



# **Red Hat OpenStack Platform 11 Command-Line Interface Reference**

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Command-line clients for Red Hat OpenStack Platform

OpenStack Team



## 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.

## Table of Contents

<b>CHAPTER 1. OPENSTACK COMMAND-LINE CLIENTS</b>	<b>5</b>
1.1. OVERVIEW	5
1.2. INSTALL THE OPENSTACK COMMAND-LINE CLIENTS	6
1.3. DISCOVER THE VERSION NUMBER FOR A CLIENT	8
1.4. SET ENVIRONMENT VARIABLES USING THE OPENSTACK RC FILE	8
<b>CHAPTER 2. TELEMETRY ALARMING SERVICE (AODH) COMMAND-LINE CLIENT</b>	<b>11</b>
2.1. AODH USAGE	11
2.2. AODH OPTIONAL ARGUMENTS	11
<b>CHAPTER 3. TELEMETRY DATA COLLECTION SERVICE (CEILOMETER) COMMAND-LINE CLIENT</b>	<b>20</b>
3.1. CEILOMETER USAGE	20
3.2. CEILOMETER OPTIONAL ARGUMENTS	23
<b>CHAPTER 4. BLOCK STORAGE SERVICE (CINDER) COMMAND-LINE CLIENT</b>	<b>57</b>
4.1. CINDER USAGE	57
4.2. CINDER OPTIONAL ARGUMENTS	67
<b>CHAPTER 5. IMAGE SERVICE (GLANCE) COMMAND-LINE CLIENT</b>	<b>121</b>
5.1. GLANCE USAGE	121
5.2. GLANCE OPTIONAL ARGUMENTS	121
<b>CHAPTER 6. A TIME SERIES STORAGE AND RESOURCES INDEX SERVICE (GNOCCHI) COMMAND-LINE CLIENT</b>	<b>146</b>
6.1. GNOCCHI USAGE	146
6.2. GNOCCHI OPTIONAL ARGUMENTS	146
<b>CHAPTER 7. ORCHESTRATION SERVICE (HEAT) COMMAND-LINE CLIENT</b>	<b>168</b>
7.1. HEAT USAGE	168
7.2. HEAT OPTIONAL ARGUMENTS	172
<b>CHAPTER 8. BARE METAL SERVICE (IRONIC) COMMAND-LINE CLIENT</b>	<b>195</b>
8.1. IRONIC USAGE	195
8.2. IRONIC OPTIONAL ARGUMENTS	198
<b>CHAPTER 9. SHARED FILE SYSTEMS SERVICE (MANILA) COMMAND-LINE CLIENT</b>	<b>222</b>
9.1. MANILA USAGE	222
9.2. MANILA OPTIONAL ARGUMENTS	230
<b>CHAPTER 10. NETWORKING SERVICE (NEUTRON) COMMAND-LINE CLIENT</b>	<b>282</b>
10.1. NEUTRON USAGE	282
10.2. NEUTRON OPTIONAL ARGUMENTS	282
10.3. NEUTRON API V2.0 COMMANDS	284
<b>CHAPTER 11. NEUTRON-DEBUG COMMAND-LINE CLIENT</b>	<b>486</b>
11.1. NEUTRON-DEBUG USAGE	486
11.2. NEUTRON-DEBUG OPTIONAL ARGUMENTS	487
11.3. NEUTRON-DEBUG PROBE-CREATE COMMAND	489
11.4. NEUTRON-DEBUG PROBE-LIST COMMAND	489
11.5. NEUTRON-DEBUG PROBE-CLEAR COMMAND	489
11.6. NEUTRON-DEBUG PROBE-DELETE COMMAND	489
11.7. NEUTRON-DEBUG PROBE-EXEC COMMAND	490
11.8. NEUTRON-DEBUG PING-ALL COMMAND	490
11.9. NEUTRON-DEBUG EXAMPLE	490

<b>CHAPTER 12. NEUTRON-SANITY-CHECK COMMAND-LINE CLIENT</b>	<b>492</b>
12.1. NEUTRON-SANITY-CHECK USAGE	492
12.2. NEUTRON-SANITY-CHECK OPTIONAL ARGUMENTS	493
<b>CHAPTER 13. COMPUTE SERVICE (NOVA) COMMAND-LINE CLIENT</b>	<b>497</b>
13.1. NOVA USAGE	497
13.2. NOVA OPTIONAL ARGUMENTS	510
<b>CHAPTER 14. NOVA-MANAGE COMMAND-LINE CLIENT</b>	<b>561</b>
14.1. NOVA-MANAGE USAGE	561
14.2. NOVA-MANAGE OPTIONAL ARGUMENTS	561
<b>CHAPTER 15. OBJECT STORAGE SERVICE (SWIFT) COMMAND-LINE CLIENT</b>	<b>567</b>
15.1. SWIFT USAGE	567
15.2. SWIFT EXAMPLES	568
15.3. SWIFT OPTIONAL ARGUMENTS	569
<b>CHAPTER 16. OPENSTACK COMMAND-LINE CLIENT</b>	<b>578</b>
16.1. COMMAND	578
16.2. ACCESS TOKEN	578
16.3. ADDRESS SCOPE	579
16.4. AGGREGATE	581
16.5. AVAILABILITY ZONE	584
16.6. BACKUP	584
16.7. CATALOG	586
16.8. COMPLETE	586
16.9. COMPUTE AGENT	587
16.10. COMPUTE SERVICE	588
16.11. CONFIGURATION	589
16.12. CONSISTENCY GROUP	590
16.13. CONSISTENCY GROUP SNAPSHOT	592
16.14. CONSOLE LOG	594
16.15. CONSOLE URL	594
16.16. CONSUMER	595
16.17. CONTAINER	596
16.18. CREDENTIAL	598
16.19. DOMAIN	600
16.20. EC2 CREDENTIALS	602
16.21. ENDPOINT	604
16.22. EXTENSION	606
16.23. FEDERATION PROTOCOL	607
16.24. FLAVOR	609
16.25. FLOATING IP	612
16.26. FLOATING IP POOL	615
16.27. GROUP	615
16.28. HOST	619
16.29. HYPERVISOR	620
16.30. HYPERVISOR STATS	620
16.31. IDENTITY PROVIDER	621
16.32. IMAGE	622
16.33. IP AVAILABILITY	630
16.34. IP FIXED	631
16.35. IP FLOATING	632
16.36. IP FLOATING POOL	633
16.37. KEYS	634

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16.37. KEYPAIR	634
16.38. LIMITS	635
16.39. MAPPING	635
16.40. MODULE	637
16.41. NETWORK	637
16.42. NETWORK AGENT	642
16.43. NETWORK AUTO ALLOCATED TOPOLOGY	645
16.44. NETWORK FLAVOR	645
16.45. NETWORK FLAVOR PROFILE	648
16.46. NETWORK METER	650
16.47. NETWORK METER RULE	651
16.48. NETWORK QOS POLICY	652
16.49. NETWORK QOS RULE	655
16.50. NETWORK QOS RULE TYPE	657
16.51. NETWORK RBAC	657
16.52. NETWORK SEGMENT	659
16.53. NETWORK SERVICE PROVIDER	661
16.54. OBJECT	661
16.55. OBJECT STORE ACCOUNT	664
16.56. POLICY	665
16.57. PORT	666
16.58. PROJECT	672
16.59. QUOTA	676
16.60. REGION	680
16.61. REQUEST TOKEN	681
16.62. ROLE	682
16.63. ROLE ASSIGNMENT	686
16.64. ROUTER	688
16.65. SECURITY GROUP	693
16.66. SECURITY GROUP RULE	695
16.67. SERVER	697





# 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 some of the OpenStack services.

**Table 1.1. OpenStack services and clients**

Service	Client	Package	Description
Bare Metal	<b>ironic</b>	python-ironicclient	Manage and provision physical machines.
Block Storage	<b>cinder</b>	python-cinderclient	Create and manage volumes.
Compute	<b>nova</b>	python-novaclient	Create and manage images, instances, and flavors.
Director	<b>tripleoclient</b>	python-tripleoclient	Manage a director-based cloud.
Identity	<b>keystone</b>	python-keystoneclient	Create and manage users, tenants, roles, endpoints, and credentials.
Image Service	<b>glance</b>	python-glanceclient	Create and manage images.

Service	Client	Package	Description
Hardware Introspection for Bare Metal	<b>ironic-inspector</b>	openstack-ironic-inspector	An auxiliary service for discovering hardware properties for the Bare Metal service.
Hardware Introspection for Bare Metal	<b>openstack baremetal introspection</b>	python-ironic-inspector-client	A client for the bare metal hardware introspection.
Networking	<b>neutron</b>	python-neutronclient	Configure networks for guest servers. This client was previously called <b>quantum</b> .
Object Storage	<b>swift</b>	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.
Orchestration	<b>heat</b>	python-heatclient	Launch stacks from templates, view details of running stacks including events and resources, and update and delete stacks.
Telemetry	<b>ceilometer</b>	python-ceilometerclient	Create and collect measurements across OpenStack.

For client installation instructions, see [Section 1.2, “Install the OpenStack Command-line Clients”](#).

## 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.
python-setuptools package	python-setuptools is a collection of tools to allow for building, distribution, and installation of Python packages.

### 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 valid values include:

- ✳ **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

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 btn:[Access & Security].

2. On the API Access tab, click btn:[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
```

5. 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.

1. 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
```

2. 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. TELEMETRY ALARMING SERVICE (AODH) COMMAND-LINE CLIENT

The `aodh` client is the command-line interface (CLI) for the Telemetry Alarming service (`aodh`) API and its extensions.

This chapter documents **aodh** version **0.9.0**.

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

```
$ aodh help COMMAND
```

### 2.1. AODH USAGE

```
usage: aodh [--version] [-v | -q] [--log-file LOG_FILE] [-h] [--debug]
           [--os-region-name <auth-region-name>] [--os-interface
<interface>]
           [--aodh-api-version AODH_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-username OS_USERNAME]
           [--os-user-domain-id OS_USER_DOMAIN_ID]
           [--os-user-domain-name OS_USER_DOMAIN_NAME]
           [--os-password OS_PASSWORD] [--aodh-endpoint <endpoint>]
```

### 2.2. AODH 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)

**--aodh-api-version AODH\_API\_VERSION**

Defaults to **env[AODH\_API\_VERSION]** or 2.

**--os-auth-type <name>, --os-auth-plugin <name>**

Authentication type to use

**--aodh-endpoint <endpoint>**

Aodh endpoint (Env: AODH\_ENDPOINT)

**2.2.1. aodh alarm create**

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



```

[--resource-type <RESOURCE_TYPE>]
[--resource-id <RESOURCE_ID>] [--metrics
<METRICS>]
[--composite-rule <COMPOSITE_RULE>]

```

Create an alarm

### Optional arguments:

#### **-h, --help**

show this help message and exit

#### **--name <NAME>**

Name of the alarm

#### **-t <TYPE>, --type <TYPE>**

Type of alarm, should be one of: threshold, event, composite, gnocchi\_resources\_threshold, gnocchi\_aggregation\_by\_metrics\_threshold, gnocchi\_aggregation\_by\_resources\_threshold.

#### **--project-id <PROJECT\_ID>**

Project to associate with alarm (configurable by admin users only)

#### **--user-id <USER\_ID>**

User to associate with alarm (configurable by admin users only)

#### **--description <DESCRIPTION>**

Free text description of the alarm

#### **--state <STATE>**

State of the alarm, one of: ['ok', 'alarm', 'insufficient data']

#### **--severity <SEVERITY>**

Severity of the alarm, one of: ['low', 'moderate', 'critical']

#### **--enabled {True|False}**

True if alarm evaluation is enabled

#### **--alarm-action <Webhook URL>**

URL to invoke when state transitions to alarm. May be used multiple times

#### **--ok-action <Webhook URL>**

URL to invoke when state transitions to OK. May be used multiple times

#### **--insufficient-data-action <Webhook URL>**

URL to invoke when state transitions to insufficient data. May be used multiple times

#### **--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>]]

**--repeat-actions {True|False}**

True if actions should be repeatedly notified while alarm remains in target state

## 2.2.2. aodh alarm delete

```
usage: aodh alarm delete [-h] [--name <NAME>] [<ALARM ID or NAME>]
```

Delete an alarm

**Positional arguments:**

**<ALARM ID or NAME>**

ID or name of an alarm.

**Optional arguments:**

**-h, --help**

show this help message and exit

**--name <NAME>**

Name of the alarm

## 2.2.3. aodh alarm list

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

List alarms

**Optional arguments:**

**-h, --help**

show this help message and exit

**--query QUERY**

Rich query supported by aodh, e.g. project\_id!=my-id user\_id=foo or user\_id=bar

**--filter <KEY1=VALUE1;KEY2=VALUE2...>**

Filter parameters to apply on returned alarms.

**--limit <LIMIT>**

Number of resources to return (Default is server default)

**--marker <MARKER>**

Last item of the previous listing. Return the next results after this value, the supported marker is alarm\_id.

**--sort <SORT\_KEY: SORT\_DIR>**

Sort of resource attribute, e.g. name:asc

## 2.2.4. aodh alarm show

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

Show an alarm

**Positional arguments:**

**<ALARM ID or NAME>**

ID or name of an alarm.

**Optional arguments:**

**-h, --help**

show this help message and exit

**--name <NAME>**

Name of the alarm

## 2.2.5. aodh alarm state get

```
usage: aodh alarm state get [-h] [-f
{html,json,shell,table,value,yaml}]
                        [-c COLUMN] [--max-width <integer>]
                        [--print-empty] [--noindent] [--prefix
PREFIX]
                        [--name <NAME>]
                        [<ALARM ID or NAME>]
```

Get state of an alarm

**Positional arguments:**

**<ALARM ID or NAME>**

ID or name of an alarm.

**Optional arguments:**

**-h, --help**

show this help message and exit

**--name <NAME>**

Name of the alarm

## 2.2.6. aodh alarm state set

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

Set state of an alarm

**Positional arguments:**

**<ALARM ID or NAME>**

ID or name of an alarm.

**Optional arguments:**

**-h, --help**

show this help message and exit

**--name <NAME>**

Name of the alarm

**--state <STATE>**

State of the alarm, one of: ['ok', 'alarm', 'insufficient data']

## 2.2.7. aodh alarm update

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

```

[--alarm-action <Webhook URL>]
[--ok-action <Webhook URL>]
[--insufficient-data-action <Webhook URL>]
[--time-constraint <Time Constraint>]
[--repeat-actions {True|False}] [--query
<QUERY>]

[--comparison-operator <OPERATOR>]
[--evaluation-periods <EVAL_PERIODS>]
[--threshold <THRESHOLD>] [--metric
<METRIC>]

[-m <METER NAME>] [--period <PERIOD>]
[--statistic <STATISTIC>] [--event-type
<EVENT_TYPE>]

[--granularity <GRANULARITY>]
[--aggregation-method <AGGR_METHOD>]
[--resource-type <RESOURCE_TYPE>]
[--resource-id <RESOURCE_ID>] [--metrics
<METRICS>]

[--composite-rule <COMPOSITE_RULE>]
[<ALARM ID or NAME>]

```

Update an alarm

#### Positional arguments:

**<ALARM ID or NAME>**

ID or name of an alarm.

#### Optional arguments:

**-h, --help**

show this help message and exit

**--name <NAME>**

Name of the alarm

**-t <TYPE>, --type <TYPE>**

Type of alarm, should be one of: threshold, event, composite, gnocchi\_resources\_threshold, gnocchi\_aggregation\_by\_metrics\_threshold, gnocchi\_aggregation\_by\_resources\_threshold.

**--project-id <PROJECT\_ID>**

Project to associate with alarm (configurable by admin users only)

**--user-id <USER\_ID>**

User to associate with alarm (configurable by admin users only)

**--description <DESCRIPTION>**

Free text description of the alarm

**--state <STATE>**

State of the alarm, one of: ['ok', 'alarm', 'insufficient data']

**--severity <SEVERITY>**

Severity of the alarm, one of: ['low', 'moderate', 'critical']

**--enabled {True|False}**

True if alarm evaluation is enabled

**--alarm-action <Webhook URL>**

URL to invoke when state transitions to alarm. May be used multiple times

**--ok-action <Webhook URL>**

URL to invoke when state transitions to OK. May be used multiple times

**--insufficient-data-action <Webhook URL>**

URL to invoke when state transitions to insufficient data. May be used multiple times

**--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>]]

**--repeat-actions {True|False}**

True if actions should be repeatedly notified while alarm remains in target state

## 2.2.8. aodh alarm-history search

```
usage: aodh alarm-history search [-h] [-f
{csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--noindent]
                                [--quote
{all,minimal,none,nonnumeric}]
                                [--query QUERY]
```

Show history for all alarms based on query

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

show this help message and exit

**--query QUERY**

Rich query supported by aodh, e.g. project\_id!=my-id user\_id=foo or user\_id=bar

## 2.2.9. aodh alarm-history show

```
usage: aodh alarm-history show [-h] [-f
{csv,html,json,table,value,yaml}]
```

```

    [-c COLUMN] [--max-width <integer>]
    [--print-empty] [--noindent]
    [--quote
{all,minimal,none,nonnumeric}]
    [--limit <LIMIT>] [--marker <MARKER>]
    [--sort <SORT_KEY:SORT_DIR>]
alarm_id

```

Show history for an alarm

#### Positional arguments:

##### **alarm\_id**

ID of an alarm

#### Optional arguments:

##### **-h, --help**

show this help message and exit

##### **--limit <LIMIT>**

Number of resources to return (Default is server default)

##### **--marker <MARKER>**

Last item of the previous listing. Return the next results after this value, the supported marker is event\_id.

##### **--sort <SORT\_KEY:SORT\_DIR>**

Sort of resource attribute. e.g. timestamp:desc

### 2.2.10. aodh capabilities list

```

usage: aodh capabilities list [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--noindent] [--prefix
PREFIX]

```

List capabilities of alarming service

#### Optional arguments:

##### **-h, --help**

show this help message and exit

## CHAPTER 3. TELEMETRY DATA COLLECTION SERVICE (CEILOMETER) COMMAND-LINE CLIENT

The ceilometer client is the command-line interface (CLI) for the Telemetry Data Collection service (ceilometer) API and its extensions.

This chapter documents **ceilometer** version **2.8.0**.

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

```
$ ceilometer help COMMAND
```

### 3.1. 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.

## 3.2. 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]`.

### 3.2.1. 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>;[timezone=<IANA Timezone>]] Defaults to None.

**--repeat-actions {True|False}**

True if actions should be repeatedly notified while alarm remains in target state.

**--alarm\_ids <ALARM\_IDS>**

List of alarm IDs. Required.

**--operator <OPERATOR>**

Operator to compare with, one of: ['and', 'or'].

### 3.2.2. ceilometer alarm-combination-update

```
usage: ceilometer alarm-combination-update [--name <NAME>]
                                           [--project-id
<ALARM_PROJECT_ID>]
```

```

<ALARM_USER_ID>]
<DESCRIPTION>]
URL>]
URL>]
action <Webhook URL>]
Constraint>]
{True|False}]
<Constraint names>]

[--user-id
[--description
[--state <STATE>]
[--severity <SEVERITY>]
[--enabled {True|False}]
[--alarm-action <Webhook
[--ok-action <Webhook
[--insufficient-data-
[--time-constraint <Time
[--repeat-actions
[--remove-time-constraint
[--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.

**--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'].

### 3.2.3. ceilometer alarm-delete

```
usage: ceilometer alarm-delete [<ALARM_ID>]
```

Delete an alarm.

**Positional arguments:**

**<ALARM\_ID>**

ID of the alarm to delete.

### 3.2.4. 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>;[timezone=<IANA Timezone>]] Defaults to None.

**--repeat-actions {True|False}**

True if actions should be repeatedly notified while alarm remains in target state.

**--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.

**3.2.5. 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>;[timezone=<IANA Timezone>]] Defaults to None.

**--repeat-actions {True|False}**

True if actions should be repeatedly notified while alarm remains in target state.

**--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.

### 3.2.6. 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>;[timezone=<IANA Timezone>]] Defaults to None.

**--repeat-actions {True|False}**

True if actions should be repeatedly notified while alarm remains in target state.

**--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']. Required.

**--comparison-operator <OPERATOR>**

Operator to compare with, one of: ['lt', 'le', 'eq', 'ne', 'ge', 'gt']. Required.

**--threshold <THRESHOLD>**

Threshold to evaluate against. Required.

**-m <METRICS>, --metrics <METRICS>**

Metric to evaluate against. Required.

### 3.2.7. 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.

**--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.

### 3.2.8. 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 <AGGREGATION> [--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.

**--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']. Required.

**--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.

### 3.2.9. 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.

**--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.

### 3.2.10. 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>]
severity <SEVERITY>]
enabled {True|False}]
alarm-action <Webhook URL>]
action <Webhook URL>]
insufficient-data-action <Webhook URL>]
constraint <Time Constraint>]
repeat-actions {True|False}]
granularity <GRANULARITY>]
evaluation-periods <COUNT>]
aggregation-method
<AGGREATION>
comparison-operator <OPERATOR>]
threshold
<THRESHOLD> -m
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>;[time zone=<IANA Timezone>]] Defaults to None.

**--repeat-actions {True|False}**

True if actions should be repeatedly notified while alarm remains in target state.

**--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']. Required.

**--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.

### 3.2.11. 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 <AGGREATION>]
                                [--
```

```

comparison-operator <OPERATOR>]
threshold <THRESHOLD>]
<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.

**--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.



### 3.2.12. 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.

### 3.2.13. 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.

### 3.2.14. ceilometer alarm-show

```
usage: ceilometer alarm-show [<ALARM_ID>]
```

Show an alarm.

#### Positional arguments:

**<ALARM\_ID>**

ID of the alarm to show.

### 3.2.15. 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.

### 3.2.16. 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.

### 3.2.17. 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.

**-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.

**3.2.18. 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>;[timezone=<IANA Timezone>]] Defaults to None.

**--repeat-actions {True|False}**

True if actions should be repeatedly notified while alarm remains in target state.

**--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.

### 3.2.19. ceilometer capabilities

```
usage: ceilometer capabilities
```

Print Ceilometer capabilities.

### 3.2.20. 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

### 3.2.21. 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.

### 3.2.22. ceilometer event-type-list

```
usage: ceilometer event-type-list
```

List event types.

### 3.2.23. ceilometer meter-list

```
usage: ceilometer meter-list [-q <QUERY>] [-l <NUMBER>]
                             [--unique {True|False}]
```

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

**--unique {True|False}**

Retrieves unique list of meters.

### 3.2.24. 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

### 3.2.25. 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

### 3.2.26. 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

### 3.2.27. 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

### 3.2.28. ceilometer resource-show

```
usage: ceilometer resource-show <RESOURCE_ID>
```

Show the resource.

#### Positional arguments:

**<RESOURCE\_ID>**

ID of the resource to show.

### 3.2.29. 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.

### 3.2.30. 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.

### 3.2.31. 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

**3.2.32. 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.

**3.2.33. 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 [].

### 3.2.34. 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.

### 3.2.35. 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 4. BLOCK STORAGE SERVICE (CINDER) COMMAND-LINE CLIENT

The cinder client is the command-line interface (CLI) for the Block Storage service (cinder) API and its extensions.

This chapter documents **cinder** version **2.0.1**.

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

```
$ cinder help COMMAND
```

### 4.1. 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.

##### **api-version**

Display the server API version information. (Supported by API versions 3.0 - 3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

**attachment-create**

Create an attachment for a cinder volume. (Supported by API versions 3.27 - 3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

**attachment-delete**

Delete an attachment for a cinder volume. (Supported by API versions 3.27 - 3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

**attachment-list**

Lists all attachments. (Supported by API versions 3.27

» 3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

**attachment-show**

Show detailed information for attachment. (Supported by API versions 3.27 - 3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

**attachment-update**

Update an attachment for a cinder volume. (Supported by API versions 3.27 - 3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

**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.

**backup-update**

Renames a backup. (Supported by API versions 3.9 - 3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

**cgsnapshot-create**

Creates a cgsnapshot.

**cgsnapshot-delete**

Removes one or more cgsnapshots.

**cgsnapshot-list**

Lists all cgsnapshots.

**cgsnapshot-show**

Shows cgsnapshot details.

**cluster-disable**

Disables clustered services. (Supported by API versions 3.7 - 3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

**cluster-enable**

Enables clustered services. (Supported by API versions 3.7 - 3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

**cluster-list**

Lists clustered services with optional filtering. (Supported by API versions 3.7 - 3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

**cluster-show**

Show detailed information on a clustered service. (Supported by API versions 3.7 - 3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

**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 consistency groups.

**consisgroup-show**

Shows details of a consistency group.

**consisgroup-update**

Updates a consistency group.

**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**

Failover a replicating cinder-volume host.

**force-delete**

Attempts force-delete of volume, regardless of state.

**freeze-host**

Freeze and disable the specified cinder-volume host.

**get-capabilities**

Show backend volume stats and properties. Admin only.

**get-pools**



Show pool information for backends. Admin only.

**group-create**

Creates a group. (Supported by API versions 3.13 - 3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

**group-create-from-src**

Creates a group from a group snapshot or a source group. (Supported by API versions 3.14 - 3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

**group-delete**

Removes one or more groups. (Supported by API versions 3.13 - 3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

**group-list**

Lists all groups. (Supported by API versions 3.13 - 3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

**group-show**

Shows details of a group. (Supported by API versions 3.13 - 3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

**group-snapshot-create**

Creates a group snapshot. (Supported by API versions 3.14 - 3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

**group-snapshot-delete**

Removes one or more group snapshots. (Supported by API versions 3.14 - 3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

**group-snapshot-list**

Lists all group snapshots. (Supported by API versions 3.14 - 3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

**group-snapshot-show**

Shows group snapshot details. (Supported by API versions 3.14 - 3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

**group-specs-list**

Lists current group types and specs. (Supported by API versions 3.11 - 3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

**group-type-create**

Creates a group type. (Supported by API versions 3.11

3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

**group-type-default**

List the default group type. (Supported by API versions 3.11 - 3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

### **group-type-delete**

Deletes group type or types. (Supported by API versions 3.11 - 3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

### **group-type-key**

Sets or unsets group\_spec for a group type. (Supported by API versions 3.11 - 3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

### **group-type-list**

Lists available 'group types'. (Admin only will see private types) (Supported by API versions 3.11 -3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

### **group-type-show**

Show group type details. (Supported by API versions 3.11 - 3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

### **group-type-update**

Updates group type name, description, and/or is\_public. (Supported by API versions 3.11 - 3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

### **group-update**

Updates a group. (Supported by API versions 3.13 -3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

### **image-metadata**

Sets or deletes volume image metadata.

### **image-metadata-show**

Shows volume image metadata.

### **list**

Lists all volumes.

### **manage**

Manage an existing volume.

### **manageable-list**

Lists all manageable volumes. (Supported by API versions 3.8 - 3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

### **message-delete**

Removes one or more messages. (Supported by API versions 3.3 - 3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

### **message-list**

Lists all messages. (Supported by API versions 3.3 -3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

**message-show**

Shows message details. (Supported by API versions 3.3

3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

**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. (Supported by API versions 3.0 - 3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

**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-manageable-list**

Lists all manageable snapshots. (Supported by API versions 3.8 - 3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

**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**

Thaw and enable the specified cinder-volume 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 volume type or types.

**type-key**

Sets or unsets extra\_spec for a volume type.

**type-list**

Lists available 'volume 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.

**version-list**

List all API versions. (Supported by API versions 3.0

✱ 3.latest) [hint: use '--os-volume-api-version' flag to show help message for proper version]

**bash-completion**

Prints arguments for bash\_completion.

**help**

Shows help about this program or one of its subcommands.

**list-extensions**

## 4.2. 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. Accepts X, X.Y (where X is major and Y is minor part). 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]`.

### 4.2.1. cinder absolute-limits

```
usage: cinder absolute-limits [<tenant_id>]
```

Lists absolute limits for a user.

**Positional arguments:**

**`<tenant_id>`**

Display information for a single tenant (Admin only).

### 4.2.2. cinder api-version

```
usage: cinder api-version
```

Display the server API version information.

### 4.2.3. cinder attachment-create

```
usage: cinder attachment-create [--instance <instance>] [--connect
<connect>]
                                [--initiator <initiator>] [--ip <ip>]
                                [--host <host>] [--platform
<platform>]
                                [--ostype <ostype>] [--multipath
<multipath>]
                                [--mountpoint <mountpoint>]
                                <volume>
```

Create an attachment for a cinder volume.

**Positional arguments:****<volume>**

Name or ID of volume or volumes to attach.

**Optional arguments:****--instance <instance>**

UUID of Instance attaching to. Default=None.

**--connect <connect>**

Make an active connection using provided connector info (True or False).

**--initiator <initiator>**

iqn of the initiator attaching to. Default=None.

**--ip <ip>**

ip of the system attaching to. Default=None.

**--host <host>**

Name of the host attaching to. Default=None.

**--platform <platform>**

Platform type. Default=x86\_64.

**--ostype <ostype>**

OS type. Default=linux2.

**--multipath <multipath>**

OS type. Default=False.

**--mountpoint <mountpoint>**

Mountpoint volume will be attached at. Default=None.

#### 4.2.4. cinder attachment-delete

```
usage: cinder attachment-delete <attachment> [<attachment> ...]
```

Delete an attachment for a cinder volume.

**Positional arguments:****<attachment>**

ID of attachment or attachments to delete.

#### 4.2.5. cinder attachment-list

```
usage: cinder attachment-list [--all-tenants [<0|1>]]
                               [--volume-id <volume-id>] [--status
<status>]
                               [--marker <marker>] [--limit <limit>]
                               [--sort <key>[:<direction>]]
                               [--tenant [<tenant>]]
```

Lists all attachments.

#### Optional arguments:

##### **--all-tenants [<0|1>]**

Shows details for all tenants. Admin only.

##### **--volume-id <volume-id>**

Filters results by a volume ID. Default=None.

##### **--status <status>**

Filters results by a status. Default=None.

##### **--marker <marker>**

Begin returning attachments that appear later in attachment list than that represented by this id. Default=None.

##### **--limit <limit>**

Maximum number of attachments 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, reference. Default=None.

##### **--tenant [<tenant>]**

Display information from single tenant (Admin only).

#### 4.2.6. cinder attachment-show

```
usage: cinder attachment-show <attachment>
```

Show detailed information for attachment.

#### Positional arguments:

##### **<attachment>**

ID of attachment.

#### 4.2.7. cinder attachment-update

```
usage: cinder attachment-update [--initiator <initiator>] [--ip <ip>]
```

```

<platform>]
<multipath>]
[--host <host>] [--platform
[--ostype <ostype>] [--multipath
[--mountpoint <mountpoint>]
<attachment>

```

Update an attachment for a cinder volume. This call is designed to be more of an attachment completion than anything else. It expects the value of a connector object to notify the driver that the volume is going to be connected and where it's being connected to.

#### Positional arguments:

##### <attachment>

ID of attachment.

#### Optional arguments:

##### --initiator <initiator>

iqn of the initiator attaching to. Default=None.

##### --ip <ip>

ip of the system attaching to. Default=None.

##### --host <host>

Name of the host attaching to. Default=None.

##### --platform <platform>

Platform type. Default=x86\_64.

##### --ostype <ostype>

OS type. Default=linux2.

##### --multipath <multipath>

OS type. Default=False.

##### --mountpoint <mountpoint>

Mountpoint volume will be attached at. Default=None.

## 4.2.8. cinder availability-zone-list

```
usage: cinder availability-zone-list
```

Lists all availability zones.

## 4.2.9. 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.

#### 4.2.10. cinder backup-delete

```
usage: cinder backup-delete [--force] <backup> [<backup> ...]
```

Removes one or more backups.

**Positional arguments:**

**<backup>**

Name or ID of backup(s) to delete.

**Optional arguments:**

**--force**

Allows deleting backup of a volume when its status is other than "available" or "error". Default=False.

### 4.2.11. cinder backup-export

```
usage: cinder backup-export <backup>
```

Export backup metadata record.

#### Positional arguments:

##### <backup>

ID of the backup to export.

### 4.2.12. 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.

### 4.2.13. 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, reference.  
Default=None.

**4.2.14. 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.

**4.2.15. cinder backup-restore**

```
usage: cinder backup-restore [--volume <volume>] [--name <name>]
<backup>
```

Restores a backup.

**Positional arguments:****<backup>**

Name or ID of backup to restore.

**Optional arguments:****--volume <volume>**

Name or ID of existing volume to which to restore. This is mutually exclusive with --name and takes priority. Default=None.

**--name <name>**

Use the name for new volume creation to restore. This is mutually exclusive with `--volume` (or the deprecated `--volume-id`) and `--volume` (or `--volume-id`) takes priority. Default=None.

#### 4.2.16. cinder backup-show

```
usage: cinder backup-show <backup>
```

Shows backup details.

##### Positional arguments:

###### <backup>

Name or ID of backup.

#### 4.2.17. cinder backup-update

```
usage: cinder backup-update [--name [<name>]] [--description  
<description>]  
                           <backup>
```

Renames a backup.

##### Positional arguments:

###### <backup>

Name or ID of backup to rename.

##### Optional arguments:

###### --name [<name>]

New name for backup.

###### --description <description>

Backup description. Default=None.

#### 4.2.18. 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.

#### 4.2.19. 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.

#### 4.2.20. 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.

#### 4.2.21. cinder cgsnapshot-show

```
usage: cinder cgsnapshot-show <cgsnapshot>
```

Shows cgsnapshot details.

**Positional arguments:**

**<cgsnapshot>**

Name or ID of cgsnapshot.

### 4.2.22. cinder cluster-disable

```
usage: cinder cluster-disable [--reason <reason>] [<binary>] <cluster-name>
```

Disables clustered services.

#### Positional arguments:

##### <binary>

Binary to filter by. Default: cinder-volume.

##### <cluster-name>

Name of the clustered services to update.

#### Optional arguments:

##### --reason <reason>

Reason for disabling clustered service.

### 4.2.23. cinder cluster-enable

```
usage: cinder cluster-enable [<binary>] <cluster-name>
```

Enables clustered services.

#### Positional arguments:

##### <binary>

Binary to filter by. Default: cinder-volume.

##### <cluster-name>

Name of the clustered services to update.

### 4.2.24. cinder cluster-list

```
usage: cinder cluster-list [--name <name>] [--binary <binary>]
                           [--is-up <True|true|False|false>]
                           [--disabled <True|true|False|false>]
                           [--num-hosts <num-hosts>]
                           [--num-down-hosts <num-down-hosts>] [--
detailed]
```

Lists clustered services with optional filtering.

#### Optional arguments:

##### --name <name>

Filter by cluster name, without backend will list all clustered services from the same cluster.  
Default=None.

**--binary <binary>**

Cluster binary. Default=None.

**--is-up <True|true|False|false>**

Filter by up/dow status. Default=None.

**--disabled <True|true|False|false>**

Filter by disabled status. Default=None.

**--num-hosts <num-hosts>**

Filter by number of hosts in the cluster.

**--num-down-hosts <num-down-hosts>**

Filter by number of hosts that are down.

**--detailed**

Get detailed clustered service information (Default=False).

#### 4.2.25. cinder cluster-show

```
usage: cinder cluster-show [<binary>] <cluster-name>
```

Show detailed information on a clustered service.

**Positional arguments:**

**<binary>**

Binary to filter by. Default: cinder-volume.

**<cluster-name>**

Name of the clustered service to show.

#### 4.2.26. 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.

#### 4.2.27. 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.

#### 4.2.28. 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.

**4.2.29. cinder consisgroup-list**

```
usage: cinder consisgroup-list [--all-tenants [<0|1>]]
```

Lists all consistency groups.

**Optional arguments:****--all-tenants [<0|1>]**

Shows details for all tenants. Admin only.

**4.2.30. cinder consisgroup-show**

```
usage: cinder consisgroup-show <consistencygroup>
```

Shows details of a consistency group.

**Positional arguments:****<consistencygroup>**

Name or ID of a consistency group.

**4.2.31. cinder consisgroup-update**

```
usage: cinder consisgroup-update [--name <name>] [--description
<description>]
                                [--add-volumes <uuid1,uuid2,.....>]
                                [--remove-volumes
<uuid3,uuid4,.....>]
                                <consistencygroup>
```

Updates a consistency group.

**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.

**4.2.32. cinder create**

```
usage: cinder create [--consisgroup-id <consistencygroup-id>
                    [--group-id <group-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.

**--group-id <group-id>**

ID of a group where the new volume belongs to. Default=None. (Supported by API version 3.13 and later)

**--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

### 4.2.33. cinder credentials

**usage: cinder credentials**

Shows user credentials returned from auth.

### 4.2.34. cinder delete

**usage: cinder delete [--cascade] <volume> [<volume> ...]**

Removes one or more volumes.

**Positional arguments:**

**<volume>**

Name or ID of volume or volumes to delete.

**Optional arguments:**

**--cascade**

Remove any snapshots along with volume. Default=False.

**4.2.35. 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

1. 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."

**4.2.36. 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.

**4.2.37. cinder encryption-type-list**



```
usage: cinder encryption-type-list
```

Shows encryption type details for volume types. Admin only.

#### 4.2.38. 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.

#### 4.2.39. 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)

#### 4.2.40. cinder endpoints

```
usage: cinder endpoints
```

Discovers endpoints registered by authentication service.

#### 4.2.41. 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.

#### 4.2.42. cinder extra-specs-list

```
usage: cinder extra-specs-list
```

Lists current volume types and extra specs.

#### 4.2.43. cinder failover-host

```
usage: cinder failover-host [--backend_id <backend-id>] <hostname>
```

Failover a replicating cinder-volume host.

##### Positional arguments:

###### <hostname>

Host name.

##### Optional arguments:

###### --backend\_id <backend-id>

ID of backend to failover to (Default=None)

#### 4.2.44. 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.

**4.2.45. cinder freeze-host**

```
usage: cinder freeze-host <hostname>
```

Freeze and disable the specified cinder-volume host.

**Positional arguments:****<hostname>**

Host name.

**4.2.46. 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](#)

**4.2.47. cinder get-pools**

```
usage: cinder get-pools [--detail]
```

Show pool information for backends. Admin only.

**Optional arguments:****--detail**

Show detailed information about pools.

**4.2.48. cinder group-create**

```
usage: cinder group-create [--name <name>] [--description  
<description>] [--availability-zone <availability-zone>]  
<group-type> <volume-types>
```

Creates a group.

**Positional arguments:****<group-type>**

Group type.

**<volume-types>**

Comma-separated list of volume types.

**Optional arguments:****--name <name>**

Name of a group.

**--description <description>**

Description of a group. Default=None.

**--availability-zone <availability-zone>**

Availability zone for group. Default=None.

#### 4.2.49. cinder group-create-from-src

```
usage: cinder group-create-from-src [--group-snapshot <group-snapshot>]
                                     [--source-group <source-group>]
                                     [--name <name>]
                                     [--description <description>]
```

Creates a group from a group snapshot or a source group.

**Optional arguments:****--group-snapshot <group-snapshot>**

Name or ID of a group snapshot. Default=None.

**--source-group <source-group>**

Name or ID of a source group. Default=None.

**--name <name>**

Name of a group. Default=None.

**--description <description>**

Description of a group. Default=None.

#### 4.2.50. cinder group-delete

```
usage: cinder group-delete [--delete-volumes] <group> [<group> ...]
```

Removes one or more groups.

**Positional arguments:**

**<group>**

Name or ID of one or more groups to be deleted.

**Optional arguments:**

**--delete-volumes**

Allows or disallows groups to be deleted if they are not empty. If the group is empty, it can be deleted without the delete-volumes flag. If the group is not empty, the delete-volumes flag is required for it to be deleted. If True, all volumes in the group will also be deleted.

#### 4.2.51. cinder group-list

```
usage: cinder group-list [--all-tenants [<0|1>]]
```

Lists all groups.

**Optional arguments:**

**--all-tenants [<0|1>]**

Shows details for all tenants. Admin only.

#### 4.2.52. cinder group-show

```
usage: cinder group-show <group>
```

Shows details of a group.

**Positional arguments:**

**<group>**

Name or ID of a group.

#### 4.2.53. cinder group-snapshot-create

```
usage: cinder group-snapshot-create [--name <name>]
                                     [--description <description>]
                                     <group>
```

Creates a group snapshot.

**Positional arguments:**

**<group>**

Name or ID of a group.

**Optional arguments:**

**--name <name>**

Group snapshot name. Default=None.

**--description <description>**

Group snapshot description. Default=None.

#### 4.2.54. cinder group-snapshot-delete

```
usage: cinder group-snapshot-delete <group_snapshot> [<group_snapshot>
...]
```

Removes one or more group snapshots.

**Positional arguments:**

**<group\_snapshot>**

Name or ID of one or more group snapshots to be deleted.

#### 4.2.55. cinder group-snapshot-list

```
usage: cinder group-snapshot-list [--all-tenants [<0|1>]] [--status
<status>]
                                [--group-id <group_id>]
```

Lists all group snapshots.

**Optional arguments:**

**--all-tenants [<0|1>]**

Shows details for all tenants. Admin only.

**--status <status>**

Filters results by a status. Default=None.

**--group-id <group\_id>**

Filters results by a group ID. Default=None.

#### 4.2.56. cinder group-snapshot-show

```
usage: cinder group-snapshot-show <group_snapshot>
```

Shows group snapshot details.

**Positional arguments:**

**<group\_snapshot>**

Name or ID of group snapshot.

#### 4.2.57. cinder group-specs-list

```
usage: cinder group-specs-list
```

Lists current group types and specs.

#### 4.2.58. cinder group-type-create

```
usage: cinder group-type-create [--description <description>]
                                [--is-public <is-public>]
                                <name>
```

Creates a group type.

##### Positional arguments:

**<name>**

Name of new group type.

##### Optional arguments:

**--description <description>**

Description of new group type.

**--is-public <is-public>**

Make type accessible to the public (default true).

#### 4.2.59. cinder group-type-default

```
usage: cinder group-type-default
```

List the default group type.

#### 4.2.60. cinder group-type-delete

```
usage: cinder group-type-delete <group_type> [<group_type> ...]
```

Deletes group type or types.

##### Positional arguments:

**<group\_type>**

Name or ID of group type or types to delete.

#### 4.2.61. cinder group-type-key

```
usage: cinder group-type-key <gtype> <action> <key=value> [<key=value>
...]
```

Sets or unsets group\_spec for a group type.

##### Positional arguments:

**<gtype>**

Name or ID of group type.

**<action>**

The action. Valid values are "set" or "unset."

**<key=value>**

The group specs key and value pair to set or unset. For unset, specify only the key.

#### 4.2.62. cinder group-type-list

```
usage: cinder group-type-list
```

Lists available 'group types'. (Admin only will see private types)

#### 4.2.63. cinder group-type-show

```
usage: cinder group-type-show <group_type>
```

Show group type details.

**Positional arguments:****<group\_type>**

Name or ID of the group type.

#### 4.2.64. cinder group-type-update

```
usage: cinder group-type-update [--name <name>] [--description  
<description>]  
                                [--is-public <is-public>]  
                                <id>
```

Updates group type name, description, and/or is\_public.

**Positional arguments:****<id>**

ID of the group type.

**Optional arguments:****--name <name>**

Name of the group type.

**--description <description>**

Description of the group type.



**--is-public <is-public>**

Make type accessible to the public or not.

#### 4.2.65. cinder group-update

```
usage: cinder group-update [--name <name>] [--description
<description>]
                                [--add-volumes <uuid1,uuid2,.....>]
                                [--remove-volumes <uuid3,uuid4,.....>]
                                <group>
```

Updates a group.

**Positional arguments:**

**<group>**

Name or ID of a group.

**Optional arguments:**

**--name <name>**

New name for group. Default=None.

**--description <description>**

New description for group. Default=None.

**--add-volumes <uuid1,uuid2,.....>**

UUID of one or more volumes to be added to the group, separated by commas.  
Default=None.

**--remove-volumes <uuid3,uuid4,.....>**

UUID of one or more volumes to be removed from the group, separated by commas.  
Default=None.

#### 4.2.66. 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.

**4.2.67. cinder image-metadata-show**

```
usage: cinder image-metadata-show <volume>
```

Shows volume image metadata.

**Positional arguments:****<volume>**

ID of volume.

**4.2.68. cinder list**

```
usage: cinder list [--group_id <group_id>] [--all-tenants [<0|1>]]
                  [--name <name>] [--status <status>]
                  [--bootable [<True|true|False|false>]]
                  [--migration_status <migration_status>]
                  [--metadata [<key=value> [<key=value> ...]]]
                  [--image_metadata [<key=value> [<key=value> ...]]]
                  [--marker <marker>] [--limit <limit>] [--fields
<fields>]
                  [--sort <key>[:<direction>]] [--tenant [<tenant>]]
```

Lists all volumes.

**Optional arguments:****--group\_id <group\_id>**

Filters results by a group\_id. Default=None. (Supported by API version 3.10 and later)

**--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.

**--image\_metadata [<key=value> [<key=value> ...]]**

Filters results by a image metadata key and value pair. Require volume api version >=3.4. Default=None. (Supported by API version 3.4 and later)

**--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, reference. Default=None.

**--tenant [<tenant>]**

Display information from single tenant (Admin only).

#### 4.2.69. cinder list-extensions

```
usage: cinder list-extensions
```

#### 4.2.70. 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

**4.2.71. cinder manageable-list**

```
usage: cinder manageable-list [--detailed <detailed>] [--marker
<marker>]
                                [--limit <limit>] [--offset <offset>]
                                [--sort <key>[:<direction>]]
                                <host>
```

Lists all manageable volumes.

**Positional arguments:****<host>**

Cinder host on which to list manageable volumes; takes the form: [host@backend-name#pool](#)

**Optional arguments:****--detailed <detailed>**

Returned detailed information (default true).

**--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.

**--offset <offset>**

Number of volumes to skip after marker. Default=None.

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

Comma-separated list of sort keys and directions in the form of <key>[:<asc|desc>]. Valid keys: size, reference. Default=None.

**4.2.72. cinder message-delete**

```
usage: cinder message-delete <message> [<message> ...]
```

Removes one or more messages.

**Positional arguments:****<message>**

ID of one or more message to be deleted.

**4.2.73. cinder message-list**

```
usage: cinder message-list [--marker <marker>] [--limit <limit>]
                             [--sort <key>[:<direction>]]
                             [--resource_uuid <resource_uuid>]
                             [--resource_type <type>] [--event_id <id>]
                             [--request_id <request_id>] [--level
<level>]
```

Lists all messages.

**Optional arguments:****--marker <marker>**

Begin returning message that appear later in the message list than that represented by this id. Default=None. (Supported by API version 3.5 and later)

**--limit <limit>**

Maximum number of messages to return. Default=None. (Supported by API version 3.5 and later)

**--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, reference. Default=None. (Supported by API version 3.5 and later)

**--resource\_uuid <resource\_uuid>**

Filters results by a resource uuid. Default=None.

**--resource\_type <type>**

Filters results by a resource type. Default=None.

**--event\_id <id>**

Filters results by event id. Default=None.

**--request\_id <request\_id>**

Filters results by request id. Default=None.

**--level <level>**

Filters results by the message level. Default=None.

#### 4.2.74. cinder message-show

```
usage: cinder message-show <message>
```

Shows message details.

**Positional arguments:****<message>**

ID of message.

#### 4.2.75. 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(s): <key key>  
(Supported by API version 3.15 and later)

#### 4.2.76. cinder metadata-show

```
usage: cinder metadata-show <volume>
```

Shows volume metadata.

**Positional arguments:**

**<volume>**

ID of volume.

#### 4.2.77. 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.

#### 4.2.78. 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.

#### 4.2.79. 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.

#### 4.2.80. 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.

#### 4.2.81. 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.

#### 4.2.82. 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.

**4.2.83. 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.

**4.2.84. 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.

**4.2.85. 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.

**4.2.86. cinder qos-list**

```
usage: cinder qos-list
```

Lists qos specs.

#### 4.2.87. cinder qos-show

```
usage: cinder qos-show <qos_specs>
```

Shows qos specs details.

##### Positional arguments:

**<qos\_specs>**

ID of QoS specifications to show.

#### 4.2.88. 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.

#### 4.2.89. 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.

**4.2.90. 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.

**4.2.91. 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.

**4.2.92. 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.

**4.2.93. cinder quota-update**

```
usage: cinder quota-update [--volumes <volumes>] [--snapshots
<snapshots>]
                                [--gigabytes <gigabytes>] [--backups
<backups>]
                                [--backup-gigabytes <backup_gigabytes>]
                                [--consistencygroups <consistencygroups>]
                                [--groups <groups>]
                                [--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.

**--groups <groups>**

The new "groups" quota value. Default=None. (Supported by API version 3.13 and later)

**--volume-type <volume\_type\_name>**

Volume type. Default=None.

**--per-volume-gigabytes <per\_volume\_gigabytes>**

Set max volume size limit. Default=None.

#### 4.2.94. 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.

#### 4.2.95. cinder rate-limits

```
usage: cinder rate-limits [<tenant_id>]
```

Lists rate limits for a user.

**Positional arguments:**

**<tenant\_id>**

Display information for a single tenant (Admin only).

#### 4.2.96. 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.

#### 4.2.97. 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.

#### 4.2.98. 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.

## 4.2.99. 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 reenableView replication. The replication-status of the volume should be inactive.

## 4.2.100. 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=None, that means the state is unchanged.

**--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.

### **4.2.101. 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.

### **4.2.102. 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.

### **4.2.103. cinder service-enable**

```
usage: cinder service-enable <hostname> <binary>
```

Enables the service.

**Positional arguments:**

**<hostname>**

Host name.

**<binary>**

Service binary.

#### 4.2.104. 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. (Supported by API version 3.7 and later)

#### 4.2.105. 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.

#### 4.2.106. cinder show

```
usage: cinder show <volume>
```



-

Shows volume details.

**Positional arguments:**

**<volume>**

Name or ID of volume.

#### 4.2.107. 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.

#### 4.2.108. cinder snapshot-delete

```
usage: cinder snapshot-delete [--force] <snapshot> [<snapshot> ...]
```

Removes one or more snapshots.

**Positional arguments:**

**<snapshot>**

Name or ID of the snapshot(s) to delete.

**Optional arguments:****--force**

Allows deleting snapshot of a volume when its status is other than "available" or "error".  
Default=False.

**4.2.109. 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>]]
                             [--metadata [<key=value> [<key=value>
...]]]
```

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, reference.  
Default=None.

**--tenant [<tenant>]**

Display information from single tenant (Admin only).

**--metadata [<key=value> [<key=value> ...]]**

Filters results by a metadata key and value pair. Require volume api version >=3.22.  
Default=None. (Supported by API version 3.22 and later)

#### 4.2.110. 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)

#### 4.2.111. cinder snapshot-manageable-list

```
usage: cinder snapshot-manageable-list [--detailed <detailed>]
                                         [--marker <marker>] [--limit
<limit>]
                                         [--offset <offset>]
                                         [--sort <key>[:<direction>]]
                                         <host>
```

Lists all manageable snapshots.

##### Positional arguments:

###### <host>

Cinder host on which to list manageable snapshots; takes the form: [host@backend-name#pool](#)

**Optional arguments:****--detailed <detailed>**

Returned detailed information (default true).

**--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.

**--offset <offset>**

Number of volumes to skip after marker. Default=None.

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

Comma-separated list of sort keys and directions in the form of <key>[:<asc|desc>]. Valid keys: size, reference. Default=None.

#### 4.2.112. 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.

#### 4.2.113. cinder snapshot-metadata-show

```
usage: cinder snapshot-metadata-show <snapshot>
```

Shows snapshot metadata.

**Positional arguments:****<snapshot>**

ID of snapshot.

#### 4.2.114. 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.

#### 4.2.115. 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.

#### 4.2.116. 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.

**4.2.117. cinder snapshot-show**

```
usage: cinder snapshot-show <snapshot>
```

Shows snapshot details.

**Positional arguments:****<snapshot>**

Name or ID of snapshot.

**4.2.118. cinder snapshot-unmanage**

```
usage: cinder snapshot-unmanage <snapshot>
```

Stop managing a snapshot.

**Positional arguments:****<snapshot>**

Name or ID of the snapshot to unmanage.

**4.2.119. cinder thaw-host**

```
usage: cinder thaw-host <hostname>
```

Thaw and enable the specified cinder-volume host.

**Positional arguments:****<hostname>**

Host name.

**4.2.120. 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.

**4.2.121. 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.

**4.2.122. cinder transfer-delete**

```
usage: cinder transfer-delete <transfer>
```

Undoes a transfer.

**Positional arguments:****<transfer>**

Name or ID of transfer to delete.

**4.2.123. 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.

**4.2.124. cinder transfer-show**

```
usage: cinder transfer-show <transfer>
```

Shows transfer details.

**Positional arguments:**

**<transfer>**

Name or ID of transfer to accept.

#### 4.2.125. 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.

#### 4.2.126. 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.

#### 4.2.127. 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.



### 4.2.128. 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).

### 4.2.129. cinder type-default

```
usage: cinder type-default
```

List the default volume type.

### 4.2.130. cinder type-delete

```
usage: cinder type-delete <vol_type> [<vol_type> ...]
```

Deletes volume type or types.

#### Positional arguments:

##### <vol\_type>

Name or ID of volume type or types to delete.

### 4.2.131. 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.

**4.2.132. cinder type-list**

```
usage: cinder type-list
```

Lists available 'volume types'. (Only admin and tenant users will see private types)

**4.2.133. cinder type-show**

```
usage: cinder type-show <volume_type>
```

Show volume type details.

**Positional arguments:****<volume\_type>**

Name or ID of the volume type.

**4.2.134. 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.

**4.2.135. cinder unmanage**

```
usage: cinder unmanage <volume>
```

Stop managing a volume.

**Positional arguments:**

**<volume>**

Name or ID of the volume to unmanage.

#### 4.2.136. cinder upload-to-image

```
usage: cinder upload-to-image [--force [<True|False>]]
                             [--container-format <container-format>]
                             [--disk-format <disk-format>]
                             [--visibility <public|private>]
                             [--protected <True|False>]
                             <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. This option may not be supported by your cloud.

**--container-format <container-format>**

Container format type. Default is bare.

**--disk-format <disk-format>**

Disk format type. Default is raw.

**--visibility <public|private>**

Set image visibility to either public or private. Default=private. (Supported by API version 3.1 and later)

**--protected <True|False>**

Prevents image from being deleted. Default=False. (Supported by API version 3.1 and later)

#### 4.2.137. cinder version-list

■

```
usage: cinder version-list
```

List all API versions.

## CHAPTER 5. IMAGE SERVICE (GLANCE) COMMAND-LINE CLIENT

The glance client is the command-line interface (CLI) for the Image service (glance) API and its extensions.

This chapter documents **glance** version **2.6.0**.



### Note

The Image service property keys are documented in the [Instances and Images Guide](#)

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

```
$ glance help COMMAND
```

### 5.1. 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] [--key-file OS_KEY] [--ca-file
OS_CACERT]
           [--cert-file OS_CERT] [--os-region-name OS_REGION_NAME]
           [--os-auth-token OS_AUTH_TOKEN]
           [--os-service-type OS_SERVICE_TYPE]
           [--os-endpoint-type OS_ENDPOINT_TYPE] [--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-username OS_USERNAME]
           [--os-user-domain-id OS_USER_DOMAIN_ID]
           [--os-user-domain-name OS_USER_DOMAIN_NAME]
           [--os-password OS_PASSWORD]
           <subcommand> ...
```

### 5.2. 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.

**--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-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]`.

**--os-auth-type <name>, --os-auth-plugin <name>**

Authentication type to use

### 5.2.1. glance explain

```
usage: glance explain <MODEL>
```

Describe a specific model.

**Positional arguments:**

**<MODEL>**

Name of model to describe.

### 5.2.2. glance image-create

```
usage: glance 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.

**--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, community, shared

**--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: None, ami, ari, aki, vhd, vhdx, vmdk, raw, qcow2, vdi, iso, ploop

**--os-distro <OS\_DISTRO>**

Common name of operating system distribution.

**--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: None, 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.

**5.2.3. glance image-deactivate**

```
usage: glance image-deactivate <IMAGE_ID>
```

Deactivate specified image.

**Positional arguments:****<IMAGE\_ID>**

ID of image to deactivate.

**5.2.4. glance image-delete**

```
usage: glance image-delete <IMAGE_ID> [<IMAGE_ID> ...]
```

Delete specified image.

**Positional arguments:****<IMAGE\_ID>**

ID of image(s) to delete.

**5.2.5. glance image-download**

```
usage: glance 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 not be saved.

**--progress**

Show download progress bar.

## 5.2.6. glance image-list

```
usage: glance 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.

### 5.2.7. glance image-reactivate

```
usage: glance image-reactivate <IMAGE_ID>
```

Reactivate specified image.

#### Positional arguments:

**<IMAGE\_ID>**

ID of image to reactivate.

### 5.2.8. glance image-show

```
usage: glance 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.

### 5.2.9. glance image-tag-delete

```
usage: glance 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.

### 5.2.10. glance image-tag-update

```
usage: glance 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.

### 5.2.11. glance image-update

```
usage: glance 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.

**--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, community, shared

**--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: None, ami, ari, aki, vhd, vhdx, vmdk, raw, qcow2, vdi, iso, ploop

**--os-distro <OS\_DISTRO>**

Common name of operating system distribution.

**--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: None, 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.

## 5.2.12. glance image-upload

■

```
usage: glance 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.

### 5.2.13. glance location-add

```
usage: glance 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: {})

### 5.2.14. glance location-delete

```
usage: glance 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.

**5.2.15. glance location-update**

```
usage: glance 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: {})

**5.2.16. glance md-namespace-create**

```
usage: glance md-namespace-create [--schema <SCHEMA>]
                                   [--created-at <CREATED_AT>]
                                   [--resource-type-associations
<RESOURCE_TYPE_ASSOCIATIONS> [<RESOURCE_TYPE_ASSOCIATIONS> ...]]
                                   [--protected [True|False]] [--self
<SELF>]
                                   [--display-name <DISPLAY_NAME>]
                                   [--owner <OWNER>]
                                   [--visibility <VISIBILITY>]
                                   [--updated-at <UPDATED_AT>]
                                   [--description <DESCRIPTION>]
                                   <NAMESPACE>
```

Create a new metadata definitions namespace.

**Positional arguments:****<NAMESPACE>**

Name of the namespace.

**Optional arguments:**

**--schema <SCHEMA>**

**--created-at <CREATED\_AT>**

Date and time of namespace creation.

**--resource-type-associations <RESOURCE\_TYPE\_ASSOCIATIONS> [...]**

**--protected [True|False]**

If true, namespace will not be deletable.

**--self <SELF>**

**--display-name <DISPLAY\_NAME>**

The user friendly name for the namespace. Used by UI if available.

**--owner <OWNER>**

Owner of the namespace.

**--visibility <VISIBILITY>**

Scope of namespace accessibility. Valid values: public, private

**--updated-at <UPDATED\_AT>**

Date and time of the last namespace modification.

**--description <DESCRIPTION>**

Provides a user friendly description of the namespace.

### 5.2.17. glance md-namespace-delete

```
usage: glance md-namespace-delete <NAMESPACE>
```

Delete specified metadata definitions namespace with its contents.

**Positional arguments:**

**<NAMESPACE>**

Name of namespace to delete.

### 5.2.18. glance md-namespace-import

```
usage: glance 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.

**5.2.19. glance md-namespaces-list**

```
usage: glance md-namespaces-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.

**5.2.20. glance md-namespaces-objects-delete**

```
usage: glance md-namespaces-objects-delete <NAMESPACE>
```

Delete all metadata definitions objects inside a specific namespace.

**Positional arguments:****<NAMESPACE>**

Name of namespace.

**5.2.21. glance md-namespaces-properties-delete**

```
usage: glance md-namespaces-properties-delete <NAMESPACE>
```

Delete all metadata definitions property inside a specific namespace.

**Positional arguments:****<NAMESPACE>**

Name of namespace.

**5.2.22. glance md-namespaces-resource-type-list**

```
usage: glance md-namespaces-resource-type-list <NAMESPACE>
```

List resource types associated to specific namespace.

**Positional arguments:**

**<NAMESPACE>**

Name of namespace.

### 5.2.23. glance md-namespace-show

```
usage: glance 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.

### 5.2.24. glance md-namespace-tags-delete

```
usage: glance md-namespace-tags-delete <NAMESPACE>
```

Delete all metadata definitions tags inside a specific namespace.

**Positional arguments:**

**<NAMESPACE>**

Name of namespace.

### 5.2.25. glance md-namespace-update

```
usage: glance md-namespace-update [--created-at <CREATED_AT>]
                                [--protected [True|False]]
                                [--namespace <NAMESPACE>] [--self
<SELF>]
                                [--display-name <DISPLAY_NAME>]
                                [--owner <OWNER>]
```

```
[--visibility <VISIBILITY>]
[--updated-at <UPDATED_AT>]
[--description <DESCRIPTION>]
<NAMESPACE>
```

Update an existing metadata definitions namespace.

#### Positional arguments:

**<NAMESPACE>**

Name of namespace to update.

#### Optional arguments:

**--created-at <CREATED\_AT>**

Date and time of namespace creation.

**--protected [True|False]**

If true, namespace will not be deletable.

**--namespace <NAMESPACE>**

The unique namespace text.

**--self <SELF>**

**--display-name <DISPLAY\_NAME>**

The user friendly name for the namespace. Used by UI if available.

**--owner <OWNER>**

Owner of the namespace.

**--visibility <VISIBILITY>**

Scope of namespace accessibility. Valid values: public, private

**--updated-at <UPDATED\_AT>**

Date and time of the last namespace modification.

**--description <DESCRIPTION>**

Provides a user friendly description of the namespace.

### 5.2.26. glance md-object-create

```
usage: glance 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.

**5.2.27. glance md-object-delete**

```
usage: glance 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.

**5.2.28. glance md-object-list**

```
usage: glance md-object-list <NAMESPACE>
```

List metadata definitions objects inside a specific namespace.

**Positional arguments:****<NAMESPACE>**

Name of namespace.

**5.2.29. glance md-object-property-show**

```
usage: glance 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.

**5.2.30. glance md-object-show**

```
usage: glance 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.

**5.2.31. glance md-object-update**

```
usage: glance 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.

### 5.2.32. glance md-property-create

```
usage: glance 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.

### 5.2.33. glance md-property-delete

```
usage: glance 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.

### 5.2.34. glance md-property-list

```
usage: glance md-property-list <NAMESPACE>
```

List metadata definitions properties inside a specific namespace.

**Positional arguments:**

**<NAMESPACE>**

Name of namespace.

### 5.2.35. glance md-property-show

```
usage: glance 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.

### 5.2.36. glance md-property-update

```
usage: glance 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.

### 5.2.37. glance md-resource-type-associate

```
usage: glance md-resource-type-associate [--updated-at <UPDATED_AT>]
                                         [--name <NAME>]
                                         [--properties-target
<PROPERTIES_TARGET>]
                                         [--prefix <PREFIX>]
                                         [--created-at <CREATED_AT>]
                                         <NAMESPACE>
```

Associate resource type with a metadata definitions namespace.

**Positional arguments:**

**<NAMESPACE>**

Name of namespace.

**Optional arguments:**

**--updated-at <UPDATED\_AT>**

Date and time of the last resource type association modification.

**--name <NAME>**

Resource type names should be aligned with Heat resource types whenever possible.

**--properties-target <PROPERTIES\_TARGET>**

Some resource types allow more than one key / value pair per instance. For example, Cinder allows user and image metadata on volumes. Only the image properties metadata is evaluated by Nova (scheduling or drivers). This property allows a namespace target to remove the ambiguity.

**--prefix <PREFIX>**

Specifies the prefix to use for the given resource type. Any properties in the namespace should be prefixed with this prefix when being applied to the specified resource type. Must include prefix separator (e.g. a colon :).

**--created-at <CREATED\_AT>**

Date and time of resource type association.

### 5.2.38. glance md-resource-type-deassociate

```
usage: glance 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.

**5.2.39. glance md-resource-type-list**

```
usage: glance md-resource-type-list
```

List available resource type names.

**5.2.40. glance md-tag-create**

```
usage: glance 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.

**5.2.41. glance md-tag-create-multiple**

```
usage: glance 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).

#### 5.2.42. glance md-tag-delete

```
usage: glance 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.

#### 5.2.43. glance md-tag-list

```
usage: glance md-tag-list <NAMESPACE>
```

List metadata definitions tags inside a specific namespace.

##### Positional arguments:

###### <NAMESPACE>

Name of namespace.

#### 5.2.44. glance md-tag-show

```
usage: glance 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.

#### 5.2.45. glance md-tag-update

```
usage: glance 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.

**5.2.46. glance member-create**

```
usage: glance 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.

**5.2.47. glance member-delete**

```
usage: glance 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.

**5.2.48. glance member-list**

```
usage: glance member-list --image-id <IMAGE_ID>
```

Describe sharing permissions by image.

**Optional arguments:****--image-id <IMAGE\_ID>**

Image to display members of.

### 5.2.49. glance member-update

```
usage: glance 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

### 5.2.50. glance task-create

```
usage: glance 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

### 5.2.51. glance task-list

```
usage: glance 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.

### 5.2.52. glance task-show

**usage:** glance task-show <TASK\_ID>

Describe a specific task.

**Positional arguments:**

**<TASK\_ID>**

ID of task to describe.

## CHAPTER 6. A TIME SERIES STORAGE AND RESOURCES INDEX SERVICE (GNOCCHI) COMMAND-LINE CLIENT

The `gnocchi` client is the command-line interface (CLI) for the A time series storage and resources index service (`gnocchi`) API and its extensions.

This chapter documents **gnocchi** version **3.1.1**.

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

```
$ gnocchi help COMMAND
```

### 6.1. GNOCCHI USAGE

```
usage: gnocchi [--version] [-v | -q] [--log-file LOG_FILE] [-h] [--
debug]
                [--gnocchi-api-version GNOCCHI_API_VERSION] [--
insecure]
                [--os-cacert <ca-certificate>] [--os-cert
<certificate>]
                [--os-key <key>] [--timeout <seconds>] [--os-auth-type
<name>]
                [--user <gnocchi user>] [--endpoint <gnocchi endpoint>]
```

### 6.2. 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.

#### **--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

### 6.2.1. gnocchi archive-policy create

```
usage: gnocchi archive-policy create [-h]
                                   [-f
                                   {html,json,shell,table,value,yaml}]
                                   [-c COLUMN] [--max-width
                                   <integer>]
                                   [--print-empty] [--noindent]
                                   [--prefix PREFIX] -d
                                   <DEFINITION>
                                   [-b BACK_WINDOW] [-m
                                   AGGREGATION_METHODS]
                                   name
```

Create an archive policy

**Positional arguments:**

**name**

name of the archive policy

**Optional arguments:**

**-h, --help**

show this help message and exit

**-d <DEFINITION>, --definition <DEFINITION>**

two attributes (separated by ',') of an archive policy definition with its name and value separated with a ':'

**-b BACK\_WINDOW, --back-window BACK\_WINDOW**

back window of the archive policy

**-m AGGREGATION\_METHODS, --aggregation-method AGGREGATION\_METHODS**

aggregation method of the archive policy

### 6.2.2. 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

**6.2.3. gnocchi archive-policy list**

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

List archive policies

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

show this help message and exit

**6.2.4. gnocchi archive-policy show**

```
usage: gnocchi archive-policy show [-h]
                                   [-f
{html,json,shell,table,value,yaml}]
                                   [-c COLUMN] [--max-width
<integer>]
                                   [--print-empty] [--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

**6.2.5. gnocchi archive-policy update**

```
usage: gnocchi archive-policy update [-h]
                                   [-f
{html,json,shell,table,value,yaml}]
```



```

<integer>]
                                [-c COLUMN] [--max-width
                                [--print-empty] [--noindent]
                                [--prefix PREFIX] -d
<DEFINITION>
                                name

```

Update an archive policy

#### Positional arguments:

##### name

name of the archive policy

#### Optional arguments:

##### -h, --help

show this help message and exit

##### -d <DEFINITION>, --definition <DEFINITION>

two attributes (separated by ',') of an archive policy definition with its name and value separated with a ':'

### 6.2.6. gnocchi archive-policy-rule create

```

usage: gnocchi archive-policy-rule create [-h]
                                         [-f
                                         {html,json,shell,table,value,yaml}]
                                         [-c COLUMN] [--max-width
                                         <integer>]
                                         [--print-empty] [--
                                         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

### 6.2.7. 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

### 6.2.8. gnocchi archive-policy-rule list

```
usage: gnocchi archive-policy-rule list [-h]
                                         [-f]
      {csv,html,json,table,value,yaml}]
                                         [-c COLUMN] [--max-width
      <integer>]
                                         [--print-empty] [--noindent]
                                         [--quote
      {all,minimal,none,nonnumeric}]
```

List archive policy rules

#### Optional arguments:

**-h, --help**

show this help message and exit

### 6.2.9. gnocchi archive-policy-rule show

```
usage: gnocchi archive-policy-rule show [-h]
                                         [-f]
      {html,json,shell,table,value,yaml}]
                                         [-c COLUMN] [--max-width
      <integer>]
                                         [--print-empty] [--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

**6.2.10. gnocchi benchmark measures add**

```
usage: gnocchi benchmark measures add [-h] [--resource-id RESOURCE_ID]
                                     [-f
{html,json,shell,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--print-empty] [--noindent]
                                     [--prefix PREFIX] [--workers
WORKERS]
                                     [--count COUNT [--batch BATCH]
[--timestamp-start
TIMESTAMP_START]
                                     [--timestamp-end TIMESTAMP_END]
                                     [--wait]
                                     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

**--wait**

Wait for all measures to be processed

### 6.2.11. gnocchi benchmark measures show

```
usage: gnocchi benchmark measures show [-h]
                                         [-f
{html,json,shell,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--print-empty] [--noindent]
                                         [--prefix PREFIX]
                                         [--resource-id RESOURCE_ID]
                                         [--aggregation AGGREGATION]
                                         [--start START] [--stop STOP]
                                         [--granularity GRANULARITY]
                                         [--refresh]
                                         [--resample RESAMPLE]
                                         [--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

**--granularity GRANULARITY**

granularity to retrieve

**--refresh**

force aggregation of all known measures

**--resample RESAMPLE**

granularity to resample time-series to (in seconds)

**--workers WORKERS, -w WORKERS**

Number of workers to use

**--count COUNT, -n COUNT**

Number of total measures to send

**6.2.12. gnocchi benchmark metric create**

```
usage: gnocchi benchmark metric create [-h] [--resource-id RESOURCE_ID]
                                         [-f
{html,json,shell,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--print-empty] [--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

### 6.2.13. gnocchi benchmark metric show

```
usage: gnocchi benchmark metric show [-h] [--resource-id RESOURCE_ID]
                                     [-f
{html,json,shell,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--print-empty] [--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

### 6.2.14. gnocchi capabilities list

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

List capabilities

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

show this help message and exit

**6.2.15. 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 '@'

**6.2.16. gnocchi measures aggregation**

```
usage: gnocchi measures aggregation [-h] [-f
{csv,html,json,table,value,yaml}]
<integer> [-c COLUMN] [--max-width
[  
--print-empty] [--noindent]
[  
--quote
{all,minimal,none,nonnumeric}] -m
METRIC [METRIC ...]
[  
--aggregation AGGREGATION]
[  
--reaggregation REAGGREGATION]
[  
--start START] [--stop STOP]
[  
--granularity GRANULARITY]
[  
--needed-overlap NEEDED_OVERLAP]
[  
--query QUERY]
[  
--resource-type RESOURCE_TYPE]
[  
--groupby GROUPBY] [--refresh]
[  
--resample RESAMPLE] [--fill
FILL]
```

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**

granularity aggregation function to retrieve

**--reaggregation REAGGREGATION**

groupby aggregation function to retrieve

**--start START**

beginning of the period

**--stop STOP**

end of the period

**--granularity GRANULARITY**

granularity to retrieve

**--needed-overlap NEEDED\_OVERLAP**

percent of datapoints in each metrics required

**--query QUERY**

A query to filter resource. The syntax is a combination of attribute, operator and value. For example: `id=90d58eea-70d7-4294-a49a-170dcdf44c3c` would filter resource with a certain id. More complex queries can be built, e.g.: `not (flavor_id!="1" and memory>=24)`. Use `""` to force data to be interpreted as string. Supported operators are: `not`, `and`, `^` or `v`, `>=`, `<=`, `!=`, `>`, `<`, `=`, `==`, `eq`, `ne`, `lt`, `gt`, `ge`, `le`, `in`, `like`, `≠`, `≥`, `≤`, `like`, `in`.

**--resource-type RESOURCE\_TYPE**

Resource type to query

**--groupby GROUPBY**

Attribute to use to group resources

**--refresh**

force aggregation of all known measures

**--resample RESAMPLE**

granularity to resample time-series to (in seconds)

**--fill FILL**

Value to use when backfilling timestamps with missing values in a subset of series. Value should be a float or 'null'.



### 6.2.17. 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

### 6.2.18. gnocchi measures batch-resources-metrics

```
usage: gnocchi measures batch-resources-metrics [-h] [--create-metrics]
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

##### --create-metrics

Create unknown metrics

### 6.2.19. gnocchi measures show

```
usage: gnocchi measures show [-h] [-f {csv,html,json,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>]
                             [--print-empty] [--noindent]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--resource-id RESOURCE_ID]
                             [--aggregation AGGREGATION] [--start
START]
                             [--stop STOP] [--granularity
GRANULARITY]
                             [--refresh] [--resample RESAMPLE]
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

**--granularity GRANULARITY**

granularity to retrieve

**--refresh**

force aggregation of all known measures

**--resample RESAMPLE**

granularity to resample time-series to (in seconds)

**6.2.20. gnocchi metric create**

```
usage: gnocchi metric create [-h] [--resource-id RESOURCE_ID]
                             [-f {html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>]
                             [--print-empty] [--noindent] [--prefix
PREFIX]
                             [--archive-policy-name
ARCHIVE_POLICY_NAME]
                             [--unit UNIT]
                             [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

**--unit UNIT, -u UNIT**

unit of the metric

**6.2.21. 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

**6.2.22. gnocchi metric list**

```
usage: gnocchi metric list [-h] [-f {csv,html,json,table,value,yaml}]
                           [-c COLUMN] [--max-width <integer>] [--
print-empty]
                           [--noindent]
                           [--quote {all,minimal,none,nonnumeric}]
                           [--limit <LIMIT>] [--marker <MARKER>]
                           [--sort <SORT>]
```

List metrics

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

show this help message and exit

**--limit <LIMIT>**

Number of metrics to return (Default is server default)

**--marker <MARKER>**

Last item of the previous listing. Return the next results after this value

**--sort <SORT>**

Sort of metric attribute (example: user\_id:desc-nullslast

### 6.2.23. gnocchi metric show

```
usage: gnocchi metric show [-h] [-f {html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
print-empty]
                             [--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

### 6.2.24. gnocchi resource batch delete

```
usage: gnocchi resource batch delete [-h]
                                      [-f
{html,json,shell,table,value,yaml}]
                                      [-c COLUMN] [--max-width
<integer>]
                                      [--print-empty] [--noindent]
                                      [--prefix PREFIX] [--type
RESOURCE_TYPE]
                                      query
```

Delete a batch of resources based on attribute values

**Positional arguments:**

## query

A query to filter resource. The syntax is a combination of attribute, operator and value. For example: `id=90d58eea-70d7-4294-a49a-170dcdf44c3c` would filter resource with a certain id. More complex queries can be built, e.g.: `not (flavor_id!="1" and memory>=24)`. Use `""` to force data to be interpreted as string. Supported operators are: `not`, `and`, `^` or `v`, `>=`, `<=`, `!=`, `>`, `<`, `=`, `==`, `eq`, `ne`, `lt`, `gt`, `ge`, `le`, `in`, `like`, `≠`, `≥`, `≤`, `like`, `in`.

### Optional arguments:

#### **-h, --help**

show this help message and exit

#### **--type RESOURCE\_TYPE, -t RESOURCE\_TYPE**

Type of resource

## 6.2.25. gnocchi resource create

```
usage: gnocchi resource create [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--noindent] [--prefix
PREFIX]
                                [--type RESOURCE_TYPE] [-a ATTRIBUTE]
                                [-m ADD_METRIC] [-n CREATE_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 an attribute separated with a ':'

#### **-m ADD\_METRIC, --add-metric ADD\_METRIC**

name:id of a metric to add

#### **-n CREATE\_METRIC, --create-metric CREATE\_METRIC**

name:archive\_policy\_name of a metric to create

### 6.2.26. 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

### 6.2.27. gnocchi resource history

```
usage: gnocchi resource history [-h] [-f
{csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--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

### 6.2.28. gnocchi resource list

```
usage: gnocchi resource list [-h] [-f {csv,html,json,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>]
                             [--print-empty] [--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

### 6.2.29. gnocchi resource show

```
usage: gnocchi resource show [-h] [-f
{html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>]
                             [--print-empty] [--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

### 6.2.30. gnocchi resource update

```
usage: gnocchi resource update [-h] [-f  
    {html,json,shell,table,value,yaml}]  
                                [-c COLUMN] [--max-width <integer>]  
                                [--print-empty] [--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 an attribute separated with a ':'

**-m ADD\_METRIC, --add-metric ADD\_METRIC**



name:id of a metric to add

**-n CREATE\_METRIC, --create-metric CREATE\_METRIC**

name:archive\_policy\_name of a metric to create

**-d DELETE\_METRIC, --delete-metric DELETE\_METRIC**

Name of a metric to delete

### 6.2.31. gnocchi resource-type create

```
usage: gnocchi resource-type create [-h]
                                   [-f
{html,json,shell,table,value,yaml}]
                                   [-c COLUMN] [--max-width
<integer>]
                                   [--print-empty] [--noindent]
                                   [--prefix PREFIX] [-a ATTRIBUTE]
                                   name
```

Create a resource type

**Positional arguments:**

**name**

name of the resource type

**Optional arguments:**

**-h, --help**

show this help message and exit

**-a ATTRIBUTE, --attribute ATTRIBUTE**

attribute definition, attribute\_name:attribute\_type:at  
tribute\_is\_required:attribute\_type\_option\_name=attribu te\_type\_option\_value:... For  
example: display\_name:string:true:max\_length=255

### 6.2.32. gnocchi resource-type delete

```
usage: gnocchi resource-type delete [-h] name
```

Delete a resource type

**Positional arguments:**

**name**

name of the resource type

**Optional arguments:**

**-h, --help**

show this help message and exit

### 6.2.33. gnocchi resource-type list

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

List resource types

#### Optional arguments:

**-h, --help**

show this help message and exit

### 6.2.34. gnocchi resource-type show

```
usage: gnocchi resource-type show [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--noindent]
                                [--prefix PREFIX]
                                name
```

Show a resource type

#### Positional arguments:

**name**

name of the resource type

#### Optional arguments:

**-h, --help**

show this help message and exit

### 6.2.35. gnocchi resource-type update

```
usage: gnocchi resource-type update [-h]
[-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width
<integer>]
                                [--print-empty] [--noindent]
                                [--prefix PREFIX] [-a ATTRIBUTE]
                                [-r REMOVE_ATTRIBUTE]
                                name
```

**Positional arguments:****name**

name of the resource type

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

show this help message and exit

**-a ATTRIBUTE, --attribute ATTRIBUTE**

attribute definition, attribute\_name:attribute\_type:attribute\_is\_required:attribute\_type\_option\_name=attribute\_type\_option\_value:... For example: display\_name:string:true:max\_length=255

**-r REMOVE\_ATTRIBUTE, --remove-attribute REMOVE\_ATTRIBUTE**

attribute name

**6.2.36. gnocchi status**

```
usage: gnocchi status [-h] [-f {html,json,shell,table,value,yaml}] [-c
COLUMN]
                        [--max-width <integer>] [--print-empty] [--
noindent]
                        [--prefix PREFIX]
```

Show the status of measurements processing

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

show this help message and exit

## CHAPTER 7. ORCHESTRATION SERVICE (HEAT) COMMAND-LINE CLIENT

### Warning

The heat CLI is deprecated in favor of python-openstackclient.

The heat client is the command-line interface (CLI) for the Orchestration service (heat) API and its extensions.

This chapter documents **heat** version **1.8.0**.

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

```
$ heat help COMMAND
```

### 7.1. 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.

## 7.2. 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.

### 7.2.1. 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.

### 7.2.2. 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.

### 7.2.3. 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.

### 7.2.4. heat build-info

```
usage: heat build-info
```

Retrieve build information.

### 7.2.5. 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.

### 7.2.6. heat config-delete

```
usage: heat config-delete <ID> [<ID> ...]
```

Delete the software configuration(s).

#### Positional arguments:

##### <ID>

ID of the configuration(s) to delete.

### 7.2.7. 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.

### 7.2.8. 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.

### 7.2.9. 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.

### 7.2.10. heat deployment-delete

```
usage: heat deployment-delete <ID> [<ID> ...]
```

Delete the software deployment(s).

#### Positional arguments:

**<ID>**

ID of the deployment(s) to delete.

### 7.2.11. 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.

### 7.2.12. 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.

### 7.2.13. 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

### 7.2.14. heat deployment-show

```
usage: heat deployment-show <ID>
```

Show the details of a software deployment.

#### Positional arguments:

**<ID>**

ID of the deployment.

### 7.2.15. 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

### 7.2.16. 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.

### 7.2.17. heat hook-clear

```
usage: heat hook-clear [--pre-create] [--pre-update] [--pre-delete]
                       <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)

**--pre-delete**

Clear the pre-delete hooks (optional)

### 7.2.18. 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.

### 7.2.19. 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.

### 7.2.20. 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.

### 7.2.21. 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.

### 7.2.22. heat resource mark-unhealthy

### 7.2.22. 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 or physical ID of the resource.

**reason**

Reason for state change.

#### Optional arguments:

**--reset**

Set the resource as healthy.

### 7.2.23. 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.

### 7.2.24. 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.

### 7.2.25. 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.

### 7.2.26. 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

### 7.2.27. 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.

**7.2.28. 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.

**7.2.29. heat service-list**

```
usage: heat service-list
```

List the Heat engines.

**7.2.30. 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.

**7.2.31. 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.

### 7.2.32. 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.

### 7.2.33. 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>.

### 7.2.34. 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.

### 7.2.35. 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.

### 7.2.36. 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.

### 7.2.37. 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).

### 7.2.38. 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. If multiple tags are passed, they will be combined using the AND boolean expression.



**--tags-any <TAG1, TAG2...>**

Show stacks containing these tags, If multiple tags are passed, they will be combined using the OR boolean expression.

**--not-tags <TAG1, TAG2...>**

Show stacks not containing these tags, If multiple tags are passed, they will be combined using the AND boolean expression.

**--not-tags-any <TAG1, TAG2...>**

Show stacks not containing these tags, If multiple tags are passed, they will be combined using the OR boolean 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.

**7.2.39. 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.

## 7.2.40. 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.

## 7.2.41. 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.

### 7.2.42. heat stack-snapshot

```
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.

### 7.2.43. 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.

#### 7.2.44. 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.

#### 7.2.45. 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.

#### 7.2.46. 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.

### 7.2.47. heat template-version-list

```
usage: heat template-version-list
```

List the available template versions.

## CHAPTER 8. BARE METAL SERVICE (IRONIC) COMMAND-LINE CLIENT

The ironic client is the command-line interface (CLI) for the Bare Metal service (ironic) API and its extensions.

This chapter documents **ironic** version **1.11.1**.

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

```
$ ironic help COMMAND
```

### 8.1. 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-inject-nmi**

Inject NMI to 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.

**node-vif-attach**

Attach VIF to a given node.

**node-vif-detach**

Detach VIF from a given node.

**node-vif-list**

List VIFs for a given 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.

**portgroup-create**

Create a new portgroup.

**portgroup-delete**

Delete a portgroup.

**portgroup-list**

List the portgroups.

**portgroup-port-list**

List the ports associated with a portgroup.

**portgroup-show**

Show detailed information about a portgroup.

**portgroup-update**

Update information about a portgroup.

**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.

**create**

Create baremetal resources (chassis, nodes, port groups and ports).

**bash-completion**

Prints all of the commands and options for bash-completion.

**help**

Display help about this program or one of its subcommands.

## 8.2. 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.

### 8.2.1. 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.

### 8.2.2. ironic chassis-delete

```
usage: ironic chassis-delete <chassis> [<chassis> ...]
```

Delete a chassis.

#### Positional arguments:

**<chassis>**

UUID of the chassis.

### 8.2.3. 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.

## 8.2.4. 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.

### 8.2.5. 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.

### 8.2.6. 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.

### 8.2.7. ironic create

```
usage: ironic create <file> [<file> ...]
```

Create baremetal resources (chassis, nodes, port groups and ports). The resources may be described in one or more JSON or YAML files. If any file cannot be validated, no resources are created. An attempt is made to create all the resources; those that could not be created are skipped (with a corresponding error message).

#### Positional arguments:

##### <file>

File (.yaml or .json) containing descriptions of the resources to create. Can be specified multiple times.

### 8.2.8. 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.

### 8.2.9. ironic driver-list

```
usage: ironic driver-list
```

List the enabled drivers.

### 8.2.10. 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.

### 8.2.11. 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.

### 8.2.12. ironic driver-show

```
usage: ironic driver-show <driver>
```

Show information about a driver.

#### Positional arguments:

##### <driver>

Name of the driver.

### 8.2.13. 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, PATCH. Defaults to 'POST'.

### 8.2.14. ironic node-create

```
usage: ironic node-create [-c <chassis>] -d <driver> [-i <key=value>]
                        [-p <key=value>] [-e <key=value>] [-u
<uuid>]
                        [-n <name>]
                        [--network-interface <network_interface>]
                        [--resource-class <resource_class>]
```

Register a new node with the Ironic service.

**Optional arguments:**

**-c <chassis>, --chassis <chassis>**

UUID of the chassis that this node belongs to.

**-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.

**--network-interface <network\_interface>**

Network interface used for switching node to cleaning/provisioning networks.

**--resource-class <resource\_class>**

Resource class for classifying or grouping nodes. Used, for example, to classify nodes in Nova's placement engine.

**Required arguments:**

**-d <driver>, --driver <driver>**

Driver used to control the node.

### 8.2.15. ironic node-delete

```
usage: ironic node-delete <node> [<node> ...]
```

Unregister node(s) from the Ironic service. Returns errors for any nodes that could not be unregistered.

**Positional arguments:**

**<node>**

Name or UUID of the node.

### 8.2.16. 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.

### 8.2.17. 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.

### 8.2.18. 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.

### 8.2.19. 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.

### 8.2.20. ironic node-inject-nmi

```
usage: ironic node-inject-nmi <node>
```

Inject NMI to a node.

**Positional arguments:**

**<node>**

Name or UUID of the node.

### 8.2.21. 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> ...]]
                        [--resource-class <resource class>]
```

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.

### **--resource-class <resource class>**

List nodes using specified resource class.

## **8.2.22. 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.

## **8.2.23. 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>**

One of pxe, disk, cdrom, bios, safe.

**Optional arguments:**

**--persistent**

Make changes persistent for all future boots.

## 8.2.24. 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'.

## 8.2.25. 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'.

### 8.2.26. ironic node-set-power-state

```
usage: ironic node-set-power-state [--soft] [--power-timeout <power-
timeout>]
                                <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'.

#### Optional arguments:

##### --soft

Gracefully change the power state. Only valid for 'off' and 'reboot' power states.

##### --power-timeout <power-timeout>

Timeout (in seconds, positive integer) to wait for the target power state before erroring out.

### 8.2.27. ironic node-set-provision-state

```
usage: ironic node-set-provision-state [--config-drive <config-drive>]
                                       [--clean-steps <clean-steps>]
                                       [--wait [WAIT_TIMEOUT]]
                                       <node> <provision-state>
```

Initiate a provisioning state change for a node.

#### Positional arguments:

##### <node>

Name or UUID of the node.

##### <provision-state>

Supported states: deleted, provide, clean, manage, active, rebuild, inspect, abort, adopt.

#### 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'.

**--wait [WAIT\_TIMEOUT]**

Wait for a node to reach the expected state. Not supported for 'abort'. Optionally takes a timeout in seconds. The default value is 0, meaning no timeout. Fails if the node reaches an unexpected stable state, a failure state or a state with last\_error set.

## 8.2.28. 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.

## 8.2.29. 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.

## 8.2.30. 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.

### 8.2.31. 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. For nested attributes, separate the components with slashes, eg 'driver\_info/deploy\_kernel=uuid'.

### 8.2.32. ironic node-validate

```
usage: ironic node-validate <node>
```

Validate a node's driver interfaces.

**Positional arguments:**

**<node>**

Name or UUID of the node.

### 8.2.33. 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, PATCH. Defaults to 'POST'.

### 8.2.34. ironic node-vif-attach

```
usage: ironic node-vif-attach [--vif-info <key=value>] <node> <vif-id>
```

Attach VIF to a given node.

**Positional arguments:**

**<node>**

Name or UUID of the node.

**<vif-id>**

Name or UUID of the VIF to attach to node.

**Optional arguments:**

**--vif-info <key=value>**

Record arbitrary key/value metadata. Can be specified multiple times. The mandatory 'id' parameter cannot be specified as a key.

### 8.2.35. ironic node-vif-detach

```
usage: ironic node-vif-detach <node> <vif-id>
```

Detach VIF from a given node.

**Positional arguments:**

**<node>**

Name or UUID of the node.

**<vif-id>**

Name or UUID of the VIF to detach from node.

### 8.2.36. ironic node-vif-list

```
usage: ironic node-vif-list <node>
```

List VIFs for a given node.

#### Positional arguments:

**<node>**

Name or UUID of the node.

### 8.2.37. ironic port-create

```
usage: ironic port-create -a <address> -n <node> [-l <key=value>]
                                     [--portgroup <portgroup>] [--pxe-enabled
<boolean>]
                                     [-e <key=value>] [-u <uuid>]
```

Create a new port.

#### Optional arguments:

**-l <key=value>, --local-link-connection <key=value>**

Key/value metadata describing Local link connection information. Valid keys are switch\_info, switch\_id, port\_id. Can be specified multiple times.

**--portgroup <portgroup>**

UUID of the portgroup that this port belongs to.

**--pxe-enabled <boolean>**

Indicates whether this Port should be used when PXE booting this Node.

**-e <key=value>, --extra <key=value>**

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

**-u <uuid>, --uuid <uuid>**

UUID of the port.

#### Required 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.

### 8.2.38. ironic port-delete

```
usage: ironic port-delete <port> [<port> ...]
```

Delete a port.

**Positional arguments:**

**<port>**

UUID of the port.

### 8.2.39. 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.

### 8.2.40. 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.

### 8.2.41. 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.

### 8.2.42. ironic portgroup-create

```
usage: ironic portgroup-create [-a <address>] -n <node> [--name <name>]
                               [-e <key=value>]
                               [--standalone-ports-supported
                               <boolean>]
                               [-u <uuid>] [-m <mode>] [-p
                               <key=value>]
```

Create a new portgroup.

**Optional arguments:**

**-a <address>, --address <address>**

MAC address for this portgroup.

**--name <name>**

Name for the portgroup.

**-e <key=value>, --extra <key=value>**

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

**--standalone-ports-supported <boolean>**

Specifies whether ports from this portgroup can be used in stand alone mode.

**-u <uuid>, --uuid <uuid>**

UUID of the portgroup.

**-m <mode>, --mode <mode>**

Portgroup mode. For possible values, refer to [Kernel documentation](#).

**-p <key=value>, --properties <key=value>**

Record key/value properties related to this portgroup's configuration.

**Required arguments:**

**-n <node>, --node <node>**

UUID of the node that this portgroup belongs to.

### 8.2.43. ironic portgroup-delete

```
usage: ironic portgroup-delete <portgroup> [<portgroup> ...]
```

Delete a portgroup.

**Positional arguments:**

**<portgroup>**

UUID or Name of the portgroup.

### 8.2.44. ironic portgroup-list

```
usage: ironic portgroup-list [--detail] [-n <node>] [-a <mac-address>]
                             [--limit <limit>] [--marker <portgroup>]
                             [--sort-key <field>] [--sort-dir
<direction>]
                             [--fields <field> [<field> ...]]
```

List the portgroups.

**Optional arguments:**

**--detail**

Show detailed information about portgroups.

**-n <node>, --node <node>**

UUID of the node that this portgroup belongs to.

**-a <mac-address>, --address <mac-address>**

Only show information for the portgroup with this MAC address.

**--limit <limit>**

Maximum number of portgroups to return per request, 0 for no limit. Default is the maximum number used by the Ironic API Service.

**--marker <portgroup>**

Portgroup UUID (for example, of the last portgroup in the list from a previous request). Returns the list of portgroups after this UUID.

**--sort-key <field>**

Portgroup field that will be used for sorting.

**--sort-dir <direction>**

Sort direction: "asc" (the default) or "desc".

**--fields <field> [<field> ...]**

One or more portgroup fields. Only these fields will be fetched from the server. Can not be used when '--detail' is specified.

### 8.2.45. ironic portgroup-port-list

```
usage: ironic portgroup-port-list [--detail] [--limit <limit>]
                                [--marker <port>] [--sort-key
<field>]
                                [--sort-dir <direction>]
                                [--fields <field> [<field> ...]]
                                <portgroup>
```

List the ports associated with a portgroup.

#### Positional arguments:

**<portgroup>**

Name or UUID of the portgroup.

#### 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.

## 8.2.46. ironic portgroup-show

```
usage: ironic portgroup-show [--address] [--fields <field> [<field>
...]] <id>
```

Show detailed information about a portgroup.

**Positional arguments:****<id>**

Name or UUID of the portgroup (or MAC address if --address is specified).

**Optional arguments:****--address <id>**

is the MAC address (instead of the UUID) of the portgroup.

**--fields <field> [<field> ...]**

One or more portgroup fields. Only these fields will be fetched from the server.

## 8.2.47. ironic portgroup-update

```
usage: ironic portgroup-update <portgroup> <op> <path=value>
[<path=value> ...]
```

Update information about a portgroup.

**Positional arguments:****<portgroup>**

UUID or Name of the portgroup.

**<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 9. SHARED FILE SYSTEMS SERVICE (MANILA) COMMAND-LINE CLIENT

The manila client is the command-line interface (CLI) for the Shared File Systems service (manila) API and its extensions.

This chapter documents **manila** version **1.14.0**.

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

```
$ manila help COMMAND
```

### 9.1. 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>]
              [--os-token <token>] [--bypass-url <bypass-url>]
              [--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.

**availability-zone-list**

List all availability zones.

**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.

**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).

**revert-to-snapshot**

Revert a share to the specified snapshot.

**security-service-create**

Create security service used by tenant.

**security-service-delete**

Delete one or more security services.

**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-group-create**

Creates a new share group (Experimental).

**share-group-delete**

Remove one or more share groups (Experimental).

**share-group-list**

List share groups with filters (Experimental).

**share-group-reset-state**

Explicitly update the state of a share group (Admin only, Experimental).

**share-group-show**

Show details about a share group (Experimental).

**share-group-snapshot-create**

Creates a new share group snapshot (Experimental).

**share-group-snapshot-delete**

Remove one or more share group snapshots (Experimental).

**share-group-snapshot-list**

List share group snapshots with filters (Experimental).

**share-group-snapshot-list-members**

List members of a share group snapshot (Experimental).

**share-group-snapshot-reset-state**

Explicitly update the state of a share group snapshot (Admin only, Experimental).

**share-group-snapshot-show**

Show details about a share group snapshot (Experimental).

**share-group-snapshot-update**

Update a share group snapshot (Experimental).

**share-group-type-access-add**

Adds share group type access for the given project (Admin only).

**share-group-type-access-list**

Print access information about a share group type (Admin only).

**share-group-type-access-remove**

Removes share group type access for the given project (Admin only).

**share-group-type-create**

Create a new share group type (Admin only).

**share-group-type-delete**

Delete a specific share group type (Admin only).

**share-group-type-key**

Set or unset group\_spec for a share group type (Admin only).

**share-group-type-list**

Print a list of available 'share group types'.

**share-group-type-specs-list**

Print a list of 'share group types specs' (Admin Only).

**share-group-update**

Update a share group (Experimental).

**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 one or more share networks.

**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 one or more share servers (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-access-allow**

Allow read only access to a snapshot.

**snapshot-access-deny**

Deny access to a snapshot.

**snapshot-access-list**

Show access list for a snapshot.

**snapshot-create**

Add a new snapshot.

**snapshot-delete**

Remove one or more snapshots.

**snapshot-export-location-list**

List export locations of a given snapshot.

**snapshot-export-location-show**

Show export location of the share snapshot.



**snapshot - force-delete**

Attempt force-deletion of one or more snapshots. Regardless of the state (Admin only).

**snapshot - instance-export-location-list**

List export locations of a given snapshot instance.

**snapshot - instance-export-location-show**

Show export location of the share instance snapshot.

**snapshot - instance-list**

List share snapshot instances.

**snapshot - instance-reset-state**

Explicitly update the state of a share snapshot instance.

**snapshot - instance-show**

Show details about a share snapshot instance.

**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 one or more specific share types (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.

## 9.2. 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]**.

**--os-token <token>**

Defaults to **env[OS\_TOKEN]**.

**--bypass-url <bypass-url>**

Use this API endpoint instead of the Service Catalog. Defaults to **env[OS\_MANILA\_BYPASS\_URL]**.

**--service-type <service-type>**

Defaults to **compute** for most actions.

**--service-name <service-name>**

Defaults to **env[OS\_MANILA\_SERVICE\_NAME]**.

**--share-service-name <share-service-name>**

Defaults to **env[OS\_MANILA\_SHARE\_SERVICE\_NAME]**.

**--endpoint-type <endpoint-type>**

Defaults to **env[OS\_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]**.

### 9.2.1. manila absolute-limits

```
usage: manila absolute-limits
```

Print a list of absolute limits for a user.

### 9.2.2. 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.

### 9.2.3. 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.

### 9.2.4. 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"

### 9.2.5. manila api-version

```
usage: manila api-version
```

Display the API version information.

### 9.2.6. manila availability-zone-list

```
usage: manila availability-zone-list [--columns <columns>]
```

List all availability zones.

#### Optional arguments:

##### --columns <columns>

Comma separated list of columns to be displayed e.g. --columns "id,name"

### 9.2.7. 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>]
                  [--share-group <share-group>]
                  <share_protocol> <size>
```

Creates a new share (NFS, CIFS, CephFS, GlusterFS or HDFS).

#### Positional arguments:

##### **<share\_protocol>**

Share protocol (NFS, CIFS, CephFS, GlusterFS or HDFS).

##### **<size>**

Share size in GiB.

#### Optional arguments:

##### **--snapshot-id <snapshot-id>, --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>, --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.

**--share-group <share-group>, --share\_group <share-group>, --group <share-group>**

Optional share group name or ID in which to create the share (Experimental, Default=None).

### 9.2.8. manila credentials

```
usage: manila credentials
```

Show user credentials returned from auth.

### 9.2.9. manila delete

```
usage: manila delete [--share-group <share-group>] <share> [<share>
...]
```

Remove one or more shares.

**Positional arguments:**

**<share>**

Name or ID of the share(s).

**Optional arguments:**

**--share-group <share-group>, --share\_group <share-group>, --group <share-group>**

Optional share group name or ID which contains the share (Experimental, Default=None).

### 9.2.10. manila endpoints

```
usage: manila endpoints
```

Discover endpoints that get returned from the authenticate services.

### 9.2.11. 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.

### 9.2.12. 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"

### 9.2.13. 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.

### 9.2.14. 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]
                        [--share-group <share_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 creation. OPTIONAL: Default=None

**--share-type <share\_type>, --volume-type <share\_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.

**--share-group <share\_group>, --share\_group <share\_group>, --group <share\_group>**

Filter results by share group name or ID (Experimental, Default=None).

**--columns <columns>**

Comma separated list of columns to be displayed e.g. --columns "export\_location,is public"

### 9.2.15. manila list-extensions

```
usage: manila list-extensions
```

List all the os-api extensions that are available.

### 9.2.16. 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

## **9.2.17. 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).

## **9.2.18. manila metadata-show**

```
usage: manila metadata-show <share>
```

Show metadata of given share.

### **Positional arguments:**

#### **<share>**

Name or ID of the share.

## **9.2.19. 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.

### 9.2.20. 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.

### 9.2.21. 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.

### 9.2.22. 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.

### 9.2.23. manila migration-start

```
usage: manila migration-start [--force_host_assisted_migration
<True|False>]
                                --preserve-metadata <True|False>
                                --preserve-snapshots <True|False> --
writable
                                <True|False> --nondisruptive
<True|False>
                                [--new_share_network
<new_share_network>]
                                [--new_share_type <new_share_type>]
<share> <host@backend#pool>
```

Migrates share to a new host (Admin only, Experimental).

#### Positional arguments:

**<share>**

Name or ID of share to migrate.

**<host@backend#pool>**

Destination host where share will be migrated to. Use the format '[host@backend#pool](#)'.

**Optional arguments:**

**--force\_host\_assisted\_migration <True|False>, --force-host-assisted-migration <True|False>**

Enforces the use of the host-assisted migration approach, which bypasses driver optimizations. Default=False.

**--preserve-metadata <True|False>, --preserve\_metadata <True|False>**

Enforces migration to preserve all file metadata when moving its contents. If set to True, host-assisted migration will not be attempted.

**--preserve-snapshots <True|False>, --preserve\_snapshots <True|False>**

Enforces migration of the share snapshots to the destination. If set to True, host-assisted migration will not be attempted.

**--writable <True|False>**

Enforces migration to keep the share writable while contents are being moved. If set to True, host-assisted migration will not be attempted.

**--nondisruptive <True|False>**

Enforces migration to be nondisruptive. If set to True, host-assisted migration will not be attempted.

**--new\_share\_network <new\_share\_network>, --new-share-network <new\_share\_network>**

Specify the new share network for the share. Do not specify this parameter if the migrating share has to be retained within its current share network.

**--new\_share\_type <new\_share\_type>, --new-share-type <new\_share\_type>**

Specify the new share type for the share. Do not specify this parameter if the migrating share has to be retained with its current share type.

**9.2.24. manila pool-list**

```
usage: manila pool-list [--host <host>] [--backend <backend>] [--pool
<pool>]
                        [--columns <columns>] [--detail]
                        [--share-type <share_type>]
```

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"

**--detail, --detailed**

Show detailed information about pools. (Default=False)

**--share-type <share\_type>, --share\_type <share\_type>, --share-type-id <share\_type>, --share\_type\_id <share\_type>**

Filter results by share type name or ID. (Default=None) Available only for microversion >= 2.23

### 9.2.25. 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.

### 9.2.26. 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.

**9.2.27. 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.

**9.2.28. 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.

**9.2.29. manila quota-show**

```
usage: manila quota-show [--tenant <tenant-id>] [--user <user-id>] [--detail]
```

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.

**--detail**

Optional flag to indicate whether to show quota in detail. Default false, available only for microversion &gt;= 2.25.

**9.2.30. 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>, --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.

### 9.2.31. 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"

### 9.2.32. 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.

### 9.2.33. 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, `None` will be used.

### 9.2.34. manila revert-to-snapshot

```
usage: manila revert-to-snapshot <snapshot>
```

Revert a share to the specified snapshot.

#### Positional arguments:

##### <snapshot>

Name or ID of the snapshot to restore. The snapshot must be the most recent one known to manila.

### 9.2.35. 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.

### 9.2.36. manila security-service-delete

```
usage: manila security-service-delete <security-service>
                                     [<security-service> ...]
```

Delete one or more security services.

**Positional arguments:**

**<security-service>**

Name or ID of the security service(s) to delete

### 9.2.37. 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"

### 9.2.38. 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.

### 9.2.39. manila security-service-update

```
usage: manila security-service-update [--dns-ip <dns-ip>] [--server
<server>]
                                     [--domain <domain>] [--user
<user>]
```

```

<name>]
[ --password <password>] [ --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.

## 9.2.40. 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'.

### 9.2.41. 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'.

### 9.2.42. 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"

### 9.2.43. 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"

**9.2.44. 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.

**9.2.45. manila share-group-create**

```
usage: manila share-group-create [--name <name>] [--description
<description>]
                                [--share-types <share_types>]
                                [--share-group-type
<share_group_type>]
                                [--share-network <share_network>]
                                [--source-share-group-snapshot
<source_share_group_snapshot>]
                                [--availability-zone <availability-
zone>]
```

Creates a new share group (Experimental).

**Optional arguments:****--name <name>**

Optional share group name. (Default=None)

**--description <description>**

Optional share group description. (Default=None)

**--share-types <share\_types>, --share\_types <share\_types>**

Comma-separated list of share types. (Default=None)

**--share-group-type <share\_group\_type>, --share\_group\_type <share\_group\_type>, --type <share\_group\_type>**

Share group type name or ID of the share group to be created. (Default=None)

**--share-network <share\_network>, --share\_network <share\_network>**

Specify share network name or id.

**--source-share-group-snapshot <source\_share\_group\_snapshot>, --source\_share\_group\_snapshot <source\_share\_group\_snapshot>**

Optional share group snapshot name or ID to create the share group from. (Default=None)

**--availability-zone <availability-zone>, --availability\_zone <availability-zone>, --az <availability-zone>**

Optional availability zone in which group should be created. (Default=None)

### 9.2.46. manila share-group-delete

```
usage: manila share-group-delete [--force] <share_group> [<share_group> ...]
```

Remove one or more share groups (Experimental).

#### Positional arguments:

**<share\_group>**

Name or ID of the share\_group(s).

#### Optional arguments:

**--force**

Attempt to force delete the share group (Default=False) (Admin only).

### 9.2.47. manila share-group-list

```
usage: manila share-group-list [--all-tenants [<0|1>]] [--name <name>]
                                [--status <status>]
                                [--share-server-id <share_server_id>]
                                [--share-group-type
<share_group_type>]
                                [--snapshot <snapshot>] [--host
<host>]
                                [--share-network <share_network>]
                                [--project-id <project_id>] [--limit
<limit>]
                                [--offset <offset>] [--sort-key
<sort_key>]
                                [--sort-dir <sort_dir>] [--columns
<columns>]
```

List share groups with filters (Experimental).



**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).

**--share-group-type <share\_group\_type>, --share-group-type-id  
<share\_group\_type>, --share\_group\_type <share\_group\_type>, --  
share\_group\_type\_id <share\_group\_type>**

Filter results by a share group type ID or name that was used for share group creation.

**--snapshot <snapshot>**

Filter results by share group snapshot name or ID that was used to create the share group.

**--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'.

**--limit <limit>**

Maximum number of share groups to return. (Default=None)

**--offset <offset>**

Start position of share group listing.

**--sort-key <sort\_key>, --sort\_key <sort\_key>**

Key to be sorted, available keys are ('id', 'name', 'status', 'host', 'user\_id', 'project\_id', 'created\_at', 'availability\_zone', 'share\_network', 'share\_network\_id', 'share\_group\_type', 'share\_group\_type\_id', 'source\_share\_group\_snapshot\_id'). 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"

### 9.2.48. manila share-group-reset-state

```
usage: manila share-group-reset-state [--state <state>] <share_group>
```

Explicitly update the state of a share group (Admin only, Experimental).

#### Positional arguments:

##### <share\_group>

Name or ID of the share group to modify.

#### Optional arguments:

##### --state <state>

Indicate which state to assign the share group. Options include available, error, creating, deleting, error\_deleting. If no state is provided, available will be used.

### 9.2.49. manila share-group-show

```
usage: manila share-group-show <share_group>
```

Show details about a share group (Experimental).

#### Positional arguments:

##### <share\_group>

Name or ID of the share group.

### 9.2.50. manila share-group-snapshot-create

```
usage: manila share-group-snapshot-create [--name <name>]
                                           [--description
<description>]
                                           <share_group>
```

Creates a new share group snapshot (Experimental).

#### Positional arguments:

##### <share\_group>

Name or ID of the share group.

#### Optional arguments:

##### --name <name>

Optional share group snapshot name. (Default=None)

##### --description <description>

Optional share group snapshot description. (Default=None)

### 9.2.51. manila share-group-snapshot-delete

```
usage: manila share-group-snapshot-delete [--force]
                                         <share_group_snapshot>
                                         [<share_group_snapshot>
...]
```

Remove one or more share group snapshots (Experimental).

#### Positional arguments:

##### <share\_group\_snapshot>

Name or ID of the share group snapshot(s) to delete.

#### Optional arguments:

##### --force

Attempt to force delete the share group snapshot(s) (Default=False) (Admin only).

### 9.2.52. manila share-group-snapshot-list

```
usage: manila share-group-snapshot-list [--all-tenants [<0|1>]]
                                         [--name <name>] [--status
<status>]
                                         [--share-group-id
<share_group_id>]
                                         [--limit <limit>] [--offset
<offset>]
                                         [--sort-key <sort_key>]
                                         [--sort-dir <sort_dir>]
                                         [--detailed DETAILED]
                                         [--columns <columns>]
```

List share group snapshots with filters (Experimental).

#### 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-group-id <share\_group\_id>, --share\_group\_id <share\_group\_id>

Filter results by share group ID.

##### --limit <limit>

Maximum number of share group snapshots to return.(Default=None)

**--offset <offset>**

Start position of share group snapshot listing.

**--sort-key <sort\_key>, --sort\_key <sort\_key>**

Key to be sorted, available keys are ('id', 'name', 'status', 'host', 'user\_id', 'project\_id', 'created\_at', 'share\_group\_id'). Default=None.

**--sort-dir <sort\_dir>, --sort\_dir <sort\_dir>**

Sort direction, available values are ('asc', 'desc'). OPTIONAL: Default=None.

**--detailed DETAILED**

Show detailed information about share group snapshots.

**--columns <columns>**

Comma separated list of columns to be displayed e.g. --columns "id,name"

### 9.2.53. manila share-group-snapshot-list-members

```
usage: manila share-group-snapshot-list-members [--columns <columns>]
<share_group_snapshot>
```

List members of a share group snapshot (Experimental).

**Positional arguments:**

**<share\_group\_snapshot>**

Name or ID of the share group snapshot.

**Optional arguments:**

**--columns <columns>**

Comma separated list of columns to be displayed e.g. --columns "id,name"

### 9.2.54. manila share-group-snapshot-reset-state

```
usage: manila share-group-snapshot-reset-state [--state <state>]
<share_group_snapshot>
```

Explicitly update the state of a share group snapshot (Admin only, Experimental).

**Positional arguments:**

**<share\_group\_snapshot>**

Name or ID of the share group snapshot.

**Optional arguments:****--state <state>**

Indicate which state to assign the share group snapshot. Options include available, error, creating, deleting, error\_deleting. If no state is provided, available will be used.

**9.2.55. manila share-group-snapshot-show**

```
usage: manila share-group-snapshot-show <share_group_snapshot>
```

Show details about a share group snapshot (Experimental).

**Positional arguments:****<share\_group\_snapshot>**

Name or ID of the share group snapshot.

**9.2.56. manila share-group-snapshot-update**

```
usage: manila share-group-snapshot-update [--name <name>]
                                           [--description
<description>]
                                           <share_group_snapshot>
```

Update a share group snapshot (Experimental).

**Positional arguments:****<share\_group\_snapshot>**

Name or ID of the share group snapshot to update.

**Optional arguments:****--name <name>**

Optional new name for the share group snapshot. (Default=None)

**--description <description>**

Optional share group snapshot description. (Default=None)

**9.2.57. manila share-group-type-access-add**

```
usage: manila share-group-type-access-add <share_group_type>
<project_id>
```

Adds share group type access for the given project (Admin only).

**Positional arguments:****<share\_group\_type>**

Share group type name or ID to add access for the given project.

**<project\_id>**

Project ID to add share group type access for.

### 9.2.58. manila share-group-type-access-list

```
usage: manila share-group-type-access-list <share_group_type>
```

Print access information about a share group type (Admin only).

**Positional arguments:**

**<share\_group\_type>**

Filter results by share group type name or ID.

### 9.2.59. manila share-group-type-access-remove

```
usage: manila share-group-type-access-remove <share_group_type>
       <project_id>
```

Removes share group type access for the given project (Admin only).

**Positional arguments:**

**<share\_group\_type>**

Share group type name or ID to remove access for the given project.

**<project\_id>**

Project ID to remove share group type access for.

### 9.2.60. manila share-group-type-create

```
usage: manila share-group-type-create [--is_public <is_public>]
       <name> <share_types>
```

Create a new share group type (Admin only).

**Positional arguments:**

**<name>**

Name of the new share group type.

**<share\_types>**

Comma-separated list of share type names or IDs.

**Optional arguments:**

**--is\_public <is\_public>, --is-public <is\_public>**

Make type accessible to the public (default true).

### 9.2.61. manila share-group-type-delete

```
usage: manila share-group-type-delete <id>
```

Delete a specific share group type (Admin only).

**Positional arguments:**

**<id>**

Name or ID of the share group type to delete.

### 9.2.62. manila share-group-type-key

```
usage: manila share-group-type-key <share_group_type> <action>
      [<key=value> [<key=value> ...]]
```

Set or unset group\_spec for a share group type (Admin only).

**Positional arguments:**

**<share\_group\_type>**

Name or ID of the share group type.

**<action>**

Actions: 'set' or 'unset'.

**<key=value>**

Group specs to set or unset (key is only necessary on unset).

### 9.2.63. manila share-group-type-list

```
usage: manila share-group-type-list [--all] [--columns <columns>]
```

Print a list of available 'share group types'.

**Optional arguments:**

**--all**

Display all share group types (Admin only).

**--columns <columns>**

Comma separated list of columns to be displayed e.g. --columns "id,name"

### 9.2.64. manila share-group-type-specs-list

-

```
usage: manila share-group-type-specs-list [--columns <columns>]
```

Print a list of 'share group types specs' (Admin Only).

**Optional arguments:**

**--columns <columns>**

Comma separated list of columns to be displayed e.g. --columns "id,name"

### 9.2.65. manila share-group-update

```
usage: manila share-group-update [--name <name>] [--description
<description>]
                                <share_group>
```

Update a share group (Experimental).

**Positional arguments:**

**<share\_group>**

Name or ID of the share group to update.

**Optional arguments:**

**--name <name>**

Optional new name for the share group. (Default=None)

**--description <description>**

Optional share group description. (Default=None)

### 9.2.66. 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"

### 9.2.67. 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.

### 9.2.68. 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.

### 9.2.69. 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"

### 9.2.70. 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, migrating,migrating\_to. If no state is provided, available will be used.

### 9.2.71. 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.

### 9.2.72. manila share-network-create

```
usage: manila share-network-create [--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:**

**--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.

### 9.2.73. manila share-network-delete

```
usage: manila share-network-delete <share-network> [<share-network>
...]
```

Delete one or more share networks.

#### Positional arguments:

##### <share-network>

Name or ID of share network(s) to be deleted.

### 9.2.74. 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>]
                                [--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.

**--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"

### 9.2.75. 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.

### 9.2.76. 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"

### 9.2.77. 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.

### 9.2.78. 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.

### 9.2.79. manila share-network-update

```
usage: manila share-network-update [--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:**

**--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. This option is deprecated and will be rejected in newer releases of OpenStack Manila.

**--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.

## 9.2.80. 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.

### 9.2.81. 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.

### 9.2.82. manila share-replica-list

```
usage: manila share-replica-list [--share-id <share_id>] [--columns <columns>]
```

List share replicas (Experimental).

**Optional arguments:**

**--share-id <share\_id>, --share\_id <share\_id>, --si <share\_id>**

List replicas belonging to share.

**--columns <columns>**

Comma separated list of columns to be displayed e.g. --columns "replica\_state,id"

### 9.2.83. 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.

### 9.2.84. 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.

### 9.2.85. 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.

### 9.2.86. 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.

### 9.2.87. manila share-replica-show

■



```
usage: manila share-replica-show <replica>
```

Show details about a replica (Experimental).

**Positional arguments:**

**<replica>**

ID of the share replica.

### 9.2.88. manila share-server-delete

```
usage: manila share-server-delete <id> [<id> ...]
```

Delete one or more share servers (Admin only).

**Positional arguments:**

**<id>**

ID of the share server(s) to delete.

### 9.2.89. manila share-server-details

```
usage: manila share-server-details <id>
```

Show share server details (Admin only).

**Positional arguments:**

**<id>**

ID of share server.

### 9.2.90. 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"

### 9.2.91. manila share-server-show

```
usage: manila share-server-show <id>
```

Show share server info (Admin only).

**Positional arguments:**

**<id>**

ID of share server.

### 9.2.92. manila show

```
usage: manila show <share>
```

Show details about a NAS share.

**Positional arguments:**

**<share>**

Name or ID of the NAS share.

### 9.2.93. 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.

### 9.2.94. manila snapshot-access-allow

```
usage: manila snapshot-access-allow <snapshot> <access_type>
<access_to>
```

-

Allow read only access to a snapshot.

**Positional arguments:**

**<snapshot>**

Name or ID of the share snapshot to allow access to.

**<access\_type>**

Access rule type (only "ip", "user"(user or group), "cert" or "cephx" are supported).

**<access\_to>**

Value that defines access.

### 9.2.95. manila snapshot-access-deny

```
usage: manila snapshot-access-deny <snapshot> <id> [<id> ...]
```

Deny access to a snapshot.

**Positional arguments:**

**<snapshot>**

Name or ID of the share snapshot to deny access to.

**<id>**

ID(s) of the access rule(s) to be deleted.

### 9.2.96. manila snapshot-access-list

```
usage: manila snapshot-access-list [--columns <columns>] <snapshot>
```

Show access list for a snapshot.

**Positional arguments:**

**<snapshot>**

Name or ID of the share snapshot to list access of.

**Optional arguments:**

**--columns <columns>**

Comma separated list of columns to be displayed e.g. --columns "access\_type,access\_to"

### 9.2.97. 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)

## 9.2.98. manila snapshot-delete

```
usage: manila snapshot-delete <snapshot> [<snapshot> ...]
```

Remove one or more snapshots.

**Positional arguments:**

**<snapshot>**

Name or ID of the snapshot(s) to delete.

## 9.2.99. manila snapshot-export-location-list

```
usage: manila snapshot-export-location-list [--columns <columns>]
<snapshot>
```

List export locations of a given snapshot.

**Positional arguments:**

**<snapshot>**

Name or ID of the snapshot.

**Optional arguments:**

**--columns <columns>**

Comma separated list of columns to be displayed e.g. `--columns "id,path"`

### 9.2.100. manila snapshot-export-location-show

```
usage: manila snapshot-export-location-show <snapshot>
      <export_location>
```

Show export location of the share snapshot.

#### Positional arguments:

##### <snapshot>

Name or ID of the snapshot.

##### <export\_location>

ID of the share snapshot export location.

### 9.2.101. manila snapshot-force-delete

```
usage: manila snapshot-force-delete <snapshot> [<snapshot> ...]
```

Attempt force-deletion of one or more snapshots. Regardless of the state (Admin only).

#### Positional arguments:

##### <snapshot>

Name or ID of the snapshot(s) to force delete.

### 9.2.102. manila snapshot-instance-export-location-list

```
usage: manila snapshot-instance-export-location-list [--columns
      <columns>]
      <instance>
```

List export locations of a given snapshot instance.

#### Positional arguments:

##### <instance>

Name or ID of the snapshot instance.

#### Optional arguments:

##### --columns <columns>

Comma separated list of columns to be displayed e.g. `--columns "id,path,is_admin_only"`

### 9.2.103. manila snapshot-instance-export-location-show

```
usage: manila snapshot-instance-export-location-show  
<snapshot_instance>  
  
<export_location>
```

Show export location of the share instance snapshot.

**Positional arguments:**

**<snapshot\_instance>**

ID of the share snapshot instance.

**<export\_location>**

ID of the share snapshot instance export location.

### 9.2.104. manila snapshot-instance-list

```
usage: manila snapshot-instance-list [--snapshot <snapshot>]  
                                     [--columns <columns>]  
                                     [--detailed <detailed>]
```

List share snapshot instances.

**Optional arguments:**

**--snapshot <snapshot>**

Filter results by share snapshot ID.

**--columns <columns>**

Comma separated list of columns to be displayed e.g. --columns "id"

**--detailed <detailed>**

Show detailed information about snapshot instances. (Default=False)

### 9.2.105. manila snapshot-instance-reset-state

```
usage: manila snapshot-instance-reset-state [--state <state>]  
                                             <snapshot_instance>
```

Explicitly update the state of a share snapshot instance.

**Positional arguments:**

**<snapshot\_instance>**

ID of the snapshot instance to modify.

**Optional arguments:**

**--state <state>**

Indicate which state to assign the snapshot instance. Options include available, error, creating, deleting, error\_deleting. If no state is provided, available will be used.

### 9.2.106. manila snapshot-instance-show

```
usage: manila snapshot-instance-show <snapshot_instance>
```

Show details about a share snapshot instance.

#### Positional arguments:

##### <snapshot\_instance>

ID of the share snapshot instance.

### 9.2.107. 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"

### 9.2.108. 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).

### 9.2.109. 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)

**9.2.110. 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.

**9.2.111. manila snapshot-show**

```
usage: manila snapshot-show <snapshot>
```

Show details about a snapshot.

**Positional arguments:****<snapshot>**

Name or ID of the snapshot.

**9.2.112. 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).

**9.2.113. 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.

**9.2.114. 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.

**9.2.115. 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.

**9.2.116. manila type-create**

```
usage: manila type-create [--snapshot_support <snapshot_support>]
                           [--create_share_from_snapshot_support
                           <create_share_from_snapshot_support>]
                           [--revert_to_snapshot_support
```

```

<revert_to_snapshot_support>]
                                [--mount_snapshot_support
<mount_snapshot_support>]
                                [--extra-specs [<key=value> [<key=value>
...]]]
                                [--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 used for filtering of back ends by their capability to create share snapshots.

**--create\_share\_from\_snapshot\_support  
<create\_share\_from\_snapshot\_support>, --create-share-from-snapshot-  
support <create\_share\_from\_snapshot\_support>**

Boolean extra spec used for filtering of back ends by their capability to create shares from snapshots.

**--revert\_to\_snapshot\_support <revert\_to\_snapshot\_support>, --revert-to-  
snapshot-support <revert\_to\_snapshot\_support>**

Boolean extra spec used for filtering of back ends by their capability to revert shares to snapshots. (Default is False).

**--mount\_snapshot\_support <mount\_snapshot\_support>, --mount-snapshot-  
support <mount\_snapshot\_support>**

Boolean extra spec used for filtering of back ends by their capability to mount share snapshots. (Default is False).

**--extra-specs [<key=value> [<key=value> ...]], --extra\_specs [<key=value>  
[<key=value> ...]]**

Extra specs key and value of share type that will be used for share type creation.  
OPTIONAL: Default=None. e.g --extra-specs thin\_provisioning='<is> True',  
replication\_type=readable.

**--is\_public <is\_public>, --is-public <is\_public>**

Make type accessible to the public (default true).

### 9.2.117. manila type-delete

```
usage: manila type-delete <id> [<id> ...]
```

Delete one or more specific share types (Admin only).

#### Positional arguments:

**<id>**

Name or ID of the share type(s) to delete.

### 9.2.118. 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).

### 9.2.119. 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"

### 9.2.120. manila unmanage

```
usage: manila unmanage <share>
```

Unmanage share (Admin only).

#### Positional arguments:

**<share>**

Name or ID of the share(s).

### 9.2.121. 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 10. NETWORKING SERVICE (NEUTRON) COMMAND-LINE CLIENT

The neutron client is the command-line interface (CLI) for the Networking service (neutron) API and its extensions.

This chapter documents **neutron** version **6.1.0**.

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

```
$ neutron help COMMAND
```

### 10.1. 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]
```

### 10.2. 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.

## 10.3. 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-delete**

Delete the auto-allocated topology of a given tenant.

**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.

**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-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.

**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**

Delete all resources that belong to a given tenant.

**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-dscp-marking-rule-create**

Create a QoS DSCP marking rule.

**qos-dscp-marking-rule-delete**

Delete a given qos dscp marking rule.

**qos-dscp-marking-rule-list**

List all QoS DSCP marking rules belonging to the specified policy.

**qos-dscp-marking-rule-show**

Show information about the given qos dscp marking rule.

**qos-dscp-marking-rule-update**

Update the given QoS DSCP marking rule.

**qos-minimum-bandwidth-rule-create**

Create a qos minimum bandwidth rule.

**qos-minimum-bandwidth-rule-delete**

Delete a given qos minimum bandwidth rule.

**qos-minimum-bandwidth-rule-list**

List all qos minimum bandwidth rules belonging to the specified policy.

**qos-minimum-bandwidth-rule-show**

Show information about the given qos minimum bandwidth rule.

**qos-minimum-bandwidth-rule-update**

Update the given qos minimum bandwidth 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.

**quota-default-show**

Show default quotas for a given tenant.

**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 for 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.

**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.

**10.3.1. neutron address-scope-create**

```
usage: neutron address-scope-create [-h]
                                     [-f]
                                     {html,json,shell,table,value,yaml}
                                     [-c COLUMN] [--max-width
                                     <integer>]
                                     [--print-empty] [--noindent]
                                     [--prefix PREFIX]
```



```
shared]
```

```
[--request-format {json}]
[--tenant-id TENANT_ID] [--
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.

### 10.3.2. neutron address-scope-delete

```
usage: neutron address-scope-delete [-h] [--request-format {json}]
ADDRESS_SCOPE [ADDRESS_SCOPE ...]
```

Delete an address scope.

#### Positional arguments:

##### ADDRESS\_SCOPE

ID(s) or name(s) 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.

### 10.3.3. neutron address-scope-list

```
usage: neutron address-scope-list [-h] [-f
{csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--noindent]
                                [--quote
{all,minimal,none,nonnumeric}]
                                [--request-format {json}] [-D] [-F
FIELD]
                                [-P SIZE] [--sort-key FIELD]
                                [--sort-dir {asc,desc}]
```

List address scopes that belong to a given tenant.

#### 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.

### 10.3.4. neutron address-scope-show

```
usage: neutron address-scope-show [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--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.

### 10.3.5. neutron address-scope-update

```
usage: neutron address-scope-update [-h] [--request-format {json}]
                                     [--name NAME] [--shared
                                     {True,False}]
                                     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**

Updated name of the address scope.

**--shared {True,False}**

Set sharing of address scope. (True means shared)

### 10.3.6. neutron agent-delete

```
usage: neutron agent-delete [-h] [--request-format {json}] AGENT [AGENT ...]
```

Delete a given agent.

#### Positional arguments:

##### AGENT

ID(s) of agent to delete.

#### Optional arguments:

##### -h, --help

show this help message and exit

##### --request-format {json}

**DEPRECATED!** Only JSON request format is supported.

### 10.3.7. neutron agent-list

```
usage: neutron agent-list [-h] [-f {csv,html,json,table,value,yaml}]
                        [-c COLUMN] [--max-width <integer>] [--
print-empty]
                        [--noindent] [--quote
{all,minimal,none,nonnumeric}]
                        [--request-format {json}] [-D] [-F FIELD]
                        [--sort-key FIELD] [--sort-dir {asc,desc}]
```

List agents.

#### 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.

##### --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.

## **10.3.8. neutron agent-show**

```
usage: neutron agent-show [-h] [-f {html,json,shell,table,value,yaml}]
                        [-c COLUMN] [--max-width <integer>] [--
print-empty]
                        [--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.

## **10.3.9. 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.

### 10.3.10. neutron auto-allocated-topology-delete

```
usage: neutron auto-allocated-topology-delete [-h] [--request-format
{json}]
                                              [--tenant-id tenant-
id]
```

Delete the auto-allocated topology of a given 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.

### 10.3.11. neutron auto-allocated-topology-show

```
usage: neutron auto-allocated-topology-show [-h]
                                              [-f]
{html,json,shell,table,value,yaml}]
                                              [-c COLUMN]
                                              [--max-width <integer>]
                                              [--print-empty] [--
noindent]
                                              [--prefix PREFIX]
                                              [--request-format
{json}]
                                              [--dry-run]
                                              [--tenant-id tenant-id]
```

■

Show the auto-allocated topology of a given tenant.

**Optional arguments:**

**-h, --help**

show this help message and exit

**--request-format {json}**

**DEPRECATED!** Only JSON request format is supported.

**--dry-run**

Validate the requirements for auto-allocated-topology. (Does not return a topology.)

**--tenant-id**

tenant-id The owner tenant ID.

### 10.3.12. neutron availability-zone-list

```
usage: neutron availability-zone-list [-h]
                                     [-f
{csv,html,json,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--print-empty] [--noindent]
                                     [--quote
{all,minimal,none,nonnumeric}]
                                     [--request-format {json}] [-D]
                                     [-F FIELD] [-P SIZE] [--sort-
key FIELD]
                                     [--sort-dir {asc,desc}]
```

List availability zones.

**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.

**10.3.13. neutron bgp-dragent-list-hosting-speaker**

```
usage: neutron bgp-dragent-list-hosting-speaker [-h]
                                                [-f]
{csv,html,json,table,value,yaml}]
                                                [-c COLUMN]
                                                [--max-width
<integer>]
                                                [--print-empty] [--
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.

**10.3.14. 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.

### 10.3.15. 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.

### 10.3.16. neutron bgp-peer-create

```
usage: neutron bgp-peer-create [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--noindent] [--prefix
```

```

PREFIX]

                                [--request-format {json}]
                                [--tenant-id TENANT_ID] --peer-ip
PEER_REMOTE_AS                 PEER_IP_ADDRESS --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.

### 10.3.17. neutron bgp-peer-delete

```

usage: neutron bgp-peer-delete [-h] [--request-format {json}]
                                BGP_PEER [BGP_PEER ...]

```

Delete a BGP peer.

#### Positional arguments:

##### BGP\_PEER

ID(s) or name(s) 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.

### 10.3.18. neutron bgp-peer-list

```
usage: neutron bgp-peer-list [-h] [-f {csv,html,json,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>]
                             [--print-empty] [--noindent]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--request-format {json}] [-D] [-F
FIELD]
                             [-P SIZE] [--sort-key FIELD]
                             [--sort-dir {asc,desc}]
```

List BGP peers.

#### 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.

### 10.3.19. neutron bgp-peer-show

```
usage: neutron bgp-peer-show [-h] [-f
{html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>]
                             [--print-empty] [--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.

### 10.3.20. 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.

### 10.3.21. neutron bgp-speaker-advertiseroute-list

```
usage: neutron bgp-speaker-advertiseroute-list [-h]
                                                [-f]
{csv,html,json,table,value,yaml}]
                                                [-c COLUMN]
                                                [--max-width]
<integer>]
                                                [--print-empty] [--]
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.

## **10.3.22. neutron bgp-speaker-create**

```
usage: neutron bgp-speaker-create [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--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.

**10.3.23. neutron bgp-speaker-delete**

```
usage: neutron bgp-speaker-delete [-h] [--request-format {json}]
                                   BGP_SPEAKER [BGP_SPEAKER ...]
```

Delete a BGP speaker.

**Positional arguments:****BGP\_SPEAKER**

ID(s) or name(s) 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.

**10.3.24. neutron bgp-speaker-list**

```
usage: neutron bgp-speaker-list [-h] [-f
{csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--noindent]
                                [--quote
{all,minimal,none,nonnumeric}]
                                [--request-format {json}] [-D] [-F
FIELD]
                                [-P SIZE] [--sort-key FIELD]
                                [--sort-dir {asc,desc}]
```

List BGP speakers.

**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.

**10.3.25. neutron bgp-speaker-list-on-dragent**

```
usage: neutron bgp-speaker-list-on-dragent [-h]
                                           [-f
{csv,html,json,table,value,yaml}]
                                           [-c COLUMN] [--max-width
<integer>]
                                           [--print-empty] [--
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.

### 10.3.26. 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.

### 10.3.27. 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.

### 10.3.28. 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.

### 10.3.29. 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.

### 10.3.30. neutron bgp-speaker-show

```
usage: neutron bgp-speaker-show [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--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.

### 10.3.31. 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.

**10.3.32. neutron dhcp-agent-list-hosting-net**

```
usage: neutron dhcp-agent-list-hosting-net [-h]
                                           [-f]
                                           {csv,html,json,table,value,yaml}]
                                           [-c COLUMN] [--max-width
<integer>]
                                           [--print-empty] [--
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.

**10.3.33. 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.

**10.3.34. 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.

### 10.3.35. neutron ext-list

```
usage: neutron ext-list [-h] [-f {csv,html,json,table,value,yaml}] [-c
COLUMN]
                        [--max-width <integer>] [--print-empty] [--
noindent]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--request-format {json}] [-D] [-F FIELD]
```

List all extensions.

#### 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.

### 10.3.36. neutron ext-show

```
usage: neutron ext-show [-h] [-f {html,json,shell,table,value,yaml}]
                        [-c COLUMN] [--max-width <integer>] [--print-
empty]
                        [--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.

### 10.3.37. neutron firewall-create

```
usage: neutron firewall-create [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--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**

ID or name of the firewall policy associated to this firewall.

**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**

ID or name of the router associated with the firewall (requires FWaaS router insertion extension to be enabled). 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.

### 10.3.38. neutron firewall-delete

```
usage: neutron firewall-delete [-h] [--request-format {json}]
                               FIREWALL [FIREWALL ...]
```

Delete a given firewall.

**Positional arguments:****FIREWALL**

ID(s) or name(s) of firewall to delete.

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

show this help message and exit

**--request-format {json}**

**DEPRECATED!** Only JSON request format is supported.

### 10.3.39. neutron firewall-list

```
usage: neutron firewall-list [-h] [-f {csv,html,json,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>]
                             [--print-empty] [--noindent]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--request-format {json}] [-D] [-F
FIELD]
                             [-P SIZE] [--sort-key FIELD]
                             [--sort-dir {asc,desc}]
```

List firewalls that belong to a given tenant.

**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.

**10.3.40. neutron firewall-policy-create**

```
usage: neutron firewall-policy-create [-h]
                                     [-f
                                     {html,json,shell,table,value,yaml}]
                                     [-c COLUMN] [--max-width
                                     <integer>]
                                     [--print-empty] [--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"`

### 10.3.41. neutron firewall-policy-delete

```
usage: neutron firewall-policy-delete [-h] [--request-format {json}]
                                     FIREWALL_POLICY
                                     [FIREWALL_POLICY ...]
```

Delete a given firewall policy.

**Positional arguments:****FIREWALL\_POLICY**

ID(s) or name(s) 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.

### 10.3.42. 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.

**10.3.43. neutron firewall-policy-list**

```
usage: neutron firewall-policy-list [-h] [-f
{csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width
<integer>]
                                [--print-empty] [--noindent]
                                [--quote
{all,minimal,none,nonnumeric}]
                                [--request-format {json}] [-D] [-
F FIELD]
                                [-P SIZE] [--sort-key FIELD]
                                [--sort-dir {asc,desc}]
```

List firewall policies that belong to a given tenant.

**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.

**10.3.44. 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**

ID or name of the firewall rule to be removed from the policy.

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

show this help message and exit

**--request-format {json}**

**DEPRECATED!** Only JSON request format is supported.

**10.3.45. neutron firewall-policy-show**

```
usage: neutron firewall-policy-show [-h]
                                     [-f
{html,json,shell,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--print-empty] [--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.

**10.3.46. 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).

### 10.3.47. neutron firewall-rule-create

```
usage: neutron firewall-rule-create [-h]
                                   [-f
                                   {html,json,shell,table,value,yaml}]
                                   [-c COLUMN] [--max-width
                                   <integer>]
                                   [--print-empty] [--noindent]
                                   [--prefix PREFIX]
                                   [--request-format {json}]
                                   [--tenant-id TENANT_ID] [--
                                   shared]
                                   [--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} [--ip-version
                                   {4,6}]
```

Create a firewall 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.

**--shared**

Set shared flag 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.

**--ip-version {4,6} IP**

version for the firewall rule (default is 4).

**10.3.48. neutron firewall-rule-delete**

```
usage: neutron firewall-rule-delete [-h] [--request-format {json}]
                                   FIREWALL_RULE [FIREWALL_RULE ...]
```

Delete a given firewall rule.

**Positional arguments:****FIREWALL\_RULE**

ID(s) or name(s) 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.

### 10.3.49. neutron firewall-rule-list

```
usage: neutron firewall-rule-list [-h] [-f
{csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--noindent]
                                [--quote
{all,minimal,none,nonnumeric}]
                                [--request-format {json}] [-D] [-F
FIELD]
                                [-P SIZE] [--sort-key FIELD]
                                [--sort-dir {asc,desc}]
```

List firewall rules that belong to a given tenant.

#### 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.

### 10.3.50. neutron firewall-rule-show

```
usage: neutron firewall-rule-show [-h] [-f
{html,json,shell,table,value,yaml}]
```



```

{json}]
[-c COLUMN] [--max-width <integer>]
[--print-empty] [--noindent]
[--prefix PREFIX] [--request-format

-FIELD]
-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.

### 10.3.51. 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.

**10.3.52. neutron firewall-show**

usage: neutron firewall-show [-h] [-f

```
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--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.

### 10.3.53. 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**

ID or name of the router associated with the firewall (requires FWaaS router insertion extension to be enabled). This option can be repeated.

**--no-routers**

Associate no routers with the firewall (requires FWaaS router insertion extension).

**--policy POLICY**

ID or name of the firewall policy associated to this firewall.

**--admin-state-up {True,False}**

Update the admin state for the firewall (True means UP).

### 10.3.54. 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**

ID or name 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.

### 10.3.55. neutron flavor-create

```
usage: neutron flavor-create [-h] [-f
```

```
{html,json,shell,table,value,yaml}]
        [-c COLUMN] [--max-width <integer>]
        [--print-empty] [--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.

### 10.3.56. neutron flavor-delete

```
usage: neutron flavor-delete [-h] [--request-format {json}]
                             FLAVOR [FLAVOR ...]
```

Delete a given Neutron service flavor.

#### Positional arguments:

##### FLAVOR

ID(s) or name(s) of flavor to delete.

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

show this help message and exit

**--request-format {json}****DEPRECATED!** Only JSON request format is supported.**10.3.57. 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**

ID or name of the flavor to be disassociated.

**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.**10.3.58. neutron flavor-list**

```
usage: neutron flavor-list [-h] [-f {csv,html,json,table,value,yaml}]
                           [-c COLUMN] [--max-width <integer>] [--
print-empty]
                           [--noindent]
                           [--quote {all,minimal,none,nonnumeric}]
                           [--request-format {json}] [-D] [-F FIELD]
                           [-P SIZE]
                           [--sort-key FIELD] [--sort-dir {asc,desc}]
```

List Neutron service flavors.

**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.

### 10.3.59. neutron flavor-profile-create

```
usage: neutron flavor-profile-create [-h]
                                   [-f
{html,json,shell,table,value,yaml}]
                                   [-c COLUMN] [--max-width
<integer>]
                                   [--print-empty] [--noindent]
                                   [--prefix PREFIX]
                                   [--request-format {json}]
                                   [--tenant-id TENANT_ID]
                                   [--description DESCRIPTION]
                                   [--driver DRIVER] [--metainfo
METAINFO]
                                   [--enabled {True,False}]
```

Create a Neutron service flavor profile.

#### 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 profile.

**--driver DRIVER**

Python module path to driver.

**--metainfo METAINFO**

Metainfo for the flavor profile.

**--enabled {True,False}**

Sets enabled flag.

### 10.3.60. neutron flavor-profile-delete

```
usage: neutron flavor-profile-delete [-h] [--request-format {json}]
                                     SERVICE_PROFILE [SERVICE_PROFILE
...]
```

Delete a given Neutron service flavor profile.

**Positional arguments:**

**SERVICE\_PROFILE**

ID(s) or name(s) 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.

### 10.3.61. neutron flavor-profile-list

```
usage: neutron flavor-profile-list [-h] [-f
{csv,html,json,table,value,yaml}]
                                   [-c COLUMN] [--max-width
<integer>]
                                   [--print-empty] [--noindent]
                                   [--quote
{all,minimal,none,nonnumeric}]
                                   [--request-format {json}] [-D] [-F
FIELD]
                                   [-P SIZE] [--sort-key FIELD]
                                   [--sort-dir {asc,desc}]
```

List Neutron service flavor profiles.

**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.

### 10.3.62. neutron flavor-profile-show

```
usage: neutron flavor-profile-show [-h]
                                  [-f
{html,json,shell,table,value,yaml}]
                                  [-c COLUMN] [--max-width
<integer>]
                                  [--print-empty] [--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.

### 10.3.63. 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.

### 10.3.64. neutron flavor-show

```
usage: neutron flavor-show [-h] [-f {html,json,shell,table,value,yaml}]
                           [-c COLUMN] [--max-width <integer>] [--
print-empty]
```

```
[--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.

### 10.3.65. 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.

### 10.3.66. 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).

### 10.3.67. neutron floatingip-create

```
usage: neutron floatingip-create [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--noindent]
                                [--prefix PREFIX] [--request-format
{json}]
                                [--tenant-id TENANT_ID]
                                [--description DESCRIPTION]
                                [--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**

ID or name of the network from which the floating IP is allocated.

#### 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 floating IP.

##### **--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)

### 10.3.68. neutron floatingip-delete

```

usage: neutron floatingip-delete [-h] [--request-format {json}]
                                FLOATINGIP [FLOATINGIP ...]

```

■

Delete a given floating IP.

**Positional arguments:**

**FLOATINGIP**

ID(s) of floatingip to delete.

**Optional arguments:**

**-h, --help**

show this help message and exit

**--request-format {json}**

**DEPRECATED!** Only JSON request format is supported.

### 10.3.69. 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.

### 10.3.70. neutron floatingip-list

```
usage: neutron floatingip-list [-h] [-f
{csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--noindent]
                                [--quote
{all,minimal,none,nonnumeric}]
                                [--request-format {json}] [-D] [-F
FIELD]
                                [-P SIZE] [--sort-key FIELD]
                                [--sort-dir {asc,desc}]
```

List floating IPs that belong to a given tenant.

**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.

**10.3.71. neutron floatingip-show**

```
usage: neutron floatingip-show [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--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.

### 10.3.72. neutron ipsec-site-connection-create

```
usage: neutron ipsec-site-connection-create [-h]
                                           [-f
{html,json,shell,table,value,yaml}]
                                           [-c COLUMN]
                                           [--max-width <integer>]
                                           [--print-empty] [--
noindent]
                                           [--prefix PREFIX]
                                           [--request-format
{json}]
                                           [--tenant-id TENANT_ID]
                                           [--admin-state-down]
                                           --vpnservice-id
VPNSERVICE
                                           --ikepolicy-id IKEPOLICY
                                           --ipsecpolicy-id
IPSECPOLICY
                                           [--name NAME]
                                           [--description
DESCRIPTION]
                                           [--dpd
action=ACTION,interval=INTERVAL,timeout=TIMEOUT]
                                           [--local-ep-group
LOCAL_EP_GROUP]
                                           [--peer-ep-group
PEER_EP_GROUP]
                                           [--peer-cidr PEER_CIDRS]
--peer-id
                                           PEER_ID --peer-address
                                           PEER_ADDRESS --psk PSK
                                           [--mtu MTU]
                                           [--initiator {bi-
directional,response-only}]
```

Create an IPsec site connection.

#### 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.

**--vpnservice-id VPNSERVICE**

VPN service instance ID associated with this connection.

**--ikepolicy-id IKEPOLICY**

IKE policy ID associated with this connection.

**--ipsecpolicy-id IPSECPOLICY**

IPsec policy ID associated with this connection.

**--name NAME**

Set friendly name for the connection.

**--description DESCRIPTION**

Set a description for the connection.

**--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.

**--peer-cidr PEER\_CIDRS**

[**DEPRECATED** in Mitaka] Remote subnet(s) in CIDR format. Cannot be specified when using endpoint groups. Only applicable, if subnet provided for VPN service.

**--peer-id PEER\_ID**

Peer router identity for authentication. Can be IPv4/IPv6 address, e-mail address, key id, or FQDN.

**--peer-address PEER\_ADDRESS**

Peer gateway public IPv4/IPv6 address or FQDN.

**--psk PSK**

Pre-shared key string.

**--mtu MTU**

MTU size for the connection, default:1500.

**--initiator {bi-directional,response-only}**

Initiator state in lowercase, default:bi-directional

**10.3.73. neutron ipsec-site-connection-delete**

```
usage: neutron ipsec-site-connection-delete [-h] [--request-format
{json}]
                                           IPSEC_SITE_CONNECTION
                                           [IPSEC_SITE_CONNECTION
...]
```

Delete a given IPsec site connection.

**Positional arguments:****IPSEC\_SITE\_CONNECTION**

ID(s) or name(s) 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.

**10.3.74. neutron ipsec-site-connection-list**

```
usage: neutron ipsec-site-connection-list [-h]
                                           [-f
{csv,html,json,table,value,yaml}]
                                           [-c COLUMN] [--max-width
<integer>]
                                           [--print-empty] [--
noindent]
                                           [--quote
{all,minimal,none,nonnumeric}]
                                           [--request-format {json}]
                                           [-D]
                                           [-F FIELD] [-P SIZE]
                                           [--sort-key FIELD]
                                           [--sort-dir {asc,desc}]
```

List IPsec site connections that belong to a given tenant.

**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.

**10.3.75. neutron ipsec-site-connection-show**

```
usage: neutron ipsec-site-connection-show [-h]
                                           [-f
{html,json,shell,table,value,yaml}]
                                           [-c COLUMN] [--max-width
<integer>]
                                           [--print-empty] [--
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.

### 10.3.76. neutron ipsec-site-connection-update

```
usage: neutron ipsec-site-connection-update [-h] [--request-format
{json}]
                                           [--admin-state-up
{True,False}]
                                           [--name NAME]
                                           [--description
DESCRIPTION]
                                           [--dpd
action=ACTION,interval=INTERVAL,timeout=TIMEOUT]
                                           [--local-ep-group
LOCAL_EP_GROUP]
                                           [--peer-ep-group
PEER_EP_GROUP]
                                           [--peer-cidr PEER_CIDRS]
                                           [--peer-id PEER_ID]
                                           [--peer-address
PEER_ADDRESS]
                                           [--psk PSK] [--mtu MTU]
                                           [--initiator {bi-
directional,response-only}]
                                           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.

**--admin-state-up {True,False}**

Update the administrative state. (True meaning "Up")

**--name NAME**

Set friendly name for the connection.

**--description DESCRIPTION**

Set a description for the connection.

**--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.

**--peer-cidr PEER\_CIDRS**

[DEPRECATED in Mitaka] Remote subnet(s) in CIDR format. Cannot be specified when using endpoint groups. Only applicable, if subnet provided for VPN service.

**--peer-id PEER\_ID**

Peer router identity for authentication. Can be IPv4/IPv6 address, e-mail address, key id, or FQDN.

**--peer-address PEER\_ADDRESS**

Peer gateway public IPv4/IPv6 address or FQDN.

**--psk PSK**

Pre-shared key string.

**--mtu MTU**

MTU size for the connection, default:1500.

**--initiator {bi-directional,response-only}**

Initiator state in lowercase, default:bi-directional

**10.3.77. neutron l3-agent-list-hosting-router**

```
usage: neutron l3-agent-list-hosting-router [-h]
                                           [-f
{csv,html,json,table,value,yaml}]
                                           [-c COLUMN]
                                           [--max-width <integer>]
                                           [--print-empty] [--
noindent]
                                           [--quote
{all,minimal,none,nonnumeric}]
```

```
{json}] [-D]                                [--request-format
                                           [-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.

### 10.3.78. 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.

### 10.3.79. 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.

### 10.3.80. neutron lb-agent-hosting-pool

```
usage: neutron lb-agent-hosting-pool [-h]
                                     [-f
                                     {csv,html,json,table,value,yaml}]
                                     [-c COLUMN] [--max-width
                                     <integer>]
                                     [--print-empty] [--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.

### 10.3.81. 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.

### 10.3.82. neutron lb-healthmonitor-create

```
usage: neutron lb-healthmonitor-create [-h]
                                        [-f
{html,json,shell,table,value,yaml}]
                                        [-c COLUMN] [--max-width
<integer>]
                                        [--print-empty] [--noindent]
                                        [--prefix PREFIX]
                                        [--request-format {json}]
                                        [--tenant-id TENANT_ID]
                                        [--admin-state-down]
                                        [--expected-codes
EXPECTED_CODES]
                                        [--http-method HTTP_METHOD]
                                        [--url-path URL_PATH] --delay
DELAY
```



```

--max-retries MAX_RETRIES --
timeout
{PING,TCP,HTTP,HTTPS}
TIMEOUT --type

```

Create a health monitor.

#### 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.

##### **--expected-codes EXPECTED\_CODES**

The list of HTTP status codes expected in response from the member to declare it healthy. This attribute can contain one value, or a list of values separated by comma, or a range of values (e.g. "200-299"). If this attribute is not specified, it defaults to "200".

##### **--http-method HTTP\_METHOD**

The HTTP method used for requests by the monitor of type HTTP.

##### **--url-path URL\_PATH**

The HTTP path used in the HTTP request used by the monitor to test a member health. This must be a string beginning with a / (forward slash).

##### **--delay DELAY**

The time in milliseconds between sending probes to members.

##### **--max-retries MAX\_RETRIES**

Number of permissible connection failures before changing the member status to INACTIVE. [1..10]

##### **--timeout TIMEOUT**

Maximum number of milliseconds for a monitor to wait for a connection to be established before it times out. The value must be less than the delay value.

##### **--type {PING,TCP,HTTP,HTTPS}**

One of the predefined health monitor types.

### 10.3.83. neutron lb-healthmonitor-delete

```
usage: neutron lb-healthmonitor-delete [-h] [--request-format {json}]
                                         HEALTH_MONITOR [HEALTH_MONITOR
...]
```

Delete a given health monitor.

**Positional arguments:**

**HEALTH\_MONITOR**

ID(s) 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.

### 10.3.84. 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 disassociate.

**POOL**

ID of the pool to be disassociated with the health monitor.

**Optional arguments:**

**-h, --help**

show this help message and exit

**--request-format {json}**

**DEPRECATED!** Only JSON request format is supported.

### 10.3.85. neutron lb-healthmonitor-list

```
usage: neutron lb-healthmonitor-list [-h]
                                       [-f
{csv,html,json,table,value,yaml}]
                                       [-c COLUMN] [--max-width
```

```

<integer>]
                                [--print-empty] [--noindent]
                                [--quote]
{all,minimal,none,nonnumeric}]
                                [--request-format {json}] [-D]
[-F FIELD]
                                [-P SIZE] [--sort-key FIELD]
                                [--sort-dir {asc,desc}]

```

List health monitors that belong to a given tenant.

#### 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.

### 10.3.86. neutron lb-healthmonitor-show

```

usage: neutron lb-healthmonitor-show [-h]
                                      [-f
{html,json,shell,table,value,yaml}]
                                      [-c COLUMN] [--max-width
<integer>]
                                      [--print-empty] [--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.

**10.3.87. 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.

**10.3.88. neutron lb-member-create**

```
usage: neutron lb-member-create [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--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

ID or name of the pool 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.

### 10.3.89. neutron lb-member-delete

```
usage: neutron lb-member-delete [-h] [--request-format {json}]
                                MEMBER [MEMBER ...]
```

Delete a given member.

#### Positional arguments:

##### MEMBER

ID(s) or name(s) of member to delete.

#### Optional arguments:

##### -h, --help

show this help message and exit

**--request-format {json}**

**DEPRECATED!** Only JSON request format is supported.

### 10.3.90. neutron lb-member-list

```
usage: neutron lb-member-list [-h] [-f
{csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--noindent]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--request-format {json}] [-D] [-F
FIELD]
                                [-P SIZE] [--sort-key FIELD]
                                [--sort-dir {asc,desc}]
```

List members that belong to a given tenant.

#### 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.

### 10.3.91. neutron lb-member-show

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

```

PREFIX]                                [--print-empty] [--noindent] [--prefix
FIELD]                                [--request-format {json}] [-D] [-F
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.

### 10.3.92. 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.

### 10.3.93. neutron lb-pool-create

```
usage: neutron lb-pool-create [-h] [-f
```

```
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--noindent] [--prefix
PREFIX]
                                [--request-format {json}]
                                [--tenant-id TENANT_ID] [--admin-state-
down]
                                [--description DESCRIPTION] --lb-method
{ROUND_ROBIN,LEAST_CONNECTIONS,SOURCE_IP} --name
NAME --protocol {HTTP,HTTPS,TCP} --
subnet-id
                                SUBNET [--provider PROVIDER]
```

Create a pool.

#### 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.

##### **--description DESCRIPTION**

Description of the pool.

##### **--lb-method {ROUND\_ROBIN,LEAST\_CONNECTIONS,SOURCE\_IP}**

The algorithm used to distribute load between the members of the pool.

##### **--name NAME**

The name of the pool.

##### **--protocol {HTTP,HTTPS,TCP}**

Protocol for balancing.

##### **--subnet-id SUBNET**

The subnet on which the members of the pool will be located.

##### **--provider PROVIDER**

Provider name of the loadbalancer service.

## 10.3.94. neutron lb-pool-delete

-



```
usage: neutron lb-pool-delete [-h] [--request-format {json}] POOL [POOL
...]
```

Delete a given pool.

**Positional arguments:**

**POOL**

ID(s) or name(s) of pool to delete.

**Optional arguments:**

**-h, --help**

show this help message and exit

**--request-format {json}**

**DEPRECATED!** Only JSON request format is supported.

### 10.3.95. neutron lb-pool-list

```
usage: neutron lb-pool-list [-h] [-f {csv,html,json,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>]
                             [--print-empty] [--noindent]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--request-format {json}] [-D] [-F FIELD]
                             [-P SIZE] [--sort-key FIELD]
                             [--sort-dir {asc,desc}]
```

List pools that belong to a given tenant.

**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.

### 10.3.96. neutron lb-pool-list-on-agent

```
usage: neutron lb-pool-list-on-agent [-h]
                                     [-f
{csv,html,json,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--print-empty] [--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.

### 10.3.97. neutron lb-pool-show

```
usage: neutron lb-pool-show [-h] [-f
{html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>]
                             [--print-empty] [--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.

### 10.3.98. neutron lb-pool-stats

```
usage: neutron lb-pool-stats [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--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.

**10.3.99. 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.

**10.3.100. neutron lb-vip-create**

```
usage: neutron lb-vip-create [-h] [-f {html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>]
                             [--print-empty] [--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**

ID or name of the pool to which this vip belongs.

**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. Valid values: a positive integer or -1 for unlimited (default).

**--description DESCRIPTION**

Description of the vip to be created.

**--name NAME**

Name of the vip to be created.

**--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.

**10.3.101. neutron lb-vip-delete**

```
usage: neutron lb-vip-delete [-h] [--request-format {json}] VIP [VIP ...]
```

Delete a given vip.

**Positional arguments:****VIP**

ID(s) or name(s) of vip to delete.

**Optional arguments:**

**-h, --help**

show this help message and exit

**--request-format {json}**

**DEPRECATED!** Only JSON request format is supported.

**10.3.102. neutron lb-vip-list**

```
usage: neutron lb-vip-list [-h] [-f {csv,html,json,table,value,yaml}]
                           [-c COLUMN] [--max-width <integer>] [--
print-empty]
                           [--noindent]
                           [--quote {all,minimal,none,nonnumeric}]
                           [--request-format {json}] [-D] [-F FIELD]
                           [-P SIZE]
                           [--sort-key FIELD] [--sort-dir {asc,desc}]
```

List vips that belong to a given tenant.

**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.

**10.3.103. neutron lb-vip-show**

```
usage: neutron lb-vip-show [-h] [-f {html,json,shell,table,value,yaml}]
                           [-c COLUMN] [--max-width <integer>] [--
print-empty]
```

```
[--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.

### 10.3.104. 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.

### 10.3.105. neutron lbaas-agent-hosting-loadbalancer

```
usage: neutron lbaas-agent-hosting-loadbalancer [-h]
[-f {csv,html,json,table,value,yaml}]
```

```

<integer>]
noindent]
{all,minimal,none,nonnumeric}]
{json}] [-D]

[-c COLUMN]
[--max-width]

[--print-empty] [--
[--quote]
[--request-format]

[-F FIELD]
LOADBALANCER

```

Get Ibaas 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.

### 10.3.106. neutron lbaas-healthmonitor-create

```

usage: neutron lbaas-healthmonitor-create [-h]
                                           [-f]
                                           {html,json,shell,table,value,yaml}]
                                           [-c COLUMN] [--max-width]
<integer>]
                                           [--print-empty] [--
noindent]
                                           [--prefix PREFIX]
                                           [--request-format {json}]
                                           [--tenant-id TENANT_ID] --
delay
                                           DELAY [--name NAME] --
timeout
                                           TIMEOUT [--http-method]
HTTP_METHOD]
                                           [--url-path URL_PATH] --

```



```

max-retries                                MAX_RETRIES
                                           [ --expected-codes
                                           [ --admin-state-down] --
type                                       {PING,TCP,HTTP,HTTPS} --
pool POOL

```

LBaaS v2 Create a healthmonitor.

#### 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.

##### **--delay DELAY**

The time in seconds between sending probes to members.

##### **--name NAME**

Name of the health monitor.

##### **--timeout TIMEOUT**

Maximum number of seconds for a monitor to wait for a connection to be established before it times out. The value must be less than the delay value.

##### **--http-method HTTP\_METHOD**

The HTTP method used for requests by the monitor of type HTTP.

##### **--url-path URL\_PATH**

The HTTP path used in the HTTP request used by the monitor to test a member health. This must be a string beginning with a / (forward slash).

##### **--max-retries MAX\_RETRIES**

Number of permissible connection failures before changing the member status to INACTIVE. [1..10].

##### **--expected-codes EXPECTED\_CODES**

The list of HTTP status codes expected in response from the member to declare it healthy. This attribute can contain one value, or a list of values separated by comma, or a range of values (e.g. "200-299"). If this attribute is not specified, it defaults to "200".

##### **--admin-state-down**

Set admin state up to false.

**--type {PING,TCP,HTTP,HTTPS}**

One of the predefined health monitor types.

**--pool POOL**

ID or name of the pool that this healthmonitor will monitor.

### 10.3.107. neutron lbaas-healthmonitor-delete

```
usage: neutron lbaas-healthmonitor-delete [-h] [--request-format
{json}]
                                           HEALTHMONITOR
[HEALTHMONITOR ...]
```

LBaaS v2 Delete a given healthmonitor.

**Positional arguments:**

**HEALTHMONITOR**

ID(s) or name(s) of healthmonitor to delete.

**Optional arguments:**

**-h, --help**

show this help message and exit

**--request-format {json}**

**DEPRECATED!** Only JSON request format is supported.

### 10.3.108. neutron lbaas-healthmonitor-list

```
usage: neutron lbaas-healthmonitor-list [-h]
                                         [-f
{csv,html,json,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--print-empty] [--noindent]
                                         [--quote
{all,minimal,none,nonnumeric}]
                                         [--request-format {json}] [-
D]
                                         [-F FIELD] [-P SIZE]
                                         [--sort-key FIELD]
                                         [--sort-dir {asc,desc}]
```

LBaaS v2 List healthmonitors that belong to a given tenant.

**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.

### 10.3.109. neutron lbaas-healthmonitor-show

```
usage: neutron lbaas-healthmonitor-show [-h]
                                         [-f
{html,json,shell,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--print-empty] [--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.

### 10.3.110. neutron lbaas-healthmonitor-update

```
usage: neutron lbaas-healthmonitor-update [-h] [--request-format
{json}]
NAME]
HTTP_METHOD]
MAX_RETRIES]
EXPECTED_CODES]
{True,False}]
HEALTHMONITOR
[--delay DELAY] [--name
[--timeout TIMEOUT]
[--http-method
[--url-path URL_PATH]
[--max-retries
[--expected-codes
[--admin-state-up
```

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.

**--delay DELAY**

The time in seconds between sending probes to members.

**--name NAME**

Name of the health monitor.

**--timeout TIMEOUT**

Maximum number of seconds for a monitor to wait for a connection to be established before it times out. The value must be less than the delay value.

**--http-method HTTP\_METHOD**

The HTTP method used for requests by the monitor of type HTTP.

**--url-path URL\_PATH**

The HTTP path used in the HTTP request used by the monitor to test a member health. This must be a string beginning with a / (forward slash).

**--max-retries MAX\_RETRIES**

Number of permissible connection failures before changing the member status to INACTIVE. [1..10].

**--expected-codes EXPECTED\_CODES**

The list of HTTP status codes expected in response from the member to declare it healthy. This attribute can contain one value, or a list of values separated by comma, or a range of values (e.g. "200-299"). If this attribute is not specified, it defaults to "200".

**--admin-state-up {True,False}**

Update the administrative state of the health monitor (True meaning "Up").

**10.3.111. neutron lbaas-l7policy-create**

```
usage: neutron lbaas-l7policy-create [-h]
                                     [-f
{html,json,shell,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--print-empty] [--noindent]
                                     [--prefix PREFIX]
                                     [--request-format {json}]
                                     [--tenant-id TENANT_ID] [--name
NAME]
                                     [--description DESCRIPTION] --
action
ACTION [--redirect-pool
REDIRECT_POOL]
                                     [--redirect-url REDIRECT_URL]
                                     [--position POSITION]
                                     [--admin-state-down] --listener
LISTENER
```

LBaaS v2 Create L7 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.

**--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-down**

Set admin state up to false.

**--listener LISTENER**

ID or name of the listener this policy belongs to.

### 10.3.112. neutron lbaas-l7policy-delete

```
usage: neutron lbaas-l7policy-delete [-h] [--request-format {json}]
                                     L7POLICY [L7POLICY ...]
```

LBaaS v2 Delete a given L7 policy.

**Positional arguments:**

**L7POLICY**

ID(s) or name(s) of l7policy to delete.

**Optional arguments:**

**-h, --help**

show this help message and exit

**--request-format {json}**

**DEPRECATED!** Only JSON request format is supported.

### 10.3.113. neutron lbaas-l7policy-list

```
usage: neutron lbaas-l7policy-list [-h] [-f
{csv,html,json,table,value,yaml}]
```

```

<integer>]
                                [-c COLUMN] [--max-width
                                [--print-empty] [--noindent]
                                [--quote
{all,minimal,none,nonnumeric}]
                                [--request-format {json}] [-D] [-F
FIELD]
                                [-P SIZE] [--sort-key FIELD]
                                [--sort-dir {asc,desc}]

```

LBaaS v2 List L7 policies that belong to a given listener.

#### 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.

### 10.3.114. neutron lbaas-l7policy-show

```

usage: neutron lbaas-l7policy-show [-h]
                                   [-f
{html,json,shell,table,value,yaml}]
                                   [-c COLUMN] [--max-width
                                   [--print-empty] [--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.

**10.3.115. 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").

**10.3.116. neutron lbaas-l7rule-create**

```
usage: neutron lbaas-l7rule-create [-h]
                                   [-f
                                   {html,json,shell,table,value,yaml}]
                                   [-c COLUMN] [--max-width
                                   <integer>]
                                   [--print-empty] [--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

### 10.3.117. neutron lbaas-l7rule-delete

```
usage: neutron lbaas-l7rule-delete [-h] [--request-format {json}]  
                                   RULE [RULE ...] L7POLICY
```

LBaaS v2 Delete a given L7 rule.

**Positional arguments:**

**RULE**

ID(s) or name(s) 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.

### 10.3.118. neutron lbaas-l7rule-list

```
usage: neutron lbaas-l7rule-list [-h] [-f
{csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--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.

### 10.3.119. neutron lbaas-l7rule-show

```
usage: neutron lbaas-l7rule-show [-h] [-f
{html,json,shell,table,value,yaml}]
```

```

{json}]
        [-c COLUMN] [--max-width <integer>]
        [--print-empty] [--noindent]
        [--prefix PREFIX] [--request-format
        [-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.

### 10.3.120. 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").

**10.3.121. neutron lbaas-listener-create**

```
usage: neutron lbaas-listener-create [-h]
                                      [-f
{html,json,shell,table,value,yaml}]
                                      [-c COLUMN] [--max-width
<integer>]
                                      [--print-empty] [--noindent]
                                      [--prefix PREFIX]
                                      [--request-format {json}]
                                      [--tenant-id TENANT_ID]
                                      [--description DESCRIPTION]
                                      [--connection-limit
CONNECTION_LIMIT]
                                      [--default-pool DEFAULT_POOL]
                                      [--admin-state-down] [--name
NAME]
                                      [--default-tls-container-ref
DEFAULT_TLS_CONTAINER_REF]
                                      [--sni-container-refs
SNI_CONTAINER_REFS [SNI_CONTAINER_REFS ...]]
```

```
protocol                                [--loadbalancer LOADBALANCER] --
{TCP,HTTP,HTTPS,TERMINATED_HTTPS}    --protocol-port PORT
```

LBaaS v2 Create a listener.

**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 listener.

**--connection-limit CONNECTION\_LIMIT**

The maximum number of connections per second allowed for the listener. Positive integer or -1 for unlimited (default).

**--default-pool DEFAULT\_POOL**

Default pool for the listener.

**--admin-state-down**

Set admin state up to false.

**--name NAME**

The name of the listener. At least one of --default-pool or --loadbalancer must be specified.

**--default-tls-container-ref DEFAULT\_TLS\_CONTAINER\_REF**

Default TLS container reference to retrieve TLS information.

**--sni-container-refs SNI\_CONTAINER\_REFS [SNI\_CONTAINER\_REFS ...]**

List of TLS container references for SNI.

**--loadbalancer LOADBALANCER**

ID or name of the load balancer.

**--protocol {TCP,HTTP,HTTPS,TERMINATED\_HTTPS}**

Protocol for the listener.

**--protocol-port PORT**

Protocol port for the listener.

### 10.3.122. neutron lbaas-listener-delete

```
usage: neutron lbaas-listener-delete [-h] [--request-format {json}]
                                     LISTENER [LISTENER ...]
```

LBaaS v2 Delete a given listener.

#### Positional arguments:

##### LISTENER

ID(s) or name(s) of listener to delete.

#### Optional arguments:

##### -h, --help

show this help message and exit

##### --request-format {json}

**DEPRECATED!** Only JSON request format is supported.

### 10.3.123. neutron lbaas-listener-list

```
usage: neutron lbaas-listener-list [-h] [-f
{csv,html,json,table,value,yaml}]
                                   [-c COLUMN] [--max-width
<integer>]
                                   [--print-empty] [--noindent]
                                   [--quote
{all,minimal,none,nonnumeric}]
                                   [--request-format {json}] [-D] [-F
FIELD]
                                   [-P SIZE] [--sort-key FIELD]
                                   [--sort-dir {asc,desc}]
```

LBaaS v2 List listeners that belong to a given tenant.

#### 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.

**10.3.124. neutron lbaas-listener-show**

```
usage: neutron lbaas-listener-show [-h]
                                   [-f
                                   {html,json,shell,table,value,yaml}]
                                   [-c COLUMN] [--max-width
                                   <integer>]
                                   [--print-empty] [--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.

**10.3.125. neutron lbaas-listener-update**

```
usage: neutron lbaas-listener-update [-h] [--request-format {json}]
                                      [--description DESCRIPTION]
```



CONNECTION\_LIMIT]

```
[--connection-limit
[--default-pool DEFAULT_POOL]
[--name NAME]
[--admin-state-up {True,False}]
LISTENER
```

LBaaS v2 Update a given listener.

**Positional arguments:**

**LISTENER**

ID or name of listener 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 of the listener.

**--connection-limit CONNECTION\_LIMIT**

The maximum number of connections per second allowed for the listener. Positive integer or -1 for unlimited (default).

**--default-pool DEFAULT\_POOL**

Default pool for the listener.

**--name NAME**

Name of the listener.

**--admin-state-up {True,False}**

Specify the administrative state of the listener. (True meaning "Up")

### 10.3.126. neutron lbaas-loadbalancer-create

```
usage: neutron lbaas-loadbalancer-create [-h]
                                         [-f
{html,json,shell,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--print-empty] [--
noindent]
                                         [--prefix PREFIX]
                                         [--request-format {json}]
                                         [--tenant-id TENANT_ID]
```

```
state-down]
```

```
[--description DESCRIPTION]
[--name NAME] [--admin-

[--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.

##### --name NAME

Name of the load balancer.

##### --admin-state-down

Set admin state up to false.

##### --provider PROVIDER

Provider name of the load balancer service.

##### --flavor FLAVOR

ID or name of the flavor.

##### --vip-address VIP\_ADDRESS

VIP address for the load balancer.

### 10.3.127. neutron lbaas-loadbalancer-delete

```
usage: neutron lbaas-loadbalancer-delete [-h] [--request-format {json}]
LOADBALANCER [LOADBALANCER
...]
```

LBaaS v2 Delete a given loadbalancer.

**Positional arguments:**

**LOADBALANCER**

ID(s) or name(s) of loadbalancer to delete.

**Optional arguments:**

**-h, --help**

show this help message and exit

**--request-format {json}**

**DEPRECATED!** Only JSON request format is supported.

### 10.3.128. neutron lbaas-loadbalancer-list

```
usage: neutron lbaas-loadbalancer-list [-h]
                                         [-f
{csv,html,json,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--print-empty] [--noindent]
                                         [--quote
{all,minimal,none,nonnumeric}]
                                         [--request-format {json}] [-
D]
                                         [-F FIELD] [-P SIZE] [--sort-
key FIELD]
                                         [--sort-dir {asc,desc}]
```

LBaaS v2 List loadbalancers that belong to a given tenant.

**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.

**10.3.129. neutron lbaas-loadbalancer-list-on-agent**

```
usage: neutron lbaas-loadbalancer-list-on-agent [-h]
                                                [-f]
{csv,html,json,table,value,yaml}]
                                                [-c COLUMN]
                                                [--max-width
<integer>]
                                                [--print-empty] [--
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.

**10.3.130. neutron lbaas-loadbalancer-show**

```
usage: neutron lbaas-loadbalancer-show [-h]
                                         [-f]
```

```
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width
<integer>]
                                [--print-empty] [--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.

### 10.3.131. neutron lbaas-loadbalancer-stats

```
usage: neutron lbaas-loadbalancer-stats [-h]
                                         [-f
{html,json,shell,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--print-empty] [--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.

**10.3.132. 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.**10.3.133. neutron lbaas-loadbalancer-update**

```
usage: neutron lbaas-loadbalancer-update [-h] [--request-format {json}]
                                         [--admin-state-up
                                         {True,False}]
                                         [--description DESCRIPTION]
                                         [--name NAME]
                                         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.

**--admin-state-up {True,False}**

Update the administrative state of the load balancer (True meaning "Up").

**--description DESCRIPTION**

Description of the load balancer.

**--name NAME**

Name of the load balancer.

### 10.3.134. neutron lbaas-member-create

```
usage: neutron lbaas-member-create [-h]
                                   [-f
                                   {html,json,shell,table,value,yaml}]
                                   [-c COLUMN] [--max-width
                                   <integer>]
                                   [--print-empty] [--noindent]
                                   [--prefix PREFIX] [--request-
                                   format {json}]
                                   [--tenant-id TENANT_ID] [--name
                                   NAME]
                                   [--weight WEIGHT] [--admin-state-
                                   down]
                                   --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.

**--name NAME**

Name of the member.

**--weight WEIGHT**

Weight of the member in the pool (default:1, [0..256]).

**--admin-state-down**

Set admin state up to false.

**--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.

### 10.3.135. neutron lbaas-member-delete

```
usage: neutron lbaas-member-delete [-h] [--request-format {json}]
                                   MEMBER [MEMBER ...] POOL
```

LBaaS v2 Delete a given member.

#### Positional arguments:

**MEMBER**

ID(s) or name(s) 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.

### 10.3.136. neutron lbaas-member-list

■



```
usage: neutron lbaas-member-list [-h] [-f
{csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--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.

### 10.3.137. neutron lbaas-member-show

```
usage: neutron lbaas-member-show [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--noindent]
```

```
{json}]
[--prefix PREFIX] [--request-format
[-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.

### 10.3.138. neutron lbaas-member-update

```
usage: neutron lbaas-member-update [-h] [--request-format {json}]
                                     [--admin-state-up {True,False}]
                                     [--name NAME] [--weight WEIGHT]
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-up {True,False}**

Update the administrative state of the member (True meaning "Up").

**--name NAME**

Name of the member.

**--weight WEIGHT**

Weight of the member in the pool (default:1, [0..256]).

### 10.3.139. neutron lbaas-pool-create

```
usage: neutron lbaas-pool-create [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--noindent]
                                [--prefix PREFIX] [--request-format
{json}]
                                [--tenant-id TENANT_ID]
                                [--description DESCRIPTION] [--name
NAME]
                                [--lb-algorithm
{ROUND_ROBIN,LEAST_CONNECTIONS,SOURCE_IP}
                                [--admin-state-down] [--listener
LISTENER]
                                [--loadbalancer LOADBALANCER] --
protocol
                                {HTTP,HTTPS,TCP}
                                [--session-persistence
type=TYPE[, cookie_name=COOKIE_NAME]]
```

LBaaS v2 Create a pool.

**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 pool.

**--name NAME**

The name of the pool.

**--lb-algorithm {ROUND\_ROBIN, LEAST\_CONNECTIONS, SOURCE\_IP}**

The algorithm used to distribute load between the members of the pool.

**--admin-state-down**

Set admin state up to false.

**--listener LISTENER**

Listener whose default-pool should be set to this pool. At least one of --listener or --loadbalancer must be specified.

**--loadbalancer LOADBALANCER**

Loadbalancer with which this pool should be associated. At least one of --listener or --loadbalancer must be specified.

**--protocol {HTTP, HTTPS, TCP}**

Protocol for balancing.

**--session-persistence**

type=TYPE[,cookie\_name=COOKIE\_NAME] The type of session persistence to use and associated cookie name.

### 10.3.140. neutron lbaas-pool-delete

```
usage: neutron lbaas-pool-delete [-h] [--request-format {json}]
                                POOL [POOL ...]
```

LBaaS v2 Delete a given pool.

**Positional arguments:**

**POOL**

ID(s) or name(s) of pool to delete.

**Optional arguments:**

**-h, --help**

show this help message and exit

**--request-format {json}**

**DEPRECATED!** Only JSON request format is supported.

### 10.3.141. neutron lbaas-pool-list

```
usage: neutron lbaas-pool-list [-h] [-f
{csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--noindent]
                                [--quote
{all,minimal,none,nonnumeric}]
                                [--request-format {json}] [-D] [-F
FIELD]
                                [-P SIZE] [--sort-key FIELD]
                                [--sort-dir {asc,desc}]
```

LBaaS v2 List pools that belong to a given tenant.

#### 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.

### 10.3.142. neutron lbaas-pool-show

```
usage: neutron lbaas-pool-show [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--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.

**10.3.143. neutron lbaas-pool-update**

```
usage: neutron lbaas-pool-update [-h] [--request-format {json}]
                                [--admin-state-up {True,False}]
                                [--session-persistence
                                type=TYPE[, cookie_name=COOKIE_NAME]
                                | --no-session-persistence]
                                [--description DESCRIPTION] [--name
                                NAME]
                                [--lb-algorithm
                                {ROUND_ROBIN, LEAST_CONNECTIONS, SOURCE_IP}]
                                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.

**--admin-state-up {True,False}**

Update the administrative state of the pool (True meaning "Up").

**--session-persistence**

type=TYPE[,cookie\_name=COOKIE\_NAME] The type of session persistence to use and associated cookie name.

**--no-session-persistence**

Clear session persistence for the pool.

**--description DESCRIPTION**

Description of the pool.

**--name NAME**

The name of the pool.

**--lb-algorithm {ROUND\_ROBIN, LEAST\_CONNECTIONS, SOURCE\_IP}**

The algorithm used to distribute load between the members of the pool.

**10.3.144. neutron meter-label-create**

```
usage: neutron meter-label-create [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--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 the metering label to be created.

**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 metering label to be created.

**--shared**

Set the label as shared.

**10.3.145. neutron meter-label-delete**

```
usage: neutron meter-label-delete [-h] [--request-format {json}]
                                METERING_LABEL [METERING_LABEL ...]
```

Delete a given metering label.

**Positional arguments:****METERING\_LABEL**

ID(s) or name(s) 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.

**10.3.146. neutron meter-label-list**

```
usage: neutron meter-label-list [-h] [-f
{csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--noindent]
                                [--quote
{all,minimal,none,nonnumeric}]
                                [--request-format {json}] [-D] [-F
FIELD]
                                [-P SIZE] [--sort-key FIELD]
                                [--sort-dir {asc,desc}]
```

List metering labels that belong to a given tenant.

**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.

**10.3.147. neutron meter-label-rule-create**

```
usage: neutron meter-label-rule-create [-h]
                                      [-f
{html,json,shell,table,value,yaml}]
                                      [-c COLUMN] [--max-width
<integer>]
                                      [--print-empty] [--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.

**10.3.148. neutron meter-label-rule-delete**

```
usage: neutron meter-label-rule-delete [-h] [--request-format {json}]
                                         METERING_LABEL_RULE
                                         [METERING_LABEL_RULE ...]
```

Delete a given metering label.

**Positional arguments:****METERING\_LABEL\_RULE**

ID(s) 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.

**10.3.149. neutron meter-label-rule-list**

```
usage: neutron meter-label-rule-list [-h]
                                       [-f
{csv,html,json,table,value,yaml}]
                                       [-c COLUMN] [--max-width
<integer>]
                                       [--print-empty] [--noindent]
                                       [--quote
{all,minimal,none,nonnumeric}]
                                       [--request-format {json}] [-D]
                                       [-F FIELD]
                                       [-P SIZE] [--sort-key FIELD]
                                       [--sort-dir {asc,desc}]
```

List metering labels that belong to a given label.

**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.

### 10.3.150. neutron meter-label-rule-show

```
usage: neutron meter-label-rule-show [-h]
                                     [-f
{html,json,shell,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--print-empty] [--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 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.

**10.3.151. neutron meter-label-show**

```
usage: neutron meter-label-show [-h] [-f {html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--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.

**10.3.152. neutron net-create**

```
usage: neutron net-create [-h] [-f {html,json,shell,table,value,yaml}]
                           [-c COLUMN] [--max-width <integer>] [--
print-empty]
                           [--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}]
```

```

[ --description DESCRIPTION]
[ --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 the network to be created.

#### 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.

##### --description DESCRIPTION

Description of network.

##### --qos-policy QOS\_POLICY

ID or name of the QoS policy that should be attached 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)

**10.3.153. neutron net-delete**

```
usage: neutron net-delete [-h] [--request-format {json}] NETWORK
[NETWORK ...]
```

Delete a given network.

**Positional arguments:****NETWORK**

ID(s) or name(s) of network to delete.

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

show this help message and exit

**--request-format {json}**

**DEPRECATED!** Only JSON request format is supported.

**10.3.154. neutron net-external-list**

```
usage: neutron net-external-list [-h] [-f
{csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--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]
```

List external networks that belong to a given tenant.

**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.

**10.3.155. neutron net-ip-availability-list**

```
usage: neutron net-ip-availability-list [-h]
                                         [-f
{csv,html,json,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--print-empty] [--noindent]
                                         [--quote
{all,minimal,none,nonnumeric}]
                                         [--request-format {json}] [-
D]
                                         [-F FIELD] [--sort-key
FIELD]
                                         [--sort-dir {asc,desc}]
                                         [--ip-version {4,6}]
                                         [--network-id NETWORK_ID]
                                         [--network-name NETWORK_NAME]
                                         [--tenant-id TENANT_ID]
```

List IP usage of networks

**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.

**--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.

### 10.3.156. neutron net-ip-availability-show

```
usage: neutron net-ip-availability-show [-h]
                                         [-f
{html,json,shell,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--print-empty] [--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.

### 10.3.157. neutron net-list

```
usage: neutron net-list [-h] [-f {csv,html,json,table,value,yaml}] [-c
```



```

COLUMN]
                                [--max-width <integer>] [--print-empty] [--
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]

```

List networks that belong to a given tenant.

#### 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.

### 10.3.158. neutron net-list-on-dhcp-agent

```

usage: neutron net-list-on-dhcp-agent [-h]
                                      [-f
{csv,html,json,table,value,yaml}]
                                      [-c COLUMN] [--max-width
<integer>]
                                      [--print-empty] [--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.

### 10.3.159. neutron net-show

```
usage: neutron net-show [-h] [-f {html,json,shell,table,value,yaml}]
                        [-c COLUMN] [--max-width <integer>] [--print-
empty]
                        [--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.

### 10.3.160. neutron net-update

```
usage: neutron net-update [-h] [--request-format {json}] [--name NAME]
                          [--description DESCRIPTION]
                          [--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.

**--name NAME**

Name of the network.

**--description DESCRIPTION**

Description of this network.

**--qos-policy QOS\_POLICY**

ID or name of the QoS policy that should be attached 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.)

### 10.3.161. neutron port-create

```
usage: neutron port-create [-h] [-f {html,json,shell,table,value,yaml}]
                           [-c COLUMN] [--max-width <integer>] [--
print-empty]
                           [--noindent] [--prefix PREFIX]
                           [--request-format {json}] [--tenant-id
TENANT_ID]
                           [--name NAME] [--description DESCRIPTION]
                           [--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**

ID or name of the network 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.

**--description DESCRIPTION**

Description 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**

ID or name of the QoS policy that should be attached 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)

**10.3.162. neutron port-delete**

```
usage: neutron port-delete [-h] [--request-format {json}] PORT [PORT
...]
```

Delete a given port.

**Positional arguments:****PORT**

ID(s) or name(s) of port to delete.

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

show this help message and exit

**--request-format {json}**

**DEPRECATED!** Only JSON request format is supported.

**10.3.163. neutron port-list**

```
usage: neutron port-list [-h] [-f {csv,html,json,table,value,yaml}]
                        [-c COLUMN] [--max-width <integer>] [--
print-empty]
                        [--noindent] [--quote
{all,minimal,none,nonnumeric}]
                        [--request-format {json}] [-D] [-F FIELD] [-
P SIZE]
                        [--sort-key FIELD] [--sort-dir {asc,desc}]
```

List ports that belong to a given tenant.

**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.

**10.3.164. neutron port-show**

```
usage: neutron port-show [-h] [-f {html,json,shell,table,value,yaml}]
                        [-c COLUMN] [--max-width <integer>] [--
print-empty]
                        [--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.

**10.3.165. neutron port-update**

```
usage: neutron port-update [-h] [--request-format {json}] [--name
NAME]
                        [--description DESCRIPTION]
                        [--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.

**--description DESCRIPTION**

Description 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**

ID or name of the QoS policy that should be attached 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.)

### 10.3.166. neutron purge

usage: neutron purge [-h] [--request-format {json}] TENANT

Delete all resources that belong to a given 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.

**10.3.167. neutron qos-available-rule-types**

```
usage: neutron qos-available-rule-types [-h]
                                         [-f
{csv,html,json,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--print-empty] [--noindent]
                                         [--quote
{all,minimal,none,nonnumeric}]
                                         [--request-format {json}] [-
D]
                                         [-F FIELD] [-P SIZE]
                                         [--sort-key FIELD]
                                         [--sort-dir {asc,desc}]
```

List available qos rule types.

**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.

### 10.3.168. neutron qos-bandwidth-limit-rule-create

```
usage: neutron qos-bandwidth-limit-rule-create [-h]
                                                [-f]
                                                {html,json,shell,table,value,yaml}]
                                                [-c COLUMN]
                                                [--max-width]
<integer>]
noindent]
                                                [--print-empty] [--
                                                --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**

Maximum bandwidth in kbps.

**--max-burst-kbps MAX\_BURST\_KBPS**

Maximum burst bandwidth in kbps.

### 10.3.169. neutron qos-bandwidth-limit-rule-delete

```
usage: neutron qos-bandwidth-limit-rule-delete [-h] [--request-format
```

`{json}]``...]``BANDWIDTH_LIMIT_RULE  
[BANDWIDTH_LIMIT_RULE``QOS_POLICY`

Delete a given qos bandwidth limit rule.

**Positional arguments:**

**BANDWIDTH\_LIMIT\_RULE**

ID(s) 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.

### 10.3.170. neutron qos-bandwidth-limit-rule-list

```
usage: neutron qos-bandwidth-limit-rule-list [-h]
                                              [-f]
{csv,html,json,table,value,yaml}]
                                              [-c COLUMN]
                                              [--max-width <integer>]
                                              [--print-empty] [--
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.

**10.3.171. neutron qos-bandwidth-limit-rule-show**

```
usage: neutron qos-bandwidth-limit-rule-show [-h]
                                              [-f
{html,json,shell,table,value,yaml}]
                                              [-c COLUMN]
                                              [--max-width <integer>]
                                              [--print-empty] [--
noindent]
                                              [--prefix PREFIX]
                                              [--request-format
{json}] [-D]
                                              [-F FIELD]
QOS_POLICY                                BANDWIDTH_LIMIT_RULE
```

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.

### 10.3.172. 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**

Maximum bandwidth in kbps.

**--max-burst-kbps MAX\_BURST\_KBPS**

Maximum burst bandwidth in kbps.

### 10.3.173. neutron qos-dscp-marking-rule-create

```
usage: neutron qos-dscp-marking-rule-create [-h]
                                           [-f
                                           {html,json,shell,table,value,yaml}]
                                           [-c COLUMN]
                                           [--max-width <integer>]
                                           [--print-empty] [--
                                           --prefix PREFIX]
                                           [--request-format
                                           {json}]
                                           [--tenant-id TENANT_ID]
                                           --dscp-mark DSCP_MARK
                                           QOS_POLICY
```

Create a QoS DSCP marking 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.

##### --dscp-mark DSCP\_MARK

DSCP mark: value can be 0, even numbers from 8-56, excluding 42, 44, 50, 52, and 54.

### 10.3.174. neutron qos-dscp-marking-rule-delete

```
usage: neutron qos-dscp-marking-rule-delete [-h] [--request-format
{json}]
                                           DSCP_MARKING_RULE
                                           [DSCP_MARKING_RULE ...]
                                           QOS_POLICY
```

Delete a given qos dscp marking rule.

#### Positional arguments:

##### DSCP\_MARKING\_RULE

ID(s) of dscp\_marking\_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.

**10.3.175. neutron qos-dscp-marking-rule-list**

```
usage: neutron qos-dscp-marking-rule-list [-h]
                                         [-f
{csv,html,json,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--print-empty] [--
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 DSCP marking 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.

**10.3.176. neutron qos-dscp-marking-rule-show**

```
usage: neutron qos-dscp-marking-rule-show [-h]
                                           [-f
{html,json,shell,table,value,yaml}]
                                           [-c COLUMN] [--max-width
<integer>]
                                           [--print-empty] [--
noindent]
                                           [--prefix PREFIX]
                                           [--request-format {json}]
                                           [-D]
                                           [-F FIELD]
QOS_POLICY                                DSCP_MARKING_RULE
```

Show information about the given qos dscp marking rule.

**Positional arguments:****DSCP\_MARKING\_RULE**

ID of dscp\_marking\_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.

### 10.3.177. neutron qos-dscp-marking-rule-update

```
usage: neutron qos-dscp-marking-rule-update [-h] [--request-format
{json}]
                                           --dscp-mark DSCP_MARK
                                           DSCP_MARKING_RULE
QOS_POLICY
```

Update the given QoS DSCP marking rule.

#### Positional arguments:

##### DSCP\_MARKING\_RULE

ID of dscp\_marking\_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.

##### --dscp-mark DSCP\_MARK

DSCP mark: value can be 0, even numbers from 8-56, excluding 42, 44, 50, 52, and 54.

### 10.3.178. neutron qos-minimum-bandwidth-rule-create

```
usage: neutron qos-minimum-bandwidth-rule-create [-h]
                                                  [-f
{html,json,shell,table,value,yaml}]
                                                  [-c COLUMN]
                                                  [--max-width
<integer>]
                                                  [--print-empty] [--
noindent]
                                                  [--prefix PREFIX]
                                                  [--request-format
{json}]
                                                  [--tenant-id
TENANT_ID]
                                                  --min-kbps MIN_KBPS
                                                  --direction
{egress}
                                                  QOS_POLICY
```

Create a qos minimum bandwidth 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.

**--min-kbps MIN\_KBPS**

QoS minimum bandwidth assurance, expressed in kilobits per second.

**--direction {egress}**

Traffic direction.

**10.3.179. neutron qos-minimum-bandwidth-rule-delete**

```
usage: neutron qos-minimum-bandwidth-rule-delete [-h]
                                                  [--request-format
{json}]
MINIMUM_BANDWIDTH_RULE
[MINIMUM_BANDWIDTH_RULE ...]
QOS_POLICY
```

Delete a given qos minimum bandwidth rule.

**Positional arguments:****MINIMUM\_BANDWIDTH\_RULE**

ID(s) of minimum\_bandwidth\_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.

### 10.3.180. neutron qos-minimum-bandwidth-rule-list

```
usage: neutron qos-minimum-bandwidth-rule-list [-h]
                                                [-f
{csv,html,json,table,value,yaml}]
                                                [-c COLUMN]
                                                [--max-width
<integer>]
                                                [--print-empty] [--
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 minimum bandwidth 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.

### 10.3.181. neutron qos-minimum-bandwidth-rule-show

```
usage: neutron qos-minimum-bandwidth-rule-show [-h]
                                                [-f]
{html,json,shell,table,value,yaml}]
                                                [-c COLUMN]
                                                [--max-width]
<integer>]
                                                [--print-empty] [--
noindent]
                                                [--prefix PREFIX]
                                                [--request-format
{json}] [-D]
                                                [-F FIELD]

MINIMUM_BANDWIDTH_RULE

QOS_POLICY
```

Show information about the given qos minimum bandwidth rule.

#### Positional arguments:

##### MINIMUM\_BANDWIDTH\_RULE

ID of minimum\_bandwidth\_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.

### 10.3.182. neutron qos-minimum-bandwidth-rule-update

```
usage: neutron qos-minimum-bandwidth-rule-update [-h]
                                                [--request-format
{json}]
```

```

{egress}
MINIMUM_BANDWIDTH_RULE
--min-kbps MIN_KBPS
--direction
QOS_POLICY

```

Update the given qos minimum bandwidth rule.

#### Positional arguments:

##### MINIMUM\_BANDWIDTH\_RULE

ID of minimum\_bandwidth\_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.

##### --min-kbps MIN\_KBPS

QoS minimum bandwidth assurance, expressed in kilobits per second.

##### --direction {egress}

Traffic direction.

### 10.3.183. neutron qos-policy-create

```

usage: neutron qos-policy-create [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--noindent]
                                [--prefix PREFIX] [--request-format
{json}]
                                [--tenant-id TENANT_ID]
                                [--description DESCRIPTION] [--
shared]
                                NAME

```

Create a qos policy.

#### Positional arguments:

##### NAME

Name of the QoS policy to be created.

**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 to be created.

**--shared**

Accessible by other tenants. Set shared to True (default is False).

**10.3.184. neutron qos-policy-delete**

```
usage: neutron qos-policy-delete [-h] [--request-format {json}]
                                POLICY [POLICY ...]
```

Delete a given qos policy.

**Positional arguments:****POLICY**

ID(s) or name(s) of policy to delete.

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

show this help message and exit

**--request-format {json}****DEPRECATED!** Only JSON request format is supported.**10.3.185. neutron qos-policy-list**

```
usage: neutron qos-policy-list [-h] [-f
{csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--noindent]
                                [--quote
{all,minimal,none,nonnumeric}]
                                [--request-format {json}] [-D] [-F
FIELD]
                                [-P SIZE] [--sort-key FIELD]
                                [--sort-dir {asc,desc}]
```

-

List QoS policies that belong to a given tenant connection.

**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.

### 10.3.186. neutron qos-policy-show

```
usage: neutron qos-policy-show [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--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.

### 10.3.187. neutron qos-policy-update

```
usage: neutron qos-policy-update [-h] [--request-format {json}] [--name
NAME]
                                [--description DESCRIPTION]
                                [--shared | --no-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 the QoS policy.

**--description DESCRIPTION**

Description of the QoS policy.

**--shared**

Accessible by other tenants. Set shared to True (default is False).

**--no-shared**

Not accessible by other tenants. Set shared to False.

### 10.3.188. neutron quota-default-show

```
usage: neutron quota-default-show [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--noindent]
                                [--prefix PREFIX] [--request-format
{json}]
                                [--tenant-id tenant-id]
```

Show default quotas for a given 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.

### 10.3.189. neutron quota-delete

```
usage: neutron quota-delete [-h] [--request-format {json}]
                             [--tenant-id tenant-id]
```

Delete defined quotas of a given 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.

### 10.3.190. neutron quota-list

```
usage: neutron quota-list [-h] [-f {csv,html,json,table,value,yaml}]
                           [-c COLUMN] [--max-width <integer>] [--
print-empty]
                           [--noindent] [--quote
{all,minimal,none,nonnumeric}]
                           [--request-format {json}]
```

List quotas of all tenants who have non-default quota values.

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

show this help message and exit

**--request-format {json}****DEPRECATED!** Only JSON request format is supported.**10.3.191. neutron quota-show**

```
usage: neutron quota-show [-h] [-f {html,json,shell,table,value,yaml}]
                           [-c COLUMN] [--max-width <integer>] [--
print-empty]
                           [--noindent] [--prefix PREFIX]
                           [--request-format {json}] [--tenant-id
tenant-id]
```

Show quotas for a given 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.

**10.3.192. neutron quota-update**

```
usage: neutron quota-update [-h] [-f
{html,json,shell,table,value,yaml}]
                           [-c COLUMN] [--max-width <integer>]
                           [--print-empty] [--noindent] [--prefix
PREFIX]
                           [--request-format {json}] [--tenant-id
tenant-id]
                           [--network networks] [--subnet subnets]
                           [--port ports] [--router routers]
                           [--floatingip floatingips]
                           [--security-group security_groups]
                           [--security-group-rule
security_group_rules]
                           [--vip vips] [--pool pools] [--member
members]
                           [--health-monitor health_monitors]
                           [--loadbalancer loadbalancers]
                           [--listener listeners]
                           [--rbac-policy rbac_policies]
```

■

Define tenant's quotas not to use defaults.

**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.

**--network**

networks The limit of networks.

**--subnet**

subnets The limit of subnets.

**--port**

ports The limit of ports.

**--router**

routers The limit of routers.

**--floatingip**

floatingips The limit of floating IPs.

**--security-group**

security\_groups The limit of security groups.

**--security-group-rule**

security\_group\_rules The limit of security groups rules.

**--vip**

vips The limit of vips.

**--pool**

pools The limit of pools.

**--member**

members The limit of pool members.

**--health-monitor**

health\_monitors The limit of health monitors.

**--loadbalancer**

loadbalancers The limit of load balancers.

### **--listener**

listeners The limit of listeners.

### **--rbac-policy**

rbac\_policies The limit of RBAC policies.

## **10.3.193. neutron rbac-create**

```
usage: neutron rbac-create [-h] [-f {html,json,shell,table,value,yaml}]
                           [-c COLUMN] [--max-width <integer>] [--
print-empty]
                           [--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.

## **10.3.194. neutron rbac-delete**

```
usage: neutron rbac-delete [-h] [--request-format {json}]
                           RBAC_POLICY [RBAC_POLICY ...]
```

Delete a RBAC policy.

**Positional arguments:**

**RBAC\_POLICY**

ID(s) 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.

### 10.3.195. neutron rbac-list

```
usage: neutron rbac-list [-h] [-f {csv,html,json,table,value,yaml}]
                        [-c COLUMN] [--max-width <integer>] [--
print-empty]
                        [--noindent] [--quote
{all,minimal,none,nonnumeric}]
                        [--request-format {json}] [-D] [-F FIELD] [-
P SIZE]
                        [--sort-key FIELD] [--sort-dir {asc,desc}]
```

List RBAC policies that belong to a given tenant.

**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.

### 10.3.196. neutron rbac-show

```
usage: neutron rbac-show [-h] [-f {html,json,shell,table,value,yaml}]
                        [-c COLUMN] [--max-width <integer>] [--
print-empty]
                        [--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.

### 10.3.197. 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.

**10.3.198. neutron router-create**

```
usage: neutron router-create [-h] [-f
{html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>]
                             [--print-empty] [--noindent] [--prefix
PREFIX]
                             [--request-format {json}] [--tenant-id
TENANT_ID]
                             [--admin-state-down] [--description
DESCRIPTION]
                             [--flavor FLAVOR] [--distributed
{True,False}]
                             [--ha {True,False}]
                             [--availability-zone-hint
AVAILABILITY_ZONE]
                             NAME
```

Create a router for a given tenant.

**Positional arguments:****NAME**

Name of the router to be created.

**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.



**--description DESCRIPTION**

Description of router.

**--flavor FLAVOR**

ID or name of flavor.

**--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).

**10.3.199. neutron router-delete**

```
usage: neutron router-delete [-h] [--request-format {json}]
                             ROUTER [ROUTER ...]
```

Delete a given router.

**Positional arguments:****ROUTER**

ID(s) or name(s) of router to delete.

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

show this help message and exit

**--request-format {json}**

**DEPRECATED!** Only JSON request format is supported.

**10.3.200. 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.

### 10.3.201. neutron router-gateway-set

```
usage: neutron router-gateway-set [-h] [--request-format {json}]
                                   [--enable-snat] [--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.

**--enable-snat**

Enable source NAT on the router gateway.

**--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.

### 10.3.202. 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.

**10.3.203. 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.

**10.3.204. neutron router-list**

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

```

[ -P SIZE]
[ --quote {all,minimal,none,nonnumeric}]
[ --request-format {json}] [-D] [-F FIELD]
[ --sort-key FIELD] [ --sort-dir {asc,desc}]

```

List routers that belong to a given tenant.

#### 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.

### 10.3.205. neutron router-list-on-l3-agent

```

usage: neutron router-list-on-l3-agent [-h]
                                         [-f
{csv,html,json,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--print-empty] [--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.

**10.3.206. neutron router-port-list**

```
usage: neutron router-port-list [-h] [-f
{csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--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 the 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.

**10.3.207. neutron router-show**

```
usage: neutron router-show [-h] [-f {html,json,shell,table,value,yaml}]
                           [-c COLUMN] [--max-width <integer>] [--
print-empty]
                           [--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.

**10.3.208. neutron router-update**

```
usage: neutron router-update [-h] [--request-format {json}] [--name
NAME]
                           [--description DESCRIPTION]
```

```

[ --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**

Updated name of the router.

**--description DESCRIPTION**

Description of router.

**--admin-state-up {True,False}**

Specify the administrative state of the router (True means "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.

### 10.3.209. neutron security-group-create

```

usage: neutron security-group-create [-h]
                                     [-f
{html,json,shell,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--print-empty] [--noindent]
                                     [--prefix PREFIX]

```

```
[--request-format {json}]
[--tenant-id TENANT_ID]
[--description DESCRIPTION]
NAME
```

Create a security group.

**Positional arguments:**

**NAME**

Name of the security group to be created.

**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 security group to be created.

### 10.3.210. neutron security-group-delete

```
usage: neutron security-group-delete [-h] [--request-format {json}]
                                     SECURITY_GROUP [SECURITY_GROUP
...]
```

Delete a given security group.

**Positional arguments:**

**SECURITY\_GROUP**

ID(s) or name(s) 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.

### 10.3.211. neutron security-group-list

■



```
usage: neutron security-group-list [-h] [-f
{csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width
<integer>]
                                [--print-empty] [--noindent]
                                [--quote
{all,minimal,none,nonnumeric}]
                                [--request-format {json}] [-D] [-F
FIELD]
                                [-P SIZE] [--sort-key FIELD]
                                [--sort-dir {asc,desc}]
```

List security groups that belong to a given tenant.

#### 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.

### 10.3.212. neutron security-group-rule-create

```
usage: neutron security-group-rule-create [-h]
                                          [-f
{html,json,shell,table,value,yaml}]
                                          [-c COLUMN] [--max-width
<integer>]
                                          [--print-empty] [--
noindent]
                                          [--prefix PREFIX]
                                          [--request-format {json}]
                                          [--tenant-id TENANT_ID]
```

DESCRIPTION]	[--description
{ingress,egress}]	[--direction
	[--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

ID or name of the security group to which the rule is added.

#### 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 rule.

##### --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**

ID or name of the remote security group to which the rule is applied.

### 10.3.213. neutron security-group-rule-delete

```
usage: neutron security-group-rule-delete [-h] [--request-format
{json}]
                                         SECURITY_GROUP_RULE
                                         [SECURITY_GROUP_RULE ...]
```

Delete a given security group rule.

**Positional arguments:**

**SECURITY\_GROUP\_RULE**

ID(s) 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.

### 10.3.214. neutron security-group-rule-list

```
usage: neutron security-group-rule-list [-h]
                                         [-f
{csv,html,json,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--print-empty] [--noindent]
                                         [--quote
{all,minimal,none,nonnumeric}]
                                         [--request-format {json}] [-
D]
                                         [-F FIELD] [-P SIZE]
                                         [--sort-key FIELD]
                                         [--sort-dir {asc,desc}]
                                         [--no-nameconv]
```

List security group rules that belong to a given tenant.

**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.

**--no-nameconv**

Do not convert security group ID to its name.

### 10.3.215. neutron security-group-rule-show

```
usage: neutron security-group-rule-show [-h]
                                         [-f
{html,json,shell,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--print-empty] [--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.

**10.3.216. neutron security-group-show**

```
usage: neutron security-group-show [-h]
                                   [-f
                                   {html,json,shell,table,value,yaml}]
                                   [-c COLUMN] [--max-width
                                   <integer>]
                                   [--print-empty] [--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.

**10.3.217. 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

Updated name of the security group.

##### --description DESCRIPTION

Updated description of the security group.

### 10.3.218. neutron service-provider-list

```
usage: neutron service-provider-list [-h]
                                     [-f
{csv,html,json,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--print-empty] [--noindent]
                                     [--quote
{all,minimal,none,nonnumeric}]
                                     [--request-format {json}] [-D]
                                     [-F FIELD]
                                     [-P SIZE] [--sort-key FIELD]
                                     [--sort-dir {asc,desc}]
```

List service providers.

#### 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.

**10.3.219. neutron subnet-create**

```
usage: neutron subnet-create [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--noindent] [--prefix
PREFIX]
                                [--request-format {json}] [--tenant-id
TENANT_ID]
                                [--name NAME] [--description
DESCRIPTION]
                                [--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]
                                [--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] [--segment
SEGMENT]
                                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.

**--description DESCRIPTION**

Description of this subnet.

**--gateway GATEWAY\_IP**

Gateway IP of this subnet.

**--no-gateway**

Do not configure a gateway for this subnet.

**--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.

**--segment SEGMENT**

ID of segment with which this subnet will be associated.

### 10.3.220. neutron subnet-delete

```
usage: neutron subnet-delete [-h] [--request-format {json}]
                             SUBNET [SUBNET ...]
```

Delete a given subnet.

#### Positional arguments:

##### SUBNET

ID(s) or name(s) of subnet to delete.

#### Optional arguments:

**-h, --help**

show this help message and exit

**--request-format {json}**

**DEPRECATED!** Only JSON request format is supported.

### 10.3.221. neutron subnet-list

```
usage: neutron subnet-list [-h] [-f {csv,html,json,table,value,yaml}]
                           [-c COLUMN] [--max-width <integer>] [--
print-empty]
                           [--noindent]
                           [--quote {all,minimal,none,nonnumeric}]
                           [--request-format {json}] [-D] [-F FIELD]
                           [-P SIZE]
                           [--sort-key FIELD] [--sort-dir {asc,desc}]
```

List subnets that belong to a given tenant.

#### 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.

### 10.3.222. neutron subnet-show

```
usage: neutron subnet-show [-h] [-f {html,json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
                             print-empty]
                             [--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.

**10.3.223. neutron subnet-update**

```
usage: neutron subnet-update [-h] [--request-format {json}] [--name
NAME]
                        [--description DESCRIPTION]
                        [--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]
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.

**--description DESCRIPTION**

Description of this subnet.

**--gateway GATEWAY\_IP**

Gateway IP of this subnet.

**--no-gateway**

Do not configure a gateway for this subnet.

**--allocation-pool**

start=IP\_ADDR,end=IP\_ADDR Allocation pool IP addresses for this subnet (This option can be repeated).

**--host-route**

destination=CIDR,nextthop=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.

### 10.3.224. neutron subnetpool-create

```
usage: neutron subnetpool-create [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--noindent]
                                [--prefix PREFIX] [--request-format
{json}]
                                [--tenant-id TENANT_ID]
                                [--description DESCRIPTION]
                                [--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 the subnetpool to be created.

**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 subnetpool.

**--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.

### 10.3.225. neutron subnetpool-delete

```
usage: neutron subnetpool-delete [-h] [--request-format {json}]
                                SUBNETPOOL [SUBNETPOOL ...]
```

Delete a given subnetpool.

**Positional arguments:**

**SUBNETPOOL**

ID(s) or name(s) of subnetpool to delete.

**Optional arguments:**

**-h, --help**

show this help message and exit

**--request-format {json}**

**DEPRECATED!** Only JSON request format is supported.

### 10.3.226. neutron subnetpool-list

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

```

                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--noindent]
                                [--quote
{all,minimal,none,nonnumeric}]
                                [--request-format {json}] [-D] [-F
FIELD]
                                [-P SIZE] [--sort-key FIELD]
                                [--sort-dir {asc,desc}]

```

List subnetpools that belong to a given tenant.

#### 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.

### 10.3.227. neutron subnetpool-show

```

usage: neutron subnetpool-show [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--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.

**10.3.228. neutron subnetpool-update**

```
usage: neutron subnetpool-update [-h] [--request-format {json}]
                                [--description DESCRIPTION]
                                [--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.

**--description DESCRIPTION**

Description of subnetpool.

**--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**

Updated name of the subnetpool.

**--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.

### 10.3.229. neutron tag-add

```
usage: neutron tag-add [-h] [--request-format {json}] --resource-type
                        {network} --resource RESOURCE --tag TAG
```

Add a tag into the resource.

#### Optional arguments:

**-h, --help**

show this help message and exit

**--request-format {json}**

**DEPRECATED!** Only JSON request format is supported.

**--resource-type {network}**

Resource Type.

**--resource RESOURCE**

Resource name or ID.

**--tag TAG**

Tag to be added.



### 10.3.230. neutron tag-remove

```
usage: neutron tag-remove [-h] [--request-format {json}] --resource-
type {network} --resource RESOURCE [--all | --
tag TAG]
```

Remove a tag on the resource.

#### Optional arguments:

##### **-h, --help**

show this help message and exit

##### **--request-format {json}**

**DEPRECATED!** Only JSON request format is supported.

##### **--resource-type {network}**

Resource Type.

##### **--resource RESOURCE**

Resource name or ID.

##### **--all**

Remove all tags on the resource.

##### **--tag TAG**

Tag to be removed.

### 10.3.231. neutron tag-replace

```
usage: neutron tag-replace [-h] [--request-format {json}] --resource-
type {network} --resource RESOURCE --tag TAG
```

Replace all tags on the resource.

#### Optional arguments:

##### **-h, --help**

show this help message and exit

##### **--request-format {json}**

**DEPRECATED!** Only JSON request format is supported.

##### **--resource-type {network}**

Resource Type.

##### **--resource RESOURCE**

Resource name or ID.

**--tag TAG**

Tag (This option can be repeated).

### 10.3.232. neutron vpn-endpoint-group-create

```
usage: neutron vpn-endpoint-group-create [-h]
                                         [-f
{html,json,shell,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--print-empty] [--
noindent]
                                         [--prefix PREFIX]
                                         [--request-format {json}]
                                         [--tenant-id TENANT_ID] [--
name NAME]
                                         [--description DESCRIPTION]
                                         --type
                                         TYPE --value ENDPOINTS
```

Create a VPN endpoint 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.

**--name NAME**

Set a name for the endpoint group.

**--description DESCRIPTION**

Set a description for the endpoint group.

**--type TYPE**

Type of endpoints in group (e.g. subnet, cidr, vlan).

**--value ENDPOINTS**

Endpoint(s) for the group. Must all be of the same type.

### 10.3.233. neutron vpn-endpoint-group-delete

```
usage: neutron vpn-endpoint-group-delete [-h] [--request-format {json}]
                                         ENDPOINT_GROUP
[ENDPOINT_GROUP ...]
```

Delete a given VPN endpoint group.

#### Positional arguments:

##### ENDPOINT\_GROUP

ID(s) or name(s) 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.

### 10.3.234. neutron vpn-endpoint-group-list

```
usage: neutron vpn-endpoint-group-list [-h]
                                         [-f
{csv,html,json,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--print-empty] [--noindent]
                                         [--quote
{all,minimal,none,nonnumeric}]
                                         [--request-format {json}] [-
D]
                                         [-F FIELD] [-P SIZE] [--sort-
key FIELD]
                                         [--sort-dir {asc,desc}]
```

List VPN endpoint groups that belong to a given tenant.

#### 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.

**10.3.235. neutron vpn-endpoint-group-show**

```
usage: neutron vpn-endpoint-group-show [-h]
                                         [-f
{html,json,shell,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--print-empty] [--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.

**10.3.236. 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.

### 10.3.237. neutron vpn-ikepolicy-create

```
usage: neutron vpn-ikepolicy-create [-h]
                                     [-f
                                     {html,json,shell,table,value,yaml}]
                                     [-c COLUMN] [--max-width
                                     <integer>]
                                     [--print-empty] [--noindent]
                                     [--prefix PREFIX]
                                     [--request-format {json}]
                                     [--tenant-id TENANT_ID]
                                     [--description DESCRIPTION]
                                     [--auth-algorithm
                                     {sha1,sha256,sha384,sha512}]
                                     [--encryption-algorithm
                                     ENCRYPTION_ALGORITHM]
                                     [--phase1-negotiation-mode
                                     {main}]
                                     [--ike-version {v1,v2}] [--pfs
                                     PFS]
                                     [--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, sha256, sha384, sha512}**

Authentication algorithm, default:sha1.

**--encryption-algorithm ENCRYPTION\_ALGORITHM**

Encryption algorithm, default:aes-128.

**--phase1-negotiation-mode {main}**

IKE Phase1 negotiation mode, default:main.

**--ike-version {v1,v2}**

IKE version for the policy, default:v1.

**--pfs PFS**

Perfect Forward Secrecy, default:group5.

**--lifetime**

units=UNITS,value=VALUE IKE lifetime attributes. 'units'-seconds, default:seconds. 'value'-non negative integer, default:3600.

**10.3.238. neutron vpn-ikepolicy-delete**

```
usage: neutron vpn-ikepolicy-delete [-h] [--request-format {json}]
                                     IKEPOLICY [IKEPOLICY ...]
```

Delete a given IKE policy.

**Positional arguments:****IKEPOLICY**

ID(s) or name(s) 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.

### 10.3.239. neutron vpn-ikepolicy-list

```
usage: neutron vpn-ikepolicy-list [-h] [-f
{csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--noindent]
                                [--quote
{all,minimal,none,nonnumeric}]
                                [--request-format {json}] [-D] [-F
FIELD]
                                [-P SIZE] [--sort-key FIELD]
                                [--sort-dir {asc,desc}]
```

List IKE policies that belong to a tenant.

#### 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.

### 10.3.240. neutron vpn-ikepolicy-show

```
usage: neutron vpn-ikepolicy-show [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--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.

### 10.3.241. neutron vpn-ikepolicy-update

```
usage: neutron vpn-ikepolicy-update [-h] [--request-format {json}]
DESCRIPTION
                                [--name NAME] [--description
                                DESCRIPTION]
                                [--auth-algorithm
{sha1,sha256,sha384,sha512}]
                                [--encryption-algorithm
                                ENCRYPTION_ALGORITHM]
                                [--phase1-negotiation-mode
{main}]
                                [--ike-version {v1,v2}] [--pfs
                                PFS]
                                [--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.

**--name NAME**

Updated name of the IKE policy.

**--description DESCRIPTION**

Description of the IKE policy.

**--auth-algorithm {sha1, sha256, sha384, sha512}**

Authentication algorithm, default:sha1.

**--encryption-algorithm ENCRYPTION\_ALGORITHM**

Encryption algorithm, default:aes-128.

**--phase1-negotiation-mode {main}**

IKE Phase1 negotiation mode, default:main.

**--ike-version {v1,v2}**

IKE version for the policy, default:v1.

**--pfs PFS**

Perfect Forward Secrecy, default:group5.

**--lifetime**

units=UNITS,value=VALUE IKE lifetime attributes. 'units'-seconds, default:seconds. 'value'-non negative integer, default:3600.

**10.3.242. neutron vpn-ipsecpolicy-create**

```
usage: neutron vpn-ipsecpolicy-create [-h]
                                      [-f
{html,json,shell,table,value,yaml}]
                                      [-c COLUMN] [--max-width
<integer>]
                                      [--print-empty] [--noindent]
                                      [--prefix PREFIX]
                                      [--request-format {json}]
                                      [--tenant-id TENANT_ID]
```

<code>{sha1, sha256, sha384, sha512}</code>	<code>[--auth-algorithm</code>
	<code>[--description DESCRIPTION]</code>
<code>{tunnel, transport}</code>	<code>[--encapsulation-mode</code>
<code>ENCRYPTION_ALGORITHM</code>	<code>[--encryption-algorithm</code>
<code>units=UNITS, value=VALUE]</code>	<code>[--lifetime</code>
	<code>[--pfs PFS]</code>
<code>{esp, ah, ah-esp}</code>	<code>[--transform-protocol</code>
	<code>NAME</code>

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.

##### --auth-algorithm {sha1, sha256, sha384, sha512}

Authentication algorithm for IPsec policy, default:sha1.

##### --description DESCRIPTION

Description of the IPsec policy.

##### --encapsulation-mode {tunnel, transport}

Encapsulation mode for IPsec policy, default:tunnel.

##### --encryption-algorithm ENCRYPTION\_ALGORITHM

Encryption algorithm for IPsec policy, default:aes-128.

##### --lifetime

`units=UNITS,value=VALUE` IPsec lifetime attributes. 'units'-seconds, default:seconds.  
'value'-non negative integer, default:3600.

##### --pfs PFS

Perfect Forward Secrecy for IPsec policy, default:group5.

**--transform-protocol {esp, ah, ah-esp}**

Transform protocol for IPsec policy, default:esp.

### 10.3.243. neutron vpn-ipsecpolicy-delete

```
usage: neutron vpn-ipsecpolicy-delete [-h] [--request-format {json}]
                                         IPSECPOLICY [IPSECPOLICY ...]
```

Delete a given IPsec policy.

**Positional arguments:**

**IPSECPOLICY**

ID(s) or name(s) 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.

### 10.3.244. neutron vpn-ipsecpolicy-list

```
usage: neutron vpn-ipsecpolicy-list [-h] [-f
{csv,html,json,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--print-empty] [--noindent]
                                     [--quote
{all,minimal,none,nonnumeric}]
                                     [--request-format {json}] [-D] [-
F FIELD]
                                     [-P SIZE] [--sort-key FIELD]
                                     [--sort-dir {asc,desc}]
```

List IPsec policies that belong to a given tenant connection.

**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.

**10.3.245. neutron vpn-ipsecpolicy-show**

```
usage: neutron vpn-ipsecpolicy-show [-h]
                                     [-f
{html,json,shell,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--print-empty] [--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.

**10.3.246. neutron vpn-ipsecpolicy-update**

```
usage: neutron vpn-ipsecpolicy-update [-h] [--request-format {json}]
                                     [--name NAME]
                                     [--auth-algorithm
                                     {sha1,sha256,sha384,sha512}]
                                     [--description DESCRIPTION]
                                     [--encapsulation-mode
                                     {tunnel,transport}]
                                     [--encryption-algorithm
                                     ENCRYPTION_ALGORITHM]
                                     [--lifetime
                                     units=UNITS,value=VALUE]
                                     [--pfs PFS]
                                     [--transform-protocol
                                     {esp,ah,ah-esp}]
                                     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.

##### --name NAME

Updated name of the IPsec policy.

##### --auth-algorithm {sha1,sha256,sha384,sha512}

Authentication algorithm for IPsec policy, default:sha1.

##### --description DESCRIPTION

Description of the IPsec policy.

##### --encapsulation-mode {tunnel,transport}

Encapsulation mode for IPsec policy, default:tunnel.

##### --encryption-algorithm ENCRYPTION\_ALGORITHM

Encryption algorithm for IPsec policy, default:aes-128.

##### --lifetime

units=UNITS,value=VALUE IPsec lifetime attributes. 'units'-seconds, default:seconds.  
'value'-non negative integer, default:3600.

**--pfs PFS**

Perfect Forward Secrecy for IPsec policy, default:group5.

**--transform-protocol {esp, ah, ah-esp}**

Transform protocol for IPsec policy, default:esp.

**10.3.247. neutron vpn-service-create**

```
usage: neutron vpn-service-create [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--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**

Name for the VPN service.

**--description DESCRIPTION**

Description for the VPN service.

### 10.3.248. neutron vpn-service-delete

```
usage: neutron vpn-service-delete [-h] [--request-format {json}]
                                VPNSERVICE [VPNSERVICE ...]
```

Delete a given VPN service.

#### Positional arguments:

##### VPNSERVICE

ID(s) or name(s) 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.

### 10.3.249. neutron vpn-service-list

```
usage: neutron vpn-service-list [-h] [-f
{csv,html,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--noindent]
                                [--quote
{all,minimal,none,nonnumeric}]
                                [--request-format {json}] [-D] [-F
FIELD]
                                [-P SIZE] [--sort-key FIELD]
                                [--sort-dir {asc,desc}]
```

List VPN service configurations that belong to a given tenant.

#### 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.

## **10.3.250. neutron vpn-service-show**

```
usage: neutron vpn-service-show [-h] [-f
{html,json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--print-empty] [--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.

## **10.3.251. neutron vpn-service-update**

```
usage: neutron vpn-service-update [-h] [--request-format {json}] [--
name NAME]
                                [--description DESCRIPTION]
                                [--admin-state-up {True,False}]
                                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.

**--name NAME**

Name for the VPN service.

**--description DESCRIPTION**

Description for the VPN service.

**--admin-state-up {True,False}**

Update the admin state for the VPN Service.(True means UP)

## CHAPTER 11. 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
```

### 11.1. NEUTRON-DEBUG USAGE

```
usage: neutron-debug [--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] [--config-file
CONFIG_FILE]
                    <subcommand> ...
```

#### 11.1.1. 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 an all-in-one command to ping all fixed IPs in a specified network.

**11.2. NEUTRON-DEBUG 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.

**--config-file CONFIG\_FILE**

Config file for interface driver (You may also use l3\_agent.ini)

## 11.3. 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.

### 11.3.1. Positional arguments

**NET ID**

ID of the network in which the probe will be created.

## 11.4. NEUTRON-DEBUG PROBE-LIST COMMAND

```
usage: neutron-debug probe-list
```

List probes.

## 11.5. NEUTRON-DEBUG PROBE-CLEAR COMMAND

```
usage: neutron-debug probe-clear
```

Clear all probes.

## 11.6. NEUTRON-DEBUG PROBE-DELETE COMMAND

```
usage: neutron-debug probe-delete <port-id>
```

-

Remove a probe.

### 11.6.1. Positional arguments

**<port-id>**

ID of the probe to delete.

## 11.7. NEUTRON-DEBUG PROBE-EXEC COMMAND

usage: neutron-debug probe-exec <port-id> <command>

Execute commands in the namespace of the probe

## 11.8. NEUTRON-DEBUG PING-ALL COMMAND

usage: neutron-debug ping-all <port-id> --timeout <number>

All-in-one command to ping all fixed IPs in a specified network. A probe creation is not needed for this command. A new probe is created automatically. It will, however, need to be deleted manually when it is no longer needed. When there are multiple networks, the newly created probe will be attached to a random network and thus the ping will take place from within that random network.

### 11.8.1. Positional arguments

**<port-id>**

ID of the port to use.

### 11.8.2. Optional arguments

**--timeout <timeout in seconds>**

Optional ping timeout.

## 11.9. 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 12. NEUTRON-SANITY-CHECK COMMAND-LINE CLIENT

The **neutron-sanity-check** client is a tool that checks various sanity about the Networking service.

This chapter documents **neutron-sanity-check** version **9.0.0**.

### 12.1. NEUTRON-SANITY-CHECK USAGE

```
usage: neutron-sanity-check [-h] [--arp_header_match] [--arp_responder]
                             [--config-dir DIR] [--config-file PATH]
                             [--debug]
                             [--dhcp_release6] [--dibbler_version]
                             [--dnsmasq_version] [--
ebtables_installed]
                             [--icmpv6_header_match] [--
ip6tables_installed]
                             [--iproute2_vxlan] [--ipset_installed]
                             [--keepalived_ipv6_support]
                             [--log-config-append PATH]
                             [--log-date-format DATE_FORMAT]
                             [--log-dir LOG_DIR] [--log-file PATH]
                             [--noarp_header_match] [--
noarp_responder]
                             [--nodebug] [--nodhcp_release6]
                             [--nodibbler_version] [--
nodnsmasq_version]
                             [--noebtables_installed] [--
noicmpv6_header_match]
                             [--noip6tables_installed] [--
noiproute2_vxlan]
                             [--noipset_installed]
                             [--nokeepalived_ipv6_support] [--
nonova_notify]
                             [--noovs_conntrack] [--noovs_geneve]
                             [--noovs_patch] [--noovs_vxlan] [--
noovsdb_native]
                             [--noread_netns] [--nouse-syslog] [--
nova_notify]
                             [--noverbose] [--
novf_extended_management]
                             [--novf_management] [--nowatch-log-file]
                             [--ovs_conntrack] [--ovs_geneve] [--
ovs_patch]
                             [--ovs_vxlan] [--ovsdb_native] [--
read_netns]
                             [--state_path STATE_PATH]
                             [--syslog-log-facility
SYSLOG_LOG_FACILITY]
                             [--use-syslog] [--verbose] [--version]
                             [--vf_extended_management] [--
vf_management]
                             [--watch-log-file]
```



■

## 12.2. NEUTRON-SANITY-CHECK OPTIONAL ARGUMENTS

### **-h, --help**

show this help message and exit

### **--arp\_header\_match**

Check for ARP header match support

### **--arp\_responder**

Check for ARP responder support

### **--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**

Print debugging output (set logging level to **DEBUG** instead of default **INFO** level).

### **--dhcp\_release6**

Check dhcp\_release6 installation

### **--dibbler\_version**

Check minimal dibbler version

### **--dnsmasq\_version**

Check minimal dnsmasq version

### **--ebtables\_installed**

Check ebtables installation

### **--icmpv6\_header\_match**

Check for ICMPv6 header match support

### **--ip6tables\_installed**

Check ip6tables installation

### **--iproute2\_vxlan**

Check for iproute2 vxlan support

### **--ipset\_installed**

Check ipset installation

**--keepalived\_ipv6\_support**

Check keepalived IPv6 support

**--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**

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 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.

**--noarp\_header\_match**

The inverse of **--arp\_header\_match**

**--noarp\_responder**

The inverse of **--arp\_responder**

**--nodebug**

The inverse of **--debug**

**--nodhcp\_release6**

The inverse of **--dhcp\_release6**

**--nodibbler\_version**

The inverse of **--dibbler\_version**

**--nodnsmasq\_version**

The inverse of **--dnsmasq\_version**

**--noebtables\_installed**

The inverse of **--ebtables\_installed**

**--noicmpv6\_header\_match**

The inverse of **--icmpv6\_header\_match**

**--noip6tables\_installed**

The inverse of --ip6tables\_installed

**--noiproute2\_vxlan**

The inverse of --iproute2\_vxlan

**--noipset\_installed**

The inverse of --ipset\_installed

**--nokeepalived\_ipv6\_support**

The inverse of --keepalived\_ipv6\_support

**--nonova\_notify**

The inverse of --nova\_notify

**--noovs\_conntrack**

The inverse of --ovs\_conntrack

**--noovs\_geneve**

The inverse of --ovs\_geneve

**--noovs\_patch**

The inverse of --ovs\_patch

**--noovs\_vxlan**

The inverse of --ovs\_vxlan

**--noovsdb\_native**

The inverse of --ovsdb\_native

**--noread\_netns**

The inverse of --read\_netns

**--nouse-syslog**

The inverse of --use-syslog

**--nova\_notify**

Check for nova notification support

**--noverbose**

The inverse of --verbose

**--novf\_extended\_management**

The inverse of --vf\_extended\_management

**--novf\_management**

The inverse of --vf\_management

**--nowatch-log-file**

The inverse of --watch-log-file

**--ovs\_geneve**

Check for OVS Geneve support

**--ovs\_patch**

Check for patch port support

**--ovs\_vxlan**

Check for OVS vxlan support

**--ovsdb\_native**

Check ovsdb native interface support

**--read\_netns**

Check netns permission settings

**--state\_path STATE\_PATH**

Where to store Neutron state files. This directory must be writable by the agent.

**--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

**--vf\_extended\_management**

Check for VF extended management support

**--vf\_management**

Check for VF management support

**--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.

## CHAPTER 13. COMPUTE SERVICE (NOVA) COMMAND-LINE CLIENT

The nova client is the command-line interface (CLI) for the Compute service (nova) API and its extensions.

This chapter documents **nova** version **7.1.0**.

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

```
$ nova help COMMAND
```

### 13.1. NOVA USAGE

```
usage: nova [--version] [--debug] [--os-cache] [--timings]
           [--os-region-name <region-name>] [--service-type <service-
           type>]
           [--service-name <service-name>]
           [--os-endpoint-type <endpoint-type>]
           [--os-compute-api-version <compute-api-ver>]
           [--endpoint-override <bypass-url>] [--profile HMAC_KEY]
           [--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-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:

##### add-fixed-ip

Add new IP address on a network to server.

##### 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-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-show**

Show details of the specified 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.

**cell-capacities**

Get cell capacities for all cells or a given cell.

**cell-show**

Show details of a given cell.

**clear-password**

Clear the admin password for a server from the metadata server. This action does not actually change the instance server password.

**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.

**delete**

Immediately shut down and delete specified server(s).

**diagnostics**

Retrieve server diagnostics.

**dns-create**

**DEPRECATED:** Create a DNS entry for domain, name, and IP.

**dns-create-private-domain**

**DEPRECATED:** Create the specified DNS domain.

**dns-create-public-domain**

**DEPRECATED:** Create the specified DNS domain.

**dns-delete**

**DEPRECATED:** Delete the specified DNS entry.

**dns-delete-domain**

**DEPRECATED:** Delete the specified DNS domain.

**dns-domains**

**DEPRECATED:** Print a list of available dns domains.

**dns-list**

**DEPRECATED:** List current DNS entries for domain and IP or domain and name.

**evacuate**

Evacuate server from failed host.

**fixed-ip-get**

**DEPRECATED:** Retrieve info on a fixed IP.

**fixed-ip-reserve**

**DEPRECATED:** Reserve a fixed IP.

**fixed-ip-unreserve**

**DEPRECATED:** 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**

**DEPRECATED:** Bulk create floating IPs by range (nova-network only).

**floating-ip-bulk-delete**

**DEPRECATED:** Bulk delete floating IPs by range (nova-network only).

**floating-ip-bulk-list**

**DEPRECATED:** List all floating IPs (nova-network only).

**floating-ip-create**

**DEPRECATED:** Allocate a floating IP for the current tenant.

**floating-ip-delete**



**DEPRECATED:** De-allocate a floating IP.

**floating-ip-disassociate**

Disassociate a floating IP address from a server.

**floating-ip-list**

**DEPRECATED:** List floating IPs.

**floating-ip-pool-list**

**DEPRECATED:** List all floating IP pools.

**force-delete**

Force delete a server.

**get-mks-console**

Get an MKS 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. This operation calls the metadata service to query metadata information and does not read password information from the server itself.

**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-evacuate**

Evacuate all instances from failed host.

**host-evacuate-live**

Live migrate all instances of the specified host to other available hosts.

**host-list**

List all hosts by service.

### **host-meta**

Set or Delete metadata on all instances of a host.

### **host-servers-migrate**

Cold migrate all instances off the specified host to other available hosts.

### **host-update**

Update host settings.

### **hypervisor-list**

List hypervisors. (Supported by API versions '2.0' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

### **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**

**DEPRECATED:** Delete specified image(s).

### **image-list**

**DEPRECATED:** Print a list of available images to boot from.

### **image-meta**

**DEPRECATED:** Set or delete metadata on an image.

### **image-show**

**DEPRECATED:** Show details about the given image.

### **instance-action**

Show an action.

### **instance-action-list**

List actions on a server.

**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-extensions**

List all the os-api extensions that are available.

**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.

**migration-list**

Print a list of migrations.

**network-associate-host**

**DEPRECATED:** Associate host with network.

**network-associate-project**

**DEPRECATED:** Associate project with network.

**network-create**

**DEPRECATED:** Create a network.

**network-delete**

**DEPRECATED:** Delete network by label or id.

**network-disassociate**

**DEPRECATED:** Disassociate host and/or project from the given network.

**network-list**

**DEPRECATED:** Print a list of available networks.

**network-show**

**DEPRECATED:** 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. (Supported by API versions '2.0' - '2.latest') [hint: use '-os-compute-api-version' flag to show help message for proper version]

**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. (Supported by API versions '2.0' - '2.latest') [hint: use '-os-compute-api-version' flag to show help message for proper version]

**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-secgroup**

Remove a Security Group from a server.

**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).

**restore**

Restore a soft-deleted server.

**resume**

Resume a server.

**scrub**

**DEPRECATED:** Delete networks and security groups associated with a project.

**secgroup-add-default-rule**

**DEPRECATED:** 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**

**DEPRECATED:** Add a source group rule to a security group.

**secgroup-add-rule**

**DEPRECATED:** Add a rule to a security group.

**secgroup-create**

**DEPRECATED:** Create a security group.

**secgroup-delete**

**DEPRECATED:** Delete a security group.

**secgroup-delete-default-rule**

**DEPRECATED:** 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**

**DEPRECATED:** Delete a source group rule from a security group.

**secgroup-delete-rule**

**DEPRECATED:** Delete a rule from a security group.

**secgroup-list**

**DEPRECATED:** List security groups for the current tenant.

**secgroup-list-default-rules**

**DEPRECATED:** List rules that will be added to the 'default' security group for new tenants.

**secgroup-list-rules**

**DEPRECATED:** List rules for a security group.

**secgroup-update**

**DEPRECATED:** 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]

**server-tag-add**

Add one or more tags to a server. (Supported by API versions '2.26' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

**server-tag-delete**

Delete one or more tags from a server. (Supported by API versions '2.26' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

**server-tag-delete-all**

Delete all tags from a server. (Supported by API versions '2.26' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

**server-tag-list**

Get list of tags from a server. (Supported by API versions '2.26' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

**server-tag-set**

Set list of tags to a server. (Supported by API versions '2.26' - '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-detach**

Detach a volume from a server.

**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-list**

**DEPRECATED:** List network interfaces associated with a baremetal node.

**baremetal-node-list**

**DEPRECATED:** Print list of available baremetal nodes.

**baremetal-node-show**

**DEPRECATED:** Show information about a baremetal node.

**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**

**DEPRECATED**: Create a tenant network.

#### **tenant-network-delete**

**DEPRECATED**: Delete a tenant network.

#### **tenant-network-list**

**DEPRECATED**: List tenant networks.

#### **tenant-network-show**

**DEPRECATED**: Show a tenant network.

## **13.2. 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]`.

### **--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]`.

**--endpoint-override <bypass-url>**

Use this API endpoint instead of the Service Catalog. Defaults to `env[NOVACLIENT_ENDPOINT_OVERRIDE]`.

**--profile HMAC\_KEY**

HMAC key to use for encrypting context data for performance profiling of operation. This key should be the value of the HMAC key configured for the OSprofiler middleware in nova; it is specified in the Nova configuration file at `/etc/nova/nova.conf`. Without the key, profiling will not be triggered even if OSprofiler is enabled on the server side.

**--os-auth-type <name>, --os-auth-plugin <name>**

Authentication type to use

**13.2.1. 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.

**13.2.2. 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 or ID of Security Group.

**13.2.3. 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.

#### 13.2.4. nova agent-delete

```
usage: nova agent-delete <id>
```

Delete existing agent build.

##### Positional arguments:

**<id>**

ID of the agent-build.

#### 13.2.5. nova agent-list

```
usage: nova agent-list [--hypervisor <hypervisor>]
```

List all builds.

##### Optional arguments:

**--hypervisor <hypervisor>**

Type of hypervisor.

#### 13.2.6. 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.

### 13.2.7. 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.

### 13.2.8. 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).

### 13.2.9. nova aggregate-delete

```
usage: nova aggregate-delete <aggregate>
```

Delete the aggregate.

**Positional arguments:**

**<aggregate>**

Name or ID of aggregate to delete.

**13.2.10. nova aggregate-list**

```
usage: nova aggregate-list
```

Print a list of all aggregates.

**13.2.11. 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.

**13.2.12. 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.

**13.2.13. nova aggregate-show**

```
usage: nova aggregate-show <aggregate>
```

Show details of the specified aggregate.

**Positional arguments:****<aggregate>**

Name or ID of aggregate.

### 13.2.14. nova aggregate-update

```
usage: nova aggregate-update [--name NAME]
                             [--availability-zone <availability-
                             zone>]
                             <aggregate>
```

Update the aggregate's name and optionally availability zone.

#### Positional arguments:

##### <aggregate>

Name or ID of aggregate to update.

#### Optional arguments:

##### --name NAME

Name of aggregate.

##### --availability-zone <availability-zone>

The availability zone of the aggregate.

### 13.2.15. nova availability-zone-list

```
usage: nova availability-zone-list
```

List all the availability zones.

### 13.2.16. 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.

### 13.2.17. nova boot

**10.2.17. 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 <auto,none,net-id=net-uuid,net-name=network-
name,port-id=port-uuid,v4-fixed-ip=ip-addr,v6-fixed-ip=ip-
addr,tag=tag>]
               [--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 'glance image-list').

**--image-with <key=value>**

Image metadata property (see 'glance 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, ...; tag=device metadata tag (optional) 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). (Supported by API versions '2.32' - '2.latest')

**--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 <auto,none,net-id=net-uuid,net-name=network-name,port-id=port-uuid,v4-fixed-ip=ip-addr,v6-fixed-ip=ip-addr,tag=tag>**

Create a NIC on the server. Specify option multiple times to create multiple nics unless using the special 'auto' or 'none' values. auto: automatically allocate network resources if none are available. This cannot be specified with any other nic value and cannot be specified multiple times. none: do not attach a NIC at all. This cannot be specified with any other nic value and cannot be specified multiple times. net-id: attach NIC to network with a specific 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 tag: interface metadata tag (optional) (either port-id or net-id must be provided). (Supported by API versions '2.37' - '2.latest')

**--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')

### 13.2.18. 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.


### 13.2.19. nova cell-show

**usage:** nova cell-show <cell-name>

Show details of a given cell.

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


Name of the cell.

**13.2.20. nova clear-password** usage: nova clear-password <server>

Clear the admin password for a server from the metadata server. This action does not actually change the instance server password.

**Positional arguments:****<server>**

Name or ID of server.

**13.2.21. 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.

**13.2.22. 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.

**13.2.23. nova cloudpipe-list** usage: nova cloudpipe-list

Print a list of all cloudpipe instances.

### 13.2.24. 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.

### 13.2.25. 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).

### 13.2.26. nova diagnostics

```
usage: nova diagnostics <server>
```

Retrieve server diagnostics.

#### Positional arguments:

**<server>**

Name or ID of server.

### 13.2.27. nova evacuate

```
usage: nova evacuate [--password <password>] [--force] <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.

**--force**

Force to not verify the scheduler if a host is provided. (Supported by API versions '2.29' - '2.latest')

### 13.2.28. 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.

### 13.2.29. 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. (Deprecated; this option is not supported, and will be removed in version 5.0.0.)

### 13.2.30. 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.

### 13.2.31. nova flavor-create

```
usage: nova flavor-create [--ephemeral <ephemeral>] [--swap <swap>]
                        [--rxtx-factor <factor>] [--is-public <is-
public>]
                        <name> <id> <ram> <disk> <vcpu>
```

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.

##### <vcpu>

Number of vcpu

#### 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).

### 13.2.32. nova flavor-delete

```
usage: nova flavor-delete <flavor>
```

Delete a specific flavor

**Positional arguments:**

**<flavor>**

Name or ID of the flavor to delete.

### 13.2.33. 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).

### 13.2.34. nova flavor-list

```
usage: nova flavor-list [--extra-specs] [--all] [--marker <marker>]
                        [--min-disk <min-disk>] [--min-ram <min-ram>]
                        [--limit <limit>] [--sort-key <sort-key>]
                        [--sort-dir <sort-dir>]
```

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".

**--min-disk <min-disk>**

Filters the flavors by a minimum disk space, in GiB.

**--min-ram <min-ram>**

Filters the flavors by a minimum RAM, in MB.

**--limit <limit>**

Maximum number of flavors to display. If limit is bigger than 'CONF.api.max\_limit' option of Nova API, limit 'CONF.api.max\_limit' will be used instead.

**--sort-key <sort-key>**

Flavors list sort key.

**--sort-dir <sort-dir>**

Flavors list sort direction.

### 13.2.35. nova flavor-show

```
usage: nova flavor-show <flavor>
```

Show details about the given flavor.

**Positional arguments:**

**<flavor>**

Name or ID of flavor.

### 13.2.36. 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.

### 13.2.37. 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.

### 13.2.38. nova force-delete

```
usage: nova force-delete <server>
```

Force delete a server.

#### Positional arguments:

**<server>**

Name or ID of server.

### 13.2.39. nova get-mks-console

```
usage: nova get-mks-console <server>
```

Get an MKS 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.

### 13.2.40. nova get-password

```
usage: nova get-password <server> [<private-key>]
```

Get the admin password for a server. This operation calls the metadata service to query metadata information and does not read password information from the server itself.

#### 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.

### 13.2.41. 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").

### 13.2.42. 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".

### 13.2.43. 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").

**13.2.44. 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").

**13.2.45. 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.

**13.2.46. nova host-describe**

```
usage: nova host-describe <hostname>
```

Describe a specific host.

**Positional arguments:****<hostname>**

Name of host.

**13.2.47. nova host-evacuate**

```
usage: nova host-evacuate [--target_host <target_host>] [--force]
<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.

**--force**

Force to not verify the scheduler if a host is provided. (Supported by API versions '2.29' - '2.latest')

### 13.2.48. nova host-evacuate-live

```
usage: nova host-evacuate-live [--target-host <target_host>] [--block-
migrate]
                                [--max-servers <max_servers>] [--
force]
                                <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. (Default=auto) (Supported by API versions '2.25' - '2.latest')

**--max-servers <max\_servers>**

Maximum number of servers to live migrate simultaneously

**--force**

Force to not verify the scheduler if a host is provided. (Supported by API versions '2.30' - '2.latest')

### 13.2.49. 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>.

### 13.2.50. 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)

### 13.2.51. nova host-servers-migrate

```
usage: nova host-servers-migrate <host>
```

Cold migrate all instances off the specified host to other available hosts.

**Positional arguments:**

**<host>**

Name of host.

### 13.2.52. 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.

### 13.2.53. nova hypervisor-list

```
usage: nova hypervisor-list [--matching <hostname>] [--marker <marker>]
                             [--limit <limit>]
```

List hypervisors. (Supported by API versions '2.0' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

**Optional arguments:**

**--matching <hostname>**

List hypervisors matching the given <hostname>. If matching is used limit and marker options will be ignored.

**--marker <marker>**

The last hypervisor of the previous page; displays list of hypervisors after "marker".

**--limit <limit>**

Maximum number of hypervisors to display. If limit is bigger than 'CONF.api.max\_limit' option of Nova API, limit 'CONF.api.max\_limit' will be used instead.

### 13.2.54. 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.

### 13.2.55. 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

**13.2.56. 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#1332165](#).

**13.2.57. 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.

**13.2.58. 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.

**Note**

Images created by **nova image-create** are only usable by nova itself (and not glance).

**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.

**13.2.59. 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.

**13.2.60. 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')

**13.2.61. 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.

### 13.2.62. 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.

### 13.2.63. nova interface-list

```
usage: nova interface-list <server>
```

List interfaces attached to a server.

**Positional arguments:**

**<server>**

Name or ID of server.

### 13.2.64. 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')

### 13.2.65. 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).

### 13.2.66. nova keypair-list

```
usage: nova keypair-list [--user <user-id>] [--marker <marker>]
                        [--limit <limit>]
```

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).

**--marker <marker>**

The last keypair of the previous page; displays list of keypairs after "marker".

**--limit <limit>**

Maximum number of keypairs to display. If limit is bigger than 'CONF.api.max\_limit' option of Nova API, limit 'CONF.api.max\_limit' will be used instead.

### 13.2.67. 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).

### 13.2.68. 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.

### 13.2.69. nova list

```
usage: nova list [--reservation-id <reservation-id>] [--ip <ip-regex>]
                [--ip6 <ip6-regex>] [--name <name-regex>]
                [--instance-name <name-regex>] [--status <status>]
                [--flavor <flavor>] [--image <image>] [--host
<hostname>]
                [--all-tenants [<0|1>]] [--tenant [<tenant>]]
```

```
minimal] [--user [<user>]] [--deleted] [--fields <fields>] [--  
[--sort <key>[:<direction>]] [--marker <marker>]  
[--limit <limit>] [--changes-since <changes_since>]  
[--tags <tags>] [--tags-any <tags-any>]  
any>] [--not-tags <not-tags>] [--not-tags-any <not-tags-
```

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 'CONF.api.max\_limit' option of Nova API, limit 'CONF.api.max\_limit' will be used instead.

**--changes-since <changes\_since>**

List only servers changed after a certain point of time. The provided time should be an ISO 8061 formatted time. ex 2016-03-04T06:27:59Z .

**--tags <tags>**

The given tags must all be present for a server to be included in the list result. Boolean expression in this case is 't1 AND t2'. Tags must be separated by commas: --tags <tag1,tag2> (Supported by API versions '2.26'

» '2.latest')

**--tags-any <tags-any>**

If one of the given tags is present the server will be included in the list result. Boolean expression in this case is 't1 OR t2'. Tags must be separated by commas: --tags-any <tag1,tag2> (Supported by API versions '2.26'

» '2.latest')

**--not-tags <not-tags>**

Only the servers that do not have any of the given tags will be included in the list results. Boolean expression in this case is 'NOT(t1 AND t2)'. Tags must be separated by commas: --not-tags <tag1,tag2> (Supported by API versions '2.26' - '2.latest')

**--not-tags-any <not-tags-any>**

Only the servers that do not have at least one of the given tags will be included in the list result. Boolean expression in this case is 'NOT(t1 OR t2)'. Tags must be separated by commas: --not-tags-any <tag1,tag2> (Supported by API versions '2.26' - '2.latest')

## 13.2.70. nova list-extensions

```
usage: nova list-extensions
```

List all the os-api extensions that are available.

### 13.2.71. nova list-secgroup

```
usage: nova list-secgroup <server>
```

List Security Group(s) of a server.

#### Positional arguments:

**<server>**

Name or ID of server.

### 13.2.72. nova live-migration

```
usage: nova live-migration [--block-migrate] [--force] <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')

**--force**

Force to not verify the scheduler if a host is provided. (Supported by API versions '2.30' - '2.latest')

### 13.2.73. 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.

### 13.2.74. 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.

### 13.2.75. 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.

### 13.2.76. 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).

### 13.2.77. 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.

### 13.2.78. 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.

### 13.2.79. nova pause

```
usage: nova pause <server>
```

Pause a server.

#### Positional arguments:

##### <server>

Name or ID of server.

### 13.2.80. 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.

### 13.2.81. nova quota-class-update

```
usage: nova quota-class-update [--instances <instances>] [--cores
<cores>]
                                [--ram <ram>]
                                [--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>]
                                [--server-groups <server-groups>]
                                [--server-group-members <server-group-
members>]
                                <class>
```

Update the quotas for a quota class. (Supported by API versions '2.0' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

**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.

**--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.

**--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.

### 13.2.82. 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.

### 13.2.83. 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.

### 13.2.84. nova quota-show

```
usage: nova quota-show [--tenant <tenant-id>] [--user <user-id>] [--detail]
```

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.

**--detail**

Show detailed info (limit, reserved, in-use).

### 13.2.85. nova quota-update

```
usage: nova quota-update [--user <user-id>] [--instances <instances>]
                        [--cores <cores>] [--ram <ram>]
                        [--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>]
                        [--server-groups <server-groups>]
                        [--server-group-members <server-group-
members>]
                        [--force]
                        <tenant-id>
```

Update the quotas for a tenant/user. (Supported by API versions '2.0' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

#### 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.

**--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.

**--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.

### 13.2.86. 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). Note: Ironic does not currently support soft reboot; consequently, bare metal nodes will always do a hard reboot, regardless of the use of this option.

**--poll**

Poll until reboot is complete.

### 13.2.87. 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.

### 13.2.88. 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).

**13.2.89. 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.

**13.2.90. 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.

**13.2.91. 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.

### 13.2.92. nova reset-network

```
usage: nova reset-network <server>
```

Reset network of a server.

**Positional arguments:**

**<server>**

Name or ID of server.

### 13.2.93. 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).

### 13.2.94. 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.

**13.2.95. nova resize-confirm**

```
usage: nova resize-confirm <server>
```

Confirm a previous resize.

**Positional arguments:**

**<server>**

Name or ID of server.

**13.2.96. 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.

**13.2.97. nova restore**

```
usage: nova restore <server>
```

Restore a soft-deleted server.

**Positional arguments:**

**<server>**

Name or ID of server.

**13.2.98. nova resume**

```
usage: nova resume <server>
```

Resume a server.

**Positional arguments:**

**<server>**

Name or ID of server.



### 13.2.99. 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.

### 13.2.100. 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.

### 13.2.101. 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.

### 13.2.102. nova server-group-list

```
usage: nova server-group-list [--limit <limit>] [--offset <offset>]
                               [--all-projects]
```

Print a list of all server groups.

#### Optional arguments:

**--limit <limit>**

Maximum number of server groups to display. If limit is bigger than 'CONF.api.max\_limit' option of Nova API, limit 'CONF.api.max\_limit' will be used instead.

**--offset <offset>**

The offset of groups list to display; use with limit to return a slice of server groups.

**--all-projects**

Display server groups from all projects (Admin only).

**13.2.103. 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.

**13.2.104. 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.

**13.2.105. nova server-tag-add**

```
usage: nova server-tag-add <server> <tag> [<tag> ...]
```

Add one or more tags to a server. (Supported by API versions '2.26' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

**Positional arguments:****<server>**

Name or ID of server.

**<tag>**

Tag(s) to add.

### 13.2.106. nova server-tag-delete

```
usage: nova server-tag-delete <server> <tag> [<tag> ...]
```

Delete one or more tags from a server. (Supported by API versions '2.26' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

#### Positional arguments:

##### <server>

Name or ID of server.

##### <tag>

Tag(s) to delete.

### 13.2.107. nova server-tag-delete-all

```
usage: nova server-tag-delete-all <server>
```

Delete all tags from a server. (Supported by API versions '2.26' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

#### Positional arguments:

##### <server>

Name or ID of server.

### 13.2.108. nova server-tag-list

```
usage: nova server-tag-list <server>
```

Get list of tags from a server. (Supported by API versions '2.26' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

#### Positional arguments:

##### <server>

Name or ID of server.

### 13.2.109. nova server-tag-set

```
usage: nova server-tag-set <server> <tags> [<tags> ...]
```

Set list of tags to a server. (Supported by API versions '2.26' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

#### Positional arguments:

##### <server>

Name or ID of server.

**<tags>**

Tag(s) to set.

### 13.2.110. nova service-delete

```
usage: nova service-delete <id>
```

Delete the service.

**Positional arguments:**

**<id>**

ID of service.

### 13.2.111. 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.

### 13.2.112. nova service-enable

```
usage: nova service-enable <hostname> <binary>
```

Enable the service.

**Positional arguments:**

**<hostname>**

Name of host.

**<binary>**

Service binary.

### 13.2.113. 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.

### 13.2.114. 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.

### 13.2.115. nova set-password

```
usage: nova set-password <server>
```

Change the admin password for a server.

#### Positional arguments:

##### <server>

Name or ID of server.

### 13.2.116. nova shelve

```
usage: nova shelve <server>
```

Shelve a server.

**Positional arguments:**

**<server>**

Name or ID of server.

### 13.2.117. nova shelve-offload

```
usage: nova shelve-offload <server>
```

Remove a shelved server from the compute node.

**Positional arguments:**

**<server>**

Name or ID of server.

### 13.2.118. nova show

```
usage: nova show [--minimal] [--wrap <integer>] <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.

**--wrap <integer>**

Wrap the output to a specified length, or 0 to disable.

### 13.2.119. 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.

### 13.2.120. 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).

### 13.2.121. 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).

### 13.2.122. nova suspend

```
usage: nova suspend <server>
```

Suspend a server.

**Positional arguments:**

**<server>**

Name or ID of server.

### 13.2.123. 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.

### 13.2.124. nova unlock

```
usage: nova unlock <server>
```

Unlock a server.

**Positional arguments:**

**<server>**

Name or ID of server.

### 13.2.125. nova unpause



```
usage: nova unpause <server>
```

Unpause a server.

**Positional arguments:**

**<server>**

Name or ID of server.

### 13.2.126. nova unrescue

```
usage: nova unrescue <server>
```

Restart the server from normal boot disk again.

**Positional arguments:**

**<server>**

Name or ID of server.

### 13.2.127. nova unshelve

```
usage: nova unshelve <server>
```

Unshelve a server.

**Positional arguments:**

**<server>**

Name or ID of server.

### 13.2.128. 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')

**13.2.129. 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.

**13.2.130. 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)

**13.2.131. nova version-list**

```
usage: nova version-list
```

List all API versions.

**13.2.132. nova virtual-interface-list**

```
usage: nova virtual-interface-list <server>
```

Show virtual interface info about the given server.

**Positional arguments:****<server>**

ID of server.

**13.2.133. 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.

**13.2.134. nova volume-attachments**

```
usage: nova volume-attachments <server>
```

List all the volumes attached to a server.

**Positional arguments:****<server>**

Name or ID of server.

**13.2.135. 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.

### 13.2.136. 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.

### 13.2.137. 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]

### 13.2.138. 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 14. NOVA-MANAGE COMMAND-LINE CLIENT

The nova-manage client is the command-line interface (CLI) for Compute service management utility.

This chapter documents **nova-manage** version **13.0.0**.

For help on a specific **nova-manage** command, enter:

```
$ nova-manage COMMAND --help
```

### 14.1. NOVA-MANAGE USAGE

```
usage: nova-manage [-h] [--remote-debug-host REMOTE_DEBUG_HOST]
                  [--remote-debug-port REMOTE_DEBUG_PORT] [--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]
                  {version,bash-
completion,project,account,shell,logs,
service,cell_v2,db,vm,agent,cell,network,host,floating,
fixed,vpn,api_db}
                  ...
```

### 14.2. NOVA-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.

**--nodebug**

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.

### 14.2.1. nova-manage account

```
usage: nova-manage account [-h] {quota,scrub} ...
```

**Positional arguments:**

**{quota, scrub}**

**Optional arguments:**

**-h, --help**

show this help message and exit

### 14.2.2. nova-manage agent

```
usage: nova-manage agent [-h] {create,delete,list,modify} ...
```

**Positional arguments:**

**{create,delete,list,modify}**

**Optional arguments:**

**-h, --help**

show this help message and exit

### 14.2.3. nova-manage api\_db

```
usage: nova-manage api_db [-h] {sync,version} ...
```

**Positional arguments:**

**{sync,version}**

**Optional arguments:**

**-h, --help**

show this help message and exit

### 14.2.4. nova-manage cell

```
usage: nova-manage cell [-h] {create,delete,list} ...
```

**Positional arguments:**

**{create,delete,list}**

**Optional arguments:**

**-h, --help**

show this help message and exit

#### 14.2.5. nova-manage cell\_v2

```
usage: nova-manage cell_v2 [-h] {map_cell_and_hosts,map_instances} ...
```

**Positional arguments:**

**{map\_cell\_and\_hosts,map\_instances}**

**Optional arguments:**

**-h, --help**

show this help message and exit

#### 14.2.6. nova-manage db

```
usage: nova-manage db [-h]
{archive_deleted_rows,null_instance_uuid_scan,online_data_migrations,sync,version}
...
```

**Positional arguments:**

**{archive\_deleted\_rows,null\_instance\_uuid\_scan,online\_data\_migrations,sync,version}**

**Optional arguments:**

**-h, --help**

show this help message and exit

#### 14.2.7. nova-manage fixed

```
usage: nova-manage fixed [-h] {list,reserve,unreserve} ...
```

**Positional arguments:**

**{list,reserve,unreserve}**

**Optional arguments:**

**-h, --help**

show this help message and exit

#### 14.2.8. nova-manage floating

```
usage: nova-manage floating [-h] {address_to_hosts,create,delete,list}
...
```



-

**Positional arguments:**

**{address\_to\_hosts,create,delete,list}**

**Optional arguments:**

**-h, --help**

show this help message and exit

### 14.2.9. nova-manage host

```
usage: nova-manage host [-h] {list} ...
```

**Positional arguments:**

**{list}**

**Optional arguments:**

**-h, --help**

show this help message and exit

### 14.2.10. nova-manage logs

```
usage: nova-manage logs [-h] {errors,syslog} ...
```

**Positional arguments:**

**{errors,syslog}**

**Optional arguments:**

**-h, --help**

show this help message and exit

### 14.2.11. nova-manage network

```
usage: nova-manage network [-h] {create,delete,list,modify} ...
```

**Positional arguments:**

**{create,delete,list,modify}**

**Optional arguments:**

**-h, --help**

show this help message and exit

### 14.2.12. nova-manage project

```
usage: nova-manage project [-h] {quota,scrub} ...
```

**Positional arguments:**

**{quota, scrub}**

**Optional arguments:**

**-h, --help**

show this help message and exit

**14.2.13. nova-manage shell**

```
usage: nova-manage shell [-h] {bpython,ipython,python,run,script} ...
```

**Positional arguments:**

**{bpython, ipython, python, run, script}**

**Optional arguments:**

**-h, --help**

show this help message and exit

**14.2.14. nova-manage vm**

```
usage: nova-manage vm [-h] {list} ...
```

**Positional arguments:**

**{list}**

**Optional arguments:**

**-h, --help**

show this help message and exit

**14.2.15. nova-manage vpn**

```
usage: nova-manage vpn [-h] {change} ...
```

**Positional arguments:**

**{change}**

**Optional arguments:**

**-h, --help**

show this help message and exit

## CHAPTER 15. OBJECT STORAGE SERVICE (SWIFT) 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 **3.3.0**.

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

```
$ swift COMMAND --help
```

### 15.1. SWIFT USAGE

```
Usage: swift [--version] [--help] [--os-help] [--snet] [--verbose]
        [--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]
        [--os-cert <client-certificate-file>]
        [--os-key <client-certificate-key-file>]
        [--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.

**copy**

Copies object, optionally adds meta

**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.

## 15.2. SWIFT EXAMPLES

```
swift download --help

swift -A https://auth.api.rackspacecloud.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
```

## 15.3. 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.

**15.3.1. 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
```

**15.3.2. swift capabilities**

```
Usage: swift capabilities [--json] [<proxy_url>]
```

Retrieve capability of the proxy.

**Optional positional arguments:**

**<proxy\_url>**

Proxy URL of the cluster to retrieve capabilities.

**--json**

Print the cluster capabilities in JSON format.

**15.3.3. swift copy**

```
Usage: swift copy [--destination </container/object>] [--fresh-  
metadata] [--meta <name:value>] [--header <header>]  
<container> <object> [<object>] [...]
```

Copies object to new destination, optionally updates objects metadata. If destination is not set, will update metadata of object

**Positional arguments:**

**<container>**

Name of container to copy from.

**<object>**

Name of object to copy. Specify multiple times for multiple objects

**Optional arguments:****-d, --destination </container[/object]>**

The container and name of the destination object. Name of destination object can be omitted, then will be same as name of source object. Supplying multiple objects and destination with object name is invalid.

**-M, --fresh-metadata**

Copy the object without any existing metadata, If not set, metadata will be preserved or appended

**-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"

**15.3.4. swift delete**

```
Usage: swift delete [--all] [--leave-segments]
                  [--object-threads <threads>]
                  [--container-threads <threads>]
                  [--header <header:value>]
                  [<container> [<object>] [...]]
```

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.

**-H, --header <header:value>**

Adds a custom request header to use for deleting objects or an entire container.

**--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.

**15.3.5. swift download**

```
Usage: swift download [--all] [--marker <marker>] [--prefix <prefix>]
                    [--output <out_file>] [--output-dir
<out_directory>]
                    [--object-threads <threads>] [--ignore-checksum]
                    [--container-threads <threads>] [--no-download]
                    [--skip-identical] [--remove-prefix]
                    [--header <header:value>] [--no-shuffle]
                    [<container> [<object>] [...]]
```

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>**

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.

**--ignore-checksum**

Turn off checksum validation for downloads.

**--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.

**15.3.6. swift list**

```
Usage: swift list [--long] [--lh] [--totals] [--prefix <prefix>]
                [--delimiter <delimiter>] [--header <header:value>]
                [<container>]
```

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.

**-H, --header <header:value>**

Adds a custom request header to use for listing.

### 15.3.7. swift post

```
Usage: swift post [--read-acl <acl>] [--write-acl <acl>] [--sync-to]
                [--sync-key <sync-key>] [--meta <name:value>]
                [--header <header>]
                [<container> [<object>]]
```

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** (v1.0 identity API only), **account1:\***, **account2:user2** (v2.0+ identity API).

**-w, --write-acl <acl>**

Write ACL for containers. Quick summary of ACL syntax: **account1** (v1.0 identity API only), **account1:\***, **account2:user2** (v2.0+ identity API).

**-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"

### 15.3.8. swift stat

```
Usage: swift stat [--lh] [--header <header:value>]
               [<container> [<object>]]
```

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.

**-H, --header <header:value>**

Adds a custom request header to use for stat.

### 15.3.9. swift tempurl

```
Usage: swift tempurl [--absolute] [--prefix-based]
                   <method> <seconds> <path> <key>
```

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` or: [http://saio:8080/v1/AUTH\\_account/c/o](http://saio:8080/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.

**--prefix-based**

If present, a prefix-based tempURL will be generated.

### 15.3.10. swift upload

```
Usage: swift upload [--changed] [--skip-identical] [--segment-size
<size>]
                        [--segment-container <container>] [--leave-
segments]
                        [--object-threads <thread>] [--segment-threads
<threads>]
                        [--header <header>] [--use-slo] [--ignore-
checksum]
                        [--object-name <object-name>]
                        <container> <file_or_directory>
[<file_or_directory>] [...]
```

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 16. OPENSTACK COMMAND-LINE CLIENT

The **openstack** client is a common OpenStack command-line interface (CLI). This chapter documents **openstack** version **3.11.0**.

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

```
$ openstack help <command>
```

The following reference illustrates and explains the usage of the OpenStack command-line client.

### 16.1. COMMAND

Internal

Installed commands in the OSC process.

#### 16.1.1. command list

List recognized commands by group

```
openstack command list  
[ --group <group-keyword>]
```

**--group <group-keyword>**

Show commands filtered by a command group, for example: identity, volume, compute, image, network and other keywords

### 16.2. ACCESS TOKEN

Identity v3

Requires: OS-OAUTH1 extension

#### 16.2.1. access token create

Create an access token

```
openstack access token create  
  --consumer-key <consumer-key>  
  --consumer-secret <consumer-secret>  
  --request-key <request-key>  
  --request-secret <request-secret>  
  --verifier <verifier>
```

**--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)

## 16.3. ADDRESS SCOPE

An **address scope** is a scope of IPv4 or IPv6 addresses that belongs to a given project and may be shared between projects.

Network v2

### 16.3.1. address scope create

Create new address scope

```
openstack address scope create
  [--project <project> [--project-domain <project-domain>]]
  [--ip-version <ip-version>]
  [--share | --no-share]
  <name>
```

**--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.

**--ip-version <ip-version>**

IP version (4 or 6, default is 4)

**--share**

Share the address scope between projects

**--no-share**

Do not share the address scope between projects (default)

**<name>**

New address scope name

### 16.3.2. address scope delete

Delete address scope(s)

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

**<address-scope>**

Address scope(s) to delete (name or ID)

### 16.3.3. address scope list

List address scopes

```
openstack address scope list
    [--name <name>]
    [--ip-version <ip-version>]
    [--project <project> [--project-domain <project-domain>]]
    [--share | --no-share]
```

**--name <name>**

List only address scopes of given name in output

**--ip-version <ip-version>**

List address scopes of given IP version networks (4 or 6)

**--project <project>**

List address scopes according to their project (name or ID)

**--project-domain <project-domain>**

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

**--share**

List address scopes shared between projects

**--no-share**

List address scopes not shared between projects

### 16.3.4. address scope set

Set address scope properties

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

**--name <name>**

Set address scope name



**--share**

Share the address scope between projects

**--no-share**

Do not share the address scope between projects

**<address-scope>**

Address scope to modify (name or ID)

**16.3.5. address scope show**

Display address scope details

```
openstack address scope show
<address-scope>
```

**<address-scope>**

Address scope to display (name or ID)

**16.4. AGGREGATE**

Host aggregates provide a mechanism to group hosts according to certain criteria.

Compute v2

**16.4.1. aggregate add host**

Add host to aggregate

```
openstack aggregate add host
<aggregate>
<host>
```

**<aggregate>**

Aggregate (name or ID)

**<host>**

Host to add to [<aggregate>](#)

**16.4.2. aggregate create**

Create a new aggregate

```
openstack aggregate create
[--zone <availability-zone>]
[--property <key=value> [...] ]
<name>
```

**--zone <availability-zone>**

Availability zone name

**--property <key=value>**

Property to add to this aggregate (repeat option to set multiple properties)

**<name>**

New aggregate name

### 16.4.3. aggregate delete

Delete existing aggregate(s)

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

**<aggregate>**

Aggregate(s) to delete (name or ID)

### 16.4.4. aggregate list

List all aggregates

```
openstack aggregate list  
  [--long]
```

**--long**

List additional fields in output

### 16.4.5. aggregate remove host

Remove host from aggregate

```
openstack aggregate remove host  
  <aggregate>  
  <host>
```

**<aggregate>**

Aggregate (name or ID)

**<host>**

Host to remove from [<aggregate>](#)

### 16.4.6. aggregate set

Set aggregate properties

■

```

openstack aggregate set
  [--name <new-name>]
  [--zone <availability-zone>]
  [--property <key=value> [...] ]
  [--no-property]
  <aggregate>

```

**--name <name>**

Set aggregate name

**--zone <availability-zone>**

Set availability zone name

**--property <key=value>**

Property to set on [<aggregate>](#) (repeat option to set multiple properties)

**--no-property**

Remove all properties from [<aggregate>](#) (specify both **--property** and **--no-property** to overwrite the current properties)

**<aggregate>**

Aggregate to modify (name or ID)

### 16.4.7. aggregate show

Display aggregate details

```

openstack aggregate show
  <aggregate>

```

**<aggregate>**

Aggregate to display (name or ID)

### 16.4.8. aggregate unset

Unset aggregate properties

```

openstack aggregate unset
  [--property <key> [...] ]
  <aggregate>

```

**--property <key>**

Property to remove from [<aggregate>](#) (repeat option to remove multiple properties)

**<aggregate>**

Aggregate to modify (name or ID)

## 16.5. AVAILABILITY ZONE

An **availability zone** is a logical partition of cloud block storage, compute and network services.

Block Storage v2, Compute v2, Network v2

### 16.5.1. availability zone list

List availability zones and their status

```
openstack availability zone list
  [--compute]
  [--network]
  [--volume]
  [--long]
```

#### **--compute**

List compute availability zones

#### **--network**

List network availability zones

#### **--volume**

List volume availability zones

#### **--long**

List additional fields in output

## 16.6. BACKUP

Block Storage v1, v2

### 16.6.1. backup create

Create new backup (Deprecated, please use **volume backup create** instead)

```
openstack backup create
  [--container <container>]
  [--name <name>]
  [--description <description>]
  [--snapshot <snapshot>]
  [--force]
  [--incremental]
  <volume>
```

#### **--container <container>**

Optional backup container name

#### **--name <name>**

Name of the backup

**--description <description>**

Description of the backup

**--snapshot <snapshot>**

Snapshot to backup (name or ID) *Volume version 2 only*

**--force**

Allow to back up an in-use volume *Volume version 2 only*

**--incremental**

Perform an incremental backup *Volume version 2 only*

**<volume>**

Volume to backup (name or ID)

### 16.6.2. backup delete

Delete backup(s) (Deprecated, please use **volume backup delete** instead)

```
openstack backup delete
[ --force]
<backup> [<backup> ...]
```

**--force**

Allow delete in state other than error or available *Volume version 2 only*

**<backup>**

Backup(s) to delete (name or ID)

### 16.6.3. backup list

List backups (Deprecated, please use **volume backup list** instead)

```
openstack backup list
```

**--long**

List additional fields in output

### 16.6.4. backup restore

Restore backup (Deprecated, please use **volume backup restore** instead)

```
openstack backup restore
<backup>
<volume>
```

**<backup>**

Backup to restore (name or ID)

**<volume>**

Volume to restore to (name or ID)

### 16.6.5. backup show

Display backup details (Deprecated, please use **volume backup show** instead)

```
openstack backup show  
  <backup>
```

**<backup>**

Backup to display (name or ID)

## 16.7. CATALOG

Identity v2, v3

### 16.7.1. catalog list

List services in the service catalog

```
openstack catalog list
```

### 16.7.2. catalog show

Display service catalog details

```
openstack catalog show  
  <service>
```

**<service>**

Service to display (type or name)

## 16.8. COMPLETE

The **complete** command is inherited from the **python-cliff** library, it can be used to generate a bash-completion script. Currently, the command will generate a script for bash versions 3 or 4. The bash-completion script is printed directly to standard out.

Typical usage for this command is:

```
openstack complete | sudo tee  
/etc/bash_completion.d/osc.bash_completion > /dev/null
```

If installing **python-openstackclient** from a package with **yum**, then this command will likely be run for you.

### 16.8.1. complete

print bash completion command

```
openstack complete
```

## 16.9. COMPUTE AGENT

Compute v2

### 16.9.1. compute agent create

Create compute agent

```
openstack compute agent create
    <os> <architecture> <version> <url> <md5hash>
    <hypervisor>
```

**<os>**

Type of OS

**<architecture>**

Type of architecture

**<version>**

Version

**<url>**

URL

**<md5hash>**

MD5 hash

**<hypervisor>**

Type of hypervisor

### 16.9.2. compute agent delete

Delete compute agent(s)

```
openstack compute agent delete <id> [<id> ...]
```

**<id>**

ID of agent(s) to delete

### 16.9.3. compute agent list

List compute agents

```
openstack compute agent list [--hypervisor <hypervisor>]
```

**--hypervisor <hypervisor>**

Type of hypervisor

### 16.9.4. compute agent set

Set compute agent properties

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

**--agent-version <version>**

Version of the agent

**--url <url>**

URL of the agent

**--md5hash <md5hash>**

MD5 hash of the agent

**<id>**

Agent to modify (ID only)

## 16.10. COMPUTE SERVICE

Compute v2

### 16.10.1. compute service delete

Delete compute service(s)

```
openstack compute service delete
  <service> [<service> ...]
```

**<service>**

Compute service(s) to delete (ID only)

### 16.10.2. compute service list

List compute services



```
openstack compute service list
  [--host <host>]
  [--service <service>]
  [--long]
```

**--host <host>**

List services on specified host (name only)

**--service <service>**

List only specified service (name only)

**--long**

List additional fields in output

**16.10.3. compute service set**

Set compute service properties

```
openstack compute service set
  [--enable | --disable]
  [--disable-reason <reason>]
  [--up | --down]
  <host> <service>
```

**--enable**

Enable service

**--disable**

Disable service

**--disable-reason <reason>**

Reason for disabling the service (in quotes). Should be used with **--disable** option.

**--up**

Force up service

**--down**

Force down service

**<host>**

Name of host

**<service>**

Name of service (Binary name)

**16.11. CONFIGURATION**

Available for all services

### 16.11.1. configuration show

Show the current openstack client configuration. This command is a little different from other show commands because it does not take a resource name or id to show. The command line options, such as `--os-cloud`, can be used to show different configurations.

```
openstack configuration show
[--mask | --unmask]
```

#### **--mask**

Attempt to mask passwords (default)

#### **--unmask**

Show password in clear text

## 16.12. CONSISTENCY GROUP

Block Storage v2

### 16.12.1. consistency group add volume

Add volume(s) to consistency group.

```
openstack consistency group add volume
<consistency-group>
<volume> [<volume> ...]
```

#### **<consistency-group>**

Consistency group to contain <volume> (name or ID)

#### **<volume>**

Volume(s) to add to <consistency-group> (name or ID) (repeat option to add multiple volumes)

### 16.12.2. consistency group create

Create new consistency group.

```
openstack consistency group create
--volume-type <volume-type> | --consistency-group-source
<consistency-group> | --consistency-group-snapshot <consistency-group-
snapshot>
[--description <description>]
[--availability-zone <availability-zone>]
[<name>]
```

**--volume-type <volume-type>**

Volume type of this consistency group (name or ID)

**--consistency-group-source <consistency-group>**

Existing consistency group (name or ID)

**--consistency-group-snapshot <consistency-group-snapshot>**

Existing consistency group snapshot (name or ID)

**--description <description>**

Description of this consistency group

**--availability-zone <availability-zone>**

Availability zone for this consistency group (not available if creating consistency group from source)

**<name>**

Name of new consistency group (default to None)

**16.12.3. consistency group delete**

Delete consistency group(s).

```
openstack consistency group delete
  [--force]
  <consistency-group> [<consistency-group> ...]
```

**--force**

Allow delete in state other than error or available

**<consistency-group>**

Consistency group(s) to delete (name or ID)

**16.12.4. consistency group list**

List consistency groups.

```
openstack consistency group list
  [--all-projects]
  [--long]
```

**--all-projects**

Show detail for all projects. Admin only. (defaults to False)

**--long**

List additional fields in output

### 16.12.5. consistency group remove volume

Remove volume(s) from consistency group.

```
openstack consistency group remove volume  
  <consistency-group>  
  <volume> [<volume> ...]
```

#### <consistency-group>

Consistency group containing <volume> (name or ID)

#### <volume>

Volume(s) to remove from <consistency-group> (name or ID) (repeat option to remove multiple volumes)

### 16.12.6. consistency group set

Set consistency group properties.

```
openstack consistency group set  
  [--name <name>]  
  [--description <description>]  
  <consistency-group>
```

#### --name <name>

New consistency group name

#### --description <description>

New consistency group description

#### <consistency-group>

Consistency group to modify (name or ID)

### 16.12.7. consistency group show

Display consistency group details.

```
openstack consistency group show  
  <consistency-group>
```

#### <consistency-group>

Consistency group to display (name or ID)

## 16.13. CONSISTENCY GROUP SNAPSHOT

Block Storage v2

### 16.13.1. consistency group snapshot create

Create new consistency group snapshot.

```
openstack consistency group snapshot create
  [--consistency-group <consistency-group>]
  [--description <description>]
  [<snapshot-name>]
```

**--consistency-group <consistency-group>**

Consistency group to snapshot (name or ID) (default to be the same as <snapshot-name>)

**--description <description>**

Description of this consistency group snapshot

**<snapshot-name>**

Name of new consistency group snapshot (default to None)

### 16.13.2. consistency group snapshot delete

Delete consistency group snapshot(s)

```
openstack consistency group snapshot delete
  <consistency-group-snapshot> [<consistency-group-snapshot> ...]
```

**<consistency-group-snapshot>**

Consistency group snapshot(s) to delete (name or ID)

### 16.13.3. consistency group snapshot list

List consistency group snapshots.

```
openstack consistency group snapshot list
  [--all-projects]
  [--long]
  [--status <status>]
  [--consistency-group <consistency-group>]
```

**--all-projects**

Show detail for all projects. Admin only. (defaults to False)

**--long**

List additional fields in output

**--status <status>**

Filters results by a status ("available", "error", "creating", "deleting" or "error\_deleting")

**--consistency-group <consistency-group>**

Filters results by a consistency group (name or ID)

#### 16.13.4. consistency group snapshot show

Display consistency group snapshot details.

```
openstack consistency group snapshot show  
  <consistency-group-snapshot>
```

**<consistency-group-snapshot>**

Consistency group snapshot to display (name or ID)

### 16.14. CONSOLE LOG

Server console text dump

Compute v2

#### 16.14.1. console log show

Show server's console output

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

**--lines <num-lines>**

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

**<server>**

Server to show log console log (name or ID)

### 16.15. CONSOLE URL

Server remote console URL

Compute v2

#### 16.15.1. console url show

Show server's remote console URL

```
openstack console url show  
  [--novnc | --xvpvnc | --spice]  
  [--rdp | --serial | --mks]  
  <server>
```

**--novnc**

Show noVNC console URL (default)

**--xvpvnc**

Show xvpvnc console URL

**--spice**

Show SPICE console URL

**--rdp**

Show RDP console URL

**--serial**

Show serial console URL

**--mks**

Show WebMKS console URL

**<server>**

Server to show URL (name or ID)

## 16.16. CONSUMER

Identity v3

Requires: OS-OAUTH1 extension

### 16.16.1. consumer create

Create new consumer

```
openstack consumer create
  [--description <description>]
```

**--description <description>**

New consumer description

### 16.16.2. consumer delete

Delete consumer(s)

```
openstack consumer delete
  <consumer> [<consumer> ...]
```

**<consumer>**

Consumer(s) to delete

### 16.16.3. consumer list

List consumers

```
openstack consumer list
```

#### 16.16.4. consumer set

Set consumer properties

```
openstack consumer set  
  [--description <description>]  
  <consumer>
```

**--description <description>**

New consumer description

**<consumer>**

Consumer to modify

#### 16.16.5. consumer show

Display consumer details

```
openstack consumer show  
  <consumer>
```

**<consumer>**

Consumer to display

### 16.17. CONTAINER

Object Storage v1

#### 16.17.1. container create

Create new container

```
openstack container create  
  <container-name> [<container-name> ...]
```

**<container-name>**

New container name(s)

#### 16.17.2. container delete

Delete container



```
openstack container delete
  [-r] | [--recursive]
  <container> [<container> ...]
```

**--recursive , -r**

Recursively delete objects in container before container delete

**<container>**

Container(s) to delete

**16.17.3. container list**

List containers

```
openstack container list
  [--prefix <prefix>]
  [--marker <marker>]
  [--end-marker <end-marker>]
  [--limit <num-containers>]
  [--long]
  [--all]
```

**--prefix <prefix>**

Filter list using <prefix>

**--marker <marker>**

Anchor for paging

**--end-marker <end-marker>**

End anchor for paging

**--limit <num-containers>**

Limit the number of containers returned

**--long**

List additional fields in output

**--all**

List all containers (default is 10000)

**16.17.4. container save**

Save container contents locally

```
openstack container save
  <container>
```

**<container>**

Container to save

### 16.17.5. container set

Set container properties

```
openstack container set
  [--property <key=value> [...] ]
  <container>
```

**--property <key=value>**

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

**<container>**

Container to modify

### 16.17.6. container show

Display container details

```
openstack container show
  <container>
```

**<container>**

Container to display

### 16.17.7. container unset

Unset container properties

```
openstack container unset
  [--property <key>]
  <container>
```

**--property <key>**

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

**<container>**

Container to modify

## 16.18. CREDENTIAL

Identity v3

### 16.18.1. credential create

Create new credential

-

```
openstack credential create
  [--type <type>]
  [--project <project>]
  <user> <data>
```

**--type <type>**

New credential type

**--project <project>**

Project which limits the scope of the credential (name or ID)

**<user>**

User that owns the credential (name or ID)

**<data>**

New credential data

**16.18.2. credential delete**

Delete credential(s)

```
openstack credential delete
  <credential-id> [<credential-id> ...]
```

**<credential-id>**

ID(s) of credential to delete

**16.18.3. credential list**

List credentials

```
openstack credential list
```

**16.18.4. credential set**

Set credential properties

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

**--user <user>**

User that owns the credential (name or ID)

**--type <type>**

New credential type

**--data <data>**

New credential data

**--project <project>**

Project which limits the scope of the credential (name or ID)

**<credential-id>**

ID of credential to change

### 16.18.5. credential show

Display credential details

```
openstack credential show  
  <credential-id>
```

**<credential-id>**

ID of credential to display

## 16.19. DOMAIN

Identity v3

### 16.19.1. domain create

Create new domain

```
openstack domain create  
  [--description <description>]  
  [--enable | --disable]  
  [--or-show]  
  <domain-name>
```

**--description <description>**

New domain description

**--enable**

Enable domain (default)

**--disable**

Disable domain

**--or-show**

Return existing domain If the domain already exists, return the existing domain data and do not fail.

**<domain-name>**

New domain name

### 16.19.2. domain delete

Delete domain(s)

```
openstack domain delete
    <domain> [<domain> ...]
```

**<domain>**

Domain(s) to delete (name or ID)

### 16.19.3. domain list

List domains

```
openstack domain list
```

### 16.19.4. domain set

Set domain properties

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

**--name <name>**

New domain name

**--description <description>**

New domain description

**--enable**

Enable domain

**--disable**

Disable domain

**<domain>**

Domain to modify (name or ID)

### 16.19.5. domain show

Display domain details

```
openstack domain show  
  <domain>
```

**<domain>**

Domain to display (name or ID)

## 16.20. EC2 CREDENTIALS

Identity v2

### 16.20.1. ec2 credentials create

Create EC2 credentials

```
openstack ec2 credentials create  
  [--project <project>]  
  [--user <user>]  
  [--user-domain <user-domain>]  
  [--project-domain <project-domain>]
```

**--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. New in version 3.

**--project-domain <project-domain>**

Domain the project belongs to (name or ID). This can be used in case collisions between user names exist. New in version 3.

The **--project** and **--user** options are typically only useful for admin users, but may be allowed for other users depending on the policy of the cloud and the roles granted to the user.

### 16.20.2. ec2 credentials delete

Delete EC2 credentials

```
openstack ec2 credentials delete  
  [--user <user>]  
  [--user-domain <user-domain>]  
  <access-key> [<access-key> ...]
```

**--user <user>**

Delete credentials for user (name or ID)

**--user-domain <user-domain>**

Select user from a specific domain (name or ID) This can be used in case collisions between user names exist. New in version 3.

**access-key**

Credentials access key(s)

The **--user** option is typically only useful for admin users, but may be allowed for other users depending on the policy of the cloud and the roles granted to the user.

### 16.20.3. ec2 credentials list

List EC2 credentials

```
openstack ec2 credentials list
  [--user <user>]
  [--user-domain <user-domain>]
```

**--user <user>**

Filter list by <user> (name or ID)

**--user-domain <user-domain>**

Select user from a specific domain (name or ID) This can be used in case collisions between user names exist. New in version 3.

The **--user** option is typically only useful for admin users, but may be allowed for other users depending on the policy of the cloud and the roles granted to the user.

### 16.20.4. ec2 credentials show

Display EC2 credentials details

```
openstack ec2 credentials show
  [--user <user>]
  [--user-domain <user-domain>]
  <access-key>
```

**--user <user>**

Show credentials for user (name or ID)

**--user-domain <user-domain>**

Select user from a specific domain (name or ID) This can be used in case collisions between user names exist. New in version 3.

**access-key**

Credentials access key

The **--user** option is typically only useful for admin users, but may be allowed for other users depending on the policy of the cloud and the roles granted to the user.

## 16.21. ENDPOINT

Identity v2, v3

### 16.21.1. endpoint create

Create new endpoint

```
_Identity version 2 only_
```

```
openstack endpoint create
  --publicurl <url>
  [--adminurl <url>]
  [--internalurl <url>]
  [--region <region-id>]
  <service>
```

**--publicurl <url>**

New endpoint public URL (required)

**--adminurl <url>**

New endpoint admin URL

**--internalurl <url>**

New endpoint internal URL

**--region <region-id>**

New endpoint region ID

**<service>**

Service to be associated with new endpoint (name or ID)

```
_Identity version 3 only_
```

```
openstack endpoint create
  [--region <region-id>]
  [--enable | --disable]
  <service>
  <interface>
  <url>
```

**--region <region-id>**

New endpoint region ID

**--enable**



Enable endpoint (default)

**--disable**

Disable endpoint

**<service>**

Service to be associated with new endpoint(name or ID)

**<interface>**

New endpoint interface type (admin, public or internal)

**<url>**

New endpoint URL

### 16.21.2. endpoint delete

Delete endpoint(s)

```
openstack endpoint delete
    <endpoint-id> [<endpoint-id> ...]
```

**<endpoint-id>**

Endpoint(s) to delete (ID only)

### 16.21.3. endpoint list

List endpoints

```
openstack endpoint list
    [--service <service>]
    [--interface <interface>]
    [--region <region-id>]
    [--long]
```

**--service <service>**

Filter by service (type, name or ID) *Identity version 3 only*

**--interface <interface>**

Filter by interface type (admin, public or internal) *Identity version 3 only*

**--region <region-id>**

Filter by region ID *Identity version 3 only*

**--long**

List additional fields in output *Identity version 2 only*

### 16.21.4. endpoint set

Set endpoint properties

**\_Identity version 3 only\_**

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

**--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

**<endpoint-id>**

Endpoint to modify (ID only)

### 16.21.5. endpoint show

Display endpoint details

```
openstack endpoint show
  <endpoint>
```

**<endpoint>**

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

## 16.22. EXTENSION

Many OpenStack server APIs include API extensions that enable additional functionality.

### 16.22.1. extension list

List API extensions

```
openstack extension list
  [--compute]
  [--identity]
  [--network]
  [--volume]
  [--long]
```

#### **--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

### 16.22.2. extension show

Show API extension

```
openstack extension show
  <extension>
```

#### **<extension>**

Extension to display. Currently, only network extensions are supported. (Name or Alias)

## 16.23. FEDERATION PROTOCOL

Identity v3

Requires: OS-FEDERATION extension

### 16.23.1. federation protocol create

Create new federation protocol

```
openstack federation protocol create
  --identity-provider <identity-provider>
  --mapping <mapping>
  <name>
```

**--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)

**<name>**

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

### 16.23.2. federation protocol delete

Delete federation protocol(s)

```
openstack federation protocol delete
  --identity-provider <identity-provider>
  <federation-protocol> [<federation-protocol> ...]
```

**--identity-provider <identity-provider>**

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

**<federation-protocol>**

Federation protocol(s) to delete (name or ID)

### 16.23.3. federation protocol list

List federation protocols

```
openstack federation protocol list
  --identity-provider <identity-provider>
```

**--identity-provider <identity-provider>**

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

### 16.23.4. federation protocol set

Set federation protocol properties

```
openstack federation protocol set
  --identity-provider <identity-provider>
  [--mapping <mapping>]
  <federation-protocol>
```

**--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)

**<federation-protocol>**

Federation protocol to modify (name or ID)

**16.23.5. federation protocol show**

Display federation protocol details

```
openstack federation protocol show
  --identity-provider <identity-provider>
  <federation-protocol>
```

**--identity-provider <identity-provider>**

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

**<federation-protocol>**

Federation protocol to display (name or ID)

**16.24. FLAVOR**

Compute v2

**16.24.1. flavor create**

Create new flavor

```
openstack flavor create
  [--id <id>]
  [--ram <size-mb>]
  [--disk <size-gb>]
  [--ephemeral-disk <size-gb>]
  [--swap <size-mb>]
  [--vcpus <num-cpu>]
  [--rxtx-factor <factor>]
  [--public | --private]
  [--property <key=value> [...] ]
  [--project <project>]
  [--project-domain <project-domain>]
  <flavor-name>
```

**--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-disk <size-gb>**

Ephemeral disk size in GB (default 0G)

**--swap <size-mb>**

Swap space size in MB (default 0M)

**--vcpus <num-cpu>**

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

**--property <key=value>**

Property to add for this flavor (repeat option to set multiple properties)

**--project <project>**

Allow <project> to access private flavor (name or ID) (Must be used with **--private** option)

**--project-domain <project-domain>**

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

**<flavor-name>**

New flavor name

### 16.24.2. flavor delete

Delete flavor(s)

```
openstack flavor delete  
  <flavor> [<flavor> ...]
```

**<flavor>**

Flavor(s) to delete (name or ID)

### 16.24.3. flavor list

List flavors

```
openstack flavor list
  [--public | --private | --all]
  [--long]
  [--marker <flavor-id>]
  [--limit <num-flavors>]
```

#### **--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 <flavor-id>**

The last flavor ID of the previous page

#### **--limit <num-flavors>**

Maximum number of flavors to display

### 16.24.4. flavor set

Set flavor properties

```
openstack flavor set
  [--no-property]
  [--property <key=value> [...] ]
  [--project <project>]
  [--project-domain <project-domain>]
  <flavor>
```

#### **--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.

#### **--no-property**

Remove all properties from this flavor (specify both `--no-property` and `--property` to remove the current properties before setting new properties.)

**<flavor>**

Flavor to modify (name or ID)

### 16.24.5. flavor show

Display flavor details

```
openstack flavor show  
  <flavor>
```

**<flavor>**

Flavor to display (name or ID)

### 16.24.6. flavor unset

Unset flavor properties

```
openstack flavor unset  
  [--property <key> [...] ]  
  [--project <project>]  
  [--project-domain <project-domain>]  
  <flavor>
```

**--property <key>**

Property to remove from flavor (repeat option to remove 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.

**<flavor>**

Flavor to modify (name or ID)

## 16.25. FLOATING IP

Compute v2, Network v2

### 16.25.1. floating ip create

Create floating IP

```
openstack floating ip create
```



```

[--subnet <subnet>]
[--port <port>]
[--floating-ip-address <ip-address>]
[--fixed-ip-address <ip-address>]
[--description <description>]
[--project <project> [--project-domain <project-domain>]]
<network>

```

**--subnet <subnet>**

Subnet on which you want to create the floating IP (name or ID) *Network version 2 only*

**--port <port>**

Port to be associated with the floating IP (name or ID) *Network version 2 only*

**--floating-ip-address <ip-address>**

Floating IP address *Network version 2 only*

**--fixed-ip-address <ip-address>**

Fixed IP address mapped to the floating IP *Network version 2 only*

**--description <description>**

Set floating IP description *Network version 2 only*

**--project <project>**

Owner's project (name or ID) *Network version 2 only*

**--project-domain <project-domain>**

Domain the project belongs to (name or ID). This can be used in case collisions between project names exist. *Network version 2 only*

**<network>**

Network to allocate floating IP from (name or ID)

**16.25.2. floating ip delete**

Delete floating IP(s)

```

openstack floating ip delete <floating-ip> [<floating-ip> ...]

```

**<floating-ip>**

Floating IP(s) to delete (IP address or ID)

**16.25.3. floating ip list**

List floating IP(s)

```

openstack floating ip list
  [--network <network>]
  [--port <port>]

```

```
[--fixed-ip-address <ip-address>]
[--long]
[--status <status>]
[--project <project> [--project-domain <project-domain>]]
[--router <router>]
```

**--network <network>**

List floating IP(s) according to given network (name or ID) *Network version 2 only*

**--port <port>**

List floating IP(s) according to given port (name or ID) *Network version 2 only*

**--fixed-ip-address <ip-address>**

List floating IP(s) according to given fixed IP address *Network version 2 only*

**--long**

List additional fields in output *Network version 2 only*

**--status <status>**

List floating IP(s) according to given status ('ACTIVE', 'DOWN') *Network version 2 only*

**--project <project>**

List floating IP(s) according to given project (name or ID) *Network version 2 only*

**--project-domain <project-domain>**

Domain the project belongs to (name or ID). This can be used in case collisions between project names exist. *Network version 2 only*

**--router <router>**

List floating IP(s) according to given router (name or ID) *Network version 2 only*

## 16.25.4. floating ip set

Set floating IP properties

```
openstack floating ip set
  --port <port>
  [--fixed-ip-address <ip-address>]
  <floating-ip>
```

**--port <port>**

Associate the floating IP with port (name or ID)

**--fixed-ip-address <ip-address>**

Fixed IP of the port (required only if port has multiple IPs)

**<floating-ip>**

Floating IP to associate (IP address or ID)

### 16.25.5. floating ip show

Display floating IP details

```
openstack floating ip show <floating-ip>
```

#### <floating-ip>

Floating IP to display (IP address or ID)

### 16.25.6. floating ip unset

Unset floating IP Properties

```
openstack floating ip unset
  --port
  <floating-ip>
```

#### --port

Disassociate any port associated with the floating IP

#### <floating-ip>

Floating IP to disassociate (IP address or ID)

## 16.26. FLOATING IP POOL

Compute v2, Network v2

### 16.26.1. floating ip pool list

List pools of floating IP addresses

```
openstack floating ip pool list
```

## 16.27. GROUP

Identity v3

### 16.27.1. group add user

Add user to group

```
openstack group add user
  [--group-domain <group-domain>]
  [--user-domain <user-domain>]
  <group>
  <user> [<user> ...]
```

**--group-domain <group-domain>**

Domain the group belongs to (name or ID). This can be used in case collisions between group names exist. New in version 3.

**--user-domain <user-domain>**

Domain the user belongs to (name or ID). This can be used in case collisions between user names exist. New in version 3.

**<group>**

Group to contain <user> (name or ID)

**<user>**

User(s) to add to <group> (name or ID) (repeat option to add multiple users)

### 16.27.2. group contains user

Check user membership in group

```
openstack group contains user
  [--group-domain <group-domain>]
  [--user-domain <user-domain>]
  <group>
  <user>
```

**--group-domain <group-domain>**

Domain the group belongs to (name or ID). This can be used in case collisions between group names exist. New in version 3.

**--user-domain <user-domain>**

Domain the user belongs to (name or ID). This can be used in case collisions between user names exist. New in version 3.

**<group>**

Group to check (name or ID)

**<user>**

User to check (name or ID)

### 16.27.3. group create

Create new group

```
openstack group create
  [--domain <domain>]
  [--description <description>]
  [--or-show]
  <group-name>
```

**--domain <domain>**

Domain to contain new group (name or ID)

**--description <description>**

New group description

**--or-show**

Return existing group If the group already exists, return the existing group data and do not fail.

**<group-name>**

New group name

### 16.27.4. group delete

Delete group

```
openstack group delete
  [--domain <domain>]
  <group> [<group> ...]
```

**--domain <domain>**

Domain containing group(s) (name or ID)

**<group>**

Group(s) to delete (name or ID)

### 16.27.5. group list

List groups

```
openstack group list
  [--domain <domain>]
  [--user <user> [--user-domain <user-domain>]]
  [--long]
```

**--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. New in version 3.

**--long**

List additional fields in output

### 16.27.6. group remove user

Remove user from group

```
openstack group remove user
  [--group-domain <group-domain>]
  [--user-domain <user-domain>]
  <group>
  <user> [<user> ...]
```

#### **--group-domain <group-domain>**

Domain the group belongs to (name or ID). This can be used in case collisions between group names exist. New in version 3.

#### **--user-domain <user-domain>**

Domain the user belongs to (name or ID). This can be used in case collisions between user names exist. New in version 3.

#### **<group>**

Group containing <user> (name or ID)

#### **<user>**

User(s) to remove from <group> (name or ID) (repeat option to remove multiple users)

### 16.27.7. group set

Set group properties

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

#### **--domain <domain>**

Domain containing <group> (name or ID)

#### **--name <name>**

New group name

#### **--description <description>**

New group description

#### **<group>**

Group to modify (name or ID)

### 16.27.8. group show

Display group details

```
openstack group show
  [--domain <domain>]
  <group>
```

**--domain <domain>**

Domain containing <group> (name or ID)

**<group>**

Group to display (name or ID)

## 16.28. HOST

Compute v2

The physical computer running a hypervisor.

### 16.28.1. host list

List hosts

```
openstack host list
  [--zone <availability-zone>]
```

**--zone <availability-zone>**

Only return hosts in the availability zone

### 16.28.2. host set

Set host properties

```
openstack host set
  [--enable | --disable]
  [--enable-maintenance | --disable-maintenance]
  <host>
```

**--enable**

Enable the host

**--disable**

Disable the host

**--enable-maintenance**

Enable maintenance mode for the host

**--disable-maintenance**

Disable maintenance mode for the host

**<host>**

Host to modify (name only)

### 16.28.3. host show

Display host details

```
openstack host show  
  <host>
```

**<host>**

Name of host

## 16.29. HYPERVISOR

Compute v2

### 16.29.1. hypervisor list

List hypervisors

```
openstack hypervisor list  
  [--matching <hostname>]  
  [--long]
```

**--matching <hostname>**

Filter hypervisors using <hostname> substring

**--long**

List additional fields in output

### 16.29.2. hypervisor show

Display hypervisor details

```
openstack hypervisor show  
  <hypervisor>
```

**<hypervisor>**

Hypervisor to display (name or ID)

## 16.30. HYPERVISOR STATS

Compute v2

### 16.30.1. hypervisor stats show



Display hypervisor stats details

```
openstack hypervisor stats show
```

## 16.31. IDENTITY PROVIDER

Identity v3

Requires: OS-FEDERATION extension

### 16.31.1. identity provider create

Create new identity provider

```
openstack identity provider create
  [--remote-id <remote-id> [...] | --remote-id-file <file-name>]
  [--description <description>]
  [--enable | --disable]
  <name>
```

#### **--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**

New identity provider description

#### **--enable**

Enable the identity provider (default)

#### **--disable**

Disable the identity provider

#### **<name>**

New identity provider name (must be unique)

### 16.31.2. identity provider delete

Delete identity provider(s)

```
openstack identity provider delete
  <identity-provider> [<identity-provider> ...]
```

#### **<identity-provider>**

Identity provider(s) to delete

### 16.31.3. identity provider list

List identity providers

```
openstack identity provider list
```

### 16.31.4. identity provider set

Set identity provider properties

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

#### **--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**

Set identity provider description

#### **--enable**

Enable the identity provider

#### **--disable**

Disable the identity provider

#### **<identity-provider>**

Identity provider to modify

### 16.31.5. identity provider show

Display identity provider details

```
openstack identity provider show
  <identity-provider>
```

#### **<identity-provider>**

Identity provider to display

## 16.32. IMAGE

Image v1, v2

### 16.32.1. image add project

\_Only supported for Image v2\_

Associate project with image

```
openstack image add project
  [--project-domain <project-domain>]
  <image> <project>
```

#### **--project-domain <project-domain>**

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

#### **<image>**

Image to share (name or ID).

#### **<project>**

Project to associate with image (name or ID)

### 16.32.2. image create

\_Image v1, v2\_

Create/upload an image

```
openstack image create
  [--id <id>]
  [--store <store>]
  [--container-format <container-format>]
  [--disk-format <disk-format>]
  [--size <size>]
  [--min-disk <disk-gb>]
  [--min-ram <ram-mb>]
  [--location <image-url>]
  [--copy-from <image-url>]
  [--file <file> | --volume <volume>]
  [--force]
  [--checksum <checksum>]
  [--protected | --unprotected]
  [--public | --private]
  [--property <key=value> [...] ]
  [--tag <tag> [...] ]
  [--project <project> [--project-domain <project-domain>]]
  <image-name>
```

#### **--id <id>**

Image ID to reserve

#### **--store <store>**

Upload image to this store *Image version 1 only*.

**--container-format <container-format>**

Image container format. The supported options are: ami, ari, aki, bare, docker, ova, ovf. The default format is: bare

**--disk-format <disk-format>**

Image disk format. The supported options are: ami, ari, aki, vhd, vmdk, raw, qcow2, vhdx, vdi, iso, and ploop. The default format is: raw

**--size <size>**

Image size, in bytes (only used with **--location** and **--copy-from**) *Image version 1 only*.

**--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

**--location <image-url>**

Download image from an existing URL *Image version 1 only*.

**--copy-from <image-url>**

Copy image from the data store (similar to **--location**) *Image version 1 only*.

**--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**)

**--checksum <checksum>**

Image hash used for verification *Image version 1 only*.

**--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 for multiple values)

**--tag <tag>**

Set a tag on this image (repeat for multiple values) New in version 2.

**--project <project>**

Set an alternate project on this image (name or ID). Previously known as **--owner**.

**--project-domain <project-domain>**

Domain the project belongs to (name or ID). This can be used in case collisions between project names exist. New in version 2.

**<image-name>**

New image name

**16.32.3. image delete**

Delete image(s)

```
openstack image delete
    <image>
```

**<image>**

Image(s) to delete (name or ID)

**16.32.4. image list**

List available images

```
openstack image list
    [--public | --private | --shared]
    [--property <key=value>]
    [--long]
    [--sort <key>[:<direction>]]
    [--limit <num-images>]
    [--marker <image>]
```

**--public**

List only public images

**--private**

List only private images

**--shared**

List only shared images *Image version 2 only.*

**--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: name:asc), multiple keys and directions can be specified separated by comma

**--limit <num-images>**

Maximum number of images to display. *Image version 2 only*

**--marker <image>**

The last image of the previous page. Display list of images after marker. Display all images if not specified. (name or ID) *Image version 2 only*

### 16.32.5. image remove project

**\_Only supported for Image v2\_**

Disassociate project with image

```
openstack image remove remove
  [--project-domain <project-domain>]
  <image>
  <project>
```

**--project-domain <project-domain>**

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

**<image>**

Image to unshare (name or ID).

**<project>**

Project to disassociate with image (name or ID)

### 16.32.6. image save

Save an image locally

```
openstack image save
  --file <filename>
  <image>
```

**--file <filename>**

Downloaded image save filename (default: stdout)

**<image>**

Image to save (name or ID)

### 16.32.7. image set

**\_Image v1, v2\_**

Set image properties

```

openstack image set
  [--name <name>]
  [--min-disk <disk-gb>]
  [--min-ram <ram-mb>]
  [--container-format <container-format>]
  [--disk-format <disk-format>]
  [--size <size>]
  [--protected | --unprotected]
  [--public | --private]
  [--store <store>]
  [--location <image-url>]
  [--copy-from <image-url>]
  [--file <file>]
  [--volume <volume>]
  [--force]
  [--checksum <checksum>]
  [--stdin]
  [--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>]
  [--activate|--deactivate]
  [--project <project> [--project-domain <project-domain>]]
  [--accept | --reject | --pending]
  <image>

```

**--name <name>**

New image name

**--min-disk <disk-gb>**

Minimum disk size needed to boot image, in gigabytes

**--min-ram <ram-mb>**

Minimum RAM size needed to boot image, in megabytes

**--container-format <container-format>**

Image container format. The supported options are: ami, ari, aki, bare, docker, ova, ovf.

**--disk-format <disk-format>**

Image disk format. The supported options are: ami, ari, aki, vhd, vmdk, raw, qcow2, vhdx, vdi, iso, and ploop.

**--size <size>**

Size of image data (in bytes) *Image version 1 only.*

**--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)

**--store <store>**

Upload image to this store *Image version 1 only.*

**--location <image-url>**

Download image from an existing URL *Image version 1 only.*

**--copy-from <image-url>**

Copy image from the data store (similar to **--location**) *Image version 1 only.*

**--file <file>**

Upload image from local file *Image version 1 only.*

**--volume <volume>**

Update image with a volume *Image version 1 only.*

**--force**

Force image update if volume is in use (only meaningful with **--volume**) *Image version 1 only.*

**--checksum <checksum>**

Image hash used for verification *Image version 1 only.*

**--stdin**

Allow to read image data from standard input *Image version 1 only.*

**--property <key=value>**

Set a property on this image (repeat option to set multiple properties) New in version 2.

**--tag <tag>**

Set a tag on this image (repeat for multiple values) New in version 2.



**--architecture <architecture>**

Operating system architecture New in version 2.

**--instance-id <instance-id>**

ID of server instance used to create this image New in version 2.

**--kernel-id <kernel-id>**

ID of kernel image used to boot this disk image New in version 2.

**--os-distro <os-distro>**

Operating system distribution name New in version 2.

**--os-version <os-version>**

Operating system distribution version New in version 2.

**--ramdisk-id <ramdisk-id>**

ID of ramdisk image used to boot this disk image New in version 2.

**--activate**

Activate the image. New in version 2.

**--deactivate**

Deactivate the image. New in version 2.

**--project <project>**

Set an alternate project on this image (name or ID). Previously known as **--owner**.

**--project-domain <project-domain>**

Domain the project belongs to (name or ID). This can be used in case collisions between project names exist. New in version 2.

**--accept**

Accept the image membership. If **--project** is passed, this will update the membership status for the given project, otherwise **--project** will default to the project the user is authenticated to. New in version 2.

**--reject**

Reject the image membership. If **--project** is passed, this will update the membership status for the given project, otherwise **--project** will default to the project the user is authenticated to. New in version 2.

**--pending**

Reset the image membership to 'pending'. If **--project** is passed, this will update the membership status for the given project, otherwise **--project** will default to the project the user is authenticated to. New in version 2.

**<image>**

Image to modify (name or ID)

### 16.32.8. image show

Display image details

```
openstack image show  
  <image>
```

**<image>**

Image to display (name or ID)

### 16.32.9. image unset

\_Only supported for Image v2\_

Unset image tags or properties

```
openstack image set  
  [--tag <tag>]  
  [--property <property>]  
  <image>
```

**--tag <tag>**

Unset a tag on this image (repeat option to unset multiple tags)

**--property <property>**

Unset a property on this image (repeat option to unset multiple properties)

**<image>**

Image to modify (name or ID)

## 16.33. IP AVAILABILITY

Network v2

### 16.33.1. ip availability list

List IP availability for network

This command retrieves information about IP availability. Useful for admins who need a quick way to check the IP availability for all associated networks. List specifically returns total IP capacity and the number of allocated IP addresses from that pool.

```
openstack ip availability list  
  [--ip-version {4,6}]  
  [--project <project>]
```

**--ip-version {4,6}**

List IP availability of given IP version networks (default is 4)

**--project <project>**

List IP availability of given project (name or ID)

**16.33.2. ip availability show**

Show network IP availability details

This command retrieves information about IP availability. Useful for admins who need a quick way to check the IP availability and details for a specific network.

This command will return information about IP availability for the network as a whole, and return availability information for each individual subnet within the network as well.

```
openstack ip availability show
    <network>
```

**<network>**

Show IP availability for a specific network (name or ID)

**16.34. IP FIXED**

Compute v2

**16.34.1. ip fixed add**

Add fixed IP address to server (Deprecated, please use **server add fixed ip** instead)

```
openstack ip fixed add
    <network>
    <server>
```

**<network>**

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

**<server>**

Server to receive the IP address (name or ID)

**16.34.2. ip fixed remove**

Remove fixed IP address from server (Deprecated, please use **server remove fixed ip** instead)

```
openstack ip fixed remove
    <ip-address>
    <server>
```

**<ip-address>**

IP address to remove from server (name only)

**<server>**

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

## 16.35. IP FLOATING

Compute v2, Network v2

### 16.35.1. ip floating add

Add floating IP address to server (Deprecated, please use **server add floating ip** instead)

```
openstack ip floating add
    <ip-address>
    <server>
```

**<ip-address>**

IP address to add to server (name only)

**<server>**

Server to receive the IP address (name or ID)

### 16.35.2. ip floating create

Create new floating IP address (Deprecated, please use **floating ip create** instead)

```
openstack ip floating create
    [--subnet <subnet>]
    [--port <port>]
    [--floating-ip-address <floating-ip-address>]
    [--fixed-ip-address <fixed-ip-address>]
    <network>
```

**--subnet <subnet>**

Subnet on which you want to create the floating IP (name or ID) (Network v2 only)

**--port <port>**

Port to be associated with the floating IP (name or ID) (Network v2 only)

**--floating-ip-address <floating-ip-address>**

Floating IP address (Network v2 only)

**--fixed-ip-address <fixed-ip-address>**

Fixed IP address mapped to the floating IP (Network v2 only)

**<network>**

Network to allocate floating IP from (name or ID)

### 16.35.3. ip floating delete

Delete floating IP(s) (Deprecated, please use **floating ip delete** instead)

```
openstack ip floating delete
    <floating-ip> [<floating-ip> ...]
```

#### <floating-ip>

Floating IP(s) to delete (IP address or ID)

### 16.35.4. ip floating list

List floating IP addresses (Deprecated, please use **floating ip list** instead)

```
openstack ip floating list
```

### 16.35.5. ip floating remove

Remove floating IP address from server (Deprecated, please use **server remove floating ip** instead)

```
openstack ip floating remove
    <ip-address>
    <server>
```

#### <ip-address>

IP address to remove from server (name only)

#### <server>

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

### 16.35.6. ip floating show

Display floating IP details (Deprecated, please use **floating ip show** instead)

```
openstack ip floating show <floating-ip>
```

#### <floating-ip>

Floating IP to display (IP address or ID)

## 16.36. IP FLOATING POOL

Compute v2

### 16.36.1. ip floating pool list

List pools of floating IP addresses (Deprecated, please use **floating ip pool list** instead)

```
openstack ip floating pool list
```

## 16.37. KEYPAIR

The badly named keypair is really the public key of an OpenSSH key pair to be used for access to created servers. You can also create a private key for access to a created server by not passing any argument to the keypair create command.

Compute v2

### 16.37.1. keypair create

Create new public or private key for server ssh access

```
openstack keypair create
    [--public-key <file> | --private-key <file>]
    <name>
```

#### **--public-key <file>**

Filename for public key to add. If not used, creates a private key.

#### **--private-key <file>**

Filename for private key to save. If not used, print private key in console.

#### **<name>**

New public or private key name

### 16.37.2. keypair delete

Delete public or private key(s)

```
openstack keypair delete
    <key> [<key> ...]
```

#### **<key>**

Name of key(s) to delete (name only)

### 16.37.3. keypair list

List key fingerprints

```
openstack keypair list
```

### 16.37.4. keypair show

Display key details

```
openstack keypair show
  [--public-key]
  <key>
```

**--public-key**

Show only bare public key paired with the generated key

**<key>**

Public or private key to display (name only)

**16.38. LIMITS**

The Compute and Block Storage APIs have resource usage limits.

Compute v2, Block Storage v1

**16.38.1. limits show**

Show compute and block storage limits

```
openstack limits show
  --absolute | --rate
  [--reserved]
  [--project <project>]
  [--domain <domain>]
```

**--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**]

**16.39. MAPPING**

Identity v3

Requires: OS-FEDERATION extension

**16.39.1. mapping create**

Create new mapping

```
openstack mapping create
  --rules <filename>
  <name>
```

**--rules <filename>**

Filename that contains a set of mapping rules (required)

**<name>**

New mapping name (must be unique)

### 16.39.2. mapping delete

Delete mapping(s)

```
openstack mapping delete
  <mapping> [<mapping> ...]
```

**<mapping>**

Mapping(s) to delete

### 16.39.3. mapping list

List mappings

```
openstack mapping list
```

### 16.39.4. mapping set

Set mapping properties

```
openstack mapping set
  [--rules <filename>]
  <mapping>
```

**--rules <filename>**

Filename that contains a new set of mapping rules

**<mapping>**

Mapping to modify

### 16.39.5. mapping show

Display mapping details



```
openstack mapping show
    <mapping>
```

**<mapping>**

Mapping to display

## 16.40. MODULE

Internal

Installed Python modules in the OSC process.

### 16.40.1. module list

List module versions

```
openstack module list
    [--all]
```

**--all**

Show all modules that have version information

## 16.41. NETWORK

A **network** is an isolated Layer 2 networking segment. There are two types of networks, project and provider networks. Project networks are fully isolated and are not shared with other projects. Provider networks map to existing physical networks in the data center and provide external network access for servers and other resources. Only an OpenStack administrator can create provider networks. Networks can be connected via routers.

Compute v2, Network v2

### 16.41.1. network create

Create new network

```
openstack network create
    [--project <project> [--project-domain <project-domain>]]
    [--enable | --disable]
    [--share | --no-share]
    [--description <description>]
    [--availability-zone-hint <availability-zone>]
    [--enable-port-security | --disable-port-security]
    [--external [--default | --no-default] | --internal]
    [--provider-network-type <provider-network-type>]
    [--provider-physical-network <provider-physical-network>]
    [--provider-segment <provider-segment>]
    [--qos-policy <qos-policy>]
    [--transparent-vlan | --no-transparent-vlan]
    <name>
```

**--project <project>**

Owner's project (name or ID) *Network version 2 only*

**--project-domain <project-domain>**

Domain the project belongs to (name or ID). This can be used in case collisions between project names exist. *Network version 2 only*

**--enable**

Enable network (default) *Network version 2 only*

**--disable**

Disable network *Network version 2 only*

**--share**

Share the network between projects

**--no-share**

Do not share the network between projects

**--description <description>**

Set network description *Network version 2 only*

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

Availability Zone in which to create this network (Network Availability Zone extension required, repeat option to set multiple availability zones) *Network version 2 only*

**--enable-port-security**

Enable port security by default for ports created on this network (default) *Network version 2 only*

**--disable-port-security**

Disable port security by default for ports created on this network *Network version 2 only*

**--subnet <subnet>**

IPv4 subnet for fixed IPs (in CIDR notation) *Compute version 2 only*

**--external**

Set this network as an external network (external-net extension required) *Network version 2 only*

**--internal**

Set this network as an internal network (default) *Network version 2 only*

**--default**

Specify if this network should be used as the default external network *Network version 2 only*

**--no-default**

Do not use the network as the default external network (default) *Network version 2 only*

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

The physical mechanism by which the virtual network is implemented. The supported options are: flat, geneve, gre, local, vlan, vxlan. *Network version 2 only*

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

Name of the physical network over which the virtual network is implemented *Network version 2 only*

**--provider-segment <provider-segment>**

VLAN ID for VLAN networks or Tunnel ID for GENEVE/GRE/VXLAN networks *Network version 2 only*

**--qos-policy <qos-policy>**

QoS policy to attach to this network (name or ID) *Network version 2 only*

**--transparent-vlan**

Make the network VLAN transparent *Network version 2 only*

**--no-transparent-vlan**

Do not make the network VLAN transparent *Network version 2 only*

**<name>**

New network name

**16.41.2. network delete**

Delete network(s)

```
openstack network delete
    <network> [<network> ...]
```

**<network>**

Network(s) to delete (name or ID)

**16.41.3. network list**

List networks

```
openstack network list
    [--external | --internal]
    [--long]
    [--name <name>]
    [--enable | --disable]
    [--project <project> [--project-domain <project-domain>]]
    [--share | --no-share]
    [--status <status>]
    [--provider-network-type <provider-network-type>]
    [--provider-physical-network <provider-physical-network>]
    [--provider-segment <provider-segment>]
    [--agent <agent-id>]
```

■

**--external**List external networks *Network version 2 only***--internal**List internal networks *Network version 2 only***--long**List additional fields in output *Network version 2 only***--name <name>**List networks according to their name *Network version 2 only***--enable**List enabled networks *Network version 2 only***--disable**List disabled networks *Network version 2 only***--project <project>**List networks according to their project (name or ID) *Network version 2 only***--project-domain <project-domain>**Domain the project belongs to (name or ID). This can be used in case collisions between project names exist. *Network version 2 only***--share**List networks shared between projects *Network version 2 only***--no-share**List networks not shared between projects *Network version 2 only***--status <status>**

List networks according to their status ('ACTIVE', 'BUILD', 'DOWN', 'ERROR')

**--provider-network-type <provider-network-type>**List networks according to their physical mechanisms. The supported options are: flat, geneve, gre, local, vlan, vxlan. *Network version 2 only***--provider-physical-network <provider-physical-network>**List networks according to name of the physical network *Network version 2 only***--provider-segment <provider-segment>**List networks according to VLAN ID for VLAN networks or Tunnel ID for GENEVE/GRE/VXLAN networks *Network version 2 only***--agent <agent-id>**

List networks hosted by agent (ID only)

### 16.41.4. network set

Set network properties

**\_Network version 2 only\_**

```
openstack network set
  [--name <name>]
  [--enable | --disable]
  [--share | --no-share]
  [--description <description>]
  [--enable-port-security | --disable-port-security]
  [--external [--default | --no-default] | --internal]
  [--provider-network-type <provider-network-type>]
  [--provider-physical-network <provider-physical-network>]
  [--provider-segment <provider-segment>]
  [--qos-policy <qos-policy> | --no-qos-policy]
  [--transparent-vlan | --no-transparent-vlan]
  <network>
```

**--name <name>**

Set network name

**--enable**

Enable network

**--disable**

Disable network

**--share**

Share the network between projects

**--no-share**

Do not share the network between projects

**--description <description>**

Set network description

**--enable-port-security**

Enable port security by default for ports created on this network

**--disable-port-security**

Disable port security by default for ports created on this network

**--external**

Set this network as an external network. (external-net extension required)

**--internal**

Set this network as an internal network

**--default**

Set the network as the default external network

**--no-default**

Do not use the network as the default external network.

**--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

**--qos-policy <qos-policy>**

QoS policy to attach to this network (name or ID)

**--no-qos-policy**

Remove the QoS policy attached to this network

**--transparent-vlan**

Make the network VLAN transparent

**--no-transparent-vlan**

Do not make the network VLAN transparent

**<network>**

Network to modify (name or ID)

### 16.41.5. network show

Display network details

```
openstack network show  
  <network>
```

**<network>**

Network to display (name or ID)

## 16.42. NETWORK AGENT

A **network agent** is an agent that handles various tasks used to implement virtual networks. These agents include neutron-dhcp-agent, neutron-l3-agent, neutron-metering-agent, and neutron-lbaas-agent, among others. The agent is available when the alive status of the agent is "True".

Network v2

### 16.42.1. network agent add network

Add network to an agent

```
openstack network agent add network
  [--dhcp]
  <agent-id>
  <network>
```

#### **--dhcp**

Add a network to DHCP agent

#### **<agent-id>**

Agent to which a network is added (ID only)

#### **<network>**

Network to be added to an agent (ID or name)

### 16.42.2. network agent delete

Delete network agent(s)

```
openstack network agent delete
  <network-agent> [<network-agent> ...]
```

#### **<network-agent>**

Network agent(s) to delete (ID only)

### 16.42.3. network agent list

List network agents

```
openstack network agent list
  [--agent-type <agent-type>]
  [--host <host>]
  [--network <network>]
```

#### **--agent-type <agent-type>**

List only agents with the specified agent type. The supported agent types are: dhcp, openvswitch, linux-bridge, ofa, l3, loadbalancer, metering, metadata, macvtap, nic.

#### **--host <host>**

List only agents running on the specified host

#### **--network <network>**

List agents hosting a network (ID or name)

### 16.42.4. network agent set

-----  
Set network agent properties

```
openstack network agent set
  [--description <description>]
  [--enable | --disable]
  <network-agent>
```

**--description <description>**

Set network agent description

**--enable**

Enable network agent

**--disable**

Disable network agent

**<network-agent>**

Network agent to modify (ID only)

### 16.42.5. network agent show

Display network agent details

```
openstack network agent show
  <network-agent>
```

**<network-agent>**

Network agent to display (ID only)

### 16.42.6. network agent remove network

Remove network from an agent

```
openstack network agent remove network
  [--dhcp]
  <agent-id>
  <network>
```

**--dhcp**

Remove network from DHCP agent.

**<agent-id>**

Agent to which a network is removed (ID only)

**<network>**

Network to be removed from an agent (ID or name)



## 16.43. NETWORK AUTO ALLOCATED TOPOLOGY

An **auto allocated topology** allows admins to quickly set up external connectivity for end-users. Only one auto allocated topology is allowed per project.

Network v2

### 16.43.1. network auto allocated topology create

Create the auto allocated topology for project

```
openstack network auto allocated topology create
  [--or-show]
  [--check-resources]
  [--project <project> [--project-domain <project-domain>]]
```

#### **--or-show**

If topology exists returns the topologies information (Default).

#### **--check-resources**

Validate the requirements for auto allocated topology. Does not return a topology.

#### **--project <project>**

Return the auto allocated topology for a given project. Default is current project.

#### **--project-domain <project-domain>**

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

### 16.43.2. network auto allocated topology delete

Delete auto allocated topology for project

```
openstack network auto allocated topology delete
  [--project <project> [--project-domain <project-domain>]]
```

#### **--project <project>**

Delete auto allocated topology for a given project. Default is the current project.

#### **--project-domain <project-domain>**

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

## 16.44. NETWORK FLAVOR

A **network flavor** extension allows the user selection of operator-curated flavors during resource creations. It allows administrators to create network service flavors.

Network v2

### 16.44.1. network flavor add profile

Add network flavor to service profile

```
openstack network flavor add profile
    <flavor>
    <service-profile-id>
```

**<flavor>**

Flavor to which service profile is added. (Name or ID)

**<service-profile-id>**

Service profile to be added to flavor. (ID only)

### 16.44.2. network flavor create

Create network flavor

```
openstack network flavor create
    --service-type <service-type>
    [--description <description>]
    [--enable | --disable]
    [--project <project> [--project-domain <project-domain>]]
    <name>
```

**--service-type <service-type>**

Service type to which the flavor applies to: e.g. VPN (required)

**--description <description>**

Description for the flavor

**--enable**

Enable the flavor (default)

**--disable**

Disable the flavor

**--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.

**<name>**

Name for the flavor

### 16.44.3. network flavor delete

Delete network flavor(s)

```
openstack network flavor delete
    <flavor> [<flavor> ...]
```

**<flavor>**

Flavor(s) to delete (name or ID)

#### 16.44.4. network flavor list

List network flavors

```
openstack network flavor list
```

#### 16.44.5. network flavor remove profile

Remove network flavor from service profile

```
openstack network flavor remove profile
    <flavor>
    <service-profile-id>
```

**<flavor>**

Flavor from which service profile is removed. (Name or ID)

**<service-profile-id>**

Service profile to be removed from flavor. (ID only)

#### 16.44.6. network flavor set

Set network flavor properties

```
openstack network flavor set
    [--name <name>]
    [--description <description>]
    [--enable | --disable]
    <flavor>
```

**--name <name>**

Set flavor name

**--description <description>**

Set network flavor description

**--enable**

Enable network flavor

**--disable**

Disable network flavor

**<flavor>**

Flavor to update (name or ID)

### 16.44.7. network flavor show

Show network flavor

```
openstack network flavor show  
  <flavor>
```

**<flavor>**

Flavor to display (name or ID)

## 16.45. NETWORK FLAVOR PROFILE

A **network flavor profile** allows administrators to create, delete, list, show and update network service profile, which details a framework to enable operators to configure and users to select from different abstract representations of a service implementation in the Networking service. It decouples the logical configuration from its instantiation enabling operators to create user options according to deployment needs.

Network v2

### 16.45.1. network flavor profile create

Create a new network flavor profile

```
openstack network flavor profile create  
  [--project <project> [--project-domain <project-domain>]]  
  [--description <description>]  
  [--enable | --disable]  
  (--driver <driver> | --metainfo <metainfo> | --driver <driver> --  
  metainfo <metainfo>)
```

**--project <project>**

Owner's project (name or ID) *Network version 2 only*

**--project-domain <project-domain>**

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

**--description <description>**

Description for the flavor profile *Network version 2 only*

**--enable**

Enable the flavor profile (default)

**--disable**

Disable the flavor profile

**--driver <driver>**

Python module path to driver *Network version 2 only*

**--metainfo <metainfo>**

Metainfo for the flavor profile *Network version 2 only*

**16.45.2. network flavor profile delete**

Delete network flavor profile

```
openstack network flavor profile delete
    <flavor-profile-id> [<flavor-profile-id> ...]
```

**<flavor-profile-id>**

Flavor profile(s) to delete (ID only)

**16.45.3. network flavor profile list**

List network flavor profiles

```
openstack network flavor profile list
```

**16.45.4. network flavor profile set**

Set network flavor profile properties

```
openstack network flavor profile set
    [--description <description>]
    [--driver <driver>]
    [--enable | --disable]
    [--metainfo <metainfo>]
    <flavor-profile-id>
```

**--description <description>**

Description of the flavor profile

**--driver <driver>**

Python module path to driver

**--enable (Default)**

Enable the flavor profile

**--disable**

Disable the flavor profile

**--metainfo <metainfo>**

Metainfo for the flavor profile

**<flavor-profile-id>**

Flavor profile to update (ID only)

### 16.45.5. network flavor profile show

Show network flavor profile

```
openstack network flavor profile show  
  <flavor-profile-id>
```

**<flavor-profile-id>**

Flavor profile to display (ID only)

## 16.46. NETWORK METER

A **network meter** allows operators to measure traffic for a specific IP range. The following commands are specific to the L3 metering extension.

Network v2

### 16.46.1. network meter create

Create network meter

```
openstack network meter create  
  [--project <project> [--project-domain <project-domain>]]  
  [--description <description>]  
  [--share | --no-share]  
  <name>
```

**--project <project>**

Owner's project (name of ID) *Network version 2 only*

**--description <description>**

Description of meter *Network version 2 only*

**--share**

Share the meter between projects

**--no-share**

Do not share the meter between projects (Default)

**<name>**

New meter name

### 16.46.2. network meter delete

Delete network meter(s)

```
openstack network meter delete
    <meter> [<meter> ...]
```

**<meter>**

Meter(s) to delete (name or ID)

### 16.46.3. network meter list

List network meters

```
openstack network meter list
```

### 16.46.4. network meter show

Show network meter

```
openstack network meter show
    <meter>
```

**<meter>**

Meter to display (name or ID)

## 16.47. NETWORK METER RULE

A **meter rule** sets the rule for a meter to measure traffic for a specific IP range. The following uses **meter** and requires the L3 metering extension.

Network v2

### 16.47.1. network meter rule create

Create meter rule

```
openstack network meter rule create
    --remote-ip-prefix <remote-ip-prefix>
    [--ingress | --egress]
    [--exclude | --include]
    [--project <project> [--project-domain <project-domain>]]
    <meter>
```

**--project <project>**

Owner's project (name or ID)

**--project-domain <project-domain>**

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

**--ingress**

Rule is applied to incoming traffic (default)

**--egress**

Rule is applied to outgoing traffic

**--exclude**

Exclude remote\_ip\_prefix from count of the traffic of IP addresses

**--include**

Include remote\_ip\_prefix into count of the traffic of IP addresses (default)

**--remote-ip-prefix <remote-ip-prefix>**

The remote IP prefix to associate with this metering rule packet

**<meter>**

Meter to associate with this meter rule (name or ID)

### 16.47.2. network meter rule delete

Delete meter rule(s)

```
openstack network meter rule delete <id> [<id> ...]
```

**<meter-rule-id>**

ID of meter rule(s) to delete

### 16.47.3. network meter rule list

List meter rules

```
openstack network meter rule list
```

### 16.47.4. network meter rule show

Show meter rule

```
openstack network meter rule show <meter-rule-id>
```

**<meter-rule-id>**

Meter rule to display (ID only)

## 16.48. NETWORK QOS POLICY



A **Network QoS policy** groups a number of Network QoS rules, applied to a network or a port.

Network v2

### 16.48.1. network qos policy create

Create new Network QoS policy

```
openstack network qos policy create
  [--description <description>]
  [--share | --no-share]
  [--project <project>]
  [--project-domain <project-domain>]
  <name>
```

#### **--description <description>**

Description of the QoS policy

#### **--share**

Make the QoS policy accessible by other projects

#### **--no-share**

Make the QoS policy not accessible by other projects (default)

#### **--project <project>**

Owner's project (name or ID)

#### **--project-domain <project-domain>**

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

#### **<name>**

New QoS policy specification name

### 16.48.2. network qos policy delete

Delete Network QoS policy

```
openstack network qos policy delete
  <qos-policy> [<qos-policy> ...]
```

#### **<qos-policy>**

Network QoS policy(s) to delete (name or ID)

### 16.48.3. network qos policy list

List Network QoS policies

```
openstack network qos policy list
```

```
[--project <project> [--project-domain <project-domain>]]  
[--share | --no-share]
```

**--project <project>**

List qos policies according to their project (name or ID)

**--project-domain <project-domain>**

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

**--share**

List qos policies shared between projects

**--no-share**

List qos policies not shared between projects

### 16.48.4. network qos policy set

Set Network QoS policy properties

```
openstack network qos policy set  
  [--name <name>]  
  [--description <description>]  
  [--share | --no-share]  
  <qos-policy>
```

**--name <name>**

Name of the QoS policy

**--description <description>**

Description of the QoS policy

**--share**

Make the QoS policy accessible by other projects

**--no-share**

Make the QoS policy not accessible by other projects

**<qos-policy>**

Network QoS policy to modify (name or ID)

### 16.48.5. network qos policy show

Display Network QoS policy details

```
openstack network qos policy show  
  <qos-policy>
```

**<qos-policy>**

Network QoS policy to display (name or ID)

## 16.49. NETWORK QOS RULE

A **Network QoS rule** specifies a rule defined in a Network QoS policy; its type is defined by the parameter 'type'. Can be assigned, within a Network QoS policy, to a port or a network. Each Network QoS policy can contain several rules, each of them

Network v2

### 16.49.1. network qos rule create

Create new Network QoS rule

```
openstack network qos rule create
  --type <type>
  [--max-kbps <max-kbps>]
  [--max-burst-kbits <max-burst-kbits>]
  [--dscp-marks <dscp-marks>]
  [--min-kbps <min-kbps>]
  [--ingress | --egress]
  <qos-policy>
```

**--type <type>**

QoS rule type (minimum-bandwidth, dscp-marking, bandwidth-limit)

**--max-kbps <min-kbps>**

Maximum bandwidth in kbps

**--max-burst-kbits <max-burst-kbits>**

Maximum burst in kilobits, 0 means automatic

**--dscp-mark <dscp-mark>**

DSCP mark: value can be 0, even numbers from 8-56, excluding 42, 44, 50, 52, and 54

**--min-kbps <min-kbps>**

Minimum guaranteed bandwidth in kbps

**--ingress**

Ingress traffic direction from the project point of view

**--egress**

Egress traffic direction from the project point of view

**<qos-policy>**

QoS policy that contains the rule (name or ID)

### 16.49.2. network qos rule delete

Delete Network QoS rule

```
openstack network qos rule delete  
    <qos-policy>  
    <rule-id>
```

**<qos-policy>**

QoS policy that contains the rule (name or ID)

**<rule-id>**

Network QoS rule to delete (ID)

### 16.49.3. network qos rule list

List Network QoS rules

```
openstack network qos rule list  
    <qos-policy>
```

**<qos-policy>**

QoS policy that contains the rule (name or ID)

### 16.49.4. network qos rule set

Set Network QoS rule properties

```
openstack network qos rule set  
    [--max-kbps <max-kbps>]  
    [--max-burst-kbits <max-burst-kbits>]  
    [--dscp-marks <dscp-marks>]  
    [--min-kbps <min-kbps>]  
    [--ingress | --egress]  
    <qos-policy>  
    <rule-id>
```

**--max-kbps <min-kbps>**

Maximum bandwidth in kbps

**--max-burst-kbits <max-burst-kbits>**

Maximum burst in kilobits, 0 means automatic

**--dscp-mark <dscp-mark>**

DSCP mark: value can be 0, even numbers from 8-56, excluding 42, 44, 50, 52, and 54

**--min-kbps <min-kbps>**

Minimum guaranteed bandwidth in kbps

**--ingress**

Ingress traffic direction from the project point of view

**--egress**

Egress traffic direction from the project point of view

**<qos-policy>**

QoS policy that contains the rule (name or ID)

**<rule-id>**

Network QoS rule to delete (ID)

### 16.49.5. network qos rule show

Display Network QoS rule details

```
openstack network qos rule show
    <qos-policy>
    <rule-id>
```

**<qos-policy>**

QoS policy that contains the rule (name or ID)

**<rule-id>**

Network QoS rule to delete (ID)

## 16.50. NETWORK QOS RULE TYPE

A **Network QoS rule type** is a specific Network QoS rule type available to be used.

Network v2

### 16.50.1. network qos rule type list

List Network QoS rule types

```
openstack network qos rule type list
```

## 16.51. NETWORK RBAC

A **network rbac** is a Role-Based Access Control (RBAC) policy for network resources. It enables both operators and users to grant access to network resources for specific projects.

Network v2

### 16.51.1. network rbac create

Create network RBAC policy

```
openstack network rbac create
```

```
--type <type>
--action <action>
--target-project <target-project> [--target-project-domain <target-
project-domain>]
[--project <project> [--project-domain <project-domain>]]
<rbac-policy>
```

**--type <type>**

Type of the object that RBAC policy affects ("qos\_policy" or "network") (required)

**--action <action>**

Action for the RBAC policy ("access\_as\_external" or "access\_as\_shared") (required)

**--target-project <target-project>**

The project to which the RBAC policy will be enforced (name or ID) (required)

**--target-project-domain <target-project-domain>**

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

**--project <project>**

The owner 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.

**<rbac-object>**

The object to which this RBAC policy affects (name or ID)

**16.51.2. network rbac delete**

Delete network RBAC policy(s)

```
openstack network rbac delete
  <rbac-policy> [<rbac-policy> ...]
```

**<rbac-policy>**

RBAC policy(s) to delete (ID only)

**16.51.3. network rbac list**

List network RBAC policies

```
openstack network rbac list
  [--type <type>]
  [--action <action>]
  [--long]
```

**--type <type>**

List network RBAC policies according to given object type ("qos\_policy" or "network")

**--action <action>**

List network RBAC policies according to given action ("access\_as\_external" or "access\_as\_shared")

**--long**

List additional fields in output

**16.51.4. network rbac set**

Set network RBAC policy properties

```
openstack network rbac set
  [--target-project <target-project> [--target-project-domain
  <target-project-domain>]]
  <rbac-policy>
```

**--target-project <target-project>**

The project to which the RBAC policy will be enforced (name or ID)

**--target-project-domain <target-project-domain>**

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

**<rbac-policy>**

RBAC policy to be modified (ID only)

**16.51.5. network rbac show**

Display network RBAC policy details

```
openstack network rbac show
  <rbac-policy>
```

**<rbac-policy>**

RBAC policy (ID only)

**16.52. NETWORK SEGMENT**

A **network segment** is an isolated Layer 2 segment within a network. A network may contain multiple network segments. Depending on the network configuration, Layer 2 connectivity between network segments within a network may not be guaranteed.

Network v2

**16.52.1. network segment create**

Create new network segment

```
openstack network segment create
  [--description <description>]
  [--physical-network <physical-network>]
  [--segment <segment>]
  --network <network>
  --network-type <network-type>
  <name>
```

**--description <description>**

Network segment description

**--physical-network <physical-network>**

Physical network name of this network segment

**--segment <segment>**

Segment identifier for this network segment which is based on the network type, VLAN ID for vlan network type and tunnel ID for geneve, gre and vxlan network types

**--network <network>**

Network this network segment belongs to (name or ID)

**--network-type <network-type>**

Network type of this network segment (flat, geneve, gre, local, vlan or vxlan)

**<name>**

New network segment name

### 16.52.2. network segment delete

Delete network segment(s)

```
openstack network segment delete
  <network-segment> [<network-segment> ...]
```

**<network-segment>**

Network segment(s) to delete (name or ID)

### 16.52.3. network segment list

List network segments

```
openstack network segment list
  [--long]
  [--network <network>]
```

**--long**



List additional fields in output

**--network <network>**

List network segments that belong to this network (name or ID)

#### 16.52.4. network segment set

Set network segment properties

```
openstack network segment set
  [--description <description>]
  [--name <name>]
  <network-segment>
```

**--description <description>**

Set network segment description

**--name <name>**

Set network segment name

**<network-segment>**

Network segment to modify (name or ID)

#### 16.52.5. network segment show

Display network segment details

```
openstack network segment show
  <network-segment>
```

**<network-segment>**

Network segment to display (name or ID)

### 16.53. NETWORK SERVICE PROVIDER

A **network service provider** is a particular driver that implements a networking service

Network v2

#### 16.53.1. network service provider list

List service providers

```
openstack network service provider list
```

### 16.54. OBJECT

Object Storage v1

### 16.54.1. object create

Upload object to container

```
openstack object create
  [--name <name>]
  <container>
  <filename> [<filename> ...]
```

**--name <name>**

Upload a file and rename it. Can only be used when uploading a single object

**<container>**

Container for new object

**<filename>**

Local filename(s) to upload

### 16.54.2. object delete

Delete object from container

```
openstack object delete
  <container>
  <object> [<object> ...]
```

**<container>**

Delete object(s) from <container>

**<object>**

Object(s) to delete

### 16.54.3. object list

List objects

```
openstack object list
  [--prefix <prefix>]
  [--delimiter <delimiter>]
  [--marker <marker>]
  [--end-marker <end-marker>]
  [--limit <num-objects>]
  [--long]
  [--all]
  <container>
```

**--prefix <prefix>**

Filter list using <prefix>

**--delimiter <delimiter>**

Roll up items with <delimiter>

**--marker <marker>**

Anchor for paging

**--end-marker <end-marker>**

End anchor for paging

**--limit <num-objects>**

Limit number of objects returned

**--long**

List additional fields in output

**--all**

List all objects in <container> (default is 10000)

**<container>**

Container to list

#### 16.54.4. object save

Save object locally

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

**--file <filename>**

Destination filename (defaults to object name)

**<container>**

Download <object> from <container>

**<object>**

Object to save

#### 16.54.5. object set

Set object properties

```
openstack object set
  [--property <key=value> [...] ]
  <container>
  <object>
```

**--property <key=value>**

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

**<container>**

Modify <object> from <container>

**<object>**

Object to modify

**16.54.6. object show**

Display object details

```
openstack object show
  <container>
  <object>
```

**<container>**

Display <object> from <container>

**<object>**

Object to display

**16.54.7. object unset**

Unset object properties

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

**--property <key>**

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

**<container>**

Modify <object> from <container>

**<object>**

Object to modify

**16.55. OBJECT STORE ACCOUNT**

Object Storage v1

**16.55.1. object store account set**

Set account properties

```
openstack object store account set
  [--property <key=value> [...] ]
```

**--property <key=value>**

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

### 16.55.2. object store account show

Display account details

```
openstack object store account show
```

### 16.55.3. object store account unset

Unset account properties

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

**--property <key>**

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

## 16.56. POLICY

Identity v3

### 16.56.1. policy create

Create new policy

```
openstack policy create
  [--type <type>]
  <filename>
```

**--type <type>**

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

**<filename>**

New serialized policy rules file

### 16.56.2. policy delete

Delete policy(s)

```
openstack policy delete
  <policy> [<policy> ...]
```

**<policy>**

Policy(s) to delete

### 16.56.3. policy list

List policies

```
openstack policy list
[--long]
```

**--long**

List additional fields in output

### 16.56.4. policy set

Set policy properties

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

**--type <type>**

New MIME type of the policy rules file

**--rules <filename>**

New serialized policy rules file

**<policy>**

Policy to modify

### 16.56.5. policy show

Display policy details

```
openstack policy show
<policy>
```

**<policy>**

Policy to display

## 16.57. PORT

A **port** is a connection point for attaching a single device, such as the NIC of a server, to a network. The port also describes the associated network configuration, such as the MAC and IP addresses to be used on that port.

Network v2

### 16.57.1. port create

Create new port

```
openstack port create
  --network <network>
  [--description <description>]
  [--fixed-ip subnet=<subnet>,ip-address=<ip-address>]
  [--device <device-id>]
  [--device-owner <device-owner>]
  [--vnic-type <vnic-type>]
  [--binding-profile <binding-profile>]
  [--host <host-id>]
  [--enable | --disable]
  [--mac-address <mac-address>]
  [--security-group <security-group> | --no-security-group]
  [--dns-name <dns-name>]
  [--allowed-address ip-address=<ip-address>[,mac-address=<mac-
address>]]
  [--qos-policy <qos-policy>]
  [--project <project> [--project-domain <project-domain>]]
  [--enable-port-security | --disable-port-security]
  <name>
```

#### **--network <network>**

Network this port belongs to (name or ID)

#### **--description <description>**

Description of this port

#### **--fixed-ip subnet=<subnet>,ip-address=<ip-address>**

Desired IP and/or subnet for this port (name or ID): subnet=<subnet>,ip-address=<ip-address> (repeat option to set multiple fixed IP addresses)

#### **--device <device-id>**

Port device ID

#### **--device-owner <device-owner>**

Device owner of this port. This is the entity that uses the port (for example, network:dhcp).

#### **--vnic-type <vnic-type>**

VNIC type for this port (direct | direct-physical | macvtap | normal | baremetal, default: normal)

#### **--binding-profile <binding-profile>**

Custom data to be passed as binding:profile. Data may be passed as <key>=<value> or JSON. (repeat option to set multiple binding:profile data)

#### **--host <host-id>**

Allocate port on host <host-id> (ID only)

**--enable**

Enable port (default)

**--disable**

Disable port

**--mac-address <mac-address>**

MAC address of this port

**--security-group <security-group>**

Security group to associate with this port (name or ID) (repeat option to set multiple security groups)

**--no-security-group**

Associate no security groups with this port

**--dns-name <dns-name>**

Set DNS name to this port (requires DNS integration extension)

**--allowed-address ip-address=<ip-address>[,mac-address=<mac-address>]**

Add allowed-address pair associated with this port: ip-address=<ip-address>[,mac-address=<mac-address>] (repeat option to set multiple allowed-address pairs)

**--qos-policy <qos-policy>**

Attach QoS policy to this port (name or ID)

**--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.

**--enable-port-security**

Enable port security for this port (Default)

**--disable-port-security**

Disable port security for this port

**<name>**

Name of this port

## 16.57.2. port delete

Delete port(s)

```
openstack port delete  
  <port> [<port> ...]
```



**<port>**

Port(s) to delete (name or ID)

### 16.57.3. port list

List ports

```

openstack port list
  [--device-owner <device-owner>]
  [--router <router> | --server <server>]
  [--network <network>]
  [--mac-address <mac-address>]
  [--fixed-ip subnet=<subnet>,ip-address=<ip-address>]
  [--long]
  [--project <project> [--project-domain <project-domain>]]

```

**--device-owner <device-owner>**

List only ports with the specified device owner. This is the entity that uses the port (for example, network:dhcp).

**--router <router>**

List only ports attached to this router (name or ID)

**--server <server>**

List only ports attached to this server (name or ID)

**--network <network>**

List only ports attached to this network (name or ID)

**--mac-address <mac-address>**

List only ports with this MAC address

**--fixed-ip subnet=<subnet>,ip-address=<ip-address>**

Desired IP and/or subnet for filtering ports (name or ID): subnet=&lt;subnet&gt;,ip-address=&lt;ip-address&gt; (repeat option to set multiple fixed IP addresses)

**--long**

List additional fields in output

**--project <project>**

List ports according to their project (name or ID)

**--project-domain <project-domain>**

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

### 16.57.4. port set

Set port properties

```

openstack port set
  [--description <description>]
  [--fixed-ip subnet=<subnet>,ip-address=<ip-address>]
  [--no-fixed-ip]
  [--device <device-id>]
  [--device-owner <device-owner>]
  [--vnic-type <vnic-type>]
  [--binding-profile <binding-profile>]
  [--no-binding-profile]
  [--host <host-id>]
  [--qos-policy <qos-policy>]
  [--enable | --disable]
  [--name <name>]
  [--mac-address <mac-address>]
  [--security-group <security-group>]
  [--no-security-group]
  [--enable-port-security | --disable-port-security]
  [--dns-name <dns-name>]
  [--allowed-address ip-address=<ip-address>[,mac-address=<mac-
address>]]
  [--no-allowed-address]
  <port>

```

**--description <description>**

Description of this port

**--fixed-ip subnet=<subnet>,ip-address=<ip-address>**

Desired IP and/or subnet for this port (name or ID): subnet=<subnet>,ip-address=<ip-address> (repeat option to set multiple fixed IP addresses)

**--no-fixed-ip**

Clear existing information of fixed IP addresses. Specify both **--fixed-ip** and **--no-fixed-ip** to overwrite the current fixed IP addresses.

**--device <device-id>**

Port device ID

**--device-owner <device-owner>**

Device owner of this port. This is the entity that uses the port (for example, network:dhcp).

**--vnic-type <vnic-type>**

VNIC type for this port (direct | direct-physical | macvtap | normal | baremetal, default: normal)

**--binding-profile <binding-profile>**

Custom data to be passed as binding:profile. Data may be passed as <key>=<value> or JSON. (repeat option to set multiple binding:profile data)

**--no-binding-profile**

Clear existing information of binding:profile. Specify both **--binding-profile** and **--no-binding-profile** to overwrite the current binding:profile information.

**--host <host-id>**

Allocate port on host **<host-id>** (ID only)

**--qos-policy <qos-policy>**

Attach QoS policy to this port (name or ID)

**--enable**

Enable port

**--disable**

Disable port

**--name**

Set port name

**--mac-address**

Set port's MAC address (admin only)

**--security-group <security-group>**

Security group to associate with this port (name or ID) (repeat option to set multiple security groups)

**--no-security-group**

Clear existing security groups associated with this port

**--enable-port-security**

Enable port security for this port

**--disable-port-security**

Disable port security for this port

**--dns-name <dns-name>**

Set DNS name to this port (requires DNS integration extension)

**--allowed-address ip-address=<ip-address>[,mac-address=<mac-address>]**

Add allowed-address pair associated with this port: ip-address=<ip-address>[,mac-address=<mac-address>] (repeat option to set multiple allowed-address pairs)

**--no-allowed-address**

Clear existing allowed-address pairs associated with this port. (Specify both --allowed-address and --no-allowed-address to overwrite the current allowed-address pairs)

**<port>**

Port to modify (name or ID)

**16.57.5. port show**

Display port details

```
openstack port show
    <port>
```

**<port>**

Port to display (name or ID)

### 16.57.6. port unset

Unset port properties

```
openstack port unset
    [--fixed-ip subnet=<subnet>,ip-address=<ip-address> [...]]
    [--binding-profile <binding-profile-key> [...]]
    [--security-group <security-group> [...]]
    [--allowed-address ip-address=<ip-address>[,mac-address=<mac-
address>] [...]]
    [--qos-policy]
    <port>
```

**--fixed-ip subnet=<subnet>,ip-address=<ip-address>**

Desired IP and/or subnet which should be removed from this port (name or ID): subnet=<subnet>,ip-address=<ip-address> (repeat option to unset multiple fixed IP addresses)

**--binding-profile <binding-profile-key>**

Desired key which should be removed from binding-profile (repeat option to unset multiple binding:profile data)

**--security-group <security-group>**

Security group which should be removed from this port (name or ID) (repeat option to unset multiple security groups)

**--allowed-address ip-address=<ip-address>[,mac-address=<mac-address>]**

Desired allowed-address pair which should be removed from this port: ip-address=<ip-address>[,mac-address=<mac-address>] (repeat option to unset multiple allowed-address pairs)

**--qos-policy**

Remove the QoS policy attached to the port

**<port>**

Port to modify (name or ID)

## 16.58. PROJECT

Identity v2, v3

### 16.58.1. project create

Create new project

```
openstack project create
  [--domain <domain>]
  [--parent <project>]
  [--description <description>]
  [--enable | --disable]
  [--property <key=value>]
  [--or-show]
  <name>
```

**--domain <domain>**

Domain owning the project (name or ID) New in version 3.

**--parent <project>**

Parent of the project (name or ID) New in version 3.

**--description <description>**

Project description

**--enable**

Enable project (default)

**--disable**

Disable project

**--property <key=value>**

Add a property to [<name>](#) (repeat option to set multiple properties)

**--or-show**

Return existing project If the project already exists return the existing project data and do not fail.

**<name>**

New project name

## 16.58.2. project delete

Delete project(s)

```
openstack project delete
  [--domain <domain>]
  <project> [<project> ...]
```

**--domain <domain>**

Domain owning [<project>](#) (name or ID) New in version 3.

**<project>**

Project to delete (name or ID)

### 16.58.3. project list

List projects

```
openstack project list
  [--domain <domain>]
  [--user <user>]
  [--my-projects]
  [--long]
  [--sort <key>[:<direction>,<key>:<direction>,..]]
```

#### **--domain <domain>**

Filter projects by **<domain>** (name or ID) New in version 3.

#### **--user <user>**

Filter projects by **<user>** (name or ID) New in version 3.

#### **--my-projects**

List projects for the authenticated user. Supersedes other filters. New in version 3.

#### **--long**

List additional fields in output

#### **--sort <key>[:<direction>,<key>:<direction>,..]**

Sort output by selected keys and directions (asc or desc) (default: asc), multiple keys and directions can be specified --sort <key>[:<direction>,<key>:<direction>,..]

### 16.58.4. project set

Set project properties

```
openstack project set
  [--name <name>]
  [--domain <domain>]
  [--description <description>]
  [--enable | --disable]
  [--property <key=value>]
  <project>
```

#### **--name <name>**

Set project name

#### **--domain <domain>**

Domain owning **<project>** (name or ID) New in version 3.

#### **--description <description>**

Set project description

**--enable**

Enable project (default)

**--disable**

Disable project

**--property <key=value>**

Set a property on [<project>](#) (repeat option to set multiple properties) *Identity version 2 only*

**<project>**

Project to modify (name or ID)

**16.58.5. project show**

Display project details

```
openstack project show
  [--domain <domain>]
  <project>
```

**--domain <domain>**

Domain owning [<project>](#) (name or ID) New in version 3.

**--parents**

Show the project's parents as a list New in version 3.

**--children**

Show project's subtree (children) as a list New in version 3.

**<project>**

Project to display (name or ID)

**16.58.6. project unset**

Unset project properties

```
_Identity version 2 only_
```

```
openstack project unset
  --property <key> [--property <key> ...]
  <project>
```

**--property <key>**

Property key to remove from project (repeat option to remove multiple properties)

**<project>**

Project to modify (name or ID)

## 16.59. QUOTA

Resource quotas appear in multiple APIs, OpenStackClient presents them as a single object with multiple properties.

Block Storage v1, v2, Compute v2, Network v2

### 16.59.1. quota list

List quotas for all projects with non-default quota values

```
openstack quota list
    --compute | --network | --volume
```

#### **--network**

List network quotas

#### **--compute**

List compute quotas

#### **--volume**

List volume quotas

### 16.59.2. quota set

Set quotas for project

```
openstack quota set
    # Compute settings
    [--cores <num-cores>]
    [--fixed-ips <num-fixed-ips>]
    [--floating-ips <num-floating-ips>]
    [--injected-file-size <injected-file-bytes>]
    [--injected-files <num-injected-files>]
    [--instances <num-instances>]
    [--key-pairs <num-key-pairs>]
    [--properties <num-properties>]
    [--ram <ram-mb>]
    [--server-groups <num-server-groups>]
    [--server-group-members <num-server-group-members>]

    # Block Storage settings
    [--backups <new-backups>]
    [--backup-gigabytes <new-backup-gigabytes>]
    [--gigabytes <new-gigabytes>]
    [--per-volume-gigabytes <new-per-volume-gigabytes>]
    [--snapshots <new-snapshots>]
    [--volumes <new-volumes>]
    [--volume-type <volume-type>]

    # Network settings
    [--floating-ips <num-floatingips>]
```



```

[--secgroup-rules <num-security-group-rules>]
[--secgroups <num-security-groups>]
[--networks <num-networks>]
[--subnets <num-subnets>]
[--ports <num-ports>]
[--routers <num-routers>]
[--rbac-policies <num-rbac-policies>]
[--vips <num-vips>]
[--subnetpools <num-subnetpools>]
[--members <num-members>]
[--health-monitors <num-health-monitors>]

<project>

```

Set quotas for class

```

openstack quota set
  --class
  # Compute settings
  [--cores <num-cores>]
  [--fixed-ips <num-fixed-ips>]
  [--floating-ips <num-floating-ips>]
  [--injected-file-size <injected-file-bytes>]
  [--injected-files <num-injected-files>]
  [--instances <num-instances>]
  [--key-pairs <num-key-pairs>]
  [--properties <num-properties>]
  [--ram <ram-mb>]
  [--server-groups <num-server-groups>]
  [--server-group-members <num-server-group-members>]

  # Block Storage settings
  [--backups <new-backups>]
  [--backup-gigabytes <new-backup-gigabytes>]
  [--gigabytes <new-gigabytes>]
  [--per-volume-gigabytes <new-per-volume-gigabytes>]
  [--snapshots <new-snapshots>]
  [--volumes <new-volumes>]

  <class>

```

#### **--class**

Set quotas for **<class>**

#### **--properties <new-properties>**

New value for the properties quota

#### **--ram <new-ram>**

New value for the ram quota

#### **--secgroup-rules <new-secgroup-rules>**

New value for the secgroup-rules quota

**--instances <new-instances>**

New value for the instances quota

**--key-pairs <new-key-pairs>**

New value for the key-pairs quota

**--fixed-ips <new-fixed-ips>**

New value for the fixed-ips quota

**--secgroups <new-secgroups>**

New value for the secgroups quota

**--injected-file-size <new-injected-file-size>**

New value for the injected-file-size quota

**--server-groups <new-server-groups>**

New value for the server-groups quota

**--server-group-members <new-server-group-members>**

New value for the server-group-members quota

**--floating-ips <new-floating-ips>**

New value for the floating-ips quota

**--injected-files <new-injected-files>**

New value for the injected-files quota

**--cores <new-cores>**

New value for the cores quota

**--injected-path-size <new-injected-path-size>**

New value for the injected-path-size quota

**--backups <new-backups>**

New value for the backups quota

**--backup-gigabytes <new-backup-gigabytes>**

New value for the backup gigabytes quota

**--gigabytes <new-gigabytes>**

New value for the gigabytes quota

**--per-volume-gigabytes <new-per-volume-gigabytes>**

New value for the gigabytes quota of per volume

**--volumes <new-volumes>**

New value for the volumes quota

**--snapshots <new-snapshots>**

New value for the snapshots quota

**--volume-type <volume-type>**

Set quotas for a specific <volume-type>. The supported quotas are: gigabytes, snapshots, volumes.

**--networks <num-networks>**

New value for the networks quota

**--subnets <num-subnets>**

New value for the subnets quota

**--ports <num-ports>**

New value for the ports quota

**--routers <num-routers>**

New value for the routers quota

**--rbac-policies <num-rbac-policies>**

New value for the rbac-policies quota

**--vips <num-vips>**

New value for the vips quota

**--subnetpools <num-subnetpools>**

New value for the subnetpools quota

**--members <num-members>**

New value for the members quota

**--health-monitors <num-health-monitors>**

New value for the health-monitors quota

### 16.59.3. quota show

Show quotas for project or class

```

openstack quota show
  [--default]
  [<project>]

```

**--default**

Show default quotas for [<project>](#)

**<project>**

Show quotas for this project (name or ID)

```
openstack quota show
  --class
  [<class>]
```

**--class**

Show quotas for <class>

**<class>**

Show quotas for this class (name or ID)

## 16.60. REGION

Identity v3

### 16.60.1. region create

Create new region

```
openstack region create
  [--parent-region <region-id>]
  [--description <description>]
  <region-id>
```

**--parent-region <region-id>**

Parent region ID

**--description <description>**

New region description

**<region-id>**

New region ID

### 16.60.2. region delete

Delete region(s)

```
openstack region delete
  <region-id> [<region-id> ...]
```

**<region-id>**

Region ID(s) to delete

### 16.60.3. region list

List regions

```
openstack region list
  [--parent-region <region-id>]
```

**--parent-region <region-id>**

Filter by parent region ID

#### 16.60.4. region set

Set region properties

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

**--parent-region <region-id>**

New parent region ID

**--description <description>**

New region description

**<region-id>**

Region to modify

#### 16.60.5. region show

Display region details

```
openstack region show
  <region-id>
```

**<region-id>**

Region to display

### 16.61. REQUEST TOKEN

Identity v3

Requires: OS-OAUTH1 extension

#### 16.61.1. request token authorize

Authorize a request token

```
openstack request token authorize
  --request-key <consumer-key>
  --role <role>
```

**--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)

## 16.61.2. request token create

Create a request token

```
openstack request token create
  --consumer-key <consumer-key>
  --consumer-secret <consumer-secret>
  --project <project>
  [--domain <domain>]
```

**--consumer-key <consumer-key>**

Consumer key (required)

**--description <description>**

Consumer secret (required)

**--project <project>**

Project that consumer wants to access (name or ID) (required)

**--domain <domain>**

Domain owning <project> (name or ID)

## 16.62. ROLE

Identity v2, v3

### 16.62.1. role add

Add role assignment to a user or group in a project or domain

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

**--domain <domain>**

Include <domain> (name or ID) New in version 3.

**--project <project>**

Include <project> (name or ID)

**--user <user>**

Include <user> (name or ID)

**--group <group>**

Include <group> (name or ID) New in version 3.

**--user-domain <user-domain>**

Domain the user belongs to (name or ID). This can be used in case collisions between user names exist. New in version 3.

**--group-domain <group-domain>**

Domain the group belongs to (name or ID). This can be used in case collisions between group names exist. New in version 3.

**--project-domain <project-domain>**

Domain the project belongs to (name or ID). This can be used in case collisions between project names exist. New in version 3.

**--inherited**

Specifies if the role grant is inheritable to the sub projects. New in version 3.

**--role-domain <role-domain>**

Domain the role belongs to (name or ID). This must be specified when the name of a domain specific role is used. New in version 3.

**<role>**

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

## 16.62.2. role create

Create new role

```
openstack role create
  [--or-show]
  [--domain <domain>]
  <name>
```

**--domain <domain>**

Domain the role belongs to (name or ID). New in version 3.

**--or-show**

Return existing role If the role already exists return the existing role data and do not fail.

**<name>**

New role name

## 16.62.3. role delete

Delete role(s)

```
openstack role delete
    <role> [<role> ...]
    [--domain <domain>]
```

**<role>**

Role to delete (name or ID)

**--domain <domain>**

Domain the role belongs to (name or ID). New in version 3.

## 16.62.4. role list

List roles

```
openstack role list
    --domain <domain> | --project <project> [--project-domain <project-
domain>]
    --user <user> [--user-domain <user-domain>] | --group <group> [--
group-domain <group-domain>]
    --inherited
```

**--domain <domain>**

Filter roles by <domain> (name or ID) (Deprecated if being used to list assignments in conjunction with the **--user <user>**, option, please use **role assignment list** instead)

**--project <project>**

Filter roles by <project> (name or ID) (Deprecated, please use **role assignment list** instead)

**--user <user>**

Filter roles by <user> (name or ID) (Deprecated, please use **role assignment list** instead)

**--group <group>**

Filter roles by <group> (name or ID) (Deprecated, please use **role assignment list** instead)

**--user-domain <user-domain>**

Domain the user belongs to (name or ID). This can be used in case collisions between user names exist. (Deprecated, please use **role assignment list** instead) New in version 3.

**--group-domain <group-domain>**



Domain the group belongs to (name or ID). This can be used in case collisions between group names exist. (Deprecated, please use **role assignment list** instead) New in version 3.

**--project-domain <project-domain>**

Domain the project belongs to (name or ID). This can be used in case collisions between project names exist. (Deprecated, please use **role assignment list** instead) New in version 3.

**--inherited**

Specifies if the role grant is inheritable to the sub projects. (Deprecated, please use **role assignment list** instead) New in version 3.

## 16.62.5. role remove

Remove role assignment from domain/project : user/group

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

**--domain <domain>**

Include <domain> (name or ID) New in version 3.

**--project <project>**

Include <project> (name or ID)

**--user <user>**

Include <user> (name or ID)

**--group <group>**

Include <group> (name or ID) New in version 3.

**--user-domain <user-domain>**

Domain the user belongs to (name or ID). This can be used in case collisions between user names exist. New in version 3.

**--group-domain <group-domain>**

Domain the group belongs to (name or ID). This can be used in case collisions between group names exist. New in version 3.

**--project-domain <project-domain>**

Domain the project belongs to (name or ID). This can be used in case collisions between project names exist. New in version 3.

**--inherited**

Specifies if the role grant is inheritable to the sub projects. New in version 3.

**--role-domain <role-domain>**

Domain the role belongs to (name or ID). This must be specified when the name of a domain specific role is used. New in version 3.

**<role>**

Role to remove (name or ID)

## 16.62.6. role set

Set role properties

New in version 3.

```
openstack role set
  [--name <name>]
  [--domain <domain>]
  <role>
```

**--name <name>**

Set role name

**--domain <domain>**

Domain the role belongs to (name or ID). New in version 3.

**<role>**

Role to modify (name or ID)

## 16.62.7. role show

Display role details

```
openstack role show
  [--domain <domain>]
  <role>
```

**--domain <domain>**

Domain the role belongs to (name or ID). New in version 3.

**<role>**

Role to display (name or ID)

## 16.63. ROLE ASSIGNMENT

Identity v2, v3

### 16.63.1. role assignment list

List role assignments

```
openstack role assignment list
  [--role <role>]
  [--role-domain <role-domain>]
  [--user <user>]
  [--user-domain <user-domain>]
  [--group <group>]
  [--group-domain <group-domain>]
  [--domain <domain>]
  [--project <project>]
  [--project-domain <project-domain>]
  [--effective]
  [--inherited]
  [--names]
```

#### **--role <role>**

Role to filter (name or ID) New in version 3.

#### **--role-domain <role-domain>**

Domain the role belongs to (name or ID). This can be used in case collisions between role names exist. New in version 3.

#### **--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. New in version 3.

#### **--group <group>**

Group to filter (name or ID) New in version 3.

#### **--group-domain <group-domain>**

Domain the group belongs to (name or ID). This can be used in case collisions between group names exist. New in version 3.

#### **--domain <domain>**

Domain to filter (name or ID) New in version 3.

#### **--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. New in version 3.

#### **--effective**

Returns only effective role assignments (defaults to False) New in version 3.

**--inherited**

Specifies if the role grant is inheritable to the sub projects New in version 3.

**--names**

Returns role assignments with names instead of IDs

**--auth-user**

Returns role assignments for the authenticated user.

**--auth-project**

Returns role assignments for the project to which the authenticated user is scoped.

## 16.64. ROUTER

A **router** is a logical component that forwards data packets between networks. It also provides Layer 3 and NAT forwarding to provide external network access for servers on project networks.

Network v2

### 16.64.1. router add port

Add a port to a router

```
openstack router add port  
  <router>  
  <port>
```

**<router>**

Router to which port will be added (name or ID)

**<port>**

Port to be added (name or ID)

### 16.64.2. router add subnet

Add a subnet to a router

```
openstack router add subnet  
  <router>  
  <subnet>
```

**<router>**

Router to which subnet will be added (name or ID)

**<subnet>**

Subnet to be added (name or ID)

### 16.64.3. router create

Create new router

```
openstack router create
  [--project <project> [--project-domain <project-domain>]]
  [--enable | --disable]
  [--distributed | --centralized]
  [--ha | --no-ha]
  [--description <description>]
  [--availability-zone-hint <availability-zone>]
  <name>
```

#### **--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.

#### **--enable**

Enable router (default)

#### **--disable**

Disable router

#### **--distributed**

Create a distributed router The default router type (distributed vs centralized) is determined by a configuration setting in the OpenStack deployment. Since we are unable to know that default without attempting to actually create a router it is suggested to use either **--distributed** or **--centralized** in situations where multiple cloud deployments may be used.

#### **--centralized**

Create a centralized router See the note in **--distributed** regarding the default used when creating a new router.

#### **--ha**

Create a highly available router

#### **--no-ha**

Create a legacy router

#### **--description <description>**

Set router description

#### **--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)

**<name>**

New router name

#### 16.64.4. router delete

Delete router(s)

```
openstack router delete
  <router> [<router> ...]
```

**<router>**

Router(s) to delete (name or ID)

#### 16.64.5. router list

List routers

```
openstack router list
  [--name <name>]
  [--enable | --disable]
  [--long]
  [--project <project> [--project-domain <project-domain>]]
```

**--long**

List additional fields in output

**--name <name>**

List routers according to their name

**--enable**

List enabled routers

**--disable**

List disabled routers

**--project <project>**

List routers according to their project (name or ID)

**--project-domain <project-domain>**

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

#### 16.64.6. router remove port

Remove a port from a router

```
openstack router remove port
  <router>
  <port>
```

■

**<router>**

Router from which port will be removed (name or ID)

**<port>**

Port to be removed and deleted (name or ID)

### 16.64.7. router remove subnet

Remove a subnet from a router

```

openstack router remove subnet
    <router>
    <subnet>

```

**<router>**

Router from which subnet will be removed (name or ID)

**<subnet>**

Subnet to be removed (name or ID)

### 16.64.8. router set

Set router properties

```

openstack router set
    [--name <name>]
    [--enable | --disable]
    [--distributed | --centralized]
    [--description <description>]
    [--route destination=<subnet>,gateway=<ip-address> | --no-route]
    [--ha | --no-ha]
    [--external-gateway <network> [--enable-snat|--disable-snat] [--
fixed-ip subnet=<subnet>,ip-address=<ip-address>]]
    <router>

```

**--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)

**--description <description>**

Set router description

**--route destination=<subnet>,gateway=<ip-address>**

Routes associated with the router destination: destination subnet (in CIDR notation)  
gateway: nexthop IP address (repeat option to set multiple routes)

**--no-route**

Clear routes associated with the router. Specify both --route and --no-route to overwrite current value of route.

**--ha**

Set the router as highly available (disabled router only)

**--no-ha**

Clear high availability attribute of the router (disabled router only)

**--external-gateway <network>**

External Network used as router's gateway (name or ID)

**--enable-snat**

Enable Source NAT on external gateway

**--disable-snat**

Disable Source NAT on external gateway

**--fixed-ip subnet=<subnet>,ip-address=<ip-address>**

Desired IP and/or subnet (name or ID) on external gateway: subnet=<subnet>,ip-address=<ip-address> (repeat option to set multiple fixed IP addresses)

**<router>**

Router to modify (name or ID)

## 16.64.9. router show

Display router details

```
openstack router show  
  <router>
```

**<router>**

Router to display (name or ID)

## 16.64.10. router unset



Unset router properties

```
openstack router unset
  [--route destination=<subnet>,gateway=<ip-address>]
  [--external-gateway]
  <router>
```

**--route destination=<subnet>,gateway=<ip-address>**

Routes to be removed from the router destination: destination subnet (in CIDR notation)  
gateway: nexthop IP address (repeat option to unset multiple routes)

**--external-gateway**

Remove external gateway information from the router

**<router>**

Router to modify (name or ID)

## 16.65. SECURITY GROUP

A **security group** acts as a virtual firewall for servers and other resources on a network. It is a container for security group rules which specify the network access rules.

Compute v2, Network v2

### 16.65.1. security group create

Create a new security group

```
openstack security group create
  [--description <description>]
  [--project <project> [--project-domain <project-domain>]]
  <name>
```

**--description <description>**

Security group description

**--project <project>**

Owner's project (name or ID) *Network version 2 only*

**--project-domain <project-domain>**

Domain the project belongs to (name or ID). This can be used in case collisions between project names exist. *Network version 2 only*

**<name>**

New security group name

### 16.65.2. security group delete

Delete security group(s)

```
openstack security group delete
    <group> [<group> ...]
```

**<group>**

Security group(s) to delete (name or ID)

### 16.65.3. security group list

List security groups

```
openstack security group list
    [--all-projects]
    [--project <project> [--project-domain <project-domain>]]
```

**--all-projects**

Display information from all projects (admin only) *Network version 2 ignores this option and will always display information for all projects (admin only).*

**--project <project>**

List security groups according to the project (name or ID) *Network version 2 only*

**--project-domain <project-domain>**

Domain the project belongs to (name or ID). This can be used in case collisions between project names exist. *Network version 2 only*

### 16.65.4. security group set

Set security group properties

```
openstack security group set
    [--name <new-name>]
    [--description <description>]
    <group>
```

**--name <new-name>**

New security group name

**--description <description>**

New security group description

**<group>**

Security group to modify (name or ID)

### 16.65.5. security group show

Display security group details

```
openstack security group show
    <group>
```

**<group>**

Security group to display (name or ID)

## 16.66. SECURITY GROUP RULE

A **security group rule** specifies the network access rules for servers and other resources on the network.

Compute v2, Network v2

### 16.66.1. security group rule create

Create a new security group rule

```
openstack security group rule create
    [--remote-ip <ip-address> | --remote-group <group>]
    [--dst-port <port-range> | [--icmp-type <icmp-type> [--icmp-code
    <icmp-code>]]]
    [--protocol <protocol>]
    [--ingress | --egress]
    [--ethertype <ethertype>]
    [--project <project> [--project-domain <project-domain>]]
    [--description <description>]
    <group>
```

**--remote-ip <ip-address>**

Remote IP address block (may use CIDR notation; default for IPv4 rule: 0.0.0.0/0)

**--remote-group <group>**

Remote 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.

**--icmp-type <icmp-type>**

ICMP type for ICMP IP protocols *Network version 2 only*

**--icmp-code <icmp-code>**

ICMP code for ICMP IP protocols *Network version 2 only*

**--protocol <protocol>**

IP protocol (icmp, tcp, udp; default: tcp) *Compute version 2* IP protocol (ah, dccp, egg, esp, gre, icmp, igmp, ipv6-encap, ipv6-frag, ipv6-icmp, ipv6-nonxt, ipv6-opts, ipv6-route, ospf, pgm, rsvp, sctp, tcp, udp, udplite, vrrp and integer representations [0-255]; default: tcp) *Network version 2*

**--ingress**

Rule applies to incoming network traffic (default) *Network version 2 only*

**--egress**

Rule applies to outgoing network traffic *Network version 2 only*

**--ethertype <ethertype>**

Ethertype of network traffic (IPv4, IPv6; default: based on IP protocol) *Network version 2 only*

**--project <project>**

Owner's project (name or ID) *Network version 2 only*

**--project-domain <project-domain>**

Domain the project belongs to (name or ID). This can be used in case collisions between project names exist. *Network version 2 only*

**--description <description>**

Set security group rule description *Network version 2 only*

**<group>**

Create rule in this security group (name or ID)

### 16.66.2. security group rule delete

Delete security group rule(s)

```
openstack security group rule delete  
  <rule> [<rule> ...]
```

**<rule>**

Security group rule(s) to delete (ID only)

### 16.66.3. security group rule list

List security group rules

```
openstack security group rule list  
  [--all-projects]  
  [--protocol <protocol>]  
  [--ingress | --egress]  
  [--long]  
  [<group>]
```

**--all-projects**

Display information from all projects (admin only) *Network version 2 ignores this option and will always display information for all projects (admin only).*

**--long**

List additional fields in output *Compute version 2 does not have additional fields to display.*

### **--protocol**

List rules by the IP protocol (ah, dhcp, egp, esp, gre, icmp, igmp, ipv6-encap, ipv6-frag, ipv6-icmp, ipv6-nonxt, ipv6-opts, ipv6-route, ospf, pgm, rsvp, sctp, tcp, udp, udplite, vrrp and integer representations [0-255]) *Network version 2*

### **--ingress**

List rules applied to incoming network traffic *Network version 2 only*

### **--egress**

List rules applied to outgoing network traffic *Network version 2 only*

### **<group>**

List all rules in this security group (name or ID)

## **16.66.4. security group rule show**

Display security group rule details

```
openstack security group rule show
<rule>
```

### **<rule>**

Security group rule to display (ID only)

## **16.67. SERVER**

Compute v2

### **16.67.1. server add fixed ip**

Add fixed IP address to server

```
openstack server add fixed ip
[--fixed-ip-address <ip-address>]
<server>
<network>
```

### **--fixed-ip-address <ip-address>**

Requested fixed IP address

### **<server>**

Server to receive the fixed IP address (name or ID)

### **<network>**

Network to allocate the fixed IP address from (name or ID)

### 16.67.2. server add floating ip

Add floating IP address to server

```
openstack server add floating ip
  [--fixed-ip-address <ip-address>]
  <server>
  <ip-address>
```

#### **--fixed-ip-address <ip-address>**

Fixed IP address to associate with this floating IP address

#### **<server>**

Server to receive the floating IP address (name or ID)

#### **<ip-address>**

Floating IP address to assign to server (IP only)

### 16.67.3. server add port

Add port to server

```
openstack server add port
  <server>
  <port>
```

#### **<server>**

Server to add the port to (name or ID)

#### **<port>**

Port to add to the server (name or ID)

### 16.67.4. server add security group

Add security group to server

```
openstack server add security group
  <server>
  <group>
```

#### **<server>**

Server (name or ID)

#### **<group>**

Security group to add (name or ID)

### 16.67.5. server add volume

Add volume to server

```
openstack server add volume
  [--device <device>]
  <server>
  <volume>
```

**--device <device>**

Server internal device name for volume

**<server>**

Server (name or ID)

**<volume>**

Volume to add (name or ID)

### 16.67.6. server create

Create a new server

```
openstack server create
  --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,auto,none> [...] ]
  [--network <network>]
  [--port <port>]
  [--hint <key=value> [...] ]
  [--config-drive <value>|True ]
  [--min <count>]
  [--max <count>]
  [--wait]
  <server-name>
```

**--image <image>**

Create server boot disk from this image (name or ID)

**--volume <volume>**

Create server using this volume as the boot disk (name or ID) This option automatically creates a block device mapping with a boot index of 0. On many hypervisors (libvirt/kvm for example) this will be device **vda**. Do not create a duplicate mapping using **--block-device-mapping** for this volume.

**--flavor <flavor>**

Create server with this flavor (name or ID)

**--security-group <security-group-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,auto,none>**

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). none: (v2.37+) no network is attached. auto: (v2.37+) the compute service will automatically allocate a network. Specifying a --nic of auto or none cannot be used with any other --nic value.

**--network <network>**

Create a NIC on the server and connect it to network. Specify option multiple times to create multiple NICs. For more options on NICs see --nic parameter. network: attach NIC to this network

**--port <port>**

Create a NIC on the server and connect it to port. Specify option multiple times to create multiple NICs. For more options on NICs see --nic parameter. port: attach NIC to this port

**--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

**<server-name>**

New server name