get-progress

Gets migration progress of a given share when copying (Admin only, Experimental).

migration-start

Migrates share to a new host (Admin only, Experimental).

pool-list

List all backend storage pools known to the scheduler (Admin only).

quota-class-show

List the quotas for a quota class.

quota-class-update

Update the quotas for a quota class (Admin only).

quota-defaults

List the default quotas for a tenant.

quota-delete

Delete quota for a tenant/user. The quota will revert back to default (Admin only).

quota-show

List the quotas for a tenant/user.

quota-update

Update the quotas for a tenant/user (Admin only).

rate-limits

Print a list of rate limits for a user.

reset-state

Explicitly update the state of a share (Admin only).

reset-task-state

Explicitly update the task state of a share (Admin only, Experimental).

security-service-create

Create security service used by tenant.

security-service-delete

Delete security service.

security-service-list

Get a list of security services.

security-service-show

Show security service.

security-service-update

Update security service.

service-disable

Disables 'manila-share' or 'manila-scheduler' services (Admin only).

service-enable

Enables 'manila-share' or 'manila-scheduler' services (Admin only).

service-list

List all services (Admin only).

share-export-location-list

List export locations of a given share.

share-export-location-show

Show export location of the share.

share-instance-export-location-list

List export locations of a given share instance.

share-instance-export-location-show

Show export location for the share instance.

share-instance-force-delete

Force-delete the share instance, regardless of state (Admin only).

share-instance-list

List share instances (Admin only).

share-instance-reset-state

Explicitly update the state of a share instance (Admin only).

share-instance-show

Show details about a share instance (Admin only).

share-network-create

Create description for network used by the tenant.

share-network-delete

Delete share network.

share-network-list

Get a list of network info.

share-network-security-service-add

Associate security service with share network.

share-network-security-service-list

Get list of security services associated with a given share network.

share-network-security-service-remove

Dissociate security service from share network.

share-network-show

Get a description for network used by the tenant.

share-network-update

Update share network data.

share-replica-create

Create a share replica (Experimental).

share-replica-delete

Remove one or more share replicas (Experimental).

share-replica-list

List share replicas (Experimental).

share-replica-promote

Promote specified replica to 'active' replica_state (Experimental).

share-replica-reset-replica-state

Explicitly update the 'replica_state' of a share replica (Experimental).

share-replica-reset-state

Explicitly update the 'status' of a share replica (Experimental).

share-replica-resync

Attempt to update the share replica with its 'active' mirror (Experimental).

share-replica-show

Show details about a replica (Experimental).

share-server-delete

Delete share server (Admin only).

share-server-details

Show share server details (Admin only).

share-server-list

List all share servers (Admin only).

share-server-show

Show share server info (Admin only).

show

Show details about a NAS share.

shrink

Decreases the size of an existing share.

snapshot-create

Add a new snapshot.

snapshot-delete

Remove a snapshot.

snapshot-force-delete

Attempt force-delete of snapshot, regardless of state (Admin only).

snapshot-list

List all the snapshots.

snapshot-manage

Manage share snapshot not handled by Manila (Admin only).

snapshot-rename

Rename a snapshot.

snapshot - reset - state

Explicitly update the state of a snapshot (Admin only).

snapshot - show

Show details about a snapshot.

snapshot - unmanage

Unmanage one or more share snapshots (Admin only).

type - access - add

Adds share type access for the given project (Admin only).

type - access - list

Print access information about the given share type (Admin only).

type - access - remove

Removes share type access for the given project (Admin only).

type - create

Create a new share type (Admin only).

type - delete

Delete a specific share type (Admin only).

type - key

Set or unset extra_spec for a share type (Admin only).

type - list

Print a list of available 'share types'.

unmanage

Unmanage share (Admin only).

update

Rename a share.

bash-completion

Print arguments for bash_completion. Prints all of the commands and options to stdout so that the manila.bash_completion script doesn't have to hard code them.

help

Display help about this program or one of its subcommands.

list-extensions

List all the os-api extensions that are available.

18.2. MANILA OPTIONAL ARGUMENTS

--version

show program's version number and exit

-d, --debug

Print debugging output.

--os-cache

Use the auth token cache. Defaults to **env[OS_CACHE]**.

--os-reset-cache

Delete cached password and auth token.

--os-user-id <auth-user-id>

Defaults to env [OS_USER_ID].

--os-username <auth-user-name>

Defaults to **env[OS_USERNAME]**.

--os-password <auth-password>

Defaults to **env[OS_PASSWORD]**.

--os-tenant-name <auth-tenant-name>

Defaults to **env[OS_TENANT_NAME]**.

--os-project-name <auth-project-name>

Another way to specify tenant name. This option is mutually exclusive with --os-tenant-name. Defaults to **env[OS_PROJECT_NAME]**.

--os-tenant-id <auth-tenant-id>

Defaults to **env[OS_TENANT_ID]**.

--os-project-id <auth-project-id>

Another way to specify tenant ID. This option is mutually exclusive with --os-tenant-id. Defaults to **env[OS_PROJECT_ID]**.

--os-user-domain-id <auth-user-domain-id>

OpenStack user domain ID. Defaults to **env[OS_USER_DOMAIN_ID]**.

--os-user-domain-name <auth-user-domain-name>

OpenStack user domain name. Defaults to **env[OS_USER_DOMAIN_NAME]**.

--os-project-domain-id <auth-project-domain-id>

Defaults to **env[OS_PROJECT_DOMAIN_ID]**.

--os-project-domain-name <auth-project-domain-name>

Defaults to **env[OS_PROJECT_DOMAIN_NAME]**.

--os-auth-url <auth-url>

Defaults to **env[OS_AUTH_URL]**.

--os-region-name <region-name>

Defaults to **env[OS_REGION_NAME]**.

--service-type <service-type>

Defaults to compute for most actions.

--service-name <service-name>

Defaults to **env[MANILA_SERVICE_NAME]**.

--share-service-name <share-service-name>

Defaults to **env[MANILA_share_service_name]**.

--endpoint-type <endpoint-type>

Defaults to **env[MANILA_ENDPOINT_TYPE]** or publicURL.

--os-share-api-version <share-api-ver>

Accepts 1.x to override default to **env[OS_SHARE_API_VERSION]**.

--os-cacert <ca-certificate>

Specify a CA bundle file to use in verifying a TLS (https) server certificate. Defaults to **env[OS_CACERT]**.

--retries <retries>

Number of retries.

--os-cert <certificate>

Defaults to **env[OS_CERT]**.

18.3. MANILA ABSOLUTE-LIMITS

```
usage: manila absolute-limits
```

Print a list of absolute limits for a user.

18.4. MANILA ACCESS-ALLOW

```
usage: manila access-allow [--access-level <access_level>] <share>
<access_type> <access_to>
```

Allow access to the share.

Positional arguments

<share>

Name or ID of the NAS share to modify.

<access_type>

Access rule type (only "ip", "user"(user or group), "cert" or "cephx" are supported).

<access_to>

Value that defines access.

Optional arguments

--access-level <access_level>, --access_level <access_level>

Share access level ("rw" and "ro" access levels are supported). Defaults to rw.

18.5. MANILA ACCESS-DENY

```
usage: manila access-deny <share> <id>
```

Deny access to a share.

Positional arguments

<share>

Name or ID of the NAS share to modify.

<id>

ID of the access rule to be deleted.

18.6. MANILA ACCESS-LIST

```
usage: manila access-list [--columns <columns>] <share>
```

Show access list for share.

Positional arguments

<share>

Name or ID of the share.

Optional arguments

--columns <columns>

Comma separated list of columns to be displayed e.g. --columns "access_type,access_to"

18.7. MANILA ABUSE-DETECTION

18.7. MANILA API-VERSION

```
usage: manila api-version
```

Display the API version information.

18.8. MANILA CG-CREATE

```
usage: manila cg-create [--name <name>] [--description <description>]
 [--share-types <share_types>] [--share-network <share_network>] [--
 source-cgsnapshot-id <source_cgsnapshot_id>]
```

Creates a new consistency group (Experimental).

Optional arguments

--name <name>

Optional consistency group name. (Default=None)

--description <description>

Optional consistency group description. (Default=None)

--share-types <share_types>, --share_types <share_types>

Optional list of share types. (Default=None)

--share-network <share_network>, --share_network <share_network>

Specify share-network name or id.

--source-cgsnapshot-id <source_cgsnapshot_id>, --source_cgsnapshot_id <source_cgsnapshot_id>

Optional snapshot ID to create the share from. (Default=None)

18.9. MANILA CG-DELETE

```
usage: manila cg-delete [--force] <consistency_group>
 [<consistency_group> ...]
```

Remove one or more consistency groups (Experimental).

Positional arguments

<consistency_group>

Name or ID of the consistency group(s).

Optional arguments**--force**

Attempt to force delete the consistency group (Default=False) (Admin only).

18.10. MANILA CG-LIST

```
usage: manila cg-list [--all-tenants [<0|1>]] [--limit <limit>] [--offset <offset>] [--columns <columns>]
```

List consistency groups with filters (Experimental).

Optional arguments**--all-tenants [<0|1>]**

Display information from all tenants (Admin only).

--limit <limit>

Maximum number of consistency groups to return. (Default=None)

--offset <offset>

Start position of consistency group listing.

--columns <columns>

Comma separated list of columns to be displayed e.g. --columns "id,name"

18.11. MANILA CG-RESET-STATE

```
usage: manila cg-reset-state [--state <state>] <consistency_group>
```

Explicitly update the state of a consistency group (Admin only, Experimental).

Positional arguments**<consistency_group>**

Name or ID of the consistency group state to modify.

Optional arguments

--state <state>

Indicate which state to assign the consistency group. Options include available, error, creating, deleting, error_deleting. If no state is provided, available will be used.

18.12. MANILA CG-SHOW

```
usage: manila cg-show <consistency_group>
```

Show details about a consistency group (Experimental).

Positional arguments

<consistency_group>

Name or ID of the consistency group.

18.13. MANILA CG-SNAPSHOT-CREATE

```
usage: manila cg-snapshot-create [--name <name>] [--description  
<description>] <consistency_group>
```

Creates a new consistency group snapshot (Experimental).

Positional arguments

<consistency_group>

Name or ID of the consistency group.

Optional arguments

--name <name>

Optional consistency group snapshot name. (Default=None)

--description <description>

Optional consistency group snapshot description. (Default=None)

18.14. MANILA CG-SNAPSHOT-DELETE

```
usage: manila cg-snapshot-delete [--force] <cg_snapshot> [<cg_snapshot>
...]
```

Remove one or more consistency group snapshots (Experimental).

Positional arguments

<cg_snapshot>

Name or ID of the consistency group snapshot.

Optional arguments

--force

Attempt to force delete the cg snapshot(s) (Default=False) (Admin only).

18.15. MANILA CG-SNAPSHOT-LIST

```
usage: manila cg-snapshot-list [--all-tenants [<0|1>]] [--limit
<limit>] [--offset <offset>] [--detailed DETAILED] [--columns
<columns>]
```

List consistency group snapshots with filters (Experimental).

Optional arguments

--all-tenants [<0|1>]

Display information from all tenants (Admin only).

--limit <limit>

Maximum number of consistency group snapshots to return.(Default=None)

--offset <offset>

Start position of consistency group snapshot listing.

--detailed DETAILED

Show detailed information about snapshots.

--columns <columns>

Comma separated list of columns to be displayed e.g. --columns "id,name"

18.16. MANILA CG-SNAPSHOT-MEMBERS

```
usage: manila cg-snapshot-members [--limit <limit>] [--offset <offset>]
<cg_snapshot>
```

Get member details for a consistency group snapshot (Experimental).

Positional arguments

<cg_snapshot>

Name or ID of the consistency group snapshot.

Optional arguments

--limit <limit>

Maximum number of shares to return. (Default=None)

--offset <offset>

Start position of security services listing.

18.17. MANILA CG-SNAPSHOT-RESET-STATE

```
usage: manila cg-snapshot-reset-state [--state <state>] <cg_snapshot>
```

Explicitly update the state of a consistency group (Admin only, Experimental).

Positional arguments

<cg_snapshot>

Name or ID of the consistency group snapshot.

Optional arguments

--state <state>

Indicate which state to assign the consistency group. Options include available, error, creating, deleting, error_deleting. If no state is provided, available will be used.

18.18. MANILA CG-SNAPSHOT-SHOW


```
usage: manila cg-snapshot-show <cg_snapshot>
```

Show details about a consistency group snapshot (Experimental).

Positional arguments

<cg_snapshot>

Name or ID of the consistency group snapshot.

18.19. MANILA CG-SNAPSHOT-UPDATE

```
usage: manila cg-snapshot-update [--name <name>] [--description
<description>] <cg_snapshot>
```

Update a consistency group snapshot (Experimental).

Positional arguments

<cg_snapshot>

Name or ID of the cg snapshot to update.

Optional arguments

--name <name>

Optional new name for the cg snapshot. (Default=None)

--description <description>

Optional cg snapshot description. (Default=None)

18.20. MANILA CG-UPDATE

```
usage: manila cg-update [--name <name>] [--description <description>]
<consistency_group>
```

Update a consistency group (Experimental).

Positional arguments

<consistency_group>

Name or ID of the consistency group to update.

Optional arguments

--name <name>

Optional new name for the consistency group. (Default=None)

--description <description>

Optional consistency group description. (Default=None)

18.21. MANILA CREATE

```
usage: manila create [--snapshot-id <snapshot-id>] [--name <name>] [--  
metadata [<key=value> [<key=value> ...]]] [--share-network <network-  
info>] [--description <description>] [--share-type <share-type>] [--  
public] [--availability-zone <availability-zone>] [--consistency-group  
<consistency-group>] <share_protocol> <size>
```

Creates a new share (NFS, CIFS, CephFS, GlusterFS or HDFS).

Positional arguments

<share_protocol>

Share type (NFS, CIFS, CephFS, GlusterFS or HDFS).

<size>

Share size in GiB.

Optional arguments

--snapshot-id <snapshot-id>

Optional snapshot ID to create the share from. (Default=None)

--name <name>

Optional share name. (Default=None)

--metadata [<key=value> [<key=value> ...]]

Metadata key=value pairs (Optional, Default=None).

--share-network <network-info>

Optional network info ID or name.

--description <description>

Optional share description. (Default=None)

--share-type <share-type>, --share_type <share-type>, --volume-type <share-type>, --volume_type <share-type>

Optional share type. Use of optional volume type is deprecated(Default=None)

--public

Level of visibility for share. Defines whether other tenants are able to see it or not.

--availability-zone <availability-zone>, --availability_zone <availability-zone>, --az <availability-zone>

Availability zone in which share should be created.

--consistency-group <consistency-group>, --consistency_group <consistency-group>, --cg <consistency-group>

Optional consistency group name or ID in which to create the share (Experimental, Default=None).

18.22. MANILA CREDENTIALS

```
usage: manila credentials
```

Show user credentials returned from auth.

18.23. MANILA DELETE

```
usage: manila delete [--consistency-group <consistency-group>] <share>
[<share> ...]
```

Remove one or more shares.

Positional arguments

<share>

Name or ID of the share(s).

Optional arguments

```
--consistency-group <consistency-group>, --consistency_group  
<consistency-group>, --cg <consistency-group>
```

Optional consistency group name or ID which contains the share (Experimental, Default=None).

18.24. MANILA ENDPOINTS

```
usage: manila endpoints
```

Discover endpoints that get returned from the authenticate services.

18.25. MANILA EXTEND

```
usage: manila extend <share> <new_size>
```

Increases the size of an existing share.

Positional arguments

<share>

Name or ID of share to extend.

<new_size>

New size of share, in GiBs.

18.26. MANILA EXTRA-SPECS-LIST

```
usage: manila extra-specs-list [--columns <columns>]
```

Print a list of current 'share types and extra specs' (Admin Only).

Optional arguments

--columns <columns>

Comma separated list of columns to be displayed e.g. --columns "id,name"

18.27. MANILA FORCE-DELETE

```
usage: manila force-delete <share> [<share> ...]
```

Attempt force-delete of share, regardless of state (Admin only).

Positional arguments

<share>

Name or ID of the share(s) to force delete.

18.28. MANILA LIST

```
usage: manila list [--all-tenants [<0|1>]] [--name <name>] [--status
<status>] [--share-server-id <share_server_id>] [--metadata
[<key=value> [<key=value> ...]]] [--extra-specs [<key=value>
[<key=value> ...]]] [--share-type <share_type>] [--limit <limit>] [--
offset <offset>] [--sort-key <sort_key>] [--sort-dir <sort_dir>] [--
snapshot <snapshot>] [--host <host>] [--share-network <share_network>]
[--project-id <project_id>] [--public] [--consistency-group
<consistency_group>] [--columns <columns>]
```

List NAS shares with filters.

Optional arguments

--all-tenants [<0|1>]

Display information from all tenants (Admin only).

--name <name>

Filter results by name.

--status <status>

Filter results by status.

**--share-server-id <share_server_id>, --share-server_id <share_server_id>,
--share_server-id <share_server_id>, --share_server_id <share_server_id>**

Filter results by share server ID (Admin only).

--metadata [<key=value> [<key=value> ...]]

Filters results by a metadata key and value. OPTIONAL: Default=None

**--extra-specs [<key=value> [<key=value> ...]], --extra_specs [<key=value>
[<key=value> ...]]**

Filters results by a extra specs key and value of share type that was used for share

Filters results by a extra specs key and value or share type that was used for share creation. OPTIONAL: Default=None

--share-type <share_type>, --volume-type--share_type <share_type>, --share-type-id <share_type>, --volume-type-id <share_type>, --share-type_id <share_type>, --share_type-id <share_type>, --share_type_id <share_type>, --volume_type <share_type>, --volume_type_id <share_type>

Filter results by a share type id or name that was used for share creation.

--limit <limit>

Maximum number of shares to return. OPTIONAL: Default=None.

--offset <offset>

Set offset to define start point of share listing. OPTIONAL: Default=None.

--sort-key <sort_key>, --sort_key <sort_key>

Key to be sorted, available keys are ('id', 'status', 'size', 'host', 'share_proto', 'export_location', 'availability_zone', 'user_id', 'project_id', 'created_at', 'updated_at', 'display_name', 'name', 'share_type_id', 'share_type', 'share_network_id', 'share_network', 'snapshot_id', 'snapshot'). OPTIONAL: Default=None.

--sort-dir <sort_dir>, --sort_dir <sort_dir>

Sort direction, available values are ('asc', 'desc'). OPTIONAL: Default=None.

--snapshot <snapshot>

Filer results by snapshot name or id, that was used for share.

--host <host>

Filter results by host.

--share-network <share_network>, --share_network <share_network>

Filter results by share-network name or id.

--project-id <project_id>, --project_id <project_id>

Filter results by project id. Useful with set key '--all-tenants'.

--public

Add public shares from all tenants to result.

```
--consistency-group <consistency_group>, --consistency_group
<consistency_group>, --cg <consistency_group>
```

Filter results by consistency group name or ID (Experimental, Default=None).

```
--columns <columns>
```

Comma separated list of columns to be displayed e.g. --columns "export_location,is public"

18.29. MANILA LIST-EXTENSIONS

```
usage: manila list-extensions
```

List all the os-api extensions that are available.

18.30. MANILA MANAGE

```
usage: manila manage [--name <name>] [--description <description>] [--
share_type <share-type>] [--driver_options [<key=value> [<key=value>
...]]] [--public] <service_host> <protocol> <export_path>
```

Manage share not handled by Manila (Admin only).

Positional arguments

<service_host>

manage-share service host: some.host@driver#pool

<protocol>

Protocol of the share to manage, such as NFS or CIFS.

<export_path>

Share export path, NFS share such as: 10.0.0.1:/example_path, CIFS share such as: \\10.0.0.1\example_cifs_share

Optional arguments

--name <name>

Optional share name. (Default=None)

--description <description>

Optional share description. (Default=None)

--share_type <share-type>, --share-type <share-type>

Optional share type assigned to share. (Default=None)

**--driver_options [<key=value> [<key=value> ...]], --driver-options
[<key=value> [<key=value> ...]]**

Driver option key=value pairs (Optional, Default=None).

--public

Level of visibility for share. Defines whether other tenants are able to see it or not. Available only for microversion >= 2.8

18.31. MANILA METADATA

```
usage: manila metadata <share> <action> <key=value> [<key=value> ...]
```

Set or delete metadata on a share.

Positional arguments

<share>

Name or ID of the share to update metadata on.

<action>

Actions: 'set' or 'unset'.

<key=value>

Metadata to set or unset (key is only necessary on unset).

18.32. MANILA METADATA-SHOW

```
usage: manila metadata-show <share>
```

Show metadata of given share.

Positional arguments

<share>

Name or ID of the share.

18.33. MANILA METADATA-UPDATE-ALL

```
usage: manila metadata-update-all <share> <key=value> [<key=value> ...]
```

Update all metadata of a share.

Positional arguments

<share>

Name or ID of the share to update metadata on.

<key=value>

Metadata entry or entries to update.

18.34. MANILA MIGRATION-CANCEL

```
usage: manila migration-cancel <share>
```

Cancels migration of a given share when copying (Admin only, Experimental).

Positional arguments

<share>

Name or ID of share to cancel migration.

18.35. MANILA MIGRATION-COMPLETE

```
usage: manila migration-complete <share>
```

Completes migration for a given share (Admin only, Experimental).

Positional arguments

<share>

Name or ID of share to complete migration.

18.36. MANILA MIGRATION-GET-PROGRESS

```
usage: manila migration-get-progress <share>
```

Gets migration progress of a given share when copying (Admin only, Experimental).

Positional arguments

<share>

Name or ID of the share to get share migration progress information.

18.37. MANILA MIGRATION-START

```
usage: manila migration-start [--force-host-copy <True|False>] [--  
notify <True|False>] <share> <host#pool>
```

Migrates share to a new host (Admin only, Experimental).

Positional arguments

<share>

Name or ID of share to migrate.

<host#pool>

Destination host and pool.

Optional arguments

--force-host-copy <True|False>, --force_host_copy <True|False>

Enables or disables generic host-based force- migration, which bypasses driver optimizations. Default=False.

--notify <True|False>

Enables or disables notification of data copying completed. Default=True.

18.38. MANILA POOL-LIST

```
usage: manila pool-list [--host <host>] [--backend <backend>] [--pool  
<pool>] [--columns <columns>]
```

List all backend storage pools known to the scheduler (Admin only).

Optional arguments

--host <host>

Filter results by host name. Regular expressions are supported.

--backend <backend>

Filter results by backend name. Regular expressions are supported.

--pool <pool>

Filter results by pool name. Regular expressions are supported.

--columns <columns>

Comma separated list of columns to be displayed e.g. --columns "name,host"

18.39. MANILA QUOTA-CLASS-SHOW

```
usage: manila quota-class-show <class>
```

List the quotas for a quota class.

Positional arguments

<class>

Name of quota class to list the quotas for.

18.40. MANILA QUOTA-CLASS-UPDATE

```
usage: manila quota-class-update [--shares <shares>] [--snapshots
<snapshots>] [--gigabytes <gigabytes>] [--snapshot-gigabytes
<snapshot_gigabytes>] [--share-networks <share-networks>] <class-name>
```

Update the quotas for a quota class (Admin only).

Positional arguments

<class-name>

Name of quota class to set the quotas for.

Optional arguments

--shares <shares>

New value for the "shares" quota.

--snapshots <snapshots>

New value for the "snapshots" quota.

--gigabytes <gigabytes>

New value for the "gigabytes" quota.

--snapshot-gigabytes <snapshot_gigabytes>, --snapshot_gigabytes <snapshot_gigabytes>

New value for the "snapshot_gigabytes" quota.

--share-networks <share-networks>, --share_networks <share-networks>

New value for the "share_networks" quota.

18.41. MANILA QUOTA-DEFAULTS

```
usage: manila quota-defaults [--tenant <tenant-id>]
```

List the default quotas for a tenant.

Optional arguments

--tenant <tenant-id>

ID of tenant to list the default quotas for.

18.42. MANILA QUOTA-DELETE

```
usage: manila quota-delete [--tenant <tenant-id>] [--user <user-id>]
```

Delete quota for a tenant/user. The quota will revert back to default (Admin only).

Optional arguments

--tenant <tenant-id>

ID of tenant to delete quota for.

--user <user-id>

ID of user to delete quota for.

18.43. MANILA QUOTA-SHOW

```
usage: manila quota-show [--tenant <tenant-id>] [--user <user-id>]
```

List the quotas for a tenant/user.

Optional arguments

--tenant <tenant-id>

ID of tenant to list the quotas for.

--user <user-id>

ID of user to list the quotas for.

18.44. MANILA QUOTA-UPDATE

```
usage: manila quota-update [--user <user-id>] [--shares <shares>] [--  
snapshots <snapshots>] [--gigabytes <gigabytes>] [--snapshot-gigabytes  
<snapshot_gigabytes>] [--share-networks <share-networks>] [--force]  
<tenant_id>
```

Update the quotas for a tenant/user (Admin only).

Positional arguments

<tenant_id>

UUID of tenant to set the quotas for.

Optional arguments

--user <user-id>

ID of user to set the quotas for.

--shares <shares>

New value for the "shares" quota.

--snapshots <snapshots>

New value for the "snapshots" quota.

--gigabytes <gigabytes>

New value for the "gigabytes" quota.

--snapshot-gigabytes <snapshot_gigabytes>, --snapshot_gigabytes <snapshot_gigabytes>

New value for the "snapshot_gigabytes" quota.

--share-networks <share-networks>

New value for the "share_networks" quota.

--force

Whether force update the quota even if the already used and reserved exceeds the new quota.

18.45. MANILA RATE-LIMITS

```
usage: manila rate-limits [--columns <columns>]
```

Print a list of rate limits for a user.

Optional arguments

--columns <columns>

Comma separated list of columns to be displayed e.g. --columns "verb,uri,value"

18.46. MANILA RESET-STATE

```
usage: manila reset-state [--state <state>] <share>
```

Explicitly update the state of a share (Admin only).

Positional arguments

<share>

Name or ID of the share to modify.

Optional arguments

--state <state>

Indicate which state to assign the share. Options include available, error, creating, deleting, error_deleting. If no state is provided, available will be used.

18.47. MANILA RESET-TASK-STATE

```
usage: manila reset-task-state [--task-state <task_state>] <share>
```

Explicitly update the task state of a share (Admin only, Experimental).

Positional arguments

<share>

Name or ID of the share to modify.

Optional arguments

--task-state <task_state>, --task_state <task_state>, --state <task_state>

Indicate which task state to assign the share. Options include migration_starting, migration_in_progress, migration_completing, migration_success, migration_error, migration_cancelled, migration_driver_in_progress, migration_driver_phase1_done, data_copying_starting, data_copying_in_progress, data_copying_completing, data_copying_completed, data_copying_cancelled, data_copying_error. If no value is provided, migration_error will be used.

18.48. MANILA SECURITY-SERVICE-CREATE

```
usage: manila security-service-create [--dns-ip <dns_ip>] [--server <server>]
[--domain <domain>] [--user <user>] [--password <password>]
[--name <name>] [--description <description>] <type>
```

Create security service used by tenant.

Positional arguments

<type>

Security service type: 'ldap', 'kerberos' or 'active_directory'.

Optional arguments

--dns-ip <dns_ip>

DNS IP address used inside tenant's network.

--server <server>

Security service IP address or hostname.

--domain <domain>

Security service domain.

--user <user>

Security service user or group used by tenant.

--password <password>

Password used by user.

--name <name>

Security service name.

--description <description>

Security service description.

18.49. MANILA SECURITY-SERVICE-DELETE

```
usage: manila security-service-delete <security-service>
```

Delete security service.

Positional arguments

<security-service>

Security service name or ID to delete.

18.50. MANILA SECURITY-SERVICE-LIST

```
usage: manila security-service-list [--all-tenants [<0|1>]] [--share-  
network <share_network>] [--status <status>] [--name <name>] [--type  
<type>] [--user <user>] [--dns-ip <dns_ip>] [--server <server>] [--  
domain <domain>] [--detailed [<0|1>]] [--offset <offset>] [--limit
```



```
<limit>] [--columns <columns>]
```

Get a list of security services.

Optional arguments

```
--all-tenants [<0|1>]
```

Display information from all tenants (Admin only).

```
--share-network <share_network>, --share_network <share_network>
```

Filter results by share network id or name.

```
--status <status>
```

Filter results by status.

```
--name <name>
```

Filter results by name.

```
--type <type>
```

Filter results by type.

```
--user <user>
```

Filter results by user or group used by tenant.

```
--dns-ip <dns_ip>, --dns_ip <dns_ip>
```

Filter results by DNS IP address used inside tenant's network.

```
--server <server>
```

Filter results by security service IP address or hostname.

```
--domain <domain>
```

Filter results by domain.

```
--detailed [<0|1>]
```

Show detailed information about filtered security services.

```
--offset <offset>
```

Start position of security services listing.

--limit <limit>

Number of security services to return per request.

--columns <columns>

Comma separated list of columns to be displayed e.g. --columns "name,type"

18.51. MANILA SECURITY-SERVICE-SHOW

```
usage: manila security-service-show <security-service>
```

Show security service.

Positional arguments

<security-service>

Security service name or ID to show.

18.52. MANILA SECURITY-SERVICE-UPDATE

```
usage: manila security-service-update [--dns-ip <dns-ip>] [--server  
<server>] [--domain <domain>] [--user <user>] [--password <password>]  
[--name <name>] [--description <description>] <security-service>
```

Update security service.

Positional arguments

<security-service>

Security service name or ID to update.

Optional arguments

--dns-ip <dns-ip>

DNS IP address used inside tenant's network.

--server <server>

Security service IP address or hostname.

--domain <domain>

Security service domain.

--user <user>

Security service user or group used by tenant.

--password <password>

Password used by user.

--name <name>

Security service name.

--description <description>

Security service description.

18.53. MANILA SERVICE-DISABLE

```
usage: manila service-disable <hostname> <binary>
```

Disables 'manila-share' or 'manila-scheduler' services (Admin only).

Positional arguments

<hostname>

Host name as 'example_host@example_backend'.

<binary>

Service binary, could be 'manila-share' or 'manila-scheduler'.

18.54. MANILA SERVICE-ENABLE

```
usage: manila service-enable <hostname> <binary>
```

Enables 'manila-share' or 'manila-scheduler' services (Admin only).

Positional arguments

<hostname>

Host name as 'example_host@example_backend'.

<binary>

Service binary, could be 'manila-share' or 'manila-scheduler'.

18.55. MANILA SERVICE-LIST

```
usage: manila service-list [--host <hostname>] [--binary <binary>] [--status <status>] [--state <state>] [--zone <zone>] [--columns <columns>]
```

List all services (Admin only).

Optional arguments

--host <hostname>

Name of host.

--binary <binary>

Service binary.

--status <status>

Filter results by status.

--state <state>

Filter results by state.

--zone <zone>

Availability zone.

--columns <columns>

Comma separated list of columns to be displayed e.g. --columns "id,host"

18.56. MANILA SHARE-EXPORT-LOCATION-LIST

```
usage: manila share-export-location-list [--columns <columns>] <share>
```

List export locations of a given share.

Positional arguments

<share>

Name or ID of the share.

Optional arguments

--columns <columns>

Comma separated list of columns to be displayed e.g. --columns "id,host,status"

18.57. MANILA SHARE-EXPORT-LOCATION-SHOW

```
usage: manila share-export-location-show <share> <export_location>
```

Show export location of the share.

Positional arguments

<share>

Name or ID of the share.

<export_location>

ID of the share export location.

18.58. MANILA SHARE-INSTANCE-EXPORT-LOCATION-LIST

```
usage: manila share-instance-export-location-list [--columns <columns>]
<instance>
```

List export locations of a given share instance.

Positional arguments

<instance>

Name or ID of the share instance.

Optional arguments

--columns <columns>

Comma separated list of columns to be displayed e.g. --columns "id,host,status"

18.59. MANILA SHARE-INSTANCE-EXPORT-LOCATION-SHOW

```
usage: manila share-instance-export-location-show <instance>
<export_location>
```

Show export location for the share instance.

Positional arguments

<instance>

Name or ID of the share instance.

<export_location>

ID of the share instance export location.

18.60. MANILA SHARE-INSTANCE-FORCE-DELETE

```
usage: manila share-instance-force-delete <instance> [<instance> ...]
```

Force-delete the share instance, regardless of state (Admin only).

Positional arguments

<instance>

Name or ID of the instance(s) to force delete.

18.61. MANILA SHARE-INSTANCE-LIST

```
usage: manila share-instance-list [--share-id <share_id>] [--columns
<columns>]
```

List share instances (Admin only).

Optional arguments

--share-id <share_id>, --share_id <share_id>

Filter results by share ID.

--columns <columns>

Comma separated list of columns to be displayed e.g. --columns "id,host,status"

18.62. MANILA SHARE-INSTANCE-RESET-STATE

```
usage: manila share-instance-reset-state [--state <state>] <instance>
```

Explicitly update the state of a share instance (Admin only).

Positional arguments

<instance>

Name or ID of the share instance to modify.

Optional arguments

--state <state>

Indicate which state to assign the instance. Options include available, error, creating, deleting, error_deleting. If no state is provided, available will be used.

18.63. MANILA SHARE-INSTANCE-SHOW

```
usage: manila share-instance-show <instance>
```

Show details about a share instance (Admin only).

Positional arguments

<instance>

Name or ID of the share instance.

18.64. MANILA SHARE-NETWORK-CREATE

```
usage: manila share-network-create [--nova-net-id <nova-net-id>] [--neutron-net-id <neutron-net-id>] [--neutron-subnet-id <neutron-subnet-id>] [--name <name>] [--description <description>]
```

Create description for network used by the tenant.

Optional arguments

```
--nova-net-id <nova-net-id>, --nova-net_id <nova-net-id>, --nova_net_id
<nova-net-id>, --nova_net-id <nova-net-id>
```

Nova net ID. Used to set up network for share servers.

```
--neutron-net-id <neutron-net-id>, --neutron-net_id <neutron-net-id>, --
neutron_net_id <neutron-net-id>, --neutron_net-id <neutron-net-id>
```

Neutron network ID. Used to set up network for share servers.

```
--neutron-subnet-id <neutron-subnet-id>, --neutron-subnet_id <neutron-
subnet-id>, --neutron_subnet_id <neutron-subnet-id>, --neutron_subnet-id
<neutron-subnet-id>
```

Neutron subnet ID. Used to set up network for share servers. This subnet should belong to specified neutron network.

```
--name <name>
```

Share network name.

```
--description <description>
```

Share network description.

18.65. MANILA SHARE-NETWORK-DELETE

```
usage: manila share-network-delete <share-network>
```

Delete share network.

Positional arguments

```
<share-network>
```

Name or ID of share network to be deleted.

18.66. MANILA SHARE-NETWORK-LIST

```
usage: manila share-network-list [--all-tenants [<0|1>]] [--project-id
<project_id>] [--name <name>] [--created-since <created_since>] [--
created-before <created_before>] [--security-service
<security_service>] [--nova-net-id <nova_net_id>] [--neutron-net-id
<neutron_net_id>] [--neutron-subnet-id <neutron_subnet_id>] [--network-
type <network_type>] [--segmentation-id <segmentation_id>] [--cidr
<cidr>] [--ip-version <ip_version>] [--offset <offset>] [--limit
<limit>] [--columns <columns>]
```


Get a list of network info.

Optional arguments

--all-tenants [<0|1>]

Display information from all tenants (Admin only).

--project-id <project_id>, --project-id <project_id>

Filter results by project ID.

--name <name>

Filter results by name.

--created-since <created_since>, --created-since <created_since>

Return only share networks created since given date. The date is in the format 'yyyy-mm-dd'.

--created-before <created_before>, --created-before <created_before>

Return only share networks created until given date. The date is in the format 'yyyy-mm-dd'.

**--security-service <security_service>, --security-service
<security_service>**

Filter results by attached security service.

**--nova-net-id <nova_net_id>, --nova-net-id <nova_net_id>, --nova-net-id
<nova_net_id>, --nova-net-id <nova_net_id>**

Filter results by Nova net ID.

**--neutron-net-id <neutron_net_id>, --neutron-net-id <neutron_net_id>, --
neutron-net-id <neutron_net_id>, --neutron-net-id <neutron_net_id>**

Filter results by neutron net ID.

**--neutron-subnet-id <neutron_subnet_id>, --neutron-subnet-id
<neutron_subnet_id>, --neutron-subnet-id <neutron_subnet_id>, --
neutron-subnet-id <neutron_subnet_id>**

Filter results by neutron subnet ID.

--network-type <network_type>, --network-type <network_type>

Filter results by network type.

--segmentation-id <segmentation_id>, --segmentation_id <segmentation_id>

Filter results by segmentation ID.

--cidr <cidr>

Filter results by CIDR.

--ip-version <ip_version>, --ip_version <ip_version>

Filter results by IP version.

--offset <offset>

Start position of share networks listing.

--limit <limit>

Number of share networks to return per request.

--columns <columns>

Comma separated list of columns to be displayed e.g. --columns "id"

18.67. MANILA SHARE-NETWORK-SECURITY-SERVICE-ADD

```
usage: manila share-network-security-service-add <share-network>
      <security-service>
```

Associate security service with share network.

Positional arguments

<share-network>

Share network name or ID.

<security-service>

Security service name or ID to associate with.

18.68. MANILA SHARE-NETWORK-SECURITY-SERVICE-LIST

```
usage: manila share-network-security-service-list [--columns <columns>]
<share-network>
```

Get list of security services associated with a given share network.

Positional arguments

<share-network>

Share network name or ID.

Optional arguments

--columns <columns>

Comma separated list of columns to be displayed e.g. --columns "id,name"

18.69. MANILA SHARE-NETWORK-SECURITY-SERVICE-REMOVE

```
usage: manila share-network-security-service-remove <share-network>
<security-service>
```

Dissociate security service from share network.

Positional arguments

<share-network>

Share network name or ID.

<security-service>

Security service name or ID to dissociate.

18.70. MANILA SHARE-NETWORK-SHOW

```
usage: manila share-network-show <share-network>
```

Get a description for network used by the tenant.

Positional arguments

<share-network>

Name or ID of the share network to show.

18.71. MANILA SHARE-NETWORK-UPDATE

```
usage: manila share-network-update [--nova-net-id <nova-net-id>] [--neutron-net-id <neutron-net-id>] [--neutron-subnet-id <neutron-subnet-id>] [--name <name>] [--description <description>] <share-network>
```

Update share network data.

Positional arguments

<share-network>

Name or ID of share network to update.

Optional arguments

--nova-net-id <nova-net-id>, --nova-net_id <nova-net-id>, --nova_net_id <nova-net-id>, --nova_net-id <nova-net-id>

Nova net ID. Used to set up network for share servers.

--neutron-net-id <neutron-net-id>, --neutron-net_id <neutron-net-id>, --neutron_net_id <neutron-net-id>, --neutron_net-id <neutron-net-id>

Neutron network ID. Used to set up network for share servers.

--neutron-subnet-id <neutron-subnet-id>, --neutron-subnet_id <neutron-subnet-id>, --neutron_subnet_id <neutron-subnet-id>, --neutron_subnet-id <neutron-subnet-id>

Neutron subnet ID. Used to set up network for share servers. This subnet should belong to specified neutron network.

--name <name>

Share network name.

--description <description>

Share network description.

18.72. MANILA SHARE-REPLICA-CREATE

```
usage: manila share-replica-create [--availability-zone <availability-zone>] [--share-network <network-info>] <share>
```

■

Create a share replica (Experimental).

Positional arguments

<share>

Name or ID of the share to replicate.

Optional arguments

--availability-zone <availability-zone>, --availability_zone <availability-zone>, --az <availability-zone>

Optional Availability zone in which replica should be created.

--share-network <network-info>, --share_network <network-info>

Optional network info ID or name.

18.73. MANILA SHARE-REPLICA-DELETE

```
usage: manila share-replica-delete [--force] <replica> [<replica> ...]
```

Remove one or more share replicas (Experimental).

Positional arguments

<replica>

ID of the share replica.

Optional arguments

--force

Attempt to force deletion of a replica on its backend. Using this option will purge the replica from Manila even if it is not cleaned up on the backend. Defaults to False.

18.74. MANILA SHARE-REPLICA-LIST

```
usage: manila share-replica-list [--share-id <share_id>]
```

List share replicas (Experimental).

Optional arguments

--share-id <share_id>, --share_id <share_id>, --si <share_id>

List replicas belonging to share.

18.75. MANILA SHARE-REPLICA-PROMOTE

```
usage: manila share-replica-promote <replica>
```

Promote specified replica to 'active' replica_state (Experimental).

Positional arguments

<replica>

ID of the share replica.

18.76. MANILA SHARE-REPLICA-RESET-REPLICA-STATE

```
usage: manila share-replica-reset-replica-state [--replica-state
<replica_state>] <replica>
```

Explicitly update the 'replica_state' of a share replica (Experimental).

Positional arguments

<replica>

ID of the share replica to modify.

Optional arguments

--replica-state <replica_state>, --replica_state <replica_state>, --state <replica_state>

Indicate which replica_state to assign the replica. Options include in_sync, out_of_sync, active, error. If no state is provided, out_of_sync will be used.

18.77. MANILA SHARE-REPLICA-RESET-STATE

```
usage: manila share-replica-reset-state [--state <state>] <replica>
```

Explicitly update the 'status' of a share replica (Experimental).

Positional arguments

<replica>

ID of the share replica to modify.

Optional arguments

--state <state>

Indicate which state to assign the replica. Options include available, error, creating, deleting, error_deleting. If no state is provided, available will be used.

18.78. MANILA SHARE-REPLICA-RESYNC

```
usage: manila share-replica-resync <replica>
```

Attempt to update the share replica with its 'active' mirror (Experimental).

Positional arguments

<replica>

ID of the share replica to resync.

18.79. MANILA SHARE-REPLICA-SHOW

```
usage: manila share-replica-show <replica>
```

Show details about a replica (Experimental).

Positional arguments

<replica>

ID of the share replica.

18.80. MANILA SHARE-SERVER-DELETE

```
usage: manila share-server-delete <id>
```

Delete share server (Admin only).

Positional arguments

<id>

ID of share server.

18.81. MANILA SHARE-SERVER-DETAILS

```
usage: manila share-server-details <id>
```

Show share server details (Admin only).

Positional arguments

<id>

ID of share server.

18.82. MANILA SHARE-SERVER-LIST

```
usage: manila share-server-list [--host <hostname>] [--status <status>]
[--share-network <share_network>] [--project-id <project_id>] [--
columns <columns>]
```

List all share servers (Admin only).

Optional arguments

--host <hostname>

Filter results by name of host.

--status <status>

Filter results by status.

--share-network <share_network>

Filter results by share network.

--project-id <project_id>

Filter results by project ID.

--columns <columns>

Comma separated list of columns to be displayed e.g. --columns "id,host,status"

18.83. MANILA SHARE-SERVER-SHOW

```
usage: manila share-server-show <id>
```

Show share server info (Admin only).

Positional arguments

<id>

ID of share server.

18.84. MANILA SHOW

```
usage: manila show <share>
```

Show details about a NAS share.

Positional arguments

<share>

Name or ID of the NAS share.

18.85. MANILA SHRINK

```
usage: manila shrink <share> <new_size>
```

Decreases the size of an existing share.

Positional arguments

<share>

Name or ID of share to shrink.

<new_size>

New size of share, in GiBs.

18.86. MANILA SNAPSHOT-CREATE

```
usage: manila snapshot-create [--force <True|False>] [--name <name>] [-  
-description <description>] <share>
```

-

Add a new snapshot.

Positional arguments

<share>

Name or ID of the share to snapshot.

Optional arguments

--force <True|False>

Optional flag to indicate whether to snapshot a share even if it's busy. (Default=False)

--name <name>

Optional snapshot name. (Default=None)

--description <description>

Optional snapshot description. (Default=None)

18.87. MANILA SNAPSHOT-DELETE

```
usage: manila snapshot-delete <snapshot>
```

Remove a snapshot.

Positional arguments

<snapshot>

Name or ID of the snapshot to delete.

18.88. MANILA SNAPSHOT-FORCE-DELETE

```
usage: manila snapshot-force-delete <snapshot>
```

Attempt force-delete of snapshot, regardless of state (Admin only).

Positional arguments

<snapshot>

Name or ID of the snapshot to force delete.

18.89. MANILA SNAPSHOT-LIST

```
usage: manila snapshot-list [--all-tenants [<0|1>]] [--name <name>] [--status <status>] [--share-id <share_id>] [--usage [any|used|unused]] [--limit <limit>] [--offset <offset>] [--sort-key <sort_key>] [--sort-dir <sort_dir>] [--columns <columns>]
```

List all the snapshots.

Optional arguments

--all-tenants [<0|1>]

Display information from all tenants (Admin only).

--name <name>

Filter results by name.

--status <status>

Filter results by status.

--share-id <share_id>, --share_id <share_id>

Filter results by source share ID.

--usage [any|used|unused]

Either filter or not snapshots by its usage. OPTIONAL: Default=any.

--limit <limit>

Maximum number of share snapshots to return. OPTIONAL: Default=None.

--offset <offset>

Set offset to define start point of share snapshots listing. OPTIONAL: Default=None.

--sort-key <sort_key>, --sort_key <sort_key>

Key to be sorted, available keys are ('id', 'status', 'size', 'share_id', 'user_id', 'project_id', 'progress', 'name', 'display_name'). Default=None.

--sort-dir <sort_dir>, --sort_dir <sort_dir>

Sort direction, available values are ('asc', 'desc'). OPTIONAL: Default=None.

--columns <columns>

Comma separated list of columns to be displayed e.g. --columns "id,name"

18.90. MANILA SNAPSHOT-MANAGE

```
usage: manila snapshot-manage [--name <name>] [--description
<description>] [--driver_options [<key=value> [<key=value> ...]]]
<share> <provider_location>
```

Manage share snapshot not handled by Manila (Admin only).

Positional arguments

<share>

Name or ID of the share.

<provider_location>

Provider location of the snapshot on the backend.

Optional arguments

--name <name>

Optional snapshot name (Default=None).

--description <description>

Optional snapshot description (Default=None).

**--driver_options [<key=value> [<key=value> ...]], --driver-options
[<key=value> [<key=value> ...]]**

Optional driver options as key=value pairs (Default=None).

18.91. MANILA SNAPSHOT-RENAME

```
usage: manila snapshot-rename [--description <description>] <snapshot>
[<name>]
```

Rename a snapshot.

Positional arguments

<snapshot>

Name or ID of the snapshot to rename.

<name>

New name for the snapshot.

Optional arguments

--description <description>

Optional snapshot description. (Default=None)

18.92. MANILA SNAPSHOT-RESET-STATE

```
usage: manila snapshot-reset-state [--state <state>] <snapshot>
```

Explicitly update the state of a snapshot (Admin only).

Positional arguments

<snapshot>

Name or ID of the snapshot to modify.

Optional arguments

--state <state>

Indicate which state to assign the snapshot. Options include available, error, creating, deleting, error_deleting. If no state is provided, available will be used.

18.93. MANILA SNAPSHOT-SHOW

```
usage: manila snapshot-show <snapshot>
```

Show details about a snapshot.

Positional arguments

<snapshot>

Name or ID of the snapshot.

18.94. MANILA SNAPSHOT-UNMANAGE

```
usage: manila snapshot-unmanage <snapshot> [<snapshot> ...]
```

Unmanage one or more share snapshots (Admin only).

Positional arguments

<snapshot>

Name or ID of the snapshot(s).

18.95. MANILA TYPE-ACCESS-ADD

```
usage: manila type-access-add <share_type> <project_id>
```

Adds share type access for the given project (Admin only).

Positional arguments

<share_type>

Share type name or ID to add access for the given project.

<project_id>

Project ID to add share type access for.

18.96. MANILA TYPE-ACCESS-LIST

```
usage: manila type-access-list <share_type>
```

Print access information about the given share type (Admin only).

Positional arguments

<share_type>

Filter results by share type name or ID.

18.97. MANILA TYPE-ACCESS-REMOVE

```
usage: manila type-access-remove <share_type> <project_id>
```

Removes share type access for the given project (Admin only).

Positional arguments

<share_type>

Share type name or ID to remove access for the given project.

<project_id>

Project ID to remove share type access for.

18.98. MANILA TYPE-CREATE

```
usage: manila type-create [--snapshot_support <snapshot_support>] [--is_public <is_public>] <name> <spec_driver_handles_share_servers>
```

Create a new share type (Admin only).

Positional arguments

<name>

Name of the new share type.

<spec_driver_handles_share_servers>

Required extra specification. Valid values are 'true'/'1' and 'false'/'0'

Optional arguments

--snapshot_support <snapshot_support>, --snapshot-support <snapshot_support>

Boolean extra spec that used for filtering of back ends by their capability to create share snapshots. (Default is True).

--is_public <is_public>, --is-public <is_public>

Make type accessible to the public (default true).

18.99. MANILA TYPE-DELETE

```
usage: manila type-delete <id>
```

Delete a specific share type (Admin only).

Positional arguments

<id>

Name or ID of the share type to delete.

18.100. MANILA TYPE-KEY

```
usage: manila type-key <stype> <action> [<key=value> [<key=value> ...]]
```

Set or unset extra_spec for a share type (Admin only).

Positional arguments

<stype>

Name or ID of the share type.

<action>

Actions: 'set' or 'unset'.

<key=value>

Extra_specs to set or unset (key is only necessary on unset).

18.101. MANILA TYPE-LIST

```
usage: manila type-list [--all] [--columns <columns>]
```

Print a list of available 'share types'.

Optional arguments

--all

Display all share types (Admin only).

--columns <columns>

Comma separated list of columns to be displayed e.g. --columns "id,name"

18.102. MANILA UNMANAGE

```
usage: manila unmanage <share>
```

Unmanage share (Admin only).

Positional arguments

<share>

Name or ID of the share(s).

18.103. MANILA UPDATE

```
usage: manila update [--name <name>] [--description <description>] [--is-public <is_public>] <share>
```

Rename a share.

Positional arguments

<share>

Name or ID of the share to rename.

Optional arguments

--name <name>

New name for the share.

--description <description>

Optional share description. (Default=None)

--is-public <is_public>, --is_public <is_public>

Public share is visible for all tenants.

CHAPTER 19. A TIME SERIES STORAGE AND RESOURCES INDEX SERVICE COMMAND-LINE CLIENT

The **gnocchi** client is the command-line interface (CLI) for the A time series storage and resources index service API and its extensions. This chapter documents **gnocchi** version **2.2.0**.

For help on a specific **gnocchi** command, enter:

```
$ gnocchi help COMMAND
```

19.1. GNOCCHI USAGE

```
usage: gnocchi [--version] [-v | -q] [--log-file LOG_FILE] [-h] [--
debug] [--os-region-name <auth-region-name>] [--os-interface
<interface>] [--gnocchi-api-version GNOCCHI_API_VERSION] [--insecure]
[--os-cacert <ca-certificate>] [--os-cert <certificate>] [--os-key
<key>] [--timeout <seconds>] [--os-auth-type <name>] [--os-auth-url
OS_AUTH_URL] [--os-domain-id OS_DOMAIN_ID] [--os-domain-name
OS_DOMAIN_NAME] [--os-project-id OS_PROJECT_ID] [--os-project-name
OS_PROJECT_NAME] [--os-project-domain-id OS_PROJECT_DOMAIN_ID] [--os-
project-domain-name OS_PROJECT_DOMAIN_NAME] [--os-trust-id OS_TRUST_ID]
[--os-default-domain-id OS_DEFAULT_DOMAIN_ID] [--os-default-domain-name
OS_DEFAULT_DOMAIN_NAME] [--os-user-id OS_USER_ID] [--os-user-name
OS_USERNAME] [--os-user-domain-id OS_USER_DOMAIN_ID] [--os-user-domain-
name OS_USER_DOMAIN_NAME] [--os-password OS_PASSWORD] [--endpoint
ENDPOINT]
```

19.2. GNOCCHI OPTIONAL ARGUMENTS

--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-region-name <auth-region-name>

Authentication region name (Env: OS_REGION_NAME)

--os-interface <interface>

Select an interface type. Valid interface types: [admin, public, internal]. (Env: OS_INTERFACE)

--gnocchi-api-version GNOCCHI_API_VERSION

Defaults to `env[GNOCCHI_API_VERSION]` or 1.

--os-auth-type <name>, --os-auth-plugin <name>

Authentication type to use

--endpoint ENDPOINT

Gnocchi endpoint (Env: GNOCCHI_ENDPOINT)

19.3. GNOCCHI API CONNECTION OPTIONS

Options controlling the HTTP API Connections

--insecure

Explicitly allow client to perform "insecure" TLS (https) requests. The server's certificate will not be verified against any certificate authorities. This option should be used with caution.

--os-cacert <ca-certificate>

Specify a CA bundle file to use in verifying a TLS (https) server certificate. Defaults to `env[OS_CACERT]`.

--os-cert <certificate>

Defaults to `env[OS_CERT]`.

--os-key <key>

Defaults to **env[OS_KEY]**.

--timeout <seconds>

Set request timeout (in seconds).

19.4. GNOCCHI AUTHENTICATION OPTIONS

Options specific to the password plugin.

--os-auth-url OS_AUTH_URL

Authentication URL

--os-domain-id OS_DOMAIN_ID

Domain ID to scope to

--os-domain-name OS_DOMAIN_NAME

Domain name to scope to

--os-project-id OS_PROJECT_ID, --os-tenant-id OS_PROJECT_ID

Project ID to scope to

--os-project-name OS_PROJECT_NAME, --os-tenant-name OS_PROJECT_NAME

Project name to scope to

--os-project-domain-id OS_PROJECT_DOMAIN_ID

Domain ID containing project

--os-project-domain-name OS_PROJECT_DOMAIN_NAME

Domain name containing project

--os-trust-id OS_TRUST_ID

Trust ID

--os-default-domain-id OS_DEFAULT_DOMAIN_ID

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.

--os-default-domain-name OS_DEFAULT_DOMAIN_NAME

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.

--os-user-id OS_USER_ID

User id

--os-user-name OS_USERNAME, --os-username OS_USERNAME

Username

--os-user-domain-id OS_USER_DOMAIN_ID

User's domain id

--os-user-domain-name OS_USER_DOMAIN_NAME

User's domain name

--os-password OS_PASSWORD

User's password

19.5. GNOCCHI ARCHIVE-POLICY CREATE

```
usage: gnocchi archive-policy create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [-b BACK_WINDOW] [-m
AGGREGATION_METHODS] -d <DEFINITION> name
```

Create an archive policy

Positional arguments

name

name of the archive policy

Optional arguments

-h, --help

show this help message and exit

-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

-d <DEFINITION>, --definition <DEFINITION>

two attributes (separated by ',') of an archive policy definition with its name and value separated with a ':'

Output formatters

Output formatter options

-f {html,json,json,shell,table,value,yaml,yaml}, --format {html,json,json,shell,table,value,yaml,yaml}

the output format, defaults to table

-c COLUMN, --column COLUMN

specify the column(s) to include, can be repeated

table formatter:

--max-width <integer>

Maximum display width, 0 to disable

json formatter:

--noindent

whether to disable indenting the JSON

shell formatter:

a format a UNIX shell can parse (variable="value")

--prefix PREFIX

add a prefix to all variable names

19.6. GNOCCHI ARCHIVE-POLICY DELETE

```
usage: gnocchi archive-policy delete [-h] name
```

Delete an archive policy

Positional arguments

name

Name of the archive policy

Optional arguments

-h, --help

show this help message and exit

19.7. GNOCCHI ARCHIVE-POLICY LIST

```
usage: gnocchi archive-policy list [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}]
```

List archive policies

Optional arguments

-h, --help

show this help message and exit

Output formatters

Output formatter options

-f {csv,html,json,json,table,value,yaml,yaml}, --format {csv,html,json,json,table,value,yaml,yaml}

the output format, defaults to table

-c COLUMN, --column COLUMN

specify the column(s) to include, can be repeated

table formatter:

--max-width <integer>

Maximum display width, 0 to disable

json formatter:

--noindent

whether to disable indenting the JSON

CSV formatter:

--quote {all,minimal,none,nonnumeric}

when to include quotes, defaults to nonnumeric

19.8. GNOCCHI ARCHIVE-POLICY-RULE CREATE

```
usage: gnocchi archive-policy-rule create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] -a ARCHIVE_POLICY_NAME -m
METRIC_PATTERN name
```

Create an archive policy rule

Positional arguments

name

Rule name

Optional arguments

-h, --help

show this help message and exit

-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

Output formatters

Output formatter options

-f {html,json,json,shell,table,value,yaml,yaml}, --format {html,json,json,shell,table,value,yaml,yaml}

the output format, defaults to table

-c COLUMN, --column COLUMN

specify the column(s) to include, can be repeated

table formatter:

--max-width <integer>

Maximum display width, 0 to disable

json formatter:

--noindent

whether to disable indenting the JSON

shell formatter:

a format a UNIX shell can parse (variable="value")

--prefix PREFIX

add a prefix to all variable names

19.9. GNOCCHI ARCHIVE-POLICY-RULE DELETE

usage: `gnocchi archive-policy-rule delete [-h] name`

Delete an archive policy rule

Positional arguments

name

Name of the archive policy rule

Optional arguments

-h, --help

show this help message and exit

19.10. GNOCCHI ARCHIVE-POLICY-RULE LIST

```
usage: gnocchi archive-policy-rule list [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}]
```

List archive policy rules

Optional arguments

-h, --help

show this help message and exit

Output formatters

Output formatter options

-f {csv,html,json,json,table,value,yaml,yaml}, --format {csv,html,json,json,table,value,yaml,yaml}

the output format, defaults to table

-c COLUMN, --column COLUMN

specify the column(s) to include, can be repeated

table formatter:

--max-width <integer>

Maximum display width, 0 to disable

json formatter:

--noindent

whether to disable indenting the JSON

CSV formatter:

--quote {all,minimal,none,nonnumeric}

when to include quotes, defaults to nonnumeric

19.11. GNOCCHI ARCHIVE-POLICY-RULE SHOW

```
usage: gnocchi archive-policy-rule show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] name
```

Show an archive policy rule

Positional arguments

name

Name of the archive policy rule

Optional arguments

-h, --help

show this help message and exit

Output formatters

Output formatter options

-f {html,json,json,shell,table,value,yaml,yaml}, --format {html,json,json,shell,table,value,yaml,yaml}

the output format, defaults to table

-c COLUMN, --column COLUMN

specify the column(s) to include, can be repeated

table formatter:

--max-width <integer>

Maximum display width, 0 to disable

json formatter:

--noindent

whether to disable indenting the JSON

shell formatter:

a format a UNIX shell can parse (variable="value")

--prefix PREFIX

add a prefix to all variable names

19.12. GNOCCHI ARCHIVE-POLICY SHOW

```
usage: gnocchi archive-policy show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] name
```

Show an archive policy

Positional arguments

name

Name of the archive policy

Optional arguments

-h, --help

show this help message and exit

Output formatters

Output formatter options

-f {html,json,json,shell,table,value,yaml,yaml}, --format {html,json,json,shell,table,value,yaml,yaml}

the output format, defaults to table

-c COLUMN, --column COLUMN

specify the column(s) to include, can be repeated

table formatter:

--max-width <integer>

Maximum display width, 0 to disable

json formatter:

--noindent

whether to disable indenting the JSON

shell formatter:

a format a UNIX shell can parse (variable="value")

--prefix PREFIX

add a prefix to all variable names

19.13. GNOCCHI BENCHMARK MEASURES ADD

```
usage: gnocchi benchmark measures add [-h] [--resource-id RESOURCE_ID]
[-f {html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-
width <integer>] [--noindent] [--prefix PREFIX] [--workers WORKERS] --
count COUNT [--batch BATCH] [--timestamp-start TIMESTAMP_START] [--
timestamp-end TIMESTAMP_END] metric
```

Do benchmark testing of adding measurements

Positional arguments

metric

ID or name of the metric

Optional arguments

-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

Output formatters

Output formatter options

-f {html,json,json,shell,table,value,yaml,yaml}, **--format** {html,json,json,shell,table,value,yaml,yaml}

the output format, defaults to table

-c **COLUMN**, **--column** **COLUMN**

specify the column(s) to include, can be repeated

table formatter:

--max-width <integer>

Maximum display width, 0 to disable

json formatter:

--noindent

whether to disable indenting the JSON

shell formatter:

a format a UNIX shell can parse (variable="value")

--prefix **PREFIX**

add a prefix to all variable names

19.14. GNOCCHI BENCHMARK MEASURES SHOW

```
usage: gnocchi benchmark measures show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
```

```
<integer>] [--noindent] [--prefix PREFIX] [--resource-id RESOURCE_ID]
[--aggregation AGGREGATION] [--start START] [--stop STOP] [--workers
WORKERS] --count COUNT metric
```

Do benchmark testing of measurements show

Positional arguments

metric

ID or name of the metric

Optional arguments

-h, --help

show this help message and exit

--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

--workers WORKERS, -w WORKERS

Number of workers to use

--count COUNT, -n COUNT

Number of total measures to send

Output formatters

Output formatter options

-f {html,json,json,shell,table,value,yaml,yaml}, --format {html,json,json,shell,table,value,yaml,yaml}

the output format, defaults to table

-c COLUMN, --column COLUMN

specify the column(s) to include, can be repeated

table formatter:

--max-width <integer>

Maximum display width, 0 to disable

json formatter:

--noindent

whether to disable indenting the JSON

shell formatter:

a format a UNIX shell can parse (variable="value")

--prefix PREFIX

add a prefix to all variable names

19.15. GNOCCHI BENCHMARK METRIC CREATE

```
usage: gnocchi benchmark metric create [-h] [--resource-id RESOURCE_ID]
[-f {html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-
width <integer>] [--noindent] [--prefix PREFIX] [--archive-policy-name
ARCHIVE_POLICY_NAME] [--workers WORKERS] --count COUNT [--keep]
```

Do benchmark testing of metric creation

Optional arguments

-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

--workers WORKERS, -w WORKERS

Number of workers to use

--count COUNT, -n COUNT

Number of metrics to create

--keep, -k

Keep created metrics

Output formatters

Output formatter options

-f {html,json,json,shell,table,value,yaml,yaml}, --format {html,json,json,shell,table,value,yaml,yaml}

the output format, defaults to table

-c COLUMN, --column COLUMN

specify the column(s) to include, can be repeated

table formatter:

--max-width <integer>

Maximum display width, 0 to disable

json formatter:

--noindent

whether to disable indenting the JSON

shell formatter:

a format a UNIX shell can parse (variable="value")

--prefix PREFIX

add a prefix to all variable names

19.16. GNOCCHI BENCHMARK METRIC SHOW

```
usage: gnocchi benchmark metric show [-h] [--resource-id RESOURCE_ID]
[-f {html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-
width <integer>] [--noindent] [--prefix PREFIX] [--workers WORKERS] --
count COUNT metric [metric ...]
```

Do benchmark testing of metric show

Positional arguments

metric

ID or name of the metrics

Optional arguments

-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

Output formatters

Output formatter options

-f {html,json,json,shell,table,value,yaml,yaml}, --format {html,json,json,shell,table,value,yaml,yaml}

the output format, defaults to table

-c COLUMN, --column COLUMN

specify the column(s) to include, can be repeated

table formatter:

--max-width <integer>

Maximum display width, 0 to disable

json formatter:

--noindent

whether to disable indenting the JSON

shell formatter:

a format a UNIX shell can parse (variable="value")

--prefix PREFIX

add a prefix to all variable names

19.17. GNOCCHI CAPABILITIES LIST

```
usage: gnocchi capabilities list [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX]
```

List capabilities

Optional arguments

-h, --help

show this help message and exit

Output formatters

Output formatter options

-f {html,json,json,shell,table,value,yaml,yaml}, --format {html,json,json,shell,table,value,yaml,yaml}

the output format, defaults to table

-c COLUMN, --column COLUMN

specify the column(s) to include, can be repeated

table formatter:

--max-width <integer>

Maximum display width, 0 to disable

json formatter:

--noindent

whether to disable indenting the JSON

shell formatter:

a format a UNIX shell can parse (variable="value")

--prefix PREFIX

add a prefix to all variable names

19.18. GNOCCHI MEASURES ADD

```
usage: gnocchi measures add [-h] [--resource-id RESOURCE_ID] -m MEASURE
metric
```

Add measurements to a metric

Positional arguments

metric

ID or name of the metric

Optional arguments

-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 '@'

19.19. GNOCCHI MEASURES AGGREGATION

```
usage: gnocchi measures aggregation [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}] -m
METRIC [METRIC ...] [--aggregation AGGREGATION] [--start START] [--stop
STOP] [--needed-overlap NEEDED_OVERLAP] [--query QUERY]
```

Get measurements of aggregated metrics

Optional arguments

-h, --help

show this help message and exit

-m METRIC [METRIC ...], --metric METRIC [METRIC ...]

metrics IDs or metric name

--aggregation AGGREGATION

aggregation to retrieve

--start START

beginning of the period

--stop STOP

end of the period

--needed-overlap NEEDED_OVERLAP

percent of datapoints in each metrics required

--query QUERY

Query

Output formatters

Output formatter options

-f {csv,html,json,json,table,value,yaml,yaml}, --format {csv,html,json,json,table,value,yaml,yaml}

the output format, defaults to table

-c COLUMN, --column COLUMN

specify the column(s) to include, can be repeated

table formatter:

--max-width <integer>

Maximum display width, 0 to disable

json formatter:

--noindent

whether to disable indenting the JSON

CSV formatter:

--quote {all,minimal,none,nonnumeric}

when to include quotes, defaults to nonnumeric

19.20. GNOCCHI MEASURES BATCH-METRICS

```
usage: gnocchi measures batch-metrics [-h] file
```

Positional arguments

file

File containing measurements to batch or - for stdin (see Gnocchi REST API docs for the format)

Optional arguments

-h, --help

show this help message and exit

19.21. GNOCCHI MEASURES BATCH-RESOURCES-METRICS

```
usage: gnocchi measures batch-resources-metrics [-h] file
```

Positional arguments

file

File containing measurements to batch or - for stdin (see Gnocchi REST API docs for the format)

Optional arguments

-h, --help

show this help message and exit

19.22. GNOCCHI MEASURES SHOW

```
usage: gnocchi measures show [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}] [--
resource-id RESOURCE_ID] [--aggregation AGGREGATION] [--start START] [-
-stop STOP] metric
```

Get measurements of a metric

Positional arguments

metric

ID or name of the metric

Optional arguments

-h, --help

show this help message and exit

--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

Output formatters

Output formatter options

-f {csv,html,json,json,table,value,yaml,yaml}, --format {csv,html,json,json,table,value,yaml,yaml}

the output format, defaults to table

-c COLUMN, --column COLUMN

specify the column(s) to include, can be repeated

table formatter:

--max-width <integer>

Maximum display width, 0 to disable

json formatter:

--noindent

whether to disable indenting the JSON

CSV formatter:

--quote {all,minimal,none,nonnumeric}

when to include quotes, defaults to nonnumeric

19.23. GNOCCHI METRIC CREATE

```
usage: gnocchi metric create [-h] [--resource-id RESOURCE_ID] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--archive-policy-name
ARCHIVE_POLICY_NAME] [METRIC_NAME]
```

Create a metric

Positional arguments

METRIC_NAME

Name of the metric

Optional arguments

-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

Output formatters

Output formatter options

-f {html,json,json,shell,table,value,yaml,yaml}, --format {html,json,json,shell,table,value,yaml,yaml}

the output format, defaults to table

-c COLUMN, --column COLUMN

specify the column(s) to include, can be repeated

table formatter:

--max-width <integer>

Maximum display width, 0 to disable

json formatter:

--noindent

whether to disable indenting the JSON

shell formatter:

a format a UNIX shell can parse (variable="value")

--prefix PREFIX

add a prefix to all variable names

19.24. GNOCCHI METRIC DELETE

```
usage: gnocchi metric delete [-h] [--resource-id RESOURCE_ID] metric
[metric ...]
```

Delete a metric

Positional arguments

metric

IDs or names of the metric

Optional arguments

-h, --help

show this help message and exit

--resource-id RESOURCE_ID, -r RESOURCE_ID

ID of the resource

19.25. GNOCCHI METRIC LIST

```
usage: gnocchi metric list [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}]
```

List metrics

Optional arguments

-h, --help

show this help message and exit

Output formatters

Output formatter options

-f {csv,html,json,json,table,value,yaml,yaml}, --format {csv,html,json,json,table,value,yaml,yaml}

the output format, defaults to table

-c COLUMN, --column COLUMN

specify the column(s) to include, can be repeated

table formatter:

--max-width <integer>

Maximum display width, 0 to disable

json formatter:

--noindent

whether to disable indenting the JSON

CSV formatter:

--quote {all,minimal,none,nonnumeric}

when to include quotes, defaults to nonnumeric

19.26. GNOCCHI METRIC SHOW

```
usage: gnocchi metric show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--resource-id RESOURCE_ID]
metric
```

Show a metric

Positional arguments

metric

ID or name of the metric

Optional arguments

-h, --help

show this help message and exit

--resource-id RESOURCE_ID, -r RESOURCE_ID

ID of the resource

Output formatters

Output formatter options

-f {html,json,json,shell,table,value,yaml,yaml}, --format {html,json,json,shell,table,value,yaml,yaml}

the output format, defaults to table

-c COLUMN, --column COLUMN

specify the column(s) to include, can be repeated

table formatter:

--max-width <integer>

Maximum display width, 0 to disable

json formatter:

--noindent

whether to disable indenting the JSON

shell formatter:

a format a UNIX shell can parse (variable="value")

--prefix PREFIX

add a prefix to all variable names

19.27. GNOCCHI RESOURCE CREATE

```
usage: gnocchi resource create [-h] [-f {html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width <integer>] [--noindent] [--prefix PREFIX] [--type RESOURCE_TYPE] [-a ATTRIBUTE] [-m ADD_METRIC] [-n CREATE_METRIC] [-d DELETE_METRIC]
```

resource_id

Create a resource

Positional arguments

resource_id

ID of the resource

Optional arguments

-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 a 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

Output formatters

Output formatter options

-f {html,json,json,shell,table,value,yaml,yaml}, --format {html,json,json,shell,table,value,yaml,yaml}

the output format, defaults to table

-c COLUMN, --column COLUMN

specify the column(s) to include, can be repeated

table formatter:

--max-width <integer>

Maximum display width, 0 to disable

json formatter:

--noindent

whether to disable indenting the JSON

shell formatter:

a format a UNIX shell can parse (variable="value")

--prefix PREFIX

add a prefix to all variable names

19.28. GNOCCHI RESOURCE DELETE

```
usage: gnocchi resource delete [-h] resource_id
```

Delete a resource

Positional arguments

resource_id

ID of the resource

Optional arguments

-h, --help

show this help message and exit

19.29. GNOCCHI RESOURCE HISTORY

```
usage: gnocchi resource history [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}] [--
details] [--limit <LIMIT>] [--marker <MARKER>] [--sort <SORT>] [--type
```

RESOURCE_TYPE] **resource_id**

Show the history of a resource

Positional arguments

resource_id

ID of a resource

Optional arguments

-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

Output formatters

Output formatter options

-f {csv,html,json,json,table,value,yaml,yaml}, --format {csv,html,json,json,table,value,yaml,yaml}

the output format, defaults to table

-c COLUMN, --column COLUMN

specify the column(s) to include, can be repeated

table formatter:

--max-width <integer>

Maximum display width, 0 to disable

json formatter:

--noindent

whether to disable indenting the JSON

CSV formatter:

--quote {all,minimal,none,nonnumeric}

when to include quotes, defaults to nonnumeric

19.30. GNOCCHI RESOURCE LIST

```
usage: gnocchi resource list [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}] [--
details] [--history] [--limit <LIMIT>] [--marker <MARKER>] [--sort
<SORT>] [--type RESOURCE_TYPE]
```

List resources

Optional arguments

-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)

--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

Output formatters

Output formatter options

-f {csv,html,json,json,table,value,yaml,yaml}, --format {csv,html,json,json,table,value,yaml,yaml}

the output format, defaults to table

-c COLUMN, --column COLUMN

specify the column(s) to include, can be repeated

table formatter:

--max-width <integer>

Maximum display width, 0 to disable

json formatter:

--noindent

whether to disable indenting the JSON

CSV formatter:

--quote {all,minimal,none,nonnumeric}

when to include quotes, defaults to nonnumeric

19.31. GNOCCHI RESOURCE LIST-TYPES

```
usage: gnocchi resource list-types [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}]
```

List the resource types that gnocchi supports

Optional arguments

-h, --help

show this help message and exit

Output formatters

Output formatter options

-f {csv,html,json,json,table,value,yaml,yaml}, --format {csv,html,json,json,table,value,yaml,yaml}

the output format, defaults to table

-c COLUMN, --column COLUMN

specify the column(s) to include, can be repeated

table formatter:

--max-width <integer>

Maximum display width, 0 to disable

json formatter:

--noindent

whether to disable indenting the JSON

CSV formatter:

--quote {all,minimal,none,nonnumeric}

when to include quotes, defaults to nonnumeric

19.32. GNOCCHI RESOURCE SEARCH

```
usage: gnocchi resource search [-h] [-f
```

```
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width  
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}] [--  
details] [--history] [--limit <LIMIT>] [--marker <MARKER>] [--sort  
<SORT>] [--type RESOURCE_TYPE] [--query QUERY]
```

Search resources with specified query rules

Optional arguments

-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)

--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

--query QUERY

Query

Output formatters

Output formatter options

```
-f {csv,html,json,json,table,value,yaml,yaml}, --format  
{csv,html,json,json,table,value,yaml,yaml}
```

the output format, defaults to table

-c COLUMN, --column COLUMN

specify the column(s) to include, can be repeated

table formatter:

--max-width <integer>

Maximum display width, 0 to disable

json formatter:

--noindent

whether to disable indenting the JSON

CSV formatter:

--quote {all,minimal,none,nonnumeric}

when to include quotes, defaults to nonnumeric

19.33. GNOCCHI RESOURCE SHOW

```
usage: gnocchi resource show [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--type RESOURCE_TYPE]
resource_id
```

Show a resource

Positional arguments

resource_id

ID of a resource

Optional arguments

-h, --help

show this help message and exit

--type RESOURCE_TYPE, -t RESOURCE_TYPE

Type of resource

Output formatters

Output formatter options

-f {html,json,json,shell,table,value,yaml,yaml}, --format {html,json,json,shell,table,value,yaml,yaml}

the output format, defaults to table

-c COLUMN, --column COLUMN

specify the column(s) to include, can be repeated

table formatter:

--max-width <integer>

Maximum display width, 0 to disable

json formatter:

--noindent

whether to disable indenting the JSON

shell formatter:

a format a UNIX shell can parse (variable="value")

--prefix PREFIX

add a prefix to all variable names

19.34. GNOCCHI RESOURCE UPDATE

```
usage: gnocchi resource update [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--type RESOURCE_TYPE] [-a
ATTRIBUTE] [-m ADD_METRIC] [-n CREATE_METRIC] [-d DELETE_METRIC]
resource_id
```

Update a resource

Positional arguments

resource_id

ID of the resource

Optional arguments**-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 a 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

Output formatters**Output formatter options****-f {html,json,json,shell,table,value,yaml,yaml}, --format {html,json,json,shell,table,value,yaml,yaml}**

the output format, defaults to table

-c COLUMN, --column COLUMN

specify the column(s) to include, can be repeated

table formatter:**--max-width <integer>**

Maximum display width, 0 to disable

json formatter:

--noindent

whether to disable indenting the JSON

shell formatter:

a format a UNIX shell can parse (variable="value")

--prefix PREFIX

add a prefix to all variable names

19.35. GNOCCHI STATUS

```
usage: gnocchi status [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX]
```

Show the status of measurements processing

Optional arguments

-h, --help

show this help message and exit

Output formatters

Output formatter options

-f {html,json,json,shell,table,value,yaml,yaml}, --format {html,json,json,shell,table,value,yaml,yaml}

the output format, defaults to table

-c COLUMN, --column COLUMN

specify the column(s) to include, can be repeated

table formatter:

--max-width <integer>

Maximum display width, 0 to disable

json formatter:

--noindent

whether to disable indenting the JSON

shell formatter:

a format a UNIX shell can parse (variable="value")

--prefix PREFIX

add a prefix to all variable names

CHAPTER 20. DNS SERVICE COMMAND-LINE CLIENT

The **designate** client is the command-line interface (CLI) for the DNS service API and its extensions. This chapter documents **designate** version **2.0.0**.

For help on a specific **designate** command, enter:

```
$ designate help COMMAND
```

20.1. DESIGNATE USAGE

```
usage: designate [--version] [-v | -q] [--log-file LOG_FILE] [-h] [--
debug] [--os-username OS_USERNAME] [--os-user-id OS_USER_ID] [--os-
user-domain-id OS_USER_DOMAIN_ID] [--os-user-domain-name
OS_USER_DOMAIN_NAME] [--os-password OS_PASSWORD] [--os-tenant-name
OS_TENANT_NAME] [--os-tenant-id OS_TENANT_ID] [--os-project-name
OS_PROJECT_NAME] [--os-domain-name OS_DOMAIN_NAME] [--os-domain-id
OS_DOMAIN_ID] [--os-project-id OS_PROJECT_ID] [--os-project-domain-id
OS_PROJECT_DOMAIN_ID] [--os-project-domain-name OS_PROJECT_DOMAIN_NAME]
[--os-auth-url OS_AUTH_URL] [--os-region-name OS_REGION_NAME] [--os-
token OS_TOKEN] [--os-endpoint OS_ENDPOINT] [--os-endpoint-type
OS_ENDPOINT_TYPE] [--os-service-type OS_SERVICE_TYPE] [--os-cacert
OS_CACERT] [--insecure] [--all-tenants] [--edit-managed]
```

20.2. DESIGNATE OPTIONAL ARGUMENTS

--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 this help message and exit.

--debug

Show tracebacks on errors.

--os-username OS_USERNAME

Name used for authentication with the OpenStack Identity service. Defaults to **env[OS_USERNAME]**.

--os-user-id OS_USER_ID

User ID used for authentication with the OpenStack Identity service. Defaults to **env[OS_USER_ID]**.

--os-user-domain-id OS_USER_DOMAIN_ID

Defaults to **env[OS_USER_DOMAIN_ID]**.

--os-user-domain-name OS_USER_DOMAIN_NAME

Defaults to **env[OS_USER_DOMAIN_NAME]**.

--os-password OS_PASSWORD

Password used for authentication with the OpenStack Identity service. Defaults to **env[OS_PASSWORD]**.

--os-tenant-name OS_TENANT_NAME

Tenant to request authorization on. Defaults to **env[OS_TENANT_NAME]**.

--os-tenant-id OS_TENANT_ID

Tenant to request authorization on. Defaults to **env[OS_TENANT_ID]**.

--os-project-name OS_PROJECT_NAME

Project to request authorization on. Defaults to **env[OS_PROJECT_NAME]**.

--os-domain-name OS_DOMAIN_NAME

Project to request authorization on. Defaults to **env[OS_DOMAIN_NAME]**.

--os-domain-id OS_DOMAIN_ID

Defaults to **env[OS_DOMAIN_ID]**.

--os-project-id OS_PROJECT_ID

Project to request authorization on. Defaults to **env[OS_PROJECT_ID]**.

--os-project-domain-id OS_PROJECT_DOMAIN_ID

Defaults to **env[OS_PROJECT_DOMAIN_ID]**.

--os-project-domain-name OS_PROJECT_DOMAIN_NAME

Defaults to **env[OS_PROJECT_DOMAIN_NAME]**.

--os-auth-url OS_AUTH_URL

Specify the Identity endpoint to use for authentication. Defaults to **env[OS_AUTH_URL]**.

--os-region-name OS_REGION_NAME

Specify the region to use. Defaults to **env[OS_REGION_NAME]**.

--os-token OS_TOKEN

Specify an existing token to use instead of retrieving one via authentication (e.g. with username & password). Defaults to **env[OS_SERVICE_TOKEN]**.

--os-endpoint OS_ENDPOINT

Specify an endpoint to use instead of retrieving one from the service catalog (via authentication). Defaults to **env[OS_DNS_ENDPOINT]**.

--os-endpoint-type OS_ENDPOINT_TYPE

Defaults to **env[OS_ENDPOINT_TYPE]**.

--os-service-type OS_SERVICE_TYPE

Defaults to **env[OS_DNS_SERVICE_TYPE]**, or 'dns'.

--os-cacert OS_CACERT

CA certificate bundle file. Defaults to **env[OS_CACERT]**.

--insecure

Explicitly allow 'insecure' SSL requests.

--all-tenants

Allows to list all domains from all tenants.

--edit-managed

Allows to edit records that are marked as managed.

20.3. DESIGNATE DIAGNOSTICS-PING

```
usage: designate diagnostics-ping [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] --service SERVICE --host HOST
```

Ping a service on a given host

Optional arguments

-h, --help

show this help message and exit

--service SERVICE

Service name (e.g. central)

--host HOST

Hostname

20.4. DESIGNATE DOMAIN-CREATE

```
usage: designate domain-create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] --name NAME --email EMAIL [--
ttl TTL] [--description DESCRIPTION]
```

Create Domain

Optional arguments

-h, --help

show this help message and exit

--name NAME

Domain name.

--email EMAIL

Domain email.

--ttl TTL

Time to live (seconds).

--description DESCRIPTION

Description.

20.5. DESIGNATE DOMAIN-DELETE

```
usage: designate domain-delete [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] id
```

Delete Domain

Positional arguments

id

Domain ID or name.

Optional arguments

-h, --help

show this help message and exit

20.6. DESIGNATE DOMAIN-GET

```
usage: designate domain-get [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] id
```

Get Domain

Positional arguments

id

Domain ID or name.

Optional arguments

-h, --help

show this help message and exit

20.7. DESIGNATE DOMAIN-LIST

```
usage: designate domain-list [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}]
```

List Domains

Optional arguments

-h, --help

show this help message and exit

20.8. DESIGNATE DOMAIN-SERVERS-LIST

```
usage: designate domain-servers-list [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}] id
```

List Domain Servers

Positional arguments

id

Domain ID or name.

Optional arguments

-h, --help

show this help message and exit

20.9. DESIGNATE DOMAIN-UPDATE

```
usage: designate domain-update [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--name NAME] [--email EMAIL]
[--ttl TTL] [--description DESCRIPTION | --no-description] id
```

Update Domain

Positional arguments

id

Domain ID or name.

Optional arguments

-h, --help

show this help message and exit

--name NAME

Domain name.

--email EMAIL

Domain email.

--ttl TTL

Time to live (seconds).

--description DESCRIPTION

Description.

--no-description

20.10. DESIGNATE QUOTA-GET

```
usage: designate quota-get [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] tenant_id
```

Get Quota

Positional arguments

tenant_id

Tenant ID

Optional arguments

-h, --help

show this help message and exit

20.11. DESIGNATE QUOTA-RESET

```
usage: designate quota-reset [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] tenant_id
```

Reset Quota

Positional arguments

tenant_id

Tenant ID.

Optional arguments

-h, --help

show this help message and exit

20.12. DESIGNATE QUOTA-UPDATE

```
usage: designate quota-update [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--domains DOMAINS] [--
domain-recordsets DOMAIN_RECORDSETS] [--recordset-records
RECORDSET_RECORDS] [--domain-records DOMAIN_RECORDS] [--api-export-size
API_EXPORT_SIZE] tenant_id
```

Update Quota

Positional arguments

tenant_id

Tenant ID.

Optional arguments

-h, --help

show this help message and exit

--domains DOMAINS

Allowed domains.

--domain-recordsets DOMAIN_RECORDSETS

Allowed domain records.

--recordset-records RECORDSET_RECORDS

Allowed recordset records.

--domain-records DOMAIN_RECORDS

Allowed domain records.

--api-export-size API_EXPORT_SIZE

Allowed zone export recordsets.

20.13. DESIGNATE RECORD-CREATE

```
usage: designate record-create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] --name NAME --type TYPE --
data DATA [--ttl TTL] [--priority PRIORITY] [--description DESCRIPTION]
domain_id
```

Create Record

Positional arguments

domain_id

Domain ID or name.

Optional arguments

-h, --help

show this help message and exit

--name NAME

Record (relative|absolute) name.

--type TYPE

Record type.

--data DATA

Record data.

--ttl TTL

Record TTL.

--priority PRIORITY

Record priority.

--description DESCRIPTION

Description.

20.14. DESIGNATE RECORD-DELETE

```
usage: designate record-delete [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] domain_id id
```

Delete Record

Positional arguments

domain_id

Domain ID or name.

id

Record ID.

Optional arguments

-h, --help

show this help message and exit

20.15. DESIGNATE RECORD-GET

-

```
usage: designate record-get [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] domain_id id
```

Get Record

Positional arguments

domain_id

Domain ID or name.

id

Record ID.

Optional arguments

-h, --help

show this help message and exit

20.16. DESIGNATE RECORD-LIST

```
usage: designate record-list [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}]
domain_id
```

List Records

Positional arguments

domain_id

Domain ID or name.

Optional arguments

-h, --help

show this help message and exit

20.17. DESIGNATE RECORD-UPDATE

```
usage: designate record-update [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--name NAME] [--type TYPE]
[--data DATA] [--description DESCRIPTION | --no-description] [--ttl TTL
| --no-ttl] [--priority PRIORITY | --no-priority] domain_id id
```

Update Record

Positional arguments

domain_id

Domain ID or name.

id

Record ID.

Optional arguments

-h, --help

show this help message and exit

--name NAME

Record name.

--type TYPE

Record type.

--data DATA

Record data.

--description DESCRIPTION

Description.

--no-description

--ttl TTL

Record time to live (seconds).

--no-ttl

--priority PRIORITY

Record priority.

--no-priority

20.18. DESIGNATE REPORT-COUNT-ALL

```
usage: designate report-count-all [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX]
```

Get count totals for all tenants, domains and records

Optional arguments

-h, --help

show this help message and exit

20.19. DESIGNATE REPORT-COUNT-DOMAINS

```
usage: designate report-count-domains [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX]
```

Get counts for total domains

Optional arguments

-h, --help

show this help message and exit

20.20. DESIGNATE REPORT-COUNT-RECORDS

```
usage: designate report-count-records [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX]
```

Get counts for total records

Optional arguments

-h, --help

show this help message and exit

20.21. DESIGNATE REPORT-COUNT-TENANTS

```
usage: designate report-count-tenants [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX]
```

Get counts for total tenants

Optional arguments

-h, --help

show this help message and exit

20.22. DESIGNATE REPORT-TENANT-DOMAINS

```
usage: designate report-tenant-domains [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}] --
report-tenant-id REPORT_TENANT_ID
```

Get a list of domains for given tenant

Optional arguments

-h, --help

show this help message and exit

--report-tenant-id REPORT_TENANT_ID

The tenant_id being reported on.

20.23. DESIGNATE REPORT-TENANTS-ALL

```
usage: designate report-tenants-all [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}]
```

Get list of tenants and domain count for each

Optional arguments

-h, --help

show this help message and exit

20.24. DESIGNATE SERVER-CREATE

```
usage: designate server-create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] --name NAME
```

Create Server

Optional arguments

-h, --help

show this help message and exit

--name NAME

Server name.

20.25. DESIGNATE SERVER-DELETE

```
usage: designate server-delete [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] id
```

Delete Server

Positional arguments

id

Server ID.

Optional arguments

-h, --help

show this help message and exit

20.26. DESIGNATE SERVER-GET

```
usage: designate server-get [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] id
```

Get Server

Positional arguments

id

Server ID.

Optional arguments

-h, --help

show this help message and exit

20.27. DESIGNATE SERVER-LIST

```
usage: designate server-list [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}]
```

List Servers

Optional arguments

-h, --help

show this help message and exit

20.28. DESIGNATE SERVER-UPDATE

```
usage: designate server-update [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--name NAME] id
```

Update Server

Positional arguments

id

Server ID.

Optional arguments**-h, --help**

show this help message and exit

--name NAME

Server name.

20.29. DESIGNATE SYNC-ALL

```
usage: designate sync-all [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX]
```

Sync Everything

Optional arguments**-h, --help**

show this help message and exit

20.30. DESIGNATE SYNC-DOMAIN

```
usage: designate sync-domain [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] domain_id
```

Sync a single Domain

Positional arguments**domain_id**

Domain ID

Optional arguments**-h, --help**

show this help message and exit

20.31. DESIGNATE SYNC-RECORD

```
usage: designate sync-record [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] domain_id record_id
```

Sync a single Record

Positional arguments

domain_id

Domain ID

record_id

Record ID

Optional arguments

-h, --help

show this help message and exit

20.32. DESIGNATE TOUCH-DOMAIN

```
usage: designate touch-domain [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] domain_id
```

Touch a single Domain

Positional arguments

domain_id

Domain ID

Optional arguments

-h, --help

show this help message and exit

CHAPTER 21. KEY MANAGER SERVICE COMMAND-LINE CLIENT

The **barbican** client is the command-line interface (CLI) for the Key Manager service API and its extensions. This chapter documents **barbican** version **4.0.0**.

For help on a specific **barbican** command, enter:

```
$ barbican help COMMAND
```

21.1. BARBICAN USAGE

```
usage: barbican [--version] [-v | -q] [--log-file LOG_FILE] [-h] [--
debug] [--no-auth] [--os-identity-api-version <identity-api-version>]
[--os-auth-url <auth-url>] [--os-username <auth-user-name>] [--os-user-
id <auth-user-id>] [--os-password <auth-password>] [--os-user-domain-id
<auth-user-domain-id>] [--os-user-domain-name <auth-user-domain-name>]
[--os-tenant-name <auth-tenant-name>] [--os-tenant-id <tenant-id>] [--
os-project-id <auth-project-id>] [--os-project-name <auth-project-
name>] [--os-project-domain-id <auth-project-domain-id>] [--os-project-
domain-name <auth-project-domain-name>] [--os-auth-token <auth-token>]
[--endpoint <barbican-url>] [--interface <barbican-interface>] [--
service-type <barbican-service-type>] [--service-name <barbican-
service-name>] [--region-name <barbican-region-name>] [--barbican-api-
version <barbican-api-version>] [--insecure] [--os-cacert <ca-
certificate>] [--os-cert <certificate>] [--os-key <key>] [--timeout
<seconds>]
```

21.2. BARBICAN OPTIONAL ARGUMENTS

--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.

--no-auth, -N

Do not use authentication.

--os-identity-api-version <identity-api-version>

Specify Identity API version to use. Defaults to `env[OS_IDENTITY_API_VERSION]` or 3.

--os-auth-url <auth-url>, -A <auth-url>

Defaults to `env[OS_AUTH_URL]`.

--os-username <auth-user-name>, -U <auth-user-name>

Defaults to `env[OS_USERNAME]`.

--os-user-id <auth-user-id>

Defaults to `env[OS_USER_ID]`.

--os-password <auth-password>, -P <auth-password>

Defaults to `env[OS_PASSWORD]`.

--os-user-domain-id <auth-user-domain-id>

Defaults to `env[OS_USER_DOMAIN_ID]`.

--os-user-domain-name <auth-user-domain-name>

Defaults to `env[OS_USER_DOMAIN_NAME]`.

--os-tenant-name <auth-tenant-name>, -T <auth-tenant-name>

Defaults to `env[OS_TENANT_NAME]`.

--os-tenant-id <tenant-id>, -I <tenant-id>

Defaults to `env[OS_TENANT_ID]`.

--os-project-id <auth-project-id>

Another way to specify tenant ID. This option is mutually exclusive with `--os-tenant-id`. Defaults to `env[OS_PROJECT_ID]`.

`--os-project-name <auth-project-name>`

Another way to specify tenant name. This option is mutually exclusive with `--os-tenant-name`. Defaults to `env[OS_PROJECT_NAME]`.

`--os-project-domain-id <auth-project-domain-id>`

Defaults to `env[OS_PROJECT_DOMAIN_ID]`.

`--os-project-domain-name <auth-project-domain-name>`

Defaults to `env[OS_PROJECT_DOMAIN_NAME]`.

`--os-auth-token <auth-token>`

Defaults to `env[OS_AUTH_TOKEN]`.

`--endpoint <barbican-url>, -E <barbican-url>`

Defaults to `env[BARBICAN_ENDPOINT]`.

`--interface <barbican-interface>`

Defaults to `env[BARBICAN_INTERFACE]`.

`--service-type <barbican-service-type>`

Defaults to `env[BARBICAN_SERVICE_TYPE]`.

`--service-name <barbican-service-name>`

Defaults to `env[BARBICAN_SERVICE_NAME]`.

`--region-name <barbican-region-name>`

Defaults to `env[BARBICAN_REGION_NAME]`.

`--barbican-api-version <barbican-api-version>`

Defaults to `env[BARBICAN_API_VERSION]`.

`--insecure`

Explicitly allow client to perform "insecure" TLS (https) requests. The server's certificate will not be verified against any certificate authorities. This option should be used with caution.

--os-cacert <ca-certificate>

Specify a CA bundle file to use in verifying a TLS (https) server certificate. Defaults to **env[OS_CACERT]**.

--os-cert <certificate>

Defaults to **env[OS_CERT]**.

--os-key <key>

Defaults to **env[OS_KEY]**.

--timeout <seconds>

Set request timeout (in seconds).

21.3. BARBICAN ACL DELETE

```
usage: barbican acl delete [-h] URI
```

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

Positional arguments

URI

The URI reference for the secret or container.

Optional arguments

-h, --help

show this help message and exit

21.4. BARBICAN ACL GET

```
usage: barbican acl get [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}] URI
```

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

Positional arguments

URI

The URI reference for the secret or container.

Optional arguments

-h, --help

show this help message and exit

21.5. BARBICAN ACL SUBMIT

```
usage: barbican acl submit [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}] [--user
[USERS]] [--project-access | --no-project-access] [--operation-type
{read}] URI
```

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

Positional arguments

URI

The URI reference for the secret or container.

Optional arguments

-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

21.6. BARBICAN ACL USER ADD

```
usage: barbican acl user add [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}] [--user
[USERS]] [--project-access | --no-project-access] [--operation-type
{read}] URI
```

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

Positional arguments

URI

The URI reference for the secret or container.

Optional arguments

-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

21.7. BARBICAN ACL USER REMOVE

```
usage: barbican acl user remove [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}] [--user
[USERS]] [--project-access | --no-project-access] [--operation-type
{read}] URI
```


-

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

Positional arguments

URI

The URI reference for the secret or container.

Optional arguments

-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

21.8. BARBICAN CA GET

```
usage: barbican ca get [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] URI
```

Retrieve a CA by providing its URI.

Positional arguments

URI

The URI reference for the CA.

Optional arguments

-h, --help

show this help message and exit

21.9. BARBICAN CA LIST

```
usage: barbican ca list [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}] [--
limit LIMIT] [--offset OFFSET] [--name NAME]
```

List cas.

Optional arguments

-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)

21.10. BARBICAN SECRET CONTAINER CREATE

```
usage: barbican secret container create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--name NAME] [--type TYPE]
[--secret SECRET]
```

Store a container in Barbican.

Optional arguments

-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"`

21.11. BARBICAN SECRET CONTAINER DELETE

```
usage: barbican secret container delete [-h] URI
```

Delete a container by providing its href.

Positional arguments

URI

The URI reference for the container

Optional arguments

-h, --help

show this help message and exit

21.12. BARBICAN SECRET CONTAINER GET

```
usage: barbican secret container get [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] URI
```

Retrieve a container by providing its URI.

Positional arguments

URI

The URI reference for the container.

Optional arguments

-h, --help

show this help message and exit

21.13. BARBICAN SECRET CONTAINER LIST

```
usage: barbican secret container list [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}] [--
limit LIMIT] [--offset OFFSET] [--name NAME] [--type TYPE]
```

List containers.

Optional arguments

-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).

21.14. BARBICAN SECRET DELETE

```
usage: barbican secret delete [-h] URI
```

Delete a secret by providing its URI.

Positional arguments

URI

The URI reference for the secret

Optional arguments

-h, --help

show this help message and exit

21.15. BARBICAN SECRET GET

```
usage: barbican secret get [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--decrypt] [--payload] [--
payload_content_type PAYLOAD_CONTENT_TYPE] URI
```

Retrieve a secret by providing its URI.

Positional arguments

URI

The URI reference for the secret.

Optional arguments

-h, --help

show this help message and exit

--decrypt, -d

if specified, retrieve the unencrypted secret data; the data type can be specified with --payload-content- type.

--payload, -p

if specified, retrieve the unencrypted secret data; the data type can be specified with --payload-content- type. If the user wishes to only retrieve the value of the payload they must add "-f value" to format returning only the value of the payload

--payload_content_type PAYLOAD_CONTENT_TYPE, -t PAYLOAD_CONTENT_TYPE

the content type of the decrypted secret (default: text/plain.

21.16. BARBICAN SECRET LIST

```
usage: barbican secret list [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}] [--
limit LIMIT] [--offset OFFSET] [--name NAME] [--algorithm ALGORITHM] [-
-bit-length BIT_LENGTH] [--mode MODE]
```

List secrets.

Optional arguments

-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).

21.17. BARBICAN SECRET ORDER CREATE

```
usage: barbican secret order create [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--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
```

■

Create a new order.

Positional arguments

type

the type of the order to create.

Optional arguments

-h, --help

show this help message and exit

--name NAME, -n NAME

a human-friendly name.

--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.

21.18. BARBICAN SECRET ORDER DELETE

```
usage: barbican secret order delete [-h] URI
```

Delete an order by providing its href.

Positional arguments

URI

The URI reference for the order

Optional arguments

-h, --help

show this help message and exit

21.19. BARBICAN SECRET ORDER GET

```
usage: barbican secret order get [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] URI
```

Retrieve an order by providing its URI.

Positional arguments

URI

The URI reference order.

Optional arguments

-h, --help

show this help message and exit

21.20. BARBICAN SECRET ORDER LIST

```
usage: barbican secret order list [-h] [-f
{csv,html,json,json,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--quote {all,minimal,none,nonnumeric}] [--
limit LIMIT] [--offset OFFSET]
```

List orders.

Optional arguments

-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)

21.21. BARBICAN SECRET STORE

```
usage: barbican secret store [-h] [-f
{html,json,json,shell,table,value,yaml,yaml}] [-c COLUMN] [--max-width
<integer>] [--noindent] [--prefix PREFIX] [--name NAME] [--payload
PAYLOAD] [--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]
```

Store a secret in Barbican.

Optional arguments

-h, --help

show this help message and exit

--name NAME, -n NAME

a human-friendly name.

--payload PAYLOAD, -p PAYLOAD

the unencrypted secret; if provided, you must also provide a `payload_content_type`

--secret-type SECRET_TYPE, -s SECRET_TYPE

the secret type; must be one of symmetric, public, private, certificate, passphrase, opaque (default)

--payload-content-type PAYLOAD_CONTENT_TYPE, -t PAYLOAD_CONTENT_TYPE

the type/format of the provided secret data; "text/plain" is assumed to be UTF-8; required when `--payload` is supplied.

--payload-content-encoding PAYLOAD_CONTENT_ENCODING, -e PAYLOAD_CONTENT_ENCODING

required if `--payload-content-type` is "application /octet-stream".

--algorithm ALGORITHM, -a ALGORITHM

the algorithm (default: aes).

--bit-length BIT_LENGTH, -b BIT_LENGTH

the bit length (default: 256).

--mode MODE, -m MODE

the algorithm mode; used only for reference (default: cbc)

--expiration EXPIRATION, -x EXPIRATION

the expiration time for the secret in ISO 8601 format.

21.22. BARBICAN SECRET UPDATE

usage: `barbican secret update [-h] URI payload`

Update a secret with no payload in Barbican.

Positional arguments**URI**

The URI reference for the secret.

payload

the unencrypted secret

Optional arguments**-h, --help**

show this help message and exit

CHAPTER 22. BENCHMARKING COMMAND-LINE CLIENT

The **rally** client is a command-line interface (CLI) tool that automates and unifies multi-node OpenStack deployment, cloud verification, benchmarking, and profiling. This chapter documents **rally** version **0.3.3**.

For help on a specific **rally** command, enter:

```
$ rally-manage COMMAND --help
```

Or:

```
$ rally COMMAND --help
```

22.1. RALLY USAGE

```
usage: rally [-h] [--config-dir DIR] [--config-file PATH] [--debug] [-
-log-config-append PATH] [--log-date-format DATE_FORMAT] [--log-dir
LOG_DIR] [--log-file PATH] [--nodebug] [--norally-debug] [--nouse-
syslog] [--noverbose] [--nowatch-log-file] [--plugin-paths
PLUGIN_PATHS] [--rally-debug] [--syslog-log-facility
SYSLOG_LOG_FACILITY] [--use-syslog] [--verbose] [--version] [--watch-
log-file] {version,bash-completion,show,task,plugin,verify,deployment}
...
```

22.2. RALLY OPTIONAL ARGUMENTS

-h, --help

show this help message and exit

--config-dir DIR

Path to a config directory to pull *.conf files from. This file set is sorted, so as to provide a predictable parse order if individual options are over-ridden. The set is parsed after the file(s) specified via previous --config-file, arguments hence over-ridden options in the directory take precedence.

--config-file PATH

Path to a config file to use. Multiple config files can be specified, with values in later files taking precedence. Defaults to None.

--debug, -d

If set to true, the logging level will be set to DEBUG instead of the default INFO level.

--log-config-append PATH, --log_config PATH

The name of a logging configuration file. This file is appended to any existing logging configuration files. For details about logging configuration files, see the Python logging module documentation. Note that when logging configuration files are used then all logging configuration is set in the configuration file and other logging configuration options are ignored (for example, `logging_context_format_string`).

--log-date-format DATE_FORMAT

Defines the format string for `%(asctime)s` in log records. Default: `None`. This option is ignored if `log_config_append` is set.

--log-dir LOG_DIR, --logdir LOG_DIR

(Optional) The base directory used for relative `log_file` paths. This option is ignored if `log_config_append` is set.

--log-file PATH, --logfile PATH

(Optional) Name of log file to send logging output to. If no default is set, logging will go to `stderr` as defined by `use_stderr`. This option is ignored if `log_config_append` is set.

--nodebug

The inverse of `--debug`

--norally-debug

The inverse of `--rally-debug`

--nouse-syslog

The inverse of `--use-syslog`

--noverbose

The inverse of `--verbose`

--nowatch-log-file

The inverse of `--watch-log-file`

--plugin-paths PLUGIN_PATHS

Additional custom plugin locations. Multiple files or directories may be specified. All plugins in the specified directories and subdirectories will be imported. Plugins in `/opt/rally/plugins` and `~/.rally/plugins` will always be imported.

--rally-debug

Print debugging output only for Rally. Off-site components stay quiet.

--syslog-log-facility SYSLOG_LOG_FACILITY

Syslog facility to receive log lines. This option is ignored if `log_config_append` is set.

--use-syslog

Use syslog for logging. Existing syslog format is DEPRECATED and will be changed later to honor RFC5424. This option is ignored if `log_config_append` is set.

--verbose, -v

If set to false, the logging level will be set to WARNING instead of the default INFO level.

--version

show program's version number and exit

--watch-log-file

Uses logging handler designed to watch file system. When log file is moved or removed this handler will open a new log file with specified path instantaneously. It makes sense only if `log_file` option is specified and Linux platform is used. This option is ignored if `log_config_append` is set.

22.3. CATEGORY: DB

Commands for DB management.

22.3.1. rally-manage db create

Create Rally database.

22.3.2. rally-manage db downgrade

Downgrade Rally database.

Command arguments:

--revision <revision>

Downgrade to specified revision UUID. Current revision of DB could be found by calling **rally-manage db revision**.

22.3.3. rally-manage db recreate

Drop and create Rally database.

This will delete all existing data.

22.3.4. rally-manage db revision

Print current Rally database revision UUID.

22.3.5. rally-manage db upgrade

Upgrade Rally database to the latest state.

22.4. CATEGORY: DEPLOYMENT

Set of commands that allow you to manage deployments.

22.4.1. rally deployment check

Check keystone authentication and list all available services.

Command arguments:

`--deployment <uuid>`



Note

The default value for the `--deployment` argument is taken from the Rally environment. Usually, the default value is equal to the UUID of the last successful run of **rally deployment create**, if the `--no-use` argument was not used.

Tip

You can set the default value by executing **rally deployment use <uuid>**.

UUID or name of the deployment.

Type: str

22.4.2. rally deployment config

Display configuration of the deployment.

Output is the configuration of the deployment in a pretty-printed JSON format.

Command arguments:

`--deployment <uuid>`



Note

The default value for the `--deployment` argument is taken from the Rally environment. Usually, the default value is equal to the UUID of the last successful run of **rally deployment create**, if the `--no-use` argument was not used.

Tip

You can set the default value by executing **rally deployment use <uuid>**.

UUID or name of the deployment.

Type: str

22.4.3. rally deployment create

Create new deployment.

This command will create a new deployment record in rally database. In the case of ExistingCloud deployment engine it will use the cloud represented in the configuration. If the cloud doesn't exist, Rally can deploy a new one for you with Devstack or Fuel. Different deployment engines exist for these cases.

If you use the ExistingCloud deployment engine you can pass a deployment config by environment variables with `--fromenv`:

```
OS_USERNAME OS_PASSWORD OS_AUTH_URL OS_TENANT_NAME
OS_ENDPOINT_TYPE or OS_INTERFACE OS_ENDPOINT OS_REGION_NAME
OS_CACERT OS_INSECURE
```

All other deployment engines need more complex configuration data, so it should be stored in a configuration file.

You can use physical servers, LXC containers, KVM virtual machines or virtual machines in OpenStack for deploying the cloud. Except physical servers, Rally can create cluster nodes for you. Interaction with virtualization software, OpenStack cloud or physical servers is provided by server providers.

Command arguments:

`--name <name>`

Name of the deployment.

Type: str

`--fromenv`

Read environment variables instead of config file.

`--filename <path>`

Path to the configuration file of the deployment.

Type: str

Default: None

`--no-use`

Don't set new deployment as default for future operations.

22.4.4. rally deployment destroy

Destroy existing deployment.

This will delete all containers, virtual machines, OpenStack instances or Fuel clusters created during Rally deployment creation. Also it will remove the deployment record from the Rally database.

Command arguments:

`--deployment <uuid>`



Note

The default value for the `--deployment` argument is taken from the Rally environment. Usually, the default value is equal to the UUID of the last successful run of **rally deployment create**, if the `--no-use` argument was not used.

Tip

You can set the default value by executing **rally deployment use <uuid>**.

UUID or name of the deployment.

Type: str

22.4.5. rally deployment list

List existing deployments.

22.4.6. rally deployment recreate

Destroy and create an existing deployment.

Unlike 'deployment destroy', the deployment database record will not be deleted, so the deployment UUID stays the same.

Command arguments:

--deployment <uuid>



Note

The default value for the **--deployment** argument is taken from the Rally environment. Usually, the default value is equal to the UUID of the last successful run of **rally deployment create**, if the **--no-use** argument was not used.

Tip

You can set the default value by executing **rally deployment use <uuid>**.

UUID or name of the deployment.

Type: str

22.4.7. rally deployment show

Show the credentials of the deployment.

Command arguments:

--deployment <uuid>

**Note**

The default value for the **--deployment** argument is taken from the Rally environment. Usually, the default value is equal to the UUID of the last successful run of **rally deployment create**, if the **--no-use** argument was not used.

Tip

You can set the default value by executing **rally deployment use <uuid>**.

UUID or name of the deployment.

Type: str

22.4.8. rally deployment use

Set active deployment.

Command arguments:

--deployment <uuid>

UUID or name of a deployment.

Type: str

22.5. CATEGORY: PLUGIN

Set of commands that allow you to manage Rally plugins.

22.5.1. rally plugin list

List all Rally plugins that match name and namespace.

Command arguments:

--name <name>

List only plugins that match the given name.

Type: str

Default: None

`--namespace <namespace>`

List only plugins that are in the specified namespace.

Type: str

Default: None

22.5.2. rally plugin show

Show detailed information about a Rally plugin.

Command arguments:

`--name <name>`

Plugin name.

Type: str

`--namespace <namespace>`

Plugin namespace.

Type: str

Default: None

22.6. CATEGORY: SHOW

Warning

Deprecated since 0.2.0

Show resources.

Set of commands that allow you to view resources, provided by OpenStack cloud represented by deployment.

22.6.1. rally show flavors

Display available flavors.

Command arguments:

`--deployment <uuid>`



Note

The default value for the `--deployment` argument is taken from the Rally environment. Usually, the default value is equal to the UUID of the last successful run of **rally deployment create**, if the `--no-use` argument was not used.

Tip

You can set the default value by executing **rally deployment use <uuid>**.

UUID or name of a deployment.

Type: str

22.6.2. rally show images

Display available images.

Command arguments:

`--deployment <uuid>`



Note

The default value for the `--deployment` argument is taken from the Rally environment. Usually, the default value is equal to the UUID of the last successful run of **rally deployment create**, if the `--no-use` argument was not used.

Tip

You can set the default value by executing **rally deployment use <uuid>**.

UUID or name of a deployment.

Type: str

22.6.3. rally show keypairs

Display available ssh keypairs.

Command arguments:

`--deployment <uuid>`

**Note**

The default value for the `--deployment` argument is taken from the Rally environment. Usually, the default value is equal to the UUID of the last successful run of **rally deployment create**, if the `--no-use` argument was not used.

Tip

You can set the default value by executing **rally deployment use <uuid>**.

UUID or name of a deployment.

Type: str

22.6.4. rally show networks

Display configured networks.

Command arguments:

`--deployment <uuid>`

**Note**

The default value for the `--deployment` argument is taken from the Rally environment. Usually, the default value is equal to the UUID of the last successful run of **rally deployment create**, if the `--no-use` argument was not used.

Tip

You can set the default value by executing **rally deployment use <uuid>**.

UUID or name of a deployment.

Type: str

22.6.5. rally show secgroups

Display security groups.

Command arguments:

--deployment <uuid>



Note

The default value for the **--deployment** argument is taken from the Rally environment. Usually, the default value is equal to the UUID of the last successful run of **rally deployment create**, if the **--no-use** argument was not used.

Tip

You can set the default value by executing **rally deployment use <uuid>**.

UUID or name of a deployment.

Type: str

22.7. CATEGORY: TASK

Set of commands that allow you to manage benchmarking tasks and results.

22.7.1. rally task abort

Abort a running benchmarking task.

Command arguments:

--uuid <uuid>

UUID of task.

Type: str

--soft

Abort task after current scenario finishes execution.

22.7.2. rally task delete

Delete task and its results.

Command arguments:

--force

force delete

--uuid <task-id>

UUID of task or a list of task UUIDs.

Type: str

22.7.3. rally task detailed

Print detailed information about given task.

Command arguments:

--uuid <uuid>

UUID of task. If --uuid is "last" the results of the most recently created task will be displayed.

Type: str

--iterations-data

Print detailed results for each iteration.

22.7.4. rally task export

Export task results to the custom task's exporting system.

Command arguments:

--uuid <uuid>

UUID of a the task.

Type: str

--connection <connection>

Connection url to the task export system.

Type: str

22.7.5. rally task list

List tasks, started and finished.

Displayed tasks can be filtered by status or deployment. By default 'rally task list' will display tasks from the active deployment without filtering by status.

Command arguments:

--deployment <uuid>



Note

The default value for the **--deployment** argument is taken from the Rally environment. Usually, the default value is equal to the UUID of the last successful run of **rally deployment create**, if the **--no-use** argument was not used.

Tip

You can set the default value by executing **rally deployment use <uuid>**.

UUID or name of a deployment.

Type: str

--all-deployments

List tasks from all deployments.

--status <status>

List tasks with specified status. Available statuses: aborted, aborting, cleaning up, failed, finished, init, paused, running, setting up, soft_aborting, verifying

Type: str

Default: None

--uuids-only

List task UUIDs only.

22.7.6. rally task report

Generate report file for specified task.

Command arguments:

--tasks <tasks>

UUIDs of tasks, or JSON files with task results

Default: None

--out <path>

Path to output file.

Type: str

Default: None

--open

Open the output in a browser.

--html

Generate the report in HTML.

--html-static

Generate the report in HTML with embedded JS and CSS, so it will not depend on Internet availability.

--junit

Generate the report in the JUnit format.

22.7.7. rally task results

Display raw task results.

This will produce a lot of output data about every iteration.

Command arguments:

--uuid <uuid>

UUID of task.

Type: str

22.7.8. rally task sla_check

Display SLA check results table.

Command arguments:

--uuid <uuid>

UUID of task.

Type: str

--json

Output in JSON format.

22.7.9. rally task start

Start benchmark task.

If both `task_args` and `task_args_file` are specified, they will be merged. `task_args` has a higher priority so it will override values from `task_args_file`.

Command arguments:

--deployment <uuid>



Note

The default value for the **--deployment** argument is taken from the Rally environment. Usually, the default value is equal to the UUID of the last successful run of **rally deployment create**, if the **--no-use** argument was not used.

Tip

You can set the default value by executing **rally deployment use <uuid>**.

UUID or name of a deployment.

Type: str

--task <path>, --filename <path>

**Note**

The default value for the **--task** argument is taken from the Rally environment. Usually, the default value is equal to the UUID of the last successful run of **rally task start**, if the **--no-use** argument was not used.

Tip

You can set the default value by executing **rally task use <uuid>**.

Path to the input task file

--task-args <json>

Input task args (JSON dict). These args are used to render the Jinja2 template in the input task.

Default: None

--task-args-file <path>

Path to the file with input task args (dict in JSON/YAML). These args are used to render the Jinja2 template in the input task.

Default: None

--tag <tag>

Tag for this task

Default: None

--no-use

Don't set new task as default for future operations.

--abort-on-sla-failure

Abort the execution of a benchmark scenario when any SLA check for it fails.

22.7.10. rally task status

Display the current status of a task.

Command arguments:

--uuid <uuid>

UUID of task

Type: str

22.7.11. rally task trends

Generate workloads trends HTML report.

Command arguments:

--out <path>

Path to output file.

Type: str

--open

Open the output in a browser.

--tasks <tasks>

UUIDs of tasks, or JSON files with task results

22.7.12. rally task use

Set active task.

Command arguments:

--uuid <uuid>

UUID of the task

Type: str

--task

[Deprecated since Rally 0.2.0] Use '--uuid' instead.

Type: str

22.7.13. rally task validate

Validate a task configuration file.

This will check that task configuration file has valid syntax and all required options of scenarios, contexts, SLA and runners are set.

If both `task_args` and `task_args_file` are specified, they will be merged. `task_args` has a higher priority so it will override values from `task_args_file`.

Command arguments:

--deployment <uuid>

Note

The default value for the **--deployment** argument is taken from the Rally environment. Usually, the default value is equal to the UUID of the last successful run of **rally deployment create**, if the **--no-use** argument was not used.

Hint

You can set the default value by executing **rally deployment use <uuid>**.

UUID or name of a deployment.

Type: str

--task <path>, --filename <path>

Note

The default value for the **--task** argument is taken from the Rally environment. Usually, the default value is equal to the UUID of the last successful run of **rally task start**, if the **--no-use** argument was not used.

Hint

You can set the default value by executing **rally task use <uuid>**.

Path to the input task file.

--task-args <json>

Input task args (JSON dict). These args are used to render the Jinja2 template in the input task.

Default: None

--task-args-file <path>

Path to the file with input task args (dict in JSON/YAML). These args are used to render the Jinja2 template in the input task.

Default: None

22.8. CATEGORY: VERIFY

Verify an OpenStack cloud via Tempest.

Set of commands that allow you to run Tempest tests.

22.8.1. rally verify compare

Compare two verification results.

Command arguments:

--uuid-1 <uuid_1>

UUID of the first verification

Type: str

Default: None

--uuid-2 <uuid_2>

UUID of the second verification

Type: str

Default: None

--CSV

Display results in CSV format

--html

Display results in HTML format

--json

Display results in JSON format

--output-file <output_file>

Path to a file to save results

Type: str

Default: None

--threshold <threshold>

If specified, timing differences must exceed this percentage threshold to be included in output

Type: int

Default: 0

22.8.2. rally verify detailed

Display results table of a verification with detailed errors.

Command arguments:

--uuid <uuid>



Note

The default value for the **--uuid** argument is taken from the Rally environment. Usually, the default value is equal to the UUID of the last successful run of **rally verify start**, **rally verify import_results**, if the **--no-use** argument was not used.

Tip

You can set the default value by executing **rally verify use <uuid>**.

UUID of a verification.

Type: str

`--sort-by <sort_by>`

Sort results by 'name' or 'duration'

Default: name

22.8.3. rally verify discover

Show a list of discovered tests.

Command arguments:

`--deployment <uuid>`



Note

The default value for the `--deployment` argument is taken from the Rally environment. Usually, the default value is equal to the UUID of the last successful run of **rally deployment create**, if the `--no-use` argument was not used.

Tip

You can set the default value by executing **rally deployment use <uuid>**.

UUID or name of a deployment

Type: str

`--pattern <pattern>`

Test name pattern which can be used to match

Type: str

Default:

22.8.4. rally verify genconfig

Generate Tempest configuration file.

Command arguments:

--deployment <uuid>

**Note**

The default value for the **--deployment** argument is taken from the Rally environment. Usually, the default value is equal to the UUID of the last successful run of **rally deployment create**, if the **--no-use** argument was not used.

Tip

You can set the default value by executing **rally deployment use <uuid>**.

UUID or name of a deployment.

Type: str

--tempest-config <path>

User-specified Tempest config file location

Type: str

Default: None

--override

Override existing Tempest config file

22.8.5. rally verify import

Import Tempest tests results into the Rally database.

Command arguments:

--deployment <uuid>

**Note**

The default value for the **--deployment** argument is taken from the Rally environment. Usually, the default value is equal to the UUID of the last successful run of **rally deployment create**, if the **--no-use** argument was not used.

Tip

You can set the default value by executing **rally deployment use <uuid>**.

UUID or name of a deployment.

Type: str

--set <set_name>

Name of a Tempest test set. Available sets are full, scenario, smoke, baremetal, clustering, compute, database, data_processing, identity, image, messaging, network, object_storage, orchestration, telemetry, volume

Type: str

Default:

--file <path>

User specified Tempest log file location. Note, Tempest log file needs to be in subunit format

Type: str

Default: None

--no-use

Don't set new task as default for future operations

22.8.6. rally verify install

Install Tempest.

Command arguments:

--deployment <uuid>



Note

The default value for the **--deployment** argument is taken from the Rally environment. Usually, the default value is equal to the UUID of the last successful run of **rally deployment create**, if the **--no-use** argument was not used.

Tip

You can set the default value by executing **rally deployment use <uuid>**.

UUID or name of a deployment.

Type: str

--source <source>

Path/URL to repo to clone Tempest from

Type: str

Default: None

--version <version>

Commit ID or tag to checkout before Tempest installation

Type: str

Default: None

--system-wide

Don't create a virtual env for Tempest. Note that all Tempest requirements have to be already installed in the local env!

22.8.7. rally verify list

List verification runs.

22.8.8. rally verify reinstall

Uninstall Tempest and install again.

Command arguments:

--deployment <uuid>

**Note**

The default value for the **--deployment** argument is taken from the Rally environment. Usually, the default value is equal to the UUID of the last successful run of **rally deployment create**, if the **--no-use** argument was not used.

Tip

You can set the default value by executing **rally deployment use <uuid>**.

UUID or name of a deployment.

Type: str

--source <source>

Path/URL to repo to clone Tempest from

Type: str

Default: None

--version <version>

Commit ID or tag to checkout before Tempest installation

Type: str

Default: None

--system-wide

Don't create a virtual env for Tempest. Note that all Tempest requirements have to be already installed in the local env!

22.8.9. rally verify results

Display results of a verification.

Command arguments:

--uuid <uuid>

**Note**

The default value for the **--uuid** argument is taken from the Rally environment. Usually, the default value is equal to the UUID of the last successful run of **rally verify start**, **rally verify import_results**, if the **--no-use** argument was not used.

Tip

You can set the default value by executing **rally verify use <uuid>**.

UUID of a verification.

Type: str

--html

Display results in HTML format.

--json

Display results in JSON format.

--output-file <path>

Path to a file to save results to.

Type: str

Default: None

22.8.10. rally verify show

Display results table of a verification.

Command arguments:

--uuid <uuid>

**Note**

The default value for the **--uuid** argument is taken from the Rally environment. Usually, the default value is equal to the UUID of the last successful run of **rally verify start**, **rally verify import_results**, if the **--no-use** argument was not used.

Tip

You can set the default value by executing **rally verify use <uuid>**.

UUID of a verification

Type: str

--sort-by <query>

Sort results by 'name' or 'duration'

Type: str

Default: name

--detailed

Display detailed errors of failed tests

22.8.11. rally verify showconfig

Show configuration file of Tempest.

Command arguments:

--deployment <uuid>

**Note**

The default value for the **--deployment** argument is taken from the Rally environment. Usually, the default value is equal to the UUID of the last successful run of **rally deployment create**, if the **--no-use** argument was not used.

Tip

You can set the default value by executing **rally deployment use <uuid>**.

UUID or name of a deployment.

Type: str

22.8.12. rally verify start

Start verification (run Tempest tests).

Command arguments:

`--deployment <uuid>`



Note

The default value for the `--deployment` argument is taken from the Rally environment. Usually, the default value is equal to the UUID of the last successful run of **rally deployment create**, if the `--no-use` argument was not used.

Tip

You can set the default value by executing **rally deployment use <uuid>**.

UUID or name of a deployment.

Type: str

`--set <set_name>`

Name of a Tempest test set. Available sets are full, scenario, smoke, baremetal, clustering, compute, database, data_processing, identity, image, messaging, network, object_storage, orchestration, telemetry, volume

Type: str

Default:

`--regex <regex>`

Test name regular expression

Type: str

Default: None

`--tests-file <path>`

Path to a file with a list of Tempest tests

Type: str

Default: None

--tempest-config <path>

User-specified Tempest config file location

Type: str

Default: None

--xfails-file <path>

Path to a YAML file with a list of Tempest tests that are expected to fail

Type: str

Default: None

--no-use

Don't set the task as default for future operations

--system-wide

Don't create a virtual env when installing Tempest; use the local env instead of the Tempest virtual env when running the tests. Note that all Tempest requirements have to be already installed in the local env!

--concurrency N

How many processes to use to run Tempest tests. The default value (0) auto-detects your CPU count

Type: int

Default: 0

--failing

Re-run the tests that failed in the last execution

22.8.13. rally verify uninstall

Remove the deployment's local Tempest installation.

Command arguments:

--deployment <uuid>

**Note**

The default value for the **--deployment** argument is taken from the Rally environment. Usually, the default value is equal to the UUID of the last successful run of **rally deployment create**, if the **--no-use** argument was not used.

Tip

You can set the default value by executing **rally deployment use <uuid>**.

UUID or name of a deployment.

Type: str

22.8.14. rally verify use

Set active verification.

Command arguments:

--uuid <uuid>

UUID of a verification

Type: str

CHAPTER 23. INTEGRATION TEST SUITE COMMAND-LINE CLIENT

The **tempest** client is the command-line interface (CLI) for the OpenStack integration test suite. This chapter documents **tempest** version **0.0.0**.

For help on a specific **tempest** command, enter:

```
$ tempest help COMMAND
```

23.1. TEMPEST USAGE

```
usage: tempest [--version] [-v | -q] [--log-file LOG_FILE] [-h] [--  
debug]
```

23.2. TEMPEST OPTIONAL ARGUMENTS

--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.

23.3. TEMPEST ACCOUNT-GENERATOR

```
usage: tempest account-generator [-h] [-c /etc/tempest.conf] [--os-username <auth-user-name>] [--os-password <auth-password>] [--os-tenant-name <auth-tenant-name>] [--tag TAG] -r CONCURRENCY [--with-admin] accounts_file.yaml
```

Create accounts.yaml file for concurrent test runs. One primary user, one alt user, one swift admin, one stack owner and one admin (optionally) will be created for each concurrent thread.

Positional arguments

accounts_file.yaml

Output accounts yaml file

Optional arguments

-h, --help

show this help message and exit

-c /etc/tempest.conf, --config-file /etc/tempest.conf

path to tempest config file

--os-username <auth-user-name>

User should have permissions to create new user accounts and tenants. Defaults to env[OS_USERNAME].

--os-password <auth-password>

Defaults to env[OS_PASSWORD].

--os-tenant-name <auth-tenant-name>

Defaults to env[OS_TENANT_NAME].

--tag TAG

Resources tag

-r CONCURRENCY, --concurrency CONCURRENCY

Concurrency count

--with-admin

Creates admin for each concurrent group

23.4. TEMPEST CLEANUP

```
usage: tempest cleanup [-h] [--init-saved-state] [--delete-tempest-  
conf-objects] [--dry-run]
```

Cleanup after tempest run

Optional arguments

-h, --help

show this help message and exit

--init-saved-state

Creates JSON file: saved_state.json, representing the current state of your deployment, specifically object types tempest creates and destroys during a run. You must run with this flag prior to executing cleanup in normal mode, which is with no arguments.

--delete-tempest-conf-objects

Force deletion of the tempest and alternate tempest users and tenants.

--dry-run

Generate JSON file:dry_run.json, that reports the objects that would have been deleted had a full cleanup been run.

23.5. TEMPEST INIT

```
usage: tempest init [-h] [--config-dir CONFIG_DIR] [dir]
```

Setup a local working environment for running tempest

Positional arguments

dir

Optional arguments

-h, --help

show this help message and exit

--config-dir CONFIG_DIR, -c CONFIG_DIR

23.6. TEMPEST LIST-PLUGINS

```
usage: tempest list-plugins [-h]
```

List all tempest plugins

Optional arguments

-h, --help

show this help message and exit

23.7. TEMPEST RUN-STRESS

```
usage: tempest run-stress [-h] [-d DURATION] [-s] [-S] [-n NUMBER] [-a]
                        [-T TYPE] [-i] [-t [TESTS]]
```

Run tempest stress tests

Optional arguments

-h, --help

show this help message and exit

-d DURATION, --duration DURATION

Duration of test in secs

-s, --serial

Trigger running tests serially

-S, --stop

Stop on first error

-n NUMBER, --number NUMBER

How often an action is executed for each process

-a, --all

Execute all stress tests

-T TYPE, --type TYPE

Filters tests of a certain type (e.g. gate)

-i, --call-inherited

Call also inherited function with stress attribute

-t [TESTS], --tests [TESTS]

Name of the file with test description

23.8. TEMPEST VERIFY-CONFIG

```
usage: tempest verify-config [-h] [-u] [-o OUTPUT] [-r]
```

Verify your current tempest configuration

Optional arguments

-h, --help

show this help message and exit

-u, --update

Update the config file with results from api queries. This assumes whatever is set in the config file is incorrect. In the case of endpoint checks where it could either be the incorrect catalog type or the service available option the service available option is assumed to be incorrect and is thus changed

-o OUTPUT, --output OUTPUT

Output file to write an updated config file to. This has to be a separate file from the original config file. If one isn't specified with -u the new config file will be printed to STDOUT

-r, --replace-ext

If specified the all option will be replaced with a full list of extensions

REVISION HISTORY

Revision 9.0.0-1	Wed Jun 28 2016	Radek Bíba
Release for Red Hat OpenStack Platform 9.0.		