Red Hat OpenStack Platform 10
Command-Line Interface Reference

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

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	`ironic`	python-ironicclient	Manage and provision physical machines.
Block Storage	`cinder`	python-cinderclient	Create and manage volumes.
Compute	`nova`	python-novaclient	Create and manage images, instances, and flavors.
Director	`tripleoclient`	python-tripleoclient	Manage a director-based cloud.
Identity	`keystone`	python-keystoneclient	Create and manage users, tenants, roles, endpoints, and credentials.
Image Service	`glance`	python-glanceclient	Create and manage images.
Hardware Introspection for Bare Metal	`ironic-inspector`	openstack-ironic-inspector	An auxiliary service for discovering hardware properties for the Bare Metal service.
Hardware Introspection for Bare Metal	`openstack baremetal introspection`	python-ironic-inspector-client	A client for the bare metal hardware introspection.

Service	Client	Package	Description
Networking	**neutron**	python-neutronclient	Configure networks for guest servers. This client was previously called **quantum**.
Object Storage	**swift**	python-swiftclient	Gather statistics, list items, update metadata, and upload, download, and delete files stored by the Object Storage service. Gain access to an Object Storage installation for ad hoc processing.
Orchestration	**heat**	python-heatclient	Launch stacks from templates, view details of running stacks including events and resources, and update and delete stacks.
Telemetry	**ceilometer**	python-ceilometerclient	Create and collect measurements across OpenStack.

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 **Access & Security**.

2. On the API Access tab, click **Download OpenStack RC File** and save the file. The filename will be of the form *PROJECT-openrc.sh* where *PROJECT* is the name of the project for which you downloaded the file.

3. Copy the *PROJECT-openrc.sh* file to the computer from which you want to run OpenStack commands.

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

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

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

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

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. OPENSTACK COMMAND-LINE CLIENT

The **openstack** client is a common OpenStack command-line interface (CLI). This chapter documents **openstack** version **3.2.0**.

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

```
$ openstack help COMMAND
```

2.1. OPENSTACK USAGE

```
usage: openstack [--version] [-v | -q] [--log-file LOG_FILE] [-h] [--
debug]
                 [--os-cloud <cloud-config-name>]
                 [--os-region-name <auth-region-name>]
                 [--os-cacert <ca-bundle-file>] [--os-cert
<certificate-file>]
                 [--os-key <key-file>] [--verify | --insecure]
                 [--os-default-domain <auth-domain>]
                 [--os-interface <interface>] [--timing] [--os-beta-
command]
                 [--os-profile hmac-key]
                 [--os-compute-api-version <compute-api-version>]
                 [--os-network-api-version <network-api-version>]
                 [--os-image-api-version <image-api-version>]
                 [--os-volume-api-version <volume-api-version>]
                 [--os-identity-api-version <identity-api-version>]
                 [--os-object-api-version <object-api-version>]
                 [--os-metrics-api-version <metrics-api-version>]
                 [--os-data-processing-api-version <data-processing-
api-version>]
                 [--os-data-processing-url OS_DATA_PROCESSING_URL]
                 [--os-orchestration-api-version <orchestration-api-
version>]
                 [--os-dns-api-version <dns-api-version>]
                 [--os-alarming-api-version <alarming-api-version>]
                 [--os-key-manager-api-version <key-manager-api-
version>]
                 [--os-application-catalog-api-version <application-
catalog-api-version>]
                 [--murano-url MURANO_URL]
                 [--inspector-api-version INSPECTOR_API_VERSION]
                 [--inspector-url INSPECTOR_URL]
                 [--os-container-infra-api-version <container-infra-
api-version>]
                 [--os-queues-api-version <queues-api-version>]
                 [--os-baremetal-api-version <baremetal-api-version>]
                 [--os-workflow-api-version <workflow-api-version>]
                 [--os-auth-type <auth-type>]
                 [--os-authorization-code <auth-authorization-code>]
                 [--os-project-domain-id <auth-project-domain-id>]
                 [--os-protocol <auth-protocol>]
                 [--os-project-name <auth-project-name>]
```

```
                     [--os-trust-id <auth-trust-id>]
                     [--os-consumer-key <auth-consumer-key>]
                     [--os-domain-name <auth-domain-name>]
                     [--os-access-secret <auth-access-secret>]
                     [--os-user-domain-id <auth-user-domain-id>]
                     [--os-access-token-type <auth-access-token-type>]
                     [--os-identity-provider-url <auth-identity-provider-
url>]
                     [--os-default-domain-name <auth-default-domain-name>]
                     [--os-access-token-endpoint <auth-access-token-
endpoint>]
                     [--os-access-token <auth-access-token>]
                     [--os-domain-id <auth-domain-id>]
                     [--os-user-domain-name <auth-user-domain-name>]
                     [--os-openid-scope <auth-openid-scope>]
                     [--os-user-id <auth-user-id>]
                     [--os-identity-provider <auth-identity-provider>]
                     [--os-username <auth-username>]
                     [--os-auth-url <auth-auth-url>]
                     [--os-client-secret <auth-client-secret>]
                     [--os-default-domain-id <auth-default-domain-id>]
                     [--os-discovery-endpoint <auth-discovery-endpoint>]
                     [--os-client-id <auth-client-id>]
                     [--os-project-domain-name <auth-project-domain-name>]
                     [--os-access-key <auth-access-key>]
                     [--os-password <auth-password>]
                     [--os-redirect-uri <auth-redirect-uri>]
                     [--os-endpoint <auth-endpoint>]
                     [--os-aodh-endpoint <auth-aodh-endpoint>]
                     [--os-roles <auth-roles>] [--os-url <auth-url>]
                     [--os-consumer-secret <auth-consumer-secret>]
                     [--os-token <auth-token>] [--os-passcode <auth-
passcode>]
                     [--os-project-id <auth-project-id>]
```

2.2. OPENSTACK OPTIONAL ARGUMENTS

--version

show program's version number and exit

-v, --verbose

Increase verbosity of output. Can be repeated.

-q, --quiet

Suppress output except warnings and errors.

`--log-file LOG_FILE`

Specify a file to log output. Disabled by default.

`-h, --help`

Show help message and exit.

`--debug`

Show tracebacks on errors.

`--os-cloud <cloud-config-name>`

Cloud name in clouds.yaml (Env: OS_CLOUD)

`--os-region-name <auth-region-name>`

Authentication region name (Env: OS_REGION_NAME)

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

CA certificate bundle file (Env: OS_CACERT)

`--os-cert <certificate-file>`

Client certificate bundle file (Env: OS_CERT)

`--os-key <key-file>`

Client certificate key file (Env: OS_KEY)

`--verify`

Verify server certificate (default)

`--insecure`

Disable server certificate verification

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

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

`--os-interface <interface>`

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

`--timing`

       Print API call timing info

`--os-beta-command`

       Enable beta commands which are subject to change

`--os-profile`

       hmac-key
       HMAC key for encrypting profiling context data

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

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

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

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

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

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

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

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

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

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

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

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

--os-metrics-api-version <metrics-api-version>

Metrics API version, default=1 (Env:
OS_METRICS_API_VERSION)

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

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

--os-data-processing-url OS_DATA_PROCESSING_URL

Data processing API URL, (Env:
OS_DATA_PROCESSING_API_URL)

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

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

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

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

--os-alarming-api-version <alarming-api-version>

Queues API version, default=2 (Env:
OS_ALARMING_API_VERSION)

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

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

--os-application-catalog-api-version <application-catalog-api-version>

Application catalog API version,
default=1(Env:OS_APPLICATION_CATALOG_API_VERSION)

--murano-url MURANO_URL

Defaults to **env[MURANO_URL]**.

--inspector-api-version INSPECTOR_API_VERSION

inspector API version, only 1 is supported now (env:
INSPECTOR_VERSION).

--inspector-url INSPECTOR_URL

inspector URL, defaults to localhost (env:
INSPECTOR_URL).

--os-container-infra-api-version <container-infra-api-version>

Container-Infra API version, default=1 (Env:
OS_CONTAINER_INFRA_API_VERSION)

--os-queues-api-version <queues-api-version>

Queues API version, default=2 (Env:
OS_QUEUES_API_VERSION)

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

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

--os-workflow-api-version <workflow-api-version>

Workflow API version, default=2 (Env:
OS_WORKFLOW_API_VERSION)

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

Select an authentication type. Available types:
v2token, password, admin_token, v3oidcauthcode,
v3oidcpassword, v2password, v3samlpassword,
v3password, v3oidcaccesstoken, token_endpoint,
v3kerberos, v3totp, token, v3oidcclientcredentials,
v3tokenlessauth, gnocchi-noauth, v3token, v3oauth1,
aodh-noauth, v3fedkerb. Default: selected based on
--os-username/--os-token (Env: OS_AUTH_TYPE)

--os-authorization-code <auth-authorization-code>

With v3oidcauthcode: OAuth 2.0 Authorization Code
(Env: OS_AUTHORIZATION_CODE)

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

With password: Domain ID containing project With
v3oidcauthcode: Domain ID containing project With
v3oidcpassword: Domain ID containing project With
v3samlpassword: Domain ID containing project With
v3password: Domain ID containing project With
v3oidcaccesstoken: Domain ID containing project With
v3kerberos: Domain ID containing project With v3totp:
Domain ID containing project With token: Domain ID
containing project With v3oidcclientcredentials:
Domain ID containing project With v3tokenlessauth:
Domain ID containing project With v3token: Domain ID
containing project With v3fedkerb: Domain ID
containing project (Env: OS_PROJECT_DOMAIN_ID)

--os-protocol <auth-protocol>

With v3oidcauthcode: Protocol for federated plugin
With v3oidcpassword: Protocol for federated plugin
With v3samlpassword: Protocol for federated plugin
With v3oidcaccesstoken: Protocol for federated plugin
With v3oidcclientcredentials: Protocol for federated
plugin (Env: OS_PROTOCOL)

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

With password: Project name to scope to With
v3oidcauthcode: Project name to scope to With
v3oidcpassword: Project name to scope to With
v3samlpassword: Project name to scope to With
v3password: Project name to scope to With
v3oidcaccesstoken: Project name to scope to With
v3kerberos: Project name to scope to With v3totp:
Project name to scope to With token: Project name to
scope to With v3oidcclientcredentials: Project name to
scope to With v3tokenlessauth: Project name to scope
to With v3token: Project name to scope to With
v3fedkerb: Project name to scope to (Env:
OS_PROJECT_NAME)

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

With v2token: Trust ID With password: Trust ID With
v3oidcauthcode: Trust ID With v3oidcpassword: Trust ID
With v2password: Trust ID With v3samlpassword: Trust
ID With v3password: Trust ID With v3oidcaccesstoken:
Trust ID With v3kerberos: Trust ID With v3totp: Trust
ID With token: Trust ID With v3oidcclientcredentials:
Trust ID With v3token: Trust ID With v3fedkerb: Trust
ID (Env: OS_TRUST_ID)

`--os-consumer-key <auth-consumer-key>`

With v3oauth1: OAuth Consumer ID/Key (Env:
OS_CONSUMER_KEY)

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

With password: Domain name to scope to With
v3oidcauthcode: Domain name to scope to With
v3oidcpassword: Domain name to scope to With
v3samlpassword: Domain name to scope to With
v3password: Domain name to scope to With
v3oidcaccesstoken: Domain name to scope to With
v3kerberos: Domain name to scope to With v3totp:
Domain name to scope to With token: Domain name to
scope to With v3oidcclientcredentials: Domain name to
scope to With v3tokenlessauth: Domain name to scope to
With v3token: Domain name to scope to With v3fedkerb:
Domain name to scope to (Env: OS_DOMAIN_NAME)

`--os-access-secret <auth-access-secret>`

With v3oauth1: OAuth Access Secret (Env:
OS_ACCESS_SECRET)

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

With password: User's domain id With v3password: User's domain id With v3totp: User's domain id (Env: OS_USER_DOMAIN_ID)

`--os-access-token-type <auth-access-token-type>`

With v3oidcauthcode: OAuth 2.0 Authorization Server Introspection token type, it is used to decide which type of token will be used when processing token introspection. Valid values are: "access_token" or "id_token" With v3oidcpassword: OAuth 2.0 Authorization Server Introspection token type, it is used to decide which type of token will be used when processing token introspection. Valid values are: "access_token" or "id_token" With v3oidcclientcredentials: OAuth 2.0 Authorization Server Introspection token type, it is used to decide which type of token will be used when processing token introspection. Valid values are: "access_token" or "id_token" (Env: OS_ACCESS_TOKEN_TYPE)

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

With v3samlpassword: An Identity Provider URL, where the SAML2 authentication request will be sent. (Env: OS_IDENTITY_PROVIDER_URL)

`--os-default-domain-name <auth-default-domain-name>`

With password: Optional domain name to use with v3 API and v2 parameters. It will be used for both the user and project domain in v3 and ignored in v2 authentication. With token: Optional domain name to use with v3 API and v2 parameters. It will be used for both the user and project domain in v3 and ignored in v2 authentication. (Env: OS_DEFAULT_DOMAIN_NAME)

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

With v3oidcauthcode: OpenID Connect Provider Token Endpoint. Note that if a discovery document is being passed this option will override the endpoint provided by the server in the discovery document. With v3oidcpassword: OpenID Connect Provider Token Endpoint. Note that if a discovery document is being passed this option will override the endpoint provided

by the server in the discovery document. With
v3oidcclientcredentials: OpenID Connect Provider Token
Endpoint. Note that if a discovery document is being
passed this option will override the endpoint provided
by the server in the discovery document. (Env:
OS_ACCESS_TOKEN_ENDPOINT)

`--os-access-token <auth-access-token>`

With v3oidcaccesstoken: OAuth 2.0 Access Token (Env:
OS_ACCESS_TOKEN)

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

With password: Domain ID to scope to With
v3oidcauthcode: Domain ID to scope to With
v3oidcpassword: Domain ID to scope to With
v3samlpassword: Domain ID to scope to With v3password:
Domain ID to scope to With v3oidcaccesstoken: Domain
ID to scope to With v3kerberos: Domain ID to scope to
With v3totp: Domain ID to scope to With token: Domain
ID to scope to With v3oidcclientcredentials: Domain ID
to scope to With v3tokenlessauth: Domain ID to scope
to With v3token: Domain ID to scope to With v3fedkerb:
Domain ID to scope to (Env: OS_DOMAIN_ID)

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

With password: User's domain name With v3password:
User's domain name With v3totp: User's domain name
(Env: OS_USER_DOMAIN_NAME)

`--os-openid-scope <auth-openid-scope>`

With v3oidcauthcode: OpenID Connect scope that is
requested from authorization server. Note that the
OpenID Connect specification states that "openid" must
be always specified. With v3oidcpassword: OpenID
Connect scope that is requested from authorization
server. Note that the OpenID Connect specification
states that "openid" must be always specified. With
v3oidcclientcredentials: OpenID Connect scope that is
requested from authorization server. Note that the
OpenID Connect specification states that "openid" must
be always specified. (Env: OS_OPENID_SCOPE)

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

With password: User id With v2password: User ID to
login with With v3password: User ID With v3totp: User
ID With gnocchi-noauth: User ID With aodh-noauth: User
ID (Env: OS_USER_ID)

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

With v3oidcauthcode: Identity Provider's name With
v3oidcpassword: Identity Provider's name With
v3samlpassword: Identity Provider's name With
v3oidcaccesstoken: Identity Provider's name With
v3oidcclientcredentials: Identity Provider's name
(Env: OS_IDENTITY_PROVIDER)

--os-username <auth-username>

With password: Username With v3oidcpassword: Username
With v2password: Username to login with With
v3samlpassword: Username With v3password: Username
With v3totp: Username (Env: OS_USERNAME)

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

With v2token: Authentication URL With password:
Authentication URL With v3oidcauthcode: Authentication
URL With v3oidcpassword: Authentication URL With
v2password: Authentication URL With v3samlpassword:
Authentication URL With v3password: Authentication URL
With v3oidcaccesstoken: Authentication URL With
v3kerberos: Authentication URL With v3totp:
Authentication URL With token: Authentication URL With
v3oidcclientcredentials: Authentication URL With
v3tokenlessauth: Authentication URL With v3token:
Authentication URL With v3oauth1: Authentication URL
With v3fedkerb: Authentication URL (Env: OS_AUTH_URL)

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

With v3oidcauthcode: OAuth 2.0 Client Secret With
v3oidcpassword: OAuth 2.0 Client Secret With
v3oidcclientcredentials: OAuth 2.0 Client Secret (Env:
OS_CLIENT_SECRET)

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

With password: Optional domain ID to use with v3 and

v2 parameters. It will be used for both the user and project domain in v3 and ignored in v2 authentication. With token: Optional domain ID to use with v3 and v2 parameters. It will be used for both the user and project domain in v3 and ignored in v2 authentication. (Env: OS_DEFAULT_DOMAIN_ID)

`--os-discovery-endpoint <auth-discovery-endpoint>`

With v3oidcauthcode: OpenID Connect Discovery Document URL. The discovery document will be used to obtain the values of the access token endpoint and the authentication endpoint. This URL should look like https://idp.example.org/.well-known/openid-configuration With v3oidcpassword: OpenID Connect Discovery Document URL. The discovery document will be used to obtain the values of the access token endpoint and the authentication endpoint. This URL should look like https://idp.example.org/.well-known/openid-configuration With v3oidcclientcredentials: OpenID Connect Discovery Document URL. The discovery document will be used to obtain the values of the access token endpoint and the authentication endpoint. This URL should look like https://idp.example.org/.well-known/openid-configuration (Env: OS_DISCOVERY_ENDPOINT)

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

With v3oidcauthcode: OAuth 2.0 Client ID With v3oidcpassword: OAuth 2.0 Client ID With v3oidcclientcredentials: OAuth 2.0 Client ID (Env: OS_CLIENT_ID)

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

With password: Domain name containing project With v3oidcauthcode: Domain name containing project With v3oidcpassword: Domain name containing project With v3samlpassword: Domain name containing project With v3password: Domain name containing project With v3oidcaccesstoken: Domain name containing project With v3kerberos: Domain name containing project With v3totp: Domain name containing project With token: Domain name containing project With v3oidcclientcredentials: Domain name containing project With v3tokenlessauth: Domain name containing project With v3token: Domain name containing project With v3fedkerb: Domain name containing project (Env: OS_PROJECT_DOMAIN_NAME)

`--os-access-key <auth-access-key>`

With v3oauth1: OAuth Access Key (Env: OS_ACCESS_KEY)

--os-password <auth-password>

With password: User's password With v3oidcpassword: Password With v2password: Password to use With v3samlpassword: Password With v3password: User's password (Env: OS_PASSWORD)

--os-redirect-uri <auth-redirect-uri>

With v3oidcauthcode: OpenID Connect Redirect URL (Env: OS_REDIRECT_URI)

--os-endpoint <auth-endpoint>

With admin_token: The endpoint that will always be used With gnocchi-noauth: Gnocchi endpoint (Env: OS_ENDPOINT)

--os-aodh-endpoint <auth-aodh-endpoint>

With aodh-noauth: Aodh endpoint (Env: OS_AODH_ENDPOINT)

--os-roles <auth-roles>

With gnocchi-noauth: Roles With aodh-noauth: Roles (Env: OS_ROLES)

--os-url <auth-url>

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

--os-consumer-secret <auth-consumer-secret>

With v3oauth1: OAuth Consumer Secret (Env: OS_CONSUMER_SECRET)

--os-token <auth-token>

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

--os-passcode <auth-passcode>

With v3totp: User's TOTP passcode (Env: OS_PASSCODE)

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

With password: Project ID to scope to With v3oidcauthcode: Project ID to scope to With v3oidcpassword: Project ID to scope to With v3samlpassword: Project ID to scope to With v3password: Project ID to scope to With v3oidcaccesstoken: Project ID to scope to With v3kerberos: Project ID to scope to With v3totp: Project ID to scope to With token: Project ID to scope to With v3oidcclientcredentials: Project ID to scope to With v3tokenlessauth: Project ID to scope to With gnocchi-noauth: Project ID With v3token: Project ID to scope to With aodh-noauth: Project ID With v3fedkerb: Project ID to scope to (Env: OS_PROJECT_ID)

2.3. OPENSTACK ACL DELETE

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

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

Positional arguments

URI

The URI reference for the secret or container.

Optional arguments

-h, --help

show this help message and exit

2.4 OPENSTACK ACL GET

2.4. OPENSTACK ACL GET

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

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

Positional arguments

URI

The URI reference for the secret or container.

Optional arguments

-h, --help

show this help message and exit

2.5. OPENSTACK ACL SUBMIT

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

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

Positional arguments

URI

The URI reference for the secret or container.

Optional arguments

-h, --help

show this help message and exit

--user [USERS], -u [USERS]

Keystone userid(s) for ACL.

--project-access

Flag to enable project access behavior.

--no-project-access

Flag to disable project access behavior.

--operation-type {read}, -o {read}

Type of Barbican operation ACL is set for

2.6. OPENSTACK ACL USER ADD

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

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

Positional arguments

URI

The URI reference for the secret or container.

Optional arguments

-h, --help

show this help message and exit

--user [USERS], -u [USERS]

Keystone userid(s) for ACL.

--project-access

Flag to enable project access behavior.

--no-project-access

Flag to disable project access behavior.

--operation-type {read}, -o {read}

Type of Barbican operation ACL is set for

2.7. OPENSTACK ACL USER REMOVE

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

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

Positional arguments

URI

The URI reference for the secret or container.

Optional arguments

-h, --help

show this help message and exit

--user [USERS], -u [USERS]

Keystone userid(s) for ACL.

--project-access

Flag to enable project access behavior.

--no-project-access

Flag to disable project access behavior.

--operation-type {read}, -o {read}

Type of Barbican operation ACL is set for

2.8. OPENSTACK ACTION DEFINITION CREATE

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

Create new action.

Positional arguments

definition

Action definition file

Optional arguments

-h, --help

show this help message and exit

--public

With this flag action will be marked as "public".

2.9. OPENSTACK ACTION DEFINITION DELETE

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

Delete action.

Positional arguments

action

Name or ID of action(s).

Optional arguments

-h, --help

show this help message and exit

2.10. OPENSTACK ACTION DEFINITION LIST

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

List all actions.

Optional arguments

-h, --help

show this help message and exit

2.11. OPENSTACK ACTION DEFINITION SHOW

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

Show specific action.

Positional arguments

action

Action (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.12. OPENSTACK ACTION DEFINITION UPDATE

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

Update action.

Positional arguments

definition

Action definition file

Optional arguments

-h, --help

show this help message and exit

--id ID

Action ID.

--public

With this flag action will be marked as "public".

2.13. OPENSTACK ACTION EXECUTION DELETE

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

Delete action execution.

Positional arguments

action_execution

Id of action execution identifier(s).

Optional arguments

-h, --help

show this help message and exit

2.14. OPENSTACK ACTION EXECUTION LIST

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

```
[task_execution_id]
```

List all Action executions.

Positional arguments

task_execution_id

Task execution ID.

Optional arguments

-h, --help

show this help message and exit

2.15. OPENSTACK ACTION EXECUTION RUN

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

Create new Action execution or just run specific action.

Positional arguments

name

Action name to execute.

input

Action input.

Optional arguments

-h, --help

show this help message and exit

-s, --save-result

Save the result into DB.

--run-sync

Run the action synchronously.

-t TARGET, --target TARGET

Action will be executed on <target> executor.

2.16. OPENSTACK ACTION EXECUTION SHOW

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

Show specific Action execution.

Positional arguments

action_execution

Action execution ID.

Optional arguments

-h, --help

show this help message and exit

2.17. OPENSTACK ACTION EXECUTION UPDATE

```
usage: openstack action execution update [-h]
                                         [-f
```

```
{json,shell,table,value,yaml}]
                                              [-c COLUMN] [--max-width
<integer>]
                                              [--noindent] [--prefix
PREFIX]
                                              [--state
{IDLE,RUNNING,SUCCESS,ERROR}]
                                              [--output OUTPUT]
                                              id
```

Update specific Action execution.

Positional arguments

id

　　　　　　Action execution ID.

Optional arguments

-h, --help

　　　　　　show this help message and exit

--state {IDLE,RUNNING,SUCCESS,ERROR}

　　　　　　Action execution state

--output OUTPUT

　　　　　　Action execution output

2.18. OPENSTACK ADDRESS SCOPE CREATE

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

Create a new Address Scope

Positional arguments

<name>

New address scope name

Optional arguments

-h, --help

show this help message and exit

--ip-version {4,6} IP

version (default is 4)

--project <project>

Owner's project (name or ID)

--project-domain <project-domain>

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

--share

Share the address scope between projects

--no-share

Do not share the address scope between projects
(default)

2.19. OPENSTACK ADDRESS SCOPE DELETE

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

Delete address scope(s)

Positional arguments

<address-scope>

Address scope(s) to delete (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.20. OPENSTACK ADDRESS SCOPE LIST

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

List address scopes

Optional arguments

-h, --help

show this help message and exit

2.21. OPENSTACK ADDRESS SCOPE SET

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

Set address scope properties

Positional arguments

<address-scope>

> Address scope to modify (name or ID)

Optional arguments

-h, --help

> show this help message and exit

--name <name>

> Set address scope name

--share

> Share the address scope between projects

--no-share

> Do not share the address scope between projects

2.22. OPENSTACK ADDRESS SCOPE SHOW

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

Display address scope details

Positional arguments

<address-scope>

> Address scope to display (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.23. OPENSTACK AGGREGATE ADD HOST

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

Add host to aggregate

Positional arguments

<aggregate>

Aggregate (name or ID)

<host>

Host to add to <aggregate>

Optional arguments

-h, --help

show this help message and exit

2.24. OPENSTACK AGGREGATE CREATE

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

Create a new aggregate

Positional arguments

<name>

New aggregate name

Optional arguments

-h, --help

show this help message and exit

--zone <availability-zone>

Availability zone name

--property <key=value>

Property to add to this aggregate (repeat option to
set multiple properties)

2.25. OPENSTACK AGGREGATE DELETE

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

Delete existing aggregate(s)

Positional arguments

<aggregate>

Aggregate(s) to delete (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.26. OPENSTACK AGGREGATE LIST

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

List all aggregates

Optional arguments

-h, --help

show this help message and exit

--long

List additional fields in output

2.27. OPENSTACK AGGREGATE REMOVE HOST

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

Remove host from aggregate

Positional arguments

<aggregate>

Aggregate (name or ID)

<host>

Host to remove from <aggregate>

Optional arguments

-h, --help

show this help message and exit

2.28. OPENSTACK AGGREGATE SET

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

Set aggregate properties

Positional arguments

<aggregate>

Aggregate to modify (name or ID)

Optional arguments

-h, --help

show this help message and exit

--name <name>

Set aggregate name

--zone <availability-zone>

Set availability zone name

--property <key=value>

Property to set on <aggregate> (repeat option to set
multiple properties)

2.29. OPENSTACK AGGREGATE SHOW

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

■

Display aggregate details

Positional arguments

<aggregate>

Aggregate to display (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.30. OPENSTACK AGGREGATE UNSET

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

Unset aggregate properties

Positional arguments

<aggregate>

Aggregate to modify (name or ID)

Optional arguments

-h, --help

show this help message and exit

--property <key>

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

2.31. OPENSTACK ALARM CREATE

```
usage: openstack alarm create [-h] [-f {json,shell,table,value,yaml}]
```

```
                                    [-c COLUMN] [--max-width <integer>] [--
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>;[t
imezone=<IANA Timezone>]]

--repeat-actions {True|False}

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

2.32. OPENSTACK ALARM DELETE

```
usage: openstack 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

2.33. OPENSTACK ALARM LIST

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

2.34. OPENSTACK ALARM SHOW

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

2.35. OPENSTACK ALARM STATE GET

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

2.36. OPENSTACK ALARM STATE SET

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

--state <STATE>

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

2.37. OPENSTACK ALARM UPDATE

```
usage: openstack alarm update [-h] [-f {json,shell,table,value,yaml}]
                              [-c COLUMN] [--max-width <integer>] [--
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>;[t
imezone=<IANA Timezone>]]

--repeat-actions {True|False}

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

2.38. OPENSTACK ALARM-HISTORY SEARCH

```
usage: openstack alarm-history search [-h] [-f
{csv,json,table,value,yaml}]
                                      [-c COLUMN] [--max-width
<integer>]
                                      [--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

2.39. OPENSTACK ALARM-HISTORY SHOW

```
usage: openstack alarm-history show [-h] [-f
{csv,json,table,value,yaml}]
                                    [-c COLUMN] [--max-width
<integer>]
                                    [--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

2.40. OPENSTACK ALARMING CAPABILITIES LIST

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

List capabilities

Optional arguments

-h, --help

show this help message and exit

2.41. OPENSTACK AVAILABILITY ZONE LIST

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

List availability zones and their status

Optional arguments

-h, --help

show this help message and exit

--compute

List compute availability zones

--network

List network availability zones

--volume

List volume availability zones

--long

List additional fields in output

2.42. OPENSTACK CA GET

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

Retrieve a CA by providing its URI.

Positional arguments

URI

The URI reference for the CA.

Optional arguments

-h, --help

show this help message and exit

2.43. OPENSTACK CA LIST

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

```
                                    [--limit LIMIT] [--offset OFFSET] [--name
  NAME]
```

List cas.

Optional arguments

-h, --help

> show this help message and exit

--limit LIMIT, -l LIMIT

> specify the limit to the number of items to list per
> page (default: 10; maximum: 100)

--offset OFFSET, -o OFFSET

> specify the page offset (default: 0)

--name NAME, -n NAME

> specify the secret name (default: None)

2.44. OPENSTACK CATALOG LIST

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

List services in the service catalog

Optional arguments

-h, --help

> show this help message and exit

2.45. OPENSTACK CATALOG SHOW

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

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

Display service catalog details

Positional arguments

<service>

Service to display (type or name)

Optional arguments

-h, --help

show this help message and exit

2.46. OPENSTACK COMMAND LIST

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

List recognized commands by group

Optional arguments

-h, --help

show this help message and exit

2.47. OPENSTACK COMPUTE AGENT CREATE

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

Create compute agent

Positional arguments

<os>

Type of OS

<architecture>

Type of architecture

<version>

Version

<url>

URL

<md5hash>

MD5 hash

<hypervisor>

Type of hypervisor

Optional arguments

-h, --help

show this help message and exit

2.48. OPENSTACK COMPUTE AGENT DELETE

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

Delete compute agent(s)

Positional arguments

<id>

ID of agent(s) to delete

Optional arguments

-h, --help

show this help message and exit

2.49. OPENSTACK COMPUTE AGENT LIST

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

List compute agents

Optional arguments

-h, --help

show this help message and exit

--hypervisor <hypervisor>

Type of hypervisor

2.50. OPENSTACK COMPUTE AGENT SET

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

Set compute agent properties

Positional arguments

<id>

ID of the agent

Optional arguments

-h, --help

show this help message and exit

--agent-version <version>

Version of the agent

--url <url> URL

of the agent

--md5hash <md5hash>

MD5 hash of the agent

2.51. OPENSTACK COMPUTE SERVICE DELETE

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

Delete compute service(s)

Positional arguments

<service>

Compute service(s) to delete (ID only)

Optional arguments

-h, --help

show this help message and exit

2.52. OPENSTACK COMPUTE SERVICE LIST

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

                                      [--noindent]
                                      [--quote
{all,minimal,none,nonnumeric}]

                                      [--host <host>] [--service
<service>]

                                      [--long]
```

List compute services

Optional arguments

-h, --help

show this help message and exit

--host <host>

List services on specified host (name only)

--service <service>

List only specified service (name only)

--long

List additional fields in output

2.53. OPENSTACK COMPUTE SERVICE SET

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

Set compute service properties

Positional arguments

<host>

Name of host

<service>

Name of service (Binary name)

Optional arguments

-h, --help

show this help message and exit

--enable

Enable service

--disable

Disable service

--disable-reason <reason>

Reason for disabling the service (in quotas). Should
be used with --disable option.

--up

Force up service

--down

Force down service

2.54. OPENSTACK CONFIGURATION SHOW

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

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

Display configuration details

Optional arguments

-h, --help

show this help message and exit

--mask

Attempt to mask passwords (default)

--unmask

Show password in clear text

2.55. OPENSTACK CONSOLE LOG SHOW

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

Show server's console output

Positional arguments

<server>

Server to show console log (name or ID)

Optional arguments

-h, --help

show this help message and exit

--lines <num-lines>

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

2.56. OPENSTACK CONSOLE URL SHOW

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

Show server's remote console URL

Positional arguments

<server>

Server to show URL (name or ID)

Optional arguments

-h, --help

show this help message and exit

--novnc

Show noVNC console URL (default)

--xvpvnc

Show xvpvnc console URL

--spice

Show SPICE console URL

--rdp

Show RDP console URL

--serial

Show serial console URL

--mks

Show WebMKS console URL

2.57. OPENSTACK CONTAINER CREATE

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

Create new container

Positional arguments

<container-name>

New container name(s)

Optional arguments

-h, --help

show this help message and exit

2.58. OPENSTACK CONTAINER DELETE

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

Delete container

Positional arguments

<container>

Container(s) to delete

Optional arguments

-h, --help

show this help message and exit

--recursive, -r

Recursively delete objects and container

2.59. OPENSTACK CONTAINER LIST

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

List containers

Optional arguments

-h, --help

show this help message and exit

--prefix <prefix>

Filter list using <prefix>

--marker <marker>

Anchor for paging

--end-marker <end-marker>

End anchor for paging

--limit <limit>

Limit the number of containers returned

--long

List additional fields in output

--all

List all containers (default is 10000)

2.60. OPENSTACK CONTAINER SAVE

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

Save container contents locally

Positional arguments

<container>

Container to save

Optional arguments

-h, --help

show this help message and exit

2.61. OPENSTACK CONTAINER SET

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

Set container properties

Positional arguments

<container>

Container to modify

Optional arguments

-h, --help

show this help message and exit

--property <key=value>

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

2.62. OPENSTACK CONTAINER SHOW

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

Display container details

Positional arguments

<container>

Container to display

Optional arguments

-h, --help

show this help message and exit

2.63. OPENSTACK CONTAINER UNSET

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

Unset container properties

Positional arguments

<container>

Container to modify

Optional arguments

-h, --help

show this help message and exit

--property <key>

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

2.64. OPENSTACK DATAPROCESSING CLUSTER CREATE

```
usage: openstack dataprocessing cluster create [-h]
                                               [-f
{json,shell,table,value,yaml}]
                                               [-c COLUMN]
                                               [--max-width
<integer>]
                                               [--noindent] [--
prefix PREFIX]
                                               [--name <name>]
                                               [--cluster-template
<cluster-template>]
                                               [--image <image>]
                                               [--description
<description>]
                                               [--user-keypair
<keypair>]
                                               [--neutron-network
<network>]
                                               [--count <count>] [--
public]
                                               [--protected] [--
transient]
                                               [--json <filename>]
  [--wait]
```

Creates cluster

Optional arguments

-h, --help

show this help message and exit

--name <name>

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

--cluster-template <cluster-template>

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

--image <image>

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

--description <description>

Description of the cluster

--user-keypair <keypair>

User keypair to get acces to VMs after cluster
creation

--neutron-network <network>

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

--count <count>

Number of clusters to be created

--public

Make the cluster public (Visible from other tenants)

--protected

Make the cluster protected

--transient

Create transient cluster

--json <filename> JSON

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

--wait

Wait for the cluster creation to complete

2.65. OPENSTACK DATAPROCESSING CLUSTER DELETE

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

Deletes cluster

Positional arguments

<cluster>

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

Optional arguments

-h, --help

show this help message and exit

--wait

Wait for the cluster(s) delete to complete

2.66. OPENSTACK DATAPROCESSING CLUSTER LIST

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

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

                                             [--long] [--plugin
<plugin>]

                                             [--plugin-version
<plugin_version>]

                                             [--name <name-
substring>]
```

Lists clusters

Optional arguments

-h, --help

show this help message and exit

--long

List additional fields in output

--plugin <plugin>

List clusters with specific plugin

--plugin-version <plugin_version>

List clusters with specific version of the plugin

--name <name-substring>

List clusters with specific substring in the name

2.67. OPENSTACK DATAPROCESSING CLUSTER SCALE

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

Scales cluster

Positional arguments

<cluster>

Name or ID of the cluster

Optional arguments

-h, --help

show this help message and exit

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

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

--json <filename> JSON

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

--wait

Wait for the cluster scale to complete

2.68. OPENSTACK DATAPROCESSING CLUSTER SHOW

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

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

                                             [--verification]
                                             [--show-progress]
                                             [--full-dump-events]
                                             <cluster>
```

Display cluster details

Positional arguments

<cluster>

Name or id of the cluster to display

Optional arguments

-h, --help

show this help message and exit

--verification

List additional fields for verifications

--show-progress

Provides ability to show brief details of event logs.

--full-dump-events

Provides ability to make full dump with event log
details.

2.69. OPENSTACK DATAPROCESSING CLUSTER TEMPLATE CREATE

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

Creates cluster template

Optional arguments

-h, --help

show this help message and exit

--name <name>

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

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

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

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

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

--description <description>

Description of the cluster template

--autoconfig

If enabled, instances of the cluster will be
automatically configured

--public

Make the cluster template public (Visible from other
tenants)

--protected

Make the cluster template protected

--json <filename> JSON

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

--shares <filename> JSON

representation of the manila shares

--configs <filename> JSON

representation of the cluster template configs

--domain-name <domain-name>

> Domain name for instances of this cluster template.
> This option is available if 'use_designate' config is
> True

2.70. OPENSTACK DATAPROCESSING CLUSTER TEMPLATE DELETE

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

Deletes cluster template

Positional arguments

<cluster-template>

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

Optional arguments

-h, --help

> show this help message and exit

2.71. OPENSTACK DATAPROCESSING CLUSTER TEMPLATE LIST

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

```
                                                          [--plugin-
  version <plugin_version>]
                                                          [--name <name-
  substring>]
```

Lists cluster templates

Optional arguments

-h, --help

> show this help message and exit

--long

> List additional fields in output

--plugin <plugin>

> List cluster templates for specific plugin

--plugin-version <plugin_version>

> List cluster templates with specific version of the
> plugin

--name <name-substring>

> List cluster templates with specific substring in the
> name

2.72. OPENSTACK DATAPROCESSING CLUSTER TEMPLATE SHOW

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

```
                                                   [--prefix
  PREFIX]
                                                   <cluster-
  template>
```

Display cluster template details

Positional arguments

<cluster-template>

Name or id of the cluster template to display

Optional arguments

-h, --help

show this help message and exit

2.73. OPENSTACK DATAPROCESSING CLUSTER TEMPLATE UPDATE

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

```
  <filename>]                                                   [--configs

  name <domain-name>]                                          [--domain-

  template>                                                     <cluster-
```

Updates cluster template

Positional arguments

<cluster-template>

> Name or ID of the cluster template [REQUIRED]

Optional arguments

-h, --help

> show this help message and exit

--name <name>

> New name of the cluster template

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

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

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

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

--description <description>

> Description of the cluster template

--autoconfig-enable

Instances of the cluster will be automatically configured

`--autoconfig-disable`

Instances of the cluster will not be automatically configured

`--public`

Make the cluster template public (Visible from other tenants)

`--private`

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

`--protected`

Make the cluster template protected

`--unprotected`

Make the cluster template unprotected

`--json <filename> JSON`

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

`--shares <filename> JSON`

representation of the manila shares

`--configs <filename> JSON`

representation of the cluster template configs

`--domain-name <domain-name>`

Domain name for instances of this cluster template.
This option is available if 'use_designate' config is
True

2.74. OPENSTACK DATAPROCESSING CLUSTER UPDATE

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

Updates cluster

Positional arguments

<cluster>

Name or ID of the cluster

Optional arguments

-h, --help

show this help message and exit

--name <name>

New name of the cluster

--description <description>

Description of the cluster

--shares <filename> JSON

representation of the manila shares

--public

Make the cluster public (Visible from other tenants)

--private

Make the cluster private (Visible only from this
tenant)

--protected

Make the cluster protected

--unprotected

Make the cluster unprotected

2.75. OPENSTACK DATAPROCESSING CLUSTER VERIFICATION

```
usage: openstack dataprocessing cluster verification [-h]
                                                     [-f
{json,shell,table,value,yaml}]

                                                     [-c COLUMN]
                                                     [--max-width
<integer>]

                                                     [--noindent]
                                                     [--prefix
PREFIX]

                                                     (--start | --
show)

                                                     <cluster>
```

Updates cluster verifications

Positional arguments

<cluster>

Name or ID of the cluster

Optional arguments

-h, --help

> show this help message and exit

--start

> Start health verification for the cluster

--show

> Show health of the cluster

2.76. OPENSTACK DATAPROCESSING DATA SOURCE CREATE

```
usage: openstack dataprocessing data source create [-h]
                                                   [-f
{json,shell,table,value,yaml}]

                                                   [-c COLUMN]
                                                   [--max-width
<integer>]

                                                   [--noindent]
                                                   [--prefix PREFIX]

--type
                                                   <type> --url
<url>

                                                   [--username
<username>]

                                                   [--password
<password>]

                                                   [--description
<description>]

                                                   [--public] [--
protected]

                                                   <name>
```

Creates data source

Positional arguments

<name>

> Name of the data source

Optional arguments

-h, --help

show this help message and exit

--type <type>

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

--url <url>

Url for the data source [REQUIRED]

--username <username>

Username for accessing the data source url

--password <password>

Password for accessing the data source url

--description <description>

Description of the data source

--public

Make the data source public

--protected

Make the data source protected

2.77. OPENSTACK DATAPROCESSING DATA SOURCE DELETE

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

Delete data source

Positional arguments

`<data-source>`

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

Optional arguments

`-h, --help`

show this help message and exit

2.78. OPENSTACK DATAPROCESSING DATA SOURCE LIST

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

Lists data sources

Optional arguments

`-h, --help`

show this help message and exit

`--long`

List additional fields in output

`--type <type>`

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

2.79. OPENSTACK DATAPROCESSING DATA SOURCE SHOW

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

Display data source details

Positional arguments

<data-source>

Name or id of the data source to display

Optional arguments

-h, --help

show this help message and exit

2.80. OPENSTACK DATAPROCESSING DATA SOURCE UPDATE

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

```
<description>]

private]

unprotected]
```

```
[--public | --

[--protected | --

<data-source>
```

Update data source

Positional arguments

<data-source>

Name or id of the data source

Optional arguments

-h, --help

show this help message and exit

--name <name>

New name of the data source

--type <type>

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

--url <url>

Url for the data source

--username <username>

Username for accessing the data source url

--password <password>

Password for accessing the data source url

--description <description>

Description of the data source

--public

Make the data source public (Visible from other
tenants)

--private

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

--protected

Make the data source protected

--unprotected

Make the data source unprotected

2.81. OPENSTACK DATAPROCESSING IMAGE LIST

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

Lists registered images

Optional arguments

-h, --help

show this help message and exit

`--long`

List additional fields in output

`--name <name-regex>`

Regular expression to match image name

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

List images with specific tag(s)

`--username <username>`

List images with specific username

2.82. OPENSTACK DATAPROCESSING IMAGE REGISTER

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

Register an image

Positional arguments

`<image>`

Name or ID of the image to register

Optional arguments

`-h, --help`

show this help message and exit

--username <username>

Username of privileged user in the image [REQUIRED]

--description <description>

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

2.83. OPENSTACK DATAPROCESSING IMAGE SHOW

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

Display image details

Positional arguments

<image>

Name or id of the image to display

Optional arguments

-h, --help

show this help message and exit

2.84. OPENSTACK DATAPROCESSING IMAGE TAGS ADD

```
usage: openstack dataprocessing image tags add [-h]
                                               [-f
{json,shell,table,value,yaml}]
                                               [-c COLUMN]
                                               [--max-width
<integer>]
```

```
  prefix PREFIX]

  ...]
```

```
                                                [--noindent] [--

                                                --tags <tag> [<tag>

                                                <image>
```

Add image tags

Positional arguments

<image>

> Name or id of the image

Optional arguments

-h, --help

> show this help message and exit

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

> Tag(s) to add [REQUIRED]

2.85. OPENSTACK DATAPROCESSING IMAGE TAGS REMOVE

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

Remove image tags

Positional arguments

<image>

Name or id of the image

Optional arguments

-h, --help

show this help message and exit

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

Tag(s) to remove

--all

Remove all tags from image

2.86. OPENSTACK DATAPROCESSING IMAGE TAGS SET

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

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

Positional arguments

<image>

Name or id of the image

Optional arguments

-h, --help

show this help message and exit

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

Tag(s) to set [REQUIRED]

2.87. OPENSTACK DATAPROCESSING IMAGE UNREGISTER

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

Unregister image(s)

Positional arguments

<image>

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

Optional arguments

-h, --help

show this help message and exit

2.88. OPENSTACK DATAPROCESSING JOB BINARY CREATE

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

Creates job binary

Optional arguments

-h, --help

show this help message and exit

--name <name>

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

--data <file>

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

--url <url> URL

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

--description <description>

Description of the job binary

--username <username>

Username for accessing the job binary URL

--password <password>

Password for accessing the job binary URL

--password-prompt

Prompt interactively for password

--public

Make the job binary public

--protected

Make the job binary protected

--json <filename> JSON

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

2.89. OPENSTACK DATAPROCESSING JOB BINARY DELETE

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

Deletes job binary

Positional arguments

<job-binary>

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

Optional arguments

-h, --help

show this help message and exit

2.90. OPENSTACK DATAPROCESSING JOB BINARY DOWNLOAD

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

Downloads job binary

Positional arguments

<job-binary>

Name or ID of the job binary to download

Optional arguments

-h, --help

show this help message and exit

--file <file>

Destination file (defaults to job binary name)

2.91. OPENSTACK DATAPROCESSING JOB BINARY LIST

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

Lists job binaries

Optional arguments

-h, --help

show this help message and exit

--long

List additional fields in output

--name <name-substring>

List job binaries with specific substring in the name

2.92. OPENSTACK DATAPROCESSING JOB BINARY SHOW

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

Display job binary details

Positional arguments

<job-binary>

Name or ID of the job binary to display

Optional arguments

-h, --help

show this help message and exit

2.93. OPENSTACK DATAPROCESSING JOB BINARY UPDATE

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

```
<filename>]
                                                    <job-binary>
```

Updates job binary

Positional arguments

<job-binary>

Name or ID of the job binary

Optional arguments

-h, --help

show this help message and exit

--name <name>

New name of the job binary

--url <url> URL

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

--description <description>

Description of the job binary

--username <username>

Username for accessing the job binary URL

--password <password>

Password for accessing the job binary URL

--password-prompt

Prompt interactively for password

--public

Make the job binary public (Visible from other
tenants)

--private

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

--protected

Make the job binary protected

--unprotected

Make the job binary unprotected

--json <filename> JSON

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

2.94. OPENSTACK DATAPROCESSING JOB DELETE

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

Deletes job

Positional arguments

<job>

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

Optional arguments

-h, --help

show this help message and exit

--wait

Wait for the job(s) delete to complete

2.95. OPENSTACK DATAPROCESSING JOB EXECUTE

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

Executes job

Optional arguments

-h, --help

show this help message and exit

--job-template <job-template>

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

--cluster <cluster>

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

`--input <input>`

> Name or ID of the input data source

`--output <output>`

> Name or ID of the output data source

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

> Parameters to add to the job

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

> Arguments to add to the job

`--public`

> Make the job public

`--protected`

> Make the job protected

`--config-json <filename>`

> JSON representation of the job configs

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

> Configs to add to the job

`--interface <filename>`

> JSON representation of the interface

--json <filename> JSON

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

2.96. OPENSTACK DATAPROCESSING JOB LIST

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

Lists jobs

Optional arguments

-h, --help

show this help message and exit

--long

List additional fields in output

--status <status>

List jobs with specific status

2.97. OPENSTACK DATAPROCESSING JOB SHOW

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

Display job details

Positional arguments

<job>

ID of the job to display

Optional arguments

-h, --help

show this help message and exit

2.98. OPENSTACK DATAPROCESSING JOB TEMPLATE CREATE

```
usage: openstack dataprocessing job template create [-h]
                                                     [-f
{json,shell,table,value,yaml}]

                                                     [-c COLUMN]
                                                     [--max-width
<integer>]

                                                     [--noindent]
                                                     [--prefix
PREFIX]

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

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

                                                     [--description
<description>]

                                                     [--public] [--
protected]

                                                     [--interface
<filename>]

                                                     [--json
<filename>]
```

Creates job template

Optional arguments

-h, --help

show this help message and exit

`--name <name>`

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

`--type <type>`

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

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

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

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

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

`--description <description>`

Description of the job template

`--public`

Make the job template public

`--protected`

Make the job template protected

`--interface <filename>`

JSON representation of the interface

`--json <filename> JSON`

representation of the job template

2.99. OPENSTACK DATAPROCESSING JOB TEMPLATE DELETE

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

Deletes job template

Positional arguments

<job-template>

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

Optional arguments

-h, --help

show this help message and exit

2.100. OPENSTACK DATAPROCESSING JOB TEMPLATE LIST

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

Lists job templates

Optional arguments

-h, --help

show this help message and exit

--long

List additional fields in output

--type <type>

List job templates of specific type

--name <name-substring>

List job templates with specific substring in the name

2.101. OPENSTACK DATAPROCESSING JOB TEMPLATE SHOW

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

Display job template details

Positional arguments

<job-template>

Name or ID of the job template to display

Optional arguments

-h, --help

show this help message and exit

2.102. OPENSTACK DATAPROCESSING JOB TEMPLATE UPDATE

```
usage: openstack dataprocessing job template update [-h]
                                                    [-f
{json,shell,table,value,yaml}]
                                                    [-c COLUMN]
                                                    [--max-width
```

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

  PREFIX]
                                              [--name <name>]
                                              [--description

  <description>]
                                              [--public | --

  private]
                                              [--protected | -

  -unprotected]
                                              <job-template>
```

Updates job template

Positional arguments

<job-template>

Name or ID of the job template

Optional arguments

-h, --help

show this help message and exit

--name <name>

New name of the job template

--description <description>

Description of the job template

--public

Make the job template public (Visible from other
tenants)

--private

Make the job_template private (Visible only from this
tenant)

--protected

Make the job template protected

--unprotected

Make the job template unprotected

2.103. OPENSTACK DATAPROCESSING JOB TYPE CONFIGS GET

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

Get job type configs

Positional arguments

<job-type>

Type of the job to provide config information about

Optional arguments

-h, --help

show this help message and exit

--file <file>

Destination file (defaults to job type)

2.104. OPENSTACK DATAPROCESSING JOB TYPE LIST

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

```
                                                      [--type <type>]
                                                      [--plugin <plugin>]
                                                      [--plugin-version
<plugin_version>]
```

Lists job types supported by plugins

Optional arguments

-h, --help

> show this help message and exit

--type <type>

> Get information about specific job type

--plugin <plugin>

> Get only job types supported by this plugin

--plugin-version <plugin_version>

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

2.105. OPENSTACK DATAPROCESSING JOB UPDATE

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

Updates job

Positional arguments

`<job>`

> ID of the job to update

Optional arguments

`-h, --help`

> show this help message and exit

`--public`

> Make the job public (Visible from other tenants)

`--private`

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

`--protected`

> Make the job protected

`--unprotected`

> Make the job unprotected

2.106. OPENSTACK DATAPROCESSING NODE GROUP TEMPLATE CREATE

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

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

Creates node group template

Optional arguments

-h, --help

    show this help message and exit

--name <name>
```
```

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

--plugin <plugin>

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

--plugin-version <plugin_version>

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

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

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

--flavor <flavor>

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

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

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

--auto-security-group

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

--availability-zone <availability-zone>

Name of the availability zone where instances will be
created

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

ID of the floating IP pool

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

Number of volumes attached to every node

--volumes-size <volumes-size>

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

--volumes-type <volumes-type>

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

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

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

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

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

--volumes-locality

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

--description <description>

Description of the node group template

--autoconfig

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

--proxy-gateway

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

--public

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

--protected

Make the node group template protected

--json <filename> JSON

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

--shares <filename> JSON

representation of the manila shares

--configs <filename> JSON

representation of the node group template configs

2.107. OPENSTACK DATAPROCESSING NODE GROUP TEMPLATE DELETE

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

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

Deletes node group template

Positional arguments

<node-group-template>

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

Optional arguments

-h, --help

show this help message and exit

2.108. OPENSTACK DATAPROCESSING NODE GROUP TEMPLATE LIST

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

Lists node group templates

Optional arguments

-h, --help

show this help message and exit

--long

List additional fields in output

--plugin <plugin>

List node group templates for specific plugin

--plugin-version <plugin_version>

List node group templates with specific version of the
plugin

--name <name-substring>

List node group templates with specific substring in
the name

2.109. OPENSTACK DATAPROCESSING NODE GROUP TEMPLATE SHOW

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

Display node group template details

Positional arguments

<node-group-template>

Name or id of the node group template to display

Optional arguments

-h, --help

show this help message and exit

2.110. OPENSTACK DATAPROCESSING NODE GROUP TEMPLATE UPDATE

```
usage: openstack dataprocessing node group template update [-h]
                                                           [-f
{json,shell,table,value,yaml}]
                                                           [-c
COLUMN]
                                                           [--max-
width <integer>]
                                                           [--
noindent]
                                                           [--
prefix PREFIX]
                                                           [--name
<name>]
                                                           [--
plugin <plugin>]
                                                           [--
plugin-version <plugin_version>]
                                                           [--
processes <processes> [<processes> ...]]
                                                           [--
security-groups <security-groups> [<security-groups> ...]]
                                                           [--auto-
security-group-enable | --auto-security-group-disable]
                                                           [--
availability-zone <availability-zone>]
                                                           [--
flavor <flavor>]
                                                           [--
floating-ip-pool <floating-ip-pool>]
                                                           [--
volumes-per-node <volumes-per-node>]
                                                           [--
volumes-size <volumes-size>]
                                                           [--
volumes-type <volumes-type>]
                                                           [--
volumes-availability-zone <volumes-availability-zone>]
                                                           [--
volumes-mount-prefix <volumes-mount-prefix>]
                                                           [--
volumes-locality-enable | --volumes-locality-disable]
                                                           [--
description <description>]
                                                           [--
autoconfig-enable | --autoconfig-disable]
                                                           [--
proxy-gateway-enable | --proxy-gateway-disable]
                                                           [--
public | --private]
                                                           [--
protected | --unprotected]
                                                           [--json
```

```
    <filename>]
                                                        [--
    shares <filename>]
                                                        [--
    configs <filename>]

                                                        <node-
    group-template>
```

Updates node group template

Positional arguments

<node-group-template>

Name or ID of the node group template

Optional arguments

-h, --help

show this help message and exit

--name <name>

New name of the node group template

--plugin <plugin>

Name of the plugin

--plugin-version <plugin_version>

Version of the plugin

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

List of the processes that will be launched on each
instance

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

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

`--auto-security-group-enable`

Additional security group should be created for the node group

`--auto-security-group-disable`

Additional security group should not be created for the node group

`--availability-zone <availability-zone>`

Name of the availability zone where instances will be created

`--flavor <flavor>`

Name or ID of the flavor

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

ID of the floating IP pool

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

Number of volumes attached to every node

`--volumes-size <volumes-size>`

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

`--volumes-type <volumes-type>`

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

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

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

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

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

`--volumes-locality-enable`

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

`--volumes-locality-disable`

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

`--description <description>`

Description of the node group template

`--autoconfig-enable`

Instances of the node group will be automatically configured

`--autoconfig-disable`

Instances of the node group will not be automatically configured

`--proxy-gateway-enable`

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

other instances in the cluster

--proxy-gateway-disable

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

--public

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

--private

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

--protected

Make the node group template protected

--unprotected

Make the node group template unprotected

--json <filename> JSON

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

--shares <filename> JSON

representation of the manila shares

--configs <filename> JSON

representation of the node group template configs

2.111. OPENSTACK DATAPROCESSING PLUGIN CONFIGS GET

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

Get plugin configs

Positional arguments

<plugin>

Name of the plugin to provide config information about

<plugin_version>

Version of the plugin to provide config information about

Optional arguments

-h, --help

show this help message and exit

--file <file>

Destination file (defaults to plugin name)

2.112. OPENSTACK DATAPROCESSING PLUGIN LIST

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

Lists plugins

Optional arguments

-h, --help

show this help message and exit

--long

List additional fields in output

2.113. OPENSTACK DATAPROCESSING PLUGIN SHOW

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

Display plugin details

Positional arguments

<plugin>

Name of the plugin to display

Optional arguments

-h, --help

show this help message and exit

--plugin-version <plugin_version>

Version of the plugin to display

2.114. OPENSTACK DATAPROCESSING PLUGIN UPDATE

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

```
                                        [--max-width
  <integer>]
                                        [--noindent] [--prefix
  PREFIX]
                                        <plugin> <json>
```

Positional arguments

<plugin>

Name of the plugin to provide config information about

<json>

JSON representation of the plugin update dictionary

Optional arguments

-h, --help

show this help message and exit

2.115. OPENSTACK DNS QUOTA LIST

```
usage: openstack dns quota list [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                [--all-projects] [--edit-managed]
                                [--sudo-project-id SUDO_PROJECT_ID]
                                [--project-id PROJECT_ID]
```

List quotas

Optional arguments

-h, --help

show this help message and exit

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

--project-id PROJECT_ID

Project ID Default: current project

2.116. OPENSTACK DNS QUOTA RESET

```
usage: openstack dns quota reset [-h] [--all-projects] [--edit-managed]
                                 [--sudo-project-id SUDO_PROJECT_ID]
                                 [--project-id PROJECT_ID]
```

Delete blacklist

Optional arguments

-h, --help

show this help message and exit

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

--project-id PROJECT_ID

Project ID

2.117. OPENSTACK DNS QUOTA SET

```
usage: openstack dns quota set [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--max-width <integer>]
                               [--noindent] [--prefix PREFIX] [--all-
projects]
                               [--edit-managed]
                               [--sudo-project-id SUDO_PROJECT_ID]
                               [--project-id PROJECT_ID]
                               [--api-export-size <api-export-size>]
                               [--zones <zones>]
                               [--recordset-records <recordset-
records>]
                               [--zone-records <zone-records>]
                               [--zone-recordsets <zone-recordsets>]
```

Set blacklist properties

Optional arguments

-h, --help

show this help message and exit

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

--project-id PROJECT_ID

Project ID

--api-export-size <api-export-size>

New value for the api-export-size quota

--zones <zones>

New value for the zones quota

--recordset-records <recordset-records>

New value for the recordset-records quota

--zone-records <zone-records>

New value for the zone-records quota

--zone-recordsets <zone-recordsets>

New value for the zone-recordsets quota

2.118. OPENSTACK DNS SERVICE LIST

```
usage: openstack dns service list [-h] [-f {csv,json,table,value,yaml}]
                                  [-c COLUMN] [--max-width <integer>]
                                  [--noindent]
                                  [--quote
{all,minimal,none,nonnumeric}]
                                  [--hostname HOSTNAME]
                                  [--service_name SERVICE_NAME]
                                  [--status STATUS] [--all-projects]
                                  [--edit-managed]
                                  [--sudo-project-id SUDO_PROJECT_ID]
```

List service statuses

Optional arguments

-h, --help

show this help message and exit

--hostname HOSTNAME

Hostname

--service_name SERVICE_NAME

Service Name

--status STATUS

Status

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

2.119. OPENSTACK DNS SERVICE SHOW

```
usage: openstack dns service show [-h] [-f
{json,shell,table,value,yaml}]
                                  [-c COLUMN] [--max-width <integer>]
                                  [--noindent] [--prefix PREFIX]
                                  [--all-projects] [--edit-managed]
                                  [--sudo-project-id SUDO_PROJECT_ID]
                                  id
```

Show service status details

Positional arguments

id

Service Status ID

Optional arguments

-h, --help

>> show this help message and exit

--all-projects

>> Show results from all projects. Default: False

--edit-managed

>> Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

>> Project ID to impersonate for this command. Default:
>> None

2.120. OPENSTACK EC2 CREDENTIALS CREATE

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

Create EC2 credentials

Optional arguments

-h, --help

>> show this help message and exit

--project <project>

>> Create credentials in project (name or ID; default:
>> current authenticated project)

**`--user

Create credentials for user (name or ID; default:
current authenticated user)

2.121. OPENSTACK EC2 CREDENTIALS DELETE

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

Delete EC2 credentials

Positional arguments

`<access-key>`

Credentials access key(s)

Optional arguments

`-h, --help`

show this help message and exit

`--user <user>`

Delete credentials for user (name or ID)

2.122. OPENSTACK EC2 CREDENTIALS LIST

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

List EC2 credentials

Optional arguments

-h, --help

show this help message and exit

--user <user>

Filter list by user (name or ID)

2.123. OPENSTACK EC2 CREDENTIALS SHOW

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

Display EC2 credentials details

Positional arguments

<access-key>

Credentials access key

Optional arguments

-h, --help

show this help message and exit

--user <user>

Show credentials for user (name or ID)

2.124. OPENSTACK ENDPOINT CREATE

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

```
                                      <url> [--adminurl <url>]
                                      [--internalurl <url>] [--region
  <region-id>]
                                      <service>
```

Create new endpoint

Positional arguments

<service>

>   Service to be associated with new endpoint (name or
>   ID)

Optional arguments

-h, --help

>   show this help message and exit

--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

2.125. OPENSTACK ENDPOINT DELETE

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

Delete endpoint(s)

Positional arguments

`<endpoint-id>`

Endpoint(s) to delete (ID only)

Optional arguments

`-h, --help`

show this help message and exit

2.126. OPENSTACK ENDPOINT LIST

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

List endpoints

Optional arguments

`-h, --help`

show this help message and exit

`--long`

List additional fields in output

2.127. OPENSTACK ENDPOINT SHOW

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

Display endpoint details

Positional arguments

<endpoint>

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

Optional arguments

-h, --help

show this help message and exit

2.128. OPENSTACK EXTENSION LIST

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

List API extensions

Optional arguments

-h, --help

show this help message and exit

--compute

List extensions for the Compute API

--identity

List extensions for the Identity API

--network

List extensions for the Network API

--volume

List extensions for the Block Storage API

--long

List additional fields in output

2.129. OPENSTACK FLAVOR CREATE

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

Create new flavor

Positional arguments

<flavor-name>

New flavor name

Optional arguments

-h, --help

show this help message and exit

--id <id>

Unique flavor ID; 'auto' creates a UUID (default:
auto)

--ram <size-mb>

Memory size in MB (default 256M)

--disk <size-gb>

Disk size in GB (default 0G)

--ephemeral <size-gb>

Ephemeral disk size in GB (default 0G)

--swap <size-gb>

Swap space size in GB (default 0G)

--vcpus <vcpus>

Number of vcpus (default 1)

--rxtx-factor <factor>

RX/TX factor (default 1.0)

--public

Flavor is available to other projects (default)

--private

Flavor is not available to other projects

--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.

2.130. OPENSTACK FLAVOR DELETE

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

Delete flavor(s)

Positional arguments

<flavor>

>   Flavor(s) to delete (name or ID)

Optional arguments

-h, --help

>   show this help message and exit

2.131. OPENSTACK FLAVOR LIST

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

List flavors

Optional arguments

-h, --help

>   show this help message and exit

--public

List only public flavors (default)

--private

List only private flavors

--all

List all flavors, whether public or private

--long

List additional fields in output

--marker <marker>

The last flavor ID of the previous page

--limit <limit>

Maximum number of flavors to display

2.132. OPENSTACK FLAVOR SET

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

Set flavor properties

Positional arguments

<flavor>

Flavor to modify (name or ID)

Optional arguments

-h, --help

show this help message and exit

--property <key=value>

Property to add or modify for this flavor (repeat
option to set multiple properties)

--project <project>

Set flavor access to project (name or ID) (admin only)

--project-domain <project-domain>

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

2.133. OPENSTACK FLAVOR SHOW

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

Display flavor details

Positional arguments

<flavor>

Flavor to display (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.134. OPENSTACK FLAVOR UNSET

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

```
<project>]
                                    [--project-domain <project-domain>]
                                    <flavor>
```

Unset flavor properties

Positional arguments

\<flavor\>

Flavor to modify (name or ID)

Optional arguments

-h, --help

show this help message and exit

--property \<key\>

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

--project \<project\>

Remove flavor access from project (name or ID) (admin
only)

--project-domain \<project-domain\>

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

2.135. OPENSTACK FLOATING IP CREATE

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

```
    ip-address>]
                                          [--fixed-ip-address <fixed-ip-
    address>]
                                          <network>
```

Create floating IP

Positional arguments

<network>

Network to allocate floating IP from (name or ID)

Optional arguments

-h, --help

show this help message and exit

--subnet <subnet>

Subnet on which you want to create the floating IP
(name or ID)

--port <port>

Port to be associated with the floating IP (name or
ID)

--floating-ip-address <floating-ip-address>

Floating IP address

--fixed-ip-address <fixed-ip-address>

Fixed IP address mapped to the floating IP

2.136. OPENSTACK FLOATING IP DELETE

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

Delete floating IP(s)

Positional arguments

<floating-ip>

Floating IP(s) to delete (IP address or ID)

Optional arguments

-h, --help

show this help message and exit

2.137. OPENSTACK FLOATING IP LIST

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

List floating IP(s)

Optional arguments

-h, --help

show this help message and exit

2.138. OPENSTACK FLOATING IP POOL

```
Command "floating ip pool" matches:
  floating ip pool list
```

2.139. OPENSTACK FLOATING IP SHOW

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

Display floating IP details

Positional arguments

<floating-ip>

Floating IP to display (IP address or ID)

Optional arguments

-h, --help

show this help message and exit

2.140. OPENSTACK HOST LIST

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

List hosts

Optional arguments

-h, --help

show this help message and exit

--zone <zone>

Only return hosts in the availability zone

2.141. OPENSTACK HOST SET

```
usage: openstack host set [-h] [--enable | --disable]
                                [--enable-maintenance | --disable-
maintenance]
                                <host>
```

Set host properties

Positional arguments

<host>

Host to modify (name only)

Optional arguments

-h, --help

show this help message and exit

--enable

Enable the host

--disable

Disable the host

--enable-maintenance

Enable maintenance mode for the host

--disable-maintenance

Disable maintenance mode for the host

2.142. OPENSTACK HOST SHOW

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

Display host details

Positional arguments

<host>

Name of host

Optional arguments

-h, --help

show this help message and exit

2.143. OPENSTACK HYPERVISOR LIST

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

List hypervisors

Optional arguments

-h, --help

show this help message and exit

--matching <hostname>

Filter hypervisors using <hostname> substring

2.144. OPENSTACK HYPERVISOR SHOW

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

Display hypervisor details

Positional arguments

<hypervisor>

Hypervisor to display (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.145. OPENSTACK HYPERVISOR STATS SHOW

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

Display hypervisor stats details

Optional arguments

-h, --help

show this help message and exit

2.146. OPENSTACK IMAGE ADD PROJECT

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

Associate project with image

Positional arguments

<image>

Image to share (name or ID)

<project>

Project to associate with image (name or ID)

Optional arguments

-h, --help

show this help message and exit

--project-domain <project-domain>

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

2.147. OPENSTACK IMAGE CREATE

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

Create/upload an image

Positional arguments

<image-name>

New image name

Optional arguments

-h, --help

> show this help message and exit

--id <id>

> Image ID to reserve

--container-format <container-format>

> Image container format (default: bare)

--disk-format <disk-format>

> Image disk format (default: raw)

--min-disk <disk-gb>

> Minimum disk size needed to boot image, in gigabytes

--min-ram <ram-mb>

> Minimum RAM size needed to boot image, in megabytes

--file <file>

> Upload image from local file

--volume <volume>

> Create image from a volume

--force

> Force image creation if volume is in use (only
> meaningful with --volume)

--protected

Prevent image from being deleted

--unprotected

Allow image to be deleted (default)

--public

Image is accessible to the public

--private

Image is inaccessible to the public (default)

--property <key=value>

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

--tag <tag>

Set a tag on this image (repeat option to set multiple
tags)

--project <project>

Set an alternate project on this image (name or ID)

--project-domain <project-domain>

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

2.148. OPENSTACK IMAGE DELETE

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

Delete image(s)

Positional arguments

<image>

Image(s) to delete (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.149. OPENSTACK IMAGE LIST

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

List available images

Optional arguments

-h, --help

show this help message and exit

--public

List only public images

--private

List only private images

--shared

List only shared images

--property <key=value>

Filter output based on property

--long

List additional fields in output

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

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

--limit <limit>

Maximum number of images to display.

--marker <marker>

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

2.150. OPENSTACK IMAGE REMOVE PROJECT

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

Disassociate project with image

Positional arguments

<image>

Image to unshare (name or ID)

<project>

Project to disassociate with image (name or ID)

Optional arguments

-h, --help

show this help message and exit

--project-domain <project-domain>

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

2.151. OPENSTACK IMAGE SAVE

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

Save an image locally

Positional arguments

<image>

Image to save (name or ID)

Optional arguments

-h, --help

show this help message and exit

--file <filename>

Downloaded image save filename (default: stdout)

2.152. OPENSTACK IMAGE SET

```
usage: openstack image set [-h] [--name <name>] [--min-disk <disk-gb>]
                           [--min-ram <ram-mb>]
                           [--container-format <container-format>]
                           [--disk-format <disk-format>]
                           [--protected | --unprotected]
                           [--public | --private] [--property
<key=value>]
```

```
                                 [--tag <tag>] [--architecture
<architecture>]
                                 [--instance-id <instance-id>]
                                 [--kernel-id <kernel-id>] [--os-distro
<os-distro>]
                                 [--os-version <os-version>]
                                 [--ramdisk-id <ramdisk-id>]
                                 [--deactivate | --activate] [--project
<project>]
                                 [--project-domain <project-domain>]
                                 <image>
```

Set image properties

Positional arguments

<image>

> Image to modify (name or ID)

Optional arguments

-h, --help

> show this help message and exit

--name <name>

> New image name

--min-disk <disk-gb>

> Minimum disk size needed to boot image, in gigabytes

--min-ram <ram-mb>

> Minimum RAM size needed to boot image, in megabytes

--container-format <container-format>

> Image container format (default: bare)

--disk-format <disk-format>

Image disk format (default: raw)

--protected

Prevent image from being deleted

--unprotected

Allow image to be deleted (default)

--public

Image is accessible to the public

--private

Image is inaccessible to the public (default)

--property <key=value>

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

--tag <tag>

Set a tag on this image (repeat option to set multiple
tags)

--architecture <architecture>

Operating system architecture

--instance-id <instance-id>

ID of server instance used to create this image

--kernel-id <kernel-id>

ID of kernel image used to boot this disk image

--os-distro <os-distro>

Operating system distribution name

--os-version <os-version>

Operating system distribution version

--ramdisk-id <ramdisk-id>

ID of ramdisk image used to boot this disk image

--deactivate

Deactivate the image

--activate

Activate the image

--project <project>

Set an alternate project on this image (name or ID)

--project-domain <project-domain>

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

2.153. OPENSTACK IMAGE SHOW

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

Display image details

Positional arguments

<image>

Image to display (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.154. OPENSTACK IMAGE UNSET

```
usage: openstack image unset [-h] [--tag <tag>] [--property
<property_key>]
                                        <image>
```

Unset image tags and properties

Positional arguments

<image>

Image to modify (name or ID)

Optional arguments

-h, --help

show this help message and exit

--tag <tag>

Unset a tag on this image (repeat option to set
multiple tags)

--property <property_key>

Unset a property on this image (repeat option to set
multiple properties)

2.155. OPENSTACK IP AVAILABILITY LIST

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

List IP availability for network

Optional arguments

-h, --help

show this help message and exit

--ip-version <ip-version>

List IP availability of given IP version networks
(default is 4)

--project <project>

List IP availability of given project (name or ID)

--project-domain <project-domain>

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

2.156. OPENSTACK IP AVAILABILITY SHOW

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

Show network IP availability details

Positional arguments

<network>

Show IP availability for a specific network (name or
ID)

Optional arguments

-h, --help

show this help message and exit

2.157. OPENSTACK KEYPAIR CREATE

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

Create new public key

Positional arguments

<name>

New public key name

Optional arguments

-h, --help

show this help message and exit

--public-key <file>

Filename for public key to add

2.158. OPENSTACK KEYPAIR DELETE

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

Delete public key(s)

Positional arguments

<key>

Public key(s) to delete (name only)

Optional arguments

-h, --help

show this help message and exit

2.159. OPENSTACK KEYPAIR LIST

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

List public key fingerprints

Optional arguments

-h, --help

show this help message and exit

2.160. OPENSTACK KEYPAIR SHOW

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

Display public key details

Positional arguments

<key>

Public key to display (name only)

Optional arguments

-h, --help

show this help message and exit

--public-key

Show only bare public key (name only)

2.161. OPENSTACK LIMITS SHOW

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

Show compute and block storage limits

Optional arguments

-h, --help

show this help message and exit

--absolute

Show absolute limits

--rate

Show rate limits

--reserved

Include reservations count [only valid with
--absolute]

--project <project>

Show limits for a specific project (name or ID) [only
valid with --absolute]

--domain <domain>

Domain the project belongs to (name or ID) [only valid
with --absolute]

2.162. OPENSTACK METRIC ARCHIVE-POLICY CREATE

```
usage: openstack metric archive-policy create [-h]
                                               [-f
{json,shell,table,value,yaml}]
                                               [-c COLUMN]
                                               [--max-width
<integer>]
                                               [--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

2.163. OPENSTACK METRIC ARCHIVE-POLICY DELETE

```
usage: openstack metric 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

2.164. OPENSTACK METRIC ARCHIVE-POLICY LIST

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

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

List archive policies

Optional arguments

-h, --help

> show this help message and exit

2.165. OPENSTACK METRIC ARCHIVE-POLICY SHOW

```
usage: openstack metric archive-policy show [-h]
                                            [-f
{json,shell,table,value,yaml}]

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

                                            name
```

Show an archive policy

Positional arguments

name

> Name of the archive policy

Optional arguments

-h, --help

> show this help message and exit

2.166. OPENSTACK METRIC ARCHIVE-POLICY-RULE CREATE

```
usage: openstack metric archive-policy-rule create [-h]
                                                   [-f
{json,shell,table,value,yaml}]

                                                   [-c COLUMN]
                                                   [--max-width
<integer>]

                                                   [--noindent]
                                                   [--prefix PREFIX]

-a

ARCHIVE_POLICY_NAME -m

                                                   METRIC_PATTERN
                                                   name
```

Create an archive policy rule

Positional arguments

name

Rule name

Optional arguments

-h, --help

show this help message and exit

-a ARCHIVE_POLICY_NAME, --archive-policy-name ARCHIVE_POLICY_NAME

Archive policy name

-m METRIC_PATTERN, --metric-pattern METRIC_PATTERN

Wildcard of metric name to match

2.167. OPENSTACK METRIC ARCHIVE-POLICY-RULE DELETE

```
usage: openstack metric 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

2.168. OPENSTACK METRIC ARCHIVE-POLICY-RULE LIST

2.168. OPENSTACK METRIC ARCHIVE-POLICY-RULE LIST

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

List archive policy rules

Optional arguments

-h, --help

show this help message and exit

2.169. OPENSTACK METRIC ARCHIVE-POLICY-RULE SHOW

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

Show an archive policy rule

Positional arguments

name

Name of the archive policy rule

Optional arguments

-h, --help

show this help message and exit

2.170. OPENSTACK METRIC BENCHMARK MEASURES ADD

```
usage: openstack metric benchmark measures add [-h]
                                               [--resource-id
RESOURCE_ID]
                                               [-f
{json,shell,table,value,yaml}]
                                               [-c COLUMN]
                                               [--max-width
<integer>]
                                               [--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

2.171. OPENSTACK METRIC BENCHMARK MEASURES SHOW

```
usage: openstack metric benchmark measures show [-h]
                                                [-f
{json,shell,table,value,yaml}]
                                                [-c COLUMN]
                                                [--max-width
<integer>]
                                                [--noindent] [--
prefix PREFIX]
                                                [--resource-id
RESOURCE_ID]
                                                [--aggregation
AGGREGATION]
                                                [--start START] [--
stop STOP]
                                                [--granularity
GRANULARITY]
                                                [--refresh]
                                                [--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 (in seconds)

--refresh

force aggregation of all known measures

--workers WORKERS, -w WORKERS

Number of workers to use

--count COUNT, -n COUNT

Number of total measures to send

2.172. OPENSTACK METRIC BENCHMARK METRIC CREATE

```
usage: openstack metric benchmark metric create [-h]
                                                 [--resource-id
RESOURCE_ID]
                                                 [-f
{json,shell,table,value,yaml}]
                                                 [-c COLUMN]
                                                 [--max-width
<integer>]
                                                 [--noindent] [--
prefix PREFIX]
                                                 [--archive-policy-
name ARCHIVE_POLICY_NAME]
                                                 [--workers WORKERS]
--count
                                                 COUNT [--keep]
```

Do benchmark testing of metric creation

Optional arguments

-h, --help

show this help message and exit

--resource-id RESOURCE_ID, -r RESOURCE_ID

ID of the resource

--archive-policy-name ARCHIVE_POLICY_NAME, -a ARCHIVE_POLICY_NAME

name of the archive policy

--workers WORKERS, -w WORKERS

Number of workers to use

--count COUNT, -n COUNT

Number of metrics to create

--keep, -k

Keep created metrics

2.173. OPENSTACK METRIC BENCHMARK METRIC SHOW

```
usage: openstack metric benchmark metric show [-h] [--resource-id
RESOURCE_ID]
                                               [-f
{json,shell,table,value,yaml}]
                                               [-c COLUMN]
                                               [--max-width
<integer>]
                                               [--noindent] [--prefix
PREFIX]
                                               [--workers WORKERS] --
count
                                               COUNT
                                               metric [metric ...]
```

Do benchmark testing of metric show

Positional arguments

metric

ID or name of the metrics

Optional arguments

-h, --help

show this help message and exit

--resource-id RESOURCE_ID, -r RESOURCE_ID

ID of the resource

--workers WORKERS, -w WORKERS

Number of workers to use

--count COUNT, -n COUNT

Number of metrics to get

2.174. OPENSTACK METRIC CAPABILITIES LIST

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

List capabilities

Optional arguments

-h, --help

show this help message and exit

2.175. OPENSTACK METRIC MEASURES ADD

```
usage: openstack metric 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 '@'

2.176. OPENSTACK METRIC MEASURES AGGREGATION

```
usage: openstack metric measures aggregation [-h]
                                             [-f
{csv,json,table,value,yaml}]
                                             [-c COLUMN]
                                             [--max-width <integer>]
                                             [--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]
```

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 (in seconds)

`--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, ∨,
>=, <=, !=, >, <, =, ==, 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

2.177. OPENSTACK METRIC MEASURES BATCH-METRICS

```
usage: openstack metric 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

2.178. OPENSTACK METRIC MEASURES BATCH-RESOURCES-METRICS

```
usage: openstack metric measures batch-resources-metrics [-h] file
```

Positional arguments

file

File containing measurements to batch or - for stdin (see
Gnocchi REST API docs for the format

Optional arguments

-h, --help

show this help message and exit

2.179. OPENSTACK METRIC MEASURES SHOW

```
usage: openstack metric measures show [-h] [-f
{csv,json,table,value,yaml}]
                                      [-c COLUMN] [--max-width
<integer>]
                                      [--noindent]
                                      [--quote
{all,minimal,none,nonnumeric}]
                                      [--resource-id RESOURCE_ID]
                                      [--aggregation AGGREGATION]
                                      [--start START] [--stop STOP]
                                      [--granularity GRANULARITY] [-
-refresh]
                                      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 (in seconds)

--refresh

force aggregation of all known measures

2.180. OPENSTACK METRIC METRIC CREATE

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

2.181. OPENSTACK METRIC METRIC DELETE

```
usage: openstack metric 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

2.182. OPENSTACK METRIC METRIC LIST

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

2.183. OPENSTACK METRIC METRIC SHOW

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

Show a metric

Positional arguments

metric

ID or name of the metric

Optional arguments

-h, --help

show this help message and exit

--resource-id RESOURCE_ID, -r RESOURCE_ID

ID of the resource

2.184. OPENSTACK METRIC RESOURCE CREATE

```
usage: openstack metric resource create [-h]
                                        [-f
{json,shell,table,value,yaml}]
                                        [-c COLUMN] [--max-width
<integer>]
                                        [--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

2.185. OPENSTACK METRIC RESOURCE DELETE

```
usage: openstack metric 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

2.186. OPENSTACK METRIC RESOURCE HISTORY

```
usage: openstack metric resource history [-h] [-f
{csv,json,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--noindent]
                                         [--quote
{all,minimal,none,nonnumeric}]
                                         [--details] [--limit
<LIMIT>]
                                         [--marker <MARKER>] [--sort
<SORT>]
                                         [--type RESOURCE_TYPE]
                                         resource_id
```

Show the history of a resource

Positional arguments

resource_id

>   ID of a resource

Optional arguments

-h, --help

>   show this help message and exit

--details

>   Show all attributes of generic resources

--limit <LIMIT>

>   Number of resources to return (Default is server
>   default)

--marker <MARKER>

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

--sort <SORT>

>   Sort of resource attribute (example: user_id:desc-
>   nullslast

--type RESOURCE_TYPE, -t RESOURCE_TYPE

>   Type of resource

2.187. OPENSTACK METRIC RESOURCE LIST

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

```
                                         [--details] [--history]
                                         [--limit <LIMIT>] [--marker
<MARKER>]

                                         [--sort <SORT>] [--type
RESOURCE_TYPE]
```

List resources

Optional arguments

-h, --help

> show this help message and exit

--details

> Show all attributes of generic resources

--history

> Show history of the resources

--limit <LIMIT>

> Number of resources to return (Default is server
> default)

--marker <MARKER>

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

--sort <SORT>

> Sort of resource attribute (example: user_id:desc-
> nullslast

--type RESOURCE_TYPE, -t RESOURCE_TYPE

> Type of resource

2.188. OPENSTACK METRIC RESOURCE SEARCH

```
usage: openstack metric resource search [-h] [-f
{csv,json,table,value,yaml}]
                                        [-c COLUMN] [--max-width
<integer>]
                                        [--noindent]
                                        [--quote
{all,minimal,none,nonnumeric}]
                                        [--details] [--history]
                                        [--limit <LIMIT>] [--marker
<MARKER>]
                                        [--sort <SORT>] [--type
RESOURCE_TYPE]
                                        query
```

Search resources with specified query rules

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, ∨,
> >=, <=, !=, >, <, =, ==, eq, ne, lt, gt, ge, le, in,
> like, ≠, ≥, ≤, like, in.

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

2.189. OPENSTACK METRIC RESOURCE SHOW

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

Show a resource

Positional arguments

resource_id

ID of a resource

Optional arguments

-h, --help

show this help message and exit

--type RESOURCE_TYPE, -t RESOURCE_TYPE

Type of resource

2.190. OPENSTACK METRIC RESOURCE UPDATE

```
usage: openstack metric resource update [-h]
                                        [-f
{json,shell,table,value,yaml}]
                                        [-c COLUMN] [--max-width
<integer>]
                                        [--noindent] [--prefix
PREFIX]
                                        [--type RESOURCE_TYPE] [-a
ATTRIBUTE]
                                        [-m ADD_METRIC] [-n
CREATE_METRIC]
                                        [-d DELETE_METRIC]
                                        resource_id
```

Update a resource

Positional arguments

resource_id

ID of the resource

Optional arguments

-h, --help

show this help message and exit

--type RESOURCE_TYPE, -t RESOURCE_TYPE

Type of resource

-a ATTRIBUTE, --attribute ATTRIBUTE

name and value of 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

2.191. OPENSTACK METRIC RESOURCE-TYPE CREATE

```
usage: openstack metric resource-type create [-h]
                                             [-f
{json,shell,table,value,yaml}]

                                             [-c COLUMN]
                                             [--max-width <integer>]
                                             [--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

2.192. OPENSTACK METRIC RESOURCE-TYPE DELETE

```
usage: openstack metric 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

2.193. OPENSTACK METRIC RESOURCE-TYPE LIST

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

List resource types

Optional arguments

-h, --help

show this help message and exit

2.194. OPENSTACK METRIC RESOURCE-TYPE SHOW

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

```
<integer>]
                                                [--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

2.195. OPENSTACK METRIC STATUS

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

Show the status of measurements processing

Optional arguments

-h, --help

> show this help message and exit

2.196. OPENSTACK MODULE LIST

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

List module versions

Optional arguments

-h, --help

show this help message and exit

--all

Show all modules that have version information

2.197. OPENSTACK NETWORK AGENT DELETE

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

Delete network agent(s)

Positional arguments

<network-agent>

Network agent(s) to delete (ID only)

Optional arguments

-h, --help

show this help message and exit

2.198. OPENSTACK NETWORK AGENT LIST

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

List network agents

Optional arguments

-h, --help

show this help message and exit

2.199. OPENSTACK NETWORK AGENT SET

```
usage: openstack network agent set [-h] [--description <description>]
                                   [--enable | --disable]
                                   <network-agent>
```

Set network agent properties

Positional arguments

<network-agent>

Network agent to modify (ID only)

Optional arguments

-h, --help

show this help message and exit

--description <description>

Set network agent description

--enable

Enable network agent

--disable

Disable network agent

2.200. OPENSTACK NETWORK AGENT SHOW

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

■

Display network agent details

Positional arguments

<network-agent>

Network agent to display (ID only)

Optional arguments

-h, --help

show this help message and exit

2.201. OPENSTACK NETWORK CREATE

```
usage: openstack network create [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                [--share | --no-share] [--enable | --
disable]
                                [--project <project>]
                                [--project-domain <project-domain>]
                                [--availability-zone-hint
<availability-zone>]
                                [--enable-port-security | --disable-
port-security]
                                [--external | --internal]
                                [--default | --no-default]
                                [--provider-network-type <provider-
network-type>]
                                [--provider-physical-network
<provider-physical-network>]
                                [--provider-segment <provider-
segment>]
                                [--transparent-vlan | --no-
transparent-vlan]
                                <name>
```

Create new network

Positional arguments

<name>

New network name

Optional arguments

-h, --help

show this help message and exit

--share

Share the network between projects

--no-share

Do not share the network between projects

--enable

Enable network (default)

--disable

Disable network

--project <project>

Owner's project (name or ID)

--project-domain <project-domain>

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

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

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

`--enable-port-security`

Enable port security by default for ports created on
this network (default)

`--disable-port-security`

Disable port security by default for ports created on
this network

`--external`

Set this network as an external network (external-net
extension required)

`--internal`

Set this network as an internal network (default)

`--default`

Specify if this network should be used as the default
external network

`--no-default`

Do not use the network as the default external network
(default)

`--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.

`--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
GENEVE/GRE/VXLAN networks

--transparent-vlan

Make the network VLAN transparent

--no-transparent-vlan

Do not make the network VLAN transparent

2.202. OPENSTACK NETWORK DELETE

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

Delete network(s)

Positional arguments

<network>

Network(s) to delete (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.203. OPENSTACK NETWORK LIST

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

List networks

Optional arguments

-h, --help

show this help message and exit

--external

List external networks

--long

List additional fields in output

2.204. OPENSTACK NETWORK RBAC CREATE

```
usage: openstack network rbac create [-h] [-f
{json,shell,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--noindent] [--prefix PREFIX] -
-type
                                     <type> --action <action> --
target-project
                                     <target-project>
                                     [--target-project-domain
<target-project-domain>]
                                     [--project <project>]
                                     [--project-domain <project-
domain>]
                                     <rbac-object>
```

Create network RBAC policy

Positional arguments

<rbac-object>

The object to which this RBAC policy affects (name or
ID for network objects, ID only for QoS policy
objects)

Optional arguments

-h, --help

show this help message and exit

--type <type>

Type of the object that RBAC policy affects
("qos_policy" or "network")

--action <action>

Action for the RBAC policy ("access_as_external" or
"access_as_shared")

--target-project <target-project>

The project to which the RBAC policy will be enforced
(name or ID)

--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.

2.205. OPENSTACK NETWORK RBAC DELETE

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

Delete network RBAC policy(s)

Positional arguments

<rbac-policy>

RBAC policy(s) to delete (ID only)

Optional arguments

-h, --help

show this help message and exit

2.206. OPENSTACK NETWORK RBAC LIST

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

List network RBAC policies

Optional arguments

-h, --help

show this help message and exit

2.207. OPENSTACK NETWORK RBAC SET

```
usage: openstack network rbac set [-h] [--target-project <target-
project>]
                                        [--target-project-domain <target-
project-domain>]
                                        <rbac-policy>
```

Set network RBAC policy properties

Positional arguments

<rbac-policy>

RBAC policy to be modified (ID only)

Optional arguments

-h, --help

show this help message and exit

--target-project <target-project>

The project to which the RBAC policy will be enforced
(name or ID)

--target-project-domain <target-project-domain>

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

2.208. OPENSTACK NETWORK RBAC SHOW

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

                                    [--noindent] [--prefix PREFIX]
                                    <rbac-policy>
```

Display network RBAC policy details

Positional arguments

<rbac-policy>

RBAC policy (ID only)

Optional arguments

-h, --help

show this help message and exit

2.209. OPENSTACK NETWORK SEGMENT LIST

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

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

List network segments (Caution: This is a beta command and subject to change. Use global option --os-beta-command to enable this command)

Optional arguments

-h, --help

show this help message and exit

--long

List additional fields in output

--network <network>

List network segments that belong to this network (name or ID)

2.210. OPENSTACK NETWORK SEGMENT SHOW

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

Display network segment details (Caution: This is a beta command and subject to change. Use global option --os-beta-command to enable this command)

Positional arguments

<network-segment>

Network segment to display (ID only)

Optional arguments

-h, --help

show this help message and exit

2.211. OPENSTACK NETWORK SET

```
usage: openstack network set [-h] [--name <name>] [--enable | --
disable]
                              [--share | --no-share]
                              [--enable-port-security | --disable-
port-security]
                              [--external | --internal]
                              [--default | --no-default]
                              [--provider-network-type <provider-
network-type>]
                              [--provider-physical-network <provider-
physical-network>]
                              [--provider-segment <provider-segment>]
                              [--transparent-vlan | --no-transparent-
vlan]
                              <network>
```

Set network properties

Positional arguments

<network>

Network to modify (name or ID)

Optional arguments

-h, --help

show this help message and exit

--name <name>

Set network name

--enable

Enable network

`--disable`

> Disable network

`--share`

> Share the network between projects

`--no-share`

> Do not share the network between projects

`--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, geneve, 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 GENEVE/GRE/VXLAN networks

`--transparent-vlan`

Make the network VLAN transparent

`--no-transparent-vlan`

Do not make the network VLAN transparent

2.212. OPENSTACK NETWORK SHOW

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

Show network details

Positional arguments

`<network>`

Network to display (name or ID)

Optional arguments

`-h, --help`

show this help message and exit

2.213. OPENSTACK NETWORK SUBPORT LIST

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

List all subports for a given network trunk

Optional arguments

-h, --help

show this help message and exit

--trunk <trunk>

List subports belonging to this trunk (name or ID)

2.214. OPENSTACK NETWORK TRUNK CREATE

```
usage: openstack network trunk create [-h] [-f
{json,shell,table,value,yaml}]
                                       [-c COLUMN] [--max-width
<integer>]
                                       [--noindent] [--prefix PREFIX]
                                       [--description <description>]
                                       --parent-port <parent-port>
                                       [--subport <port=,segmentation-
type=,segmentation-id=>]
                                       [--enable | --disable]
                                       [--project <project>]
                                       [--project-domain <project-
domain>]
                                       <name>
```

Create a network trunk for a given project

Positional arguments

`<name>`

Name of the trunk to create

Optional arguments

`-h, --help`

show this help message and exit

`--description <description>`

A description of the trunk

`--parent-port <parent-port>`

Parent port belonging to this trunk (name or ID)

`--subport <port=,segmentation-type=,segmentation-id=>`

Subport to add. Subport is of form 'port=<name or ID
>,segmentation-type=,segmentation-ID=' (--subport)
option can be repeated

`--enable`

Enable trunk (default)

`--disable`

Disable trunk

`--project <project>`

Owner's project (name or ID)

`--project-domain <project-domain>`

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

2.215. OPENSTACK NETWORK TRUNK DELETE

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

Delete a given network trunk

Positional arguments

<trunk>

Trunk(s) to delete (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.216. OPENSTACK NETWORK TRUNK LIST

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

List all network trunks

Optional arguments

-h, --help

show this help message and exit

--long

List additional fields in output

2.217. OPENSTACK NETWORK TRUNK SET

```
usage: openstack network trunk set [-h] [--name <name>]
                                   [--description <description>]
                                   [--subport <port=,segmentation-
type=,segmentation-id=>]

                                   [--enable | --disable]
                                   <trunk>
```

Set network trunk properties

Positional arguments

<trunk>

Trunk to modify (name or ID)

Optional arguments

-h, --help

show this help message and exit

--name <name>

Set trunk name

--description <description>

A description of the trunk

--subport <port=,segmentation-type=,segmentation-id=>

Subport to add. Subport is of form 'port=<name or ID
>,segmentation-type=,segmentation-ID='(--subport)
option can be repeated

--enable

Enable trunk

--disable

Disable trunk

2.218. OPENSTACK NETWORK TRUNK SHOW

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

Show information of a given network trunk

Positional arguments

<trunk>

Trunk to display (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.219. OPENSTACK NETWORK TRUNK UNSET

```
usage: openstack network trunk unset [-h] --subport <subport> <trunk>
```

Unset subports from a given network trunk

Positional arguments

<trunk>

Unset subports from this trunk (name or ID)

Optional arguments

-h, --help

show this help message and exit

--subport <subport>

Subport to delete (name or ID of the port) (--subport)
option can be repeated

2.220. OPENSTACK OBJECT CREATE

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

Upload object to container

Positional arguments

<container>

Container for new object

<filename>

Local filename(s) to upload

Optional arguments

-h, --help

show this help message and exit

2.221. OPENSTACK OBJECT DELETE

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

Delete object from container

Positional arguments

`<container>`

Delete object(s) from <container>

`<object>`

Object(s) to delete

Optional arguments

`-h, --help`

show this help message and exit

2.222. OPENSTACK OBJECT LIST

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

List objects

Positional arguments

`<container>`

Container to list

Optional arguments

`-h, --help`

show this help message and exit

--prefix <prefix>

Filter list using <prefix>

--delimiter <delimiter>

Roll up items with <delimiter>

--marker <marker>

Anchor for paging

--end-marker <end-marker>

End anchor for paging

--limit <limit>

Limit the number of objects returned

--long

List additional fields in output

--all

List all objects in container (default is 10000)

2.223. OPENSTACK OBJECT SAVE

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

Save object locally

Positional arguments

<container>

Download <object> from <container>

`<object>`

Object to save

Optional arguments

`-h, --help`

show this help message and exit

`--file <filename>`

Destination filename (defaults to object name)

2.224. OPENSTACK OBJECT SET

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

Set object properties

Positional arguments

`<container>`

Modify <object> from <container>

`<object>`

Object to modify

Optional arguments

`-h, --help`

show this help message and exit

`--property <key=value>`

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

2.225. OPENSTACK OBJECT SHOW

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

Display object details

Positional arguments

<container>

Display <object> from <container>

<object>

Object to display

Optional arguments

-h, --help

show this help message and exit

2.226. OPENSTACK OBJECT STORE ACCOUNT SET

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

Set account properties

Optional arguments

-h, --help

show this help message and exit

--property <key=value>

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

2.227. OPENSTACK OBJECT STORE ACCOUNT SHOW

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

Display account details

Optional arguments

-h, --help

show this help message and exit

2.228. OPENSTACK OBJECT STORE ACCOUNT UNSET

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

Unset account properties

Optional arguments

-h, --help

show this help message and exit

--property <key>

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

2.229. OPENSTACK OBJECT UNSET

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

Unset object properties

Positional arguments

`<container>`

Modify <object> from <container>

`<object>`

Object to modify

Optional arguments

`-h, --help`

show this help message and exit

`--property <key>`

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

2.230. OPENSTACK ORCHESTRATION BUILD INFO

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

Retrieve build information.

Optional arguments

`-h, --help`

show this help message and exit

2.231. OPENSTACK ORCHESTRATION RESOURCE TYPE LIST

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

List resource types.

Optional arguments

-h, --help

show this help message and exit

--filter <key=value>

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

--long

Show resource types with corresponding description of
each resource type.

2.232. OPENSTACK ORCHESTRATION RESOURCE TYPE SHOW

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

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

Positional arguments

<resource-type>

Resource type to show details for

Optional arguments

-h, --help

show this help message and exit

--template-type <template-type>

Optional template type to generate, hot or cfn

--long

Show resource type with corresponding description.

2.233. OPENSTACK ORCHESTRATION SERVICE LIST

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

List the Heat engines.

Optional arguments

-h, --help

show this help message and exit

2.234. OPENSTACK ORCHESTRATION TEMPLATE FUNCTION LIST

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

List the available functions.

Positional arguments

<template-version>

Template version to get the functions for

Optional arguments

-h, --help

show this help message and exit

2.235. OPENSTACK ORCHESTRATION TEMPLATE VALIDATE

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

Validate a template

Optional arguments

-h, --help

show this help message and exit

-e <environment>, --environment <environment>

Path to the environment. Can be specified multiple
times

--show-nested

Resolve parameters from nested templates as well

--parameter <key=value>

Parameter values used to create the stack. This can be
specified multiple times

--ignore-errors <error1,error2,...>

List of heat errors to ignore

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

Path to the template

2.236. OPENSTACK ORCHESTRATION TEMPLATE VERSION LIST

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

List the available template versions.

Optional arguments

-h, --help

show this help message and exit

2.237. OPENSTACK PORT CREATE

```
usage: openstack port create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX] --network <network>
                             [--device <device-id>]
                             [--device-owner <device-owner>]
                             [--vnic-type <vnic-type>] [--host <host-
id>]
                             [--fixed-ip subnet=<subnet>,ip-address=
<ip-address>]
                             [--binding-profile <binding-profile>]
                             [--enable | --disable]
                             [--mac-address <mac-address>]
                             [--project <project>]
                             [--project-domain <project-domain>]
                             <name>
```

Create a new port

Positional arguments

<name>

Name of this port

Optional arguments

-h, --help

show this help message and exit

--network <network>

Network this port belongs to (name or ID)

--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)

`--host <host-id>`

Allocate port on host <host-id> (ID only)

`--fixed-ip`

subnet=<subnet>,ip-address=<ip-address>
Desired IP and/or subnet (name or ID) for this port:
subnet=<subnet>,ip-address=<ip-address> (repeat option
to set multiple fixed IP addresses)

`--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)

`--enable`

Enable port (default)

`--disable`

Disable port

`--mac-address <mac-address>`

MAC address of this port

`--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.

2.238. OPENSTACK PORT DELETE

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

Delete port(s)

Positional arguments

<port>

Port(s) to delete (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.239. OPENSTACK PORT LIST

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

List ports

Optional arguments

-h, --help

show this help message and exit

--device-owner <device-owner>

List only ports with the specified device owner. This
is the entity that uses the port (for example,
network:dhcp).

--router <router>

List only ports attached to this router (name or ID)

2.240. OPENSTACK PORT SET

```
usage: openstack port set [-h] [--device <device-id>]
                          [--device-owner <device-owner>]
                          [--vnic-type <vnic-type>] [--host <host-
id>]
                          [--enable | --disable] [--name <name>]
                          [--fixed-ip subnet=<subnet>,ip-address=<ip-
address> | --no-fixed-ip]
                          [--binding-profile <binding-profile> | --
no-binding-profile]
                          <port>
```

Set port properties

Positional arguments

<port>

Port to modify (name or ID)

Optional arguments

-h, --help

show this help message and exit

--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)

--host <host-id>

> Allocate port on host <host-id> (ID only)

--enable

> Enable port

--disable

> Disable port

--name <name>

> Set port name

--fixed-ip

> subnet=<subnet>,ip-address=<ip-address>
> Desired IP and/or subnet (name or ID) for this port:
> subnet=<subnet>,ip-address=<ip-address> (repeat option
> to set multiple fixed IP addresses)

--no-fixed-ip

> Clear existing information of fixed IP addresses

--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

Clear existing information of binding:profile

2.241. OPENSTACK PORT SHOW

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

Display port details

Positional arguments

<port>

Port to display (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.242. OPENSTACK PORT UNSET

```
usage: openstack port unset [-h]
                                [--fixed-ip subnet=<subnet>,ip-address=
<ip-address>]
                                [--binding-profile <binding-profile-key>]
                                <port>
```

Unset port properties

Positional arguments

<port>

Port to modify (name or ID)

Optional arguments

-h, --help

show this help message and exit

--fixed-ip

subnet=<subnet>,ip-address=<ip-address>
Desired IP and/or subnet (name or ID) which should be
removed from this port: 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)

2.243. OPENSTACK PROJECT CREATE

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

Create new project

Positional arguments

<project-name>

New project name

Optional arguments

-h, --help

show this help message and exit

--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

2.244. OPENSTACK PROJECT DELETE

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

Delete project(s)

Positional arguments

<project>

Project(s) to delete (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.245. OPENSTACK PROJECT LIST

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

```
[--long]
```

List projects

Optional arguments

-h, --help

show this help message and exit

--long

List additional fields in output

2.246. OPENSTACK PROJECT SET

```
usage: openstack project set [-h] [--name <name>]
                             [--description <description>]
                             [--enable | --disable] [--property
<key=value>]
                             <project>
```

Set project properties

Positional arguments

<project>

Project to modify (name or ID)

Optional arguments

-h, --help

show this help message and exit

--name <name>

Set project name

--description <description>

Set project description

--enable

Enable project

--disable

Disable project

--property <key=value>

Set a project property (repeat option to set multiple properties)

2.247. OPENSTACK PROJECT SHOW

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

Display project details

Positional arguments

<project>

Project to display (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.248. OPENSTACK PROJECT UNSET

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

Unset project properties

Positional arguments

`<project>`

Project to modify (name or ID)

Optional arguments

`-h, --help`

show this help message and exit

`--property <key>`

Unset a project property (repeat option to unset multiple properties)

2.249. OPENSTACK PTR RECORD LIST

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

List floatingip ptr records

Optional arguments

`-h, --help`

show this help message and exit

`--all-projects`

Show results from all projects. Default: False

`--edit-managed`

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

2.250. OPENSTACK PTR RECORD SET

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

Set floatingip ptr record

Positional arguments

floatingip_id

Floating IP ID in format region:floatingip_id

ptrdname

PTRD Name

Optional arguments

-h, --help

show this help message and exit

--description DESCRIPTION

Description

--no-description

--ttl TTL TTL

--no-ttl

--all-projects

>   Show results from all projects. Default: False

--edit-managed

>   Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

>   Project ID to impersonate for this command. Default:
>   None

2.251. OPENSTACK PTR RECORD SHOW

```
usage: openstack ptr record show [-h] [-f
{json,shell,table,value,yaml}]
                                 [-c COLUMN] [--max-width <integer>]
                                 [--noindent] [--prefix PREFIX]
                                 [--all-projects] [--edit-managed]
                                 [--sudo-project-id SUDO_PROJECT_ID]
                                 floatingip_id
```

Show floatingip ptr record details

Positional arguments

floatingip_id

>   Floating IP ID in format region:floatingip_id

Optional arguments

-h, --help

>   show this help message and exit

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

2.252. OPENSTACK PTR RECORD UNSET

```
usage: openstack ptr record unset [-h] [--all-projects] [--edit-
managed]
                                  [--sudo-project-id SUDO_PROJECT_ID]
                                  floatingip_id
```

Unset floatingip ptr record

Positional arguments

floatingip_id

Floating IP ID in format region:floatingip_id

Optional arguments

-h, --help

show this help message and exit

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

2.253. OPENSTACK QUOTA SET

```
usage: openstack quota set [-h] [--class] [--properties <properties>]
                           [--server-groups <server-groups>] [--ram
<ram>]
                           [--key-pairs <key-pairs>] [--instances
<instances>]
                           [--fixed-ips <fixed-ips>]
                           [--injected-file-size <injected-file-
size>]
                           [--server-group-members <server-group-
members>]
                           [--injected-files <injected-files>]
                           [--cores <cores>]
                           [--injected-path-size <injected-path-
size>]
                           [--gigabytes <gigabytes>] [--volumes
<volumes>]
                           [--snapshots <snapshots>]
                           [--subnetpools <subnetpools>] [--vips
<vips>]
                           [--members <members>] [--ports <ports>]
                           [--subnets <subnets>] [--networks
<networks>]
                           [--floating-ips <floating-ips>]
                           [--health-monitors <health-monitors>]
                           [--secgroup-rules <secgroup-rules>]
                           [--secgroups <secgroups>] [--routers
<routers>]
                           [--rbac-policies <rbac-policies>]
                           [--volume-type <volume-type>]
                           <project/class>
```

Set quotas for project or class

Positional arguments

<project/class>

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

Optional arguments

-h, --help

show this help message and exit

--class

Set quotas for <class>

--properties <properties>

New value for the properties quota

--server-groups <server-groups>

New value for the server-groups quota

--ram <ram>

New value for the ram quota

--key-pairs <key-pairs>

New value for the key-pairs quota

--instances <instances>

New value for the instances quota

--fixed-ips <fixed-ips>

New value for the fixed-ips quota

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

New value for the injected-file-size quota

--server-group-members <server-group-members>

New value for the server-group-members quota

--injected-files <injected-files>

New value for the injected-files quota

`--cores <cores>`

New value for the cores quota

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

New value for the injected-path-size quota

`--gigabytes <gigabytes>`

New value for the gigabytes quota

`--volumes <volumes>`

New value for the volumes quota

`--snapshots <snapshots>`

New value for the snapshots quota

`--subnetpools <subnetpools>`

New value for the subnetpools quota

`--vips <vips>`

New value for the vips quota

`--members <members>`

New value for the members quota

`--ports <ports>`

New value for the ports quota

`--subnets <subnets>`

New value for the subnets quota

`--networks <networks>`

New value for the networks quota

`--floating-ips <floating-ips>`

New value for the floating-ips quota

`--health-monitors <health-monitors>`

New value for the health-monitors quota

`--secgroup-rules <secgroup-rules>`

New value for the secgroup-rules quota

`--secgroups <secgroups>`

New value for the secgroups quota

`--routers <routers>`

New value for the routers quota

`--rbac-policies <rbac-policies>`

New value for the rbac-policies quota

`--volume-type <volume-type>`

Set quotas for a specific <volume-type>

2.254. OPENSTACK QUOTA SHOW

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

```
[<project/class>]
```

Show quotas for project or class

Positional arguments

<project/class>

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

Optional arguments

-h, --help

show this help message and exit

--class

Show quotas for <class>

--default

Show default quotas for <project>

2.255. OPENSTACK RECORDSET CREATE

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

Create new recordset

Positional arguments

zone_id

Zone ID

name

RecordSet Name

Optional arguments

-h, --help

show this help message and exit

--records RECORDS [RECORDS ...]

RecordSet Records

--type TYPE

RecordSet Type

--ttl TTL

Time To Live (Seconds)

--description DESCRIPTION

Description

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:

None

2.256. OPENSTACK RECORDSET DELETE

```
usage: openstack recordset delete [-h] [-f
{json,shell,table,value,yaml}]
                                  [-c COLUMN] [--max-width <integer>]
                                  [--noindent] [--prefix PREFIX]
                                  [--all-projects] [--edit-managed]
                                  [--sudo-project-id SUDO_PROJECT_ID]
                                  zone_id id
```

Delete recordset

Positional arguments

zone_id

Zone ID

id

RecordSet ID

Optional arguments

-h, --help

show this help message and exit

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

2.257. OPENSTACK RECORDSET LIST

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

List recordsets

Positional arguments

zone_id

Zone ID. To list all recordsets specify 'all'

Optional arguments

-h, --help

show this help message and exit

--name NAME

RecordSet Name

--type TYPE

RecordSet Type

--data DATA

RecordSet Record Data

--ttl TTL

Time To Live (Seconds)

--description DESCRIPTION

Description

--status STATUS

RecordSet Status

--action ACTION

RecordSet Action

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

2.258. OPENSTACK RECORDSET SET

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

Set recordset properties

Positional arguments

zone_id

>   Zone ID

id

>   RecordSet ID

Optional arguments

-h, --help

>   show this help message and exit

--records RECORDS [RECORDS ...]

>   Records

--description DESCRIPTION

>   Description

--no-description

--ttl TTL TTL

--no-ttl

--all-projects

>   Show results from all projects. Default: False

--edit-managed

>   Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

2.259. OPENSTACK RECORDSET SHOW

```
usage: openstack recordset show [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                [--all-projects] [--edit-managed]
                                [--sudo-project-id SUDO_PROJECT_ID]
                                zone_id id
```

Show recordset details

Positional arguments

zone_id

Zone ID

id

RecordSet ID

Optional arguments

-h, --help

show this help message and exit

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

2.260. OPENSTACK RESOURCE MEMBER CREATE

```
usage: openstack resource member create [-h]
                                        [-f
{json,shell,table,value,yaml}]
                                        [-c COLUMN] [--max-width
<integer>]
                                        [--noindent] [--prefix
PREFIX]
                                        resource_id resource_type
member_id
```

Shares a resource to another tenant.

Positional arguments

resource_id

Resource ID to be shared.

resource_type

Resource type.

member_id

Project ID to whom the resource is shared to.

Optional arguments

-h, --help

show this help message and exit

2.261. OPENSTACK RESOURCE MEMBER DELETE

```
usage: openstack resource member delete [-h] resource resource_type
member_id
```

Delete a resource sharing relationship.

Positional arguments

resource

> Resource ID to be shared.

resource_type

> Resource type.

member_id

> Project ID to whom the resource is shared to.

Optional arguments

-h, --help

> show this help message and exit

2.262. OPENSTACK RESOURCE MEMBER LIST

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

List all members.

Positional arguments

resource_id

> Resource id to be shared.

resource_type

> Resource type.

Optional arguments

-h, --help

show this help message and exit

2.263. OPENSTACK RESOURCE MEMBER SHOW

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

Show specific member information.

Positional arguments

resource

Resource ID to be shared.

resource_type

Resource type.

Optional arguments

-h, --help

show this help message and exit

-m MEMBER_ID, --member-id MEMBER_ID

Project ID to whom the resource is shared to. No need
to provide this param if you are the resource member.

2.264. OPENSTACK RESOURCE MEMBER UPDATE

```
usage: openstack resource member update [-h]
                                        [-f
{json,shell,table,value,yaml}]
                                        [-c COLUMN] [--max-width
```

```
   <integer>]
                                    [--noindent] [--prefix
PREFIX]
                                    [-m MEMBER_ID]
                                    [-s
{pending,accepted,rejected}]
                                    resource_id resource_type
```

Update resource sharing status.

Positional arguments

resource_id

Resource ID to be shared.

resource_type

Resource type.

Optional arguments

-h, --help

show this help message and exit

-m MEMBER_ID, --member-id MEMBER_ID

Project ID to whom the resource is shared to. No need
to provide this param if you are the resource member.

-s {pending,accepted,rejected}, --status {pending,accepted,rejected}

status of the sharing.

2.265. OPENSTACK ROLE ADD

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

Add role to project:user

Positional arguments

<role>

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

Optional arguments

-h, --help

show this help message and exit

--project <project>

Include <project> (name or ID)

--user <user>

Include <user> (name or ID)

2.266. OPENSTACK ROLE ASSIGNMENT LIST

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

List role assignments

Optional arguments

-h, --help

show this help message and exit

**`--user

> User to filter (name or ID)

`--project <project>`

> Project to filter (name or ID)

`--names`

> Display names instead of IDs

`--auth-user`

> Only list assignments for the authenticated user

`--auth-project`

> Only list assignments for the project to which the
> authenticated user's token is scoped

2.267. OPENSTACK ROLE CREATE

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

Create new role

Positional arguments

`<name>`

> New role name

Optional arguments

`-h, --help`

show this help message and exit

--or-show

Return existing role

2.268. OPENSTACK ROLE DELETE

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

Delete role(s)

Positional arguments

<role>

Role(s) to delete (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.269. OPENSTACK ROLE LIST

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

List roles

Optional arguments

-h, --help

show this help message and exit

--project <project>

Filter roles by <project> (name or ID)

--user <user>

Filter roles by <user> (name or ID)

2.270. OPENSTACK ROLE REMOVE

```
usage: openstack role remove [-h] --project <project> --user <user>
<role>
```

Remove role from project : user

Positional arguments

<role>

Role to remove (name or ID)

Optional arguments

-h, --help

show this help message and exit

--project <project>

Include <project> (name or ID)

--user <user>

Include <user> (name or ID)

2.271. OPENSTACK ROLE SHOW

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

Display role details

Positional arguments

`<role>`

Role to display (name or ID)

Optional arguments

`-h, --help`

show this help message and exit

2.272. OPENSTACK ROUTER ADD PORT

```
usage: openstack router add port [-h] <router> <port>
```

Add a port to a router

Positional arguments

`<router>`

Router to which port will be added (name or ID)

`<port>`

Port to be added (name or ID)

Optional arguments

`-h, --help`

show this help message and exit

2.273. OPENSTACK ROUTER ADD SUBNET

```
usage: openstack router add subnet [-h] <router> <subnet>
```

Add a subnet to a router

Positional arguments

`<router>`

Router to which subnet will be added (name or ID)

`<subnet>`

Subnet to be added (name or ID)

Optional arguments

`-h, --help`

show this help message and exit

2.274. OPENSTACK ROUTER CREATE

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

Create a new router

Positional arguments

`<name>`

New router name

Optional arguments

`-h, --help`

show this help message and exit

--enable

Enable router (default)

--disable

Disable router

--distributed

Create a distributed router

--project <project>

Owner's project (name or ID)

--project-domain <project-domain>

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

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

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

2.275. OPENSTACK ROUTER DELETE

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

Delete router(s)

Positional arguments

<router>

Router(s) to delete (name or ID)

Optional arguments

-h, --help

>   show this help message and exit

2.276. OPENSTACK ROUTER LIST

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

List routers

Optional arguments

-h, --help

>   show this help message and exit

--long

>   List additional fields in output

2.277. OPENSTACK ROUTER REMOVE PORT

```
usage: openstack router remove port [-h] <router> <port>
```

Remove a port from a router

Positional arguments

<router>

>   Router from which port will be removed (name or ID)

<port>

>   Port to be removed and deleted (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.278. OPENSTACK ROUTER REMOVE SUBNET

```
usage: openstack router remove subnet [-h] <router> <subnet>
```

Remove a subnet from a router

Positional arguments

<router>

Router from which the subnet will be removed (name or ID)

<subnet>

Subnet to be removed (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.279. OPENSTACK ROUTER SET

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

Set router properties

Positional arguments

<router>

Router to modify (name or ID)

Optional arguments

-h, --help

show this help message and exit

--name <name>

Set router name

--enable

Enable router

--disable

Disable router

--distributed

Set router to distributed mode (disabled router only)

--centralized

Set router to centralized mode (disabled router only)

--route

destination=<subnet>,gateway=<ip-address>
Routes associated with the router destination:
destination subnet (in CIDR notation) gateway: nexthop
IP address (repeat option to set multiple routes)

--no-route

Clear routes associated with the router

2.280. OPENSTACK ROUTER SHOW

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

Display router details

Positional arguments

<router>

Router to display (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.281. OPENSTACK ROUTER UNSET

```
usage: openstack router unset [-h]
                              [--route destination=<subnet>,gateway=
<ip-address>]
                              <router>
```

Unset router properties

Positional arguments

<router>

Router to modify (name or ID)

Optional arguments

-h, --help

show this help message and exit

--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)

2.282. OPENSTACK SECRET CONTAINER CREATE

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

Store a container in Barbican.

Optional arguments

-h, --help

show this help message and exit

--name NAME, -n NAME

a human-friendly name.

--type TYPE

type of container to create (default: generic).

--secret SECRET, -s SECRET

one secret to store in a container (can be set
multiple times). Example: --secret
"private_key=https://url.test/v1/secrets/1-2-3-4"

2.283. OPENSTACK SECRET CONTAINER DELETE

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

Delete a container by providing its href.

Positional arguments

URI

The URI reference for the container

Optional arguments

-h, --help

show this help message and exit

2.284. OPENSTACK SECRET CONTAINER GET

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

Retrieve a container by providing its URI.

Positional arguments

URI

The URI reference for the container.

Optional arguments

-h, --help

show this help message and exit

2.285. OPENSTACK SECRET CONTAINER LIST

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

```
                                              [--noindent]
                                              [--quote
  {all,minimal,none,nonnumeric}]
                                              [--limit LIMIT] [--offset
  OFFSET]
                                              [--name NAME] [--type TYPE]
```

List containers.

Optional arguments

-h, --help

> show this help message and exit

--limit LIMIT, -l LIMIT

> specify the limit to the number of items to list per
> page (default: 10; maximum: 100)

--offset OFFSET, -o OFFSET

> specify the page offset (default: 0)

--name NAME, -n NAME

> specify the container name (default: None)

--type TYPE, -t TYPE

> specify the type filter for the list (default: None).

2.286. OPENSTACK SECRET DELETE

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

Delete a secret by providing its URI.

Positional arguments

URI

The URI reference for the secret

Optional arguments

-h, --help

show this help message and exit

2.287. OPENSTACK SECRET GET

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

Retrieve a secret by providing its URI.

Positional arguments

URI

The URI reference for the secret.

Optional arguments

-h, --help

show this help message and exit

--decrypt, -d

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

--payload, -p

if specified, retrieve the unencrypted secret data;
the data type can be specified with --payload-content-
type. If the user wishes to only retrieve the value of

the payload they must add "-f value" to format
returning only the value of the payload

--payload_content_type PAYLOAD_CONTENT_TYPE, -t PAYLOAD_CONTENT_TYPE

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

2.288. OPENSTACK SECRET LIST

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

List secrets.

Optional arguments

-h, --help

show this help message and exit

--limit LIMIT, -l LIMIT

specify the limit to the number of items to list per
page (default: 10; maximum: 100)

--offset OFFSET, -o OFFSET

specify the page offset (default: 0)

--name NAME, -n NAME

specify the secret name (default: None)

--algorithm ALGORITHM, -a ALGORITHM

the algorithm filter for the list(default: None).

--bit-length BIT_LENGTH, -b BIT_LENGTH

the bit length filter for the list (default: 0).

--mode MODE, -m MODE

the algorithm mode filter for the list (default: None).

2.289. OPENSTACK SECRET ORDER CREATE

```
usage: openstack secret order create [-h] [-f
{json,shell,table,value,yaml}]
                                      [-c COLUMN] [--max-width
<integer>]
                                      [--noindent] [--prefix PREFIX]
                                      [--name NAME] [--algorithm
ALGORITHM]
                                      [--bit-length BIT_LENGTH] [--
mode MODE]
                                      [--payload-content-type
PAYLOAD_CONTENT_TYPE]
                                      [--expiration EXPIRATION]
                                      [--request-type REQUEST_TYPE]
                                      [--subject-dn SUBJECT_DN]
                                      [--source-container-ref
SOURCE_CONTAINER_REF]
                                      [--ca-id CA_ID] [--profile
PROFILE]
                                      [--request-file REQUEST_FILE]
                                      type
```

Create a new order.

Positional arguments

type

the type of the order to create.

Optional arguments

-h, --help

show this help message and exit

--name NAME, -n NAME

a human-friendly name.

--algorithm ALGORITHM, -a ALGORITHM

the algorithm to be used with the requested key
(default: aes).

--bit-length BIT_LENGTH, -b BIT_LENGTH

the bit length of the requested secret key (default:
256).

--mode MODE, -m MODE

the algorithm mode to be used with the requested key
(default: cbc).

--payload-content-type PAYLOAD_CONTENT_TYPE, -t PAYLOAD_CONTENT_TYPE

the type/format of the secret to be generated
(default: application/octet-stream).

--expiration EXPIRATION, -x EXPIRATION

the expiration time for the secret in ISO 8601 format.

--request-type REQUEST_TYPE

the type of the certificate request.

--subject-dn SUBJECT_DN

the subject of the certificate.

--source-container-ref SOURCE_CONTAINER_REF

the source of the certificate when using stored-key
requests.

--ca-id CA_ID

the identifier of the CA to use for the certificate
request.

--profile PROFILE

the profile of certificate to use.

--request-file REQUEST_FILE

the file containing the CSR.

2.290. OPENSTACK SECRET ORDER DELETE

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

Delete an order by providing its href.

Positional arguments

URI

The URI reference for the order

Optional arguments

-h, --help

show this help message and exit

2.291. OPENSTACK SECRET ORDER GET

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

Retrieve an order by providing its URI.

Positional arguments

URI

The URI reference order.

Optional arguments

-h, --help

show this help message and exit

2.292. OPENSTACK SECRET ORDER LIST

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

List orders.

Optional arguments

-h, --help

show this help message and exit

--limit LIMIT, -l LIMIT

specify the limit to the number of items to list per
page (default: 10; maximum: 100)

--offset OFFSET, -o OFFSET

specify the page offset (default: 0)

2.293. OPENSTACK SECRET STORE

```
usage: openstack secret store [-h] [-f {json,shell,table,value,yaml}]
                              [-c COLUMN] [--max-width <integer>] [--
noindent]
                              [--prefix PREFIX] [--name NAME]
                              [--payload PAYLOAD] [--secret-type
SECRET_TYPE]
                              [--payload-content-type
PAYLOAD_CONTENT_TYPE]
                              [--payload-content-encoding
PAYLOAD_CONTENT_ENCODING]
                              [--algorithm ALGORITHM]
                              [--bit-length BIT_LENGTH] [--mode MODE]
                              [--expiration EXPIRATION]
```

Store a secret in Barbican.

Optional arguments

-h, --help

show this help message and exit

--name NAME, -n NAME

a human-friendly name.

--payload PAYLOAD, -p PAYLOAD

the unencrypted secret; if provided, you must also
provide a payload_content_type

--secret-type SECRET_TYPE, -s SECRET_TYPE

the secret type; must be one of symmetric, public,
private, certificate, passphrase, opaque (default)

--payload-content-type PAYLOAD_CONTENT_TYPE, -t PAYLOAD_CONTENT_TYPE

the type/format of the provided secret data;
"text/plain" is assumed to be UTF-8; required when
--payload is supplied.

**--payload-content-encoding PAYLOAD_CONTENT_ENCODING, -e
PAYLOAD_CONTENT_ENCODING**

required if --payload-content-type is "application
/octet-stream".

--algorithm ALGORITHM, -a ALGORITHM

the algorithm (default: aes).

--bit-length BIT_LENGTH, -b BIT_LENGTH

the bit length (default: 256).

--mode MODE, -m MODE

the algorithm mode; used only for reference (default:
cbc)

--expiration EXPIRATION, -x EXPIRATION

the expiration time for the secret in ISO 8601 format.

2.294. OPENSTACK SECRET UPDATE

```
usage: openstack secret update [-h] URI payload
```

Update a secret with no payload in Barbican.

Positional arguments

URI

The URI reference for the secret.

payload

the unencrypted secret

Optional arguments

-h, --help

show this help message and exit

2.295. OPENSTACK SECURITY GROUP CREATE

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

Create a new security group

Positional arguments

<name>

New security group name

Optional arguments

-h, --help

show this help message and exit

--description <description>

Security group description

--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.

2.296. OPENSTACK SECURITY GROUP DELETE

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

Delete security group(s)

Positional arguments

<group>

Security group(s) to delete (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.297. OPENSTACK SECURITY GROUP LIST

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

List security groups

Optional arguments

-h, --help

show this help message and exit

2.298. OPENSTACK SECURITY GROUP RULE CREATE

```
usage: openstack security group rule create [-h]
                                             [-f
{json,shell,table,value,yaml}]
                                             [-c COLUMN]
                                             [--max-width <integer>]
                                             [--noindent] [--prefix
```

```
    PREFIX]
                                          [--src-ip <ip-address> |
    --src-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>]
                                          <group>
```

Create a new security group rule

Positional arguments

<group>

Create rule in this security group (name or ID)

Optional arguments

-h, --help

show this help message and exit

--src-ip <ip-address>

Source IP address block (may use CIDR notation;
default for IPv4 rule: 0.0.0.0/0)

--src-group <group>

Source security group (name or ID)

--dst-port <port-range>

Destination port, may be a single port or a starting
and ending port range: 137:139. Required for IP
protocols TCP and UDP. Ignored for ICMP IP protocols.

--icmp-type <icmp-type>

ICMP type for ICMP IP protocols

--icmp-code <icmp-code>

ICMP code for ICMP IP protocols

--protocol <protocol>

IP protocol (ah, dccp, egp, esp, gre, icmp, igmp,
ipv6-encap, ipv6-frag, ipv6-icmp, ipv6-nonxt,
ipv6-opts, ipv6-route, ospf, pgm, rsvp, sctp, tcp,
udp, udplite, vrrp and integer representations
[0-255]; default: tcp)

--ingress

Rule applies to incoming network traffic (default)

--egress

Rule applies to outgoing network traffic

--ethertype <ethertype>

Ethertype of network traffic (IPv4, IPv6; default:
based on IP protocol)

--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.

2.299. OPENSTACK SECURITY GROUP RULE DELETE

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

Delete security group rule(s)

Positional arguments

<rule>

Security group rule(s) to delete (ID only)

Optional arguments

-h, --help

show this help message and exit

2.300. OPENSTACK SECURITY GROUP RULE LIST

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

List security group rules

Positional arguments

<group>

List all rules in this security group (name or ID)

Optional arguments

-h, --help

show this help message and exit

--long

List additional fields in output

2.301. OPENSTACK SECURITY GROUP RULE SHOW

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

Display security group rule details

Positional arguments

<rule>

Security group rule to display (ID only)

Optional arguments

-h, --help

show this help message and exit

2.302. OPENSTACK SECURITY GROUP SET

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

Set security group properties

Positional arguments

<group>

Security group to modify (name or ID)

Optional arguments

-h, --help

show this help message and exit

--name <new-name>

New security group name

--description <description>

New security group description

2.303. OPENSTACK SECURITY GROUP SHOW

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

Display security group details

Positional arguments

<group>

Security group to display (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.304. OPENSTACK SERVER ADD FIXED IP

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

Add fixed IP address to server

Positional arguments

<server>

Server (name or ID) to receive the fixed IP address

<network>

Network (name or ID) to allocate the fixed IP address from

Optional arguments

-h, --help

show this help message and exit

2.305. OPENSTACK SERVER ADD FLOATING IP

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

Add floating IP address to server

Positional arguments

<server>

Server (name or ID) to receive the floating IP address

<ip-address>

Floating IP address (IP address only) to assign to server

Optional arguments

-h, --help

show this help message and exit

2.306. OPENSTACK SERVER ADD SECURITY GROUP

```
usage: openstack server add security group [-h] <server> <group>
```

Add security group to server

Positional arguments

<server>

Server (name or ID)

<group>

Security group to add (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.307. OPENSTACK SERVER ADD VOLUME

```
usage: openstack server add volume [-h] [--device <device>] <server>
<volume>
```

Add volume to server

Positional arguments

<server>

Server (name or ID)

<volume>

Volume to add (name or ID)

Optional arguments

-h, --help

show this help message and exit

--device <device>

Server internal device name for volume

2.308. OPENSTACK SERVER BACKUP CREATE

```
usage: openstack server backup create [-h] [-f
{json,shell,table,value,yaml}]
                                      [-c COLUMN] [--max-width
<integer>]
                                      [--noindent] [--prefix PREFIX]
                                      [--name <image-name>]
                                      [--type <backup-type>]
                                      [--rotate <count>] [--wait]
                                      <server>
```

Create a server backup image

Positional arguments

<server>

Server to back up (name or ID)

Optional arguments

-h, --help

show this help message and exit

--name <image-name>

Name of the backup image (default: server name)

--type <backup-type>

Used to populate the backup_type property of the

Used to populate the backup_type property of the
backup image (default: empty)

--rotate <count>

Number of backups to keep (default: 1)

--wait

Wait for backup image create to complete

2.309. OPENSTACK SERVER CREATE

```
usage: openstack server create [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--max-width <integer>]
                               [--noindent] [--prefix PREFIX]
                               (--image <image> | --volume <volume>)
--flavor
                               <flavor>
                               [--security-group <security-group-
name>]
                               [--key-name <key-name>]
                               [--property <key=value>]
                               [--file <dest-filename=source-
filename>]
                               [--user-data <user-data>]
                               [--availability-zone <zone-name>]
                               [--block-device-mapping <dev-
name=mapping>]
                               [--nic <net-id=net-uuid,v4-fixed-
ip=ip-addr,v6-fixed-ip=ip-addr,port-id=port-uuid>]
                               [--hint <key=value>]
                               [--config-drive <config-drive-
volume>|True]
                               [--min <count>] [--max <count>] [--
wait]
                               <server-name>
```

Create a new server

Positional arguments

<server-name>

New server name

Optional arguments

-h, --help

>> show this help message and exit

--image <image>

>> Create server from this image (name or ID)

--volume <volume>

>> Create server from this volume (name or ID)

--flavor <flavor>

>> Create server with this flavor (name or ID)

--security-group <security-group-name>

>> Security group to assign to this server (name or ID)
>> (repeat option to set multiple groups)

--key-name <key-name>

>> Keypair to inject into this server (optional
>> extension)

--property <key=value>

>> Set a property on this server (repeat option to set
>> multiple values)

--file <dest-filename=source-filename>

>> File to inject into image before boot (repeat option
>> to set multiple files)

--user-data <user-data>

>> User data file to serve from the metadata server

`--availability-zone <zone-name>`

Select an availability zone for the server

`--block-device-mapping <dev-name=mapping>`

Map block devices; map is
<id>:<type>:<size(GB)>:<delete_on_terminate> (optional
extension)

`--nic <net-id=net-uuid,v4-fixed-ip=ip-addr,v6-fixed-ip=ip-addr,port-id=port-uuid>`

Create a NIC on the server. Specify option multiple
times to create multiple NICs. Either net-id or port-
id must be provided, but not both. net-id: attach NIC
to network with this UUID, port-id: attach NIC to port
with this UUID, v4-fixed-ip: IPv4 fixed address for
NIC (optional), v6-fixed-ip: IPv6 fixed address for
NIC (optional).

`--hint <key=value>`

Hints for the scheduler (optional extension)

`--config-drive <config-drive-volume>|True`

Use specified volume as the config drive, or 'True' to
use an ephemeral drive

`--min <count>`

Minimum number of servers to launch (default=1)

`--max <count>`

Maximum number of servers to launch (default=1)

`--wait`

Wait for build to complete

2.310. OPENSTACK SERVER DELETE

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

Delete server(s)

Positional arguments

<server>

Server(s) to delete (name or ID)

Optional arguments

-h, --help

show this help message and exit

--wait

Wait for delete to complete

2.311. OPENSTACK SERVER DUMP CREATE

```
usage: openstack server dump create [-h] <server> [<server> ...]
```

Create a dump file in server(s) Trigger crash dump in server(s) with features like kdump in Linux. It will create a dump file in the server(s) dumping the server(s)' memory, and also crash the server(s). OSC sees the dump file (server dump) as a kind of resource.

Positional arguments

<server>

Server(s) to create dump file (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.312. OPENSTACK SERVER GROUP CREATE

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

Create a new server group.

Positional arguments

<name>

New server group name

Optional arguments

-h, --help

show this help message and exit

--policy <policy>

Add a policy to <name> (repeat option to add multiple
policies)

2.313. OPENSTACK SERVER GROUP DELETE

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

Delete existing server group(s).

Positional arguments

<server-group>

server group(s) to delete (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.314. OPENSTACK SERVER GROUP LIST

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

List all server groups.

Optional arguments

-h, --help

show this help message and exit

--all-projects

Display information from all projects (admin only)

--long

List additional fields in output

2.315. OPENSTACK SERVER GROUP SHOW

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

Display server group details.

Positional arguments

`<server-group>`

	server group to display (name or ID)

Optional arguments

`-h, --help`

	show this help message and exit

2.316. OPENSTACK SERVER IMAGE CREATE

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

Create a new server disk image from an existing server

Positional arguments

`<server>`

	Server to create image (name or ID)

Optional arguments

`-h, --help`

	show this help message and exit

`--name <image-name>`

	Name of new disk image (default: server name)

`--wait`

Wait for operation to complete

2.317. OPENSTACK SERVER LIST

```
usage: openstack server list [-h] [-f {csv,json,table,value,yaml}] [-c
COLUMN]
                                  [--max-width <integer>] [--noindent]
                                  [--quote {all,minimal,none,nonnumeric}]
                                  [--reservation-id <reservation-id>]
                                  [--ip <ip-address-regex>]
                                  [--ip6 <ip-address-regex>] [--name
<name-regex>]
                                  [--instance-name <server-name>]
                                  [--status <status>] [--flavor <flavor>]
                                  [--image <image>] [--host <hostname>]
                                  [--all-projects] [--project <project>]
                                  [--project-domain <project-domain>]
                                  [--user <user>] [--user-domain <user-
domain>]
                                  [--long] [--marker <marker>] [--limit
<limit>]
```

List servers

Optional arguments

-h, --help

show this help message and exit

--reservation-id <reservation-id>

Only return instances that match the reservation

--ip <ip-address-regex>

Regular expression to match IP addresses

--ip6 <ip-address-regex>

Regular expression to match IPv6 addresses

--name <name-regex>

Regular expression to match names

--instance-name <server-name>

Regular expression to match instance name (admin only)

--status <status>

Search by server status

--flavor <flavor>

Search by flavor (name or ID)

--image <image>

Search by image (name or ID)

--host <hostname>

Search by hostname

--all-projects

Include all projects (admin only)

--project <project>

Search by project (admin only) (name or ID)

--project-domain <project-domain>

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

--user <user>

Search by user (admin only) (name or ID)

--user-domain <user-domain>

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

--long

List additional fields in output

--marker <marker>

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

--limit <limit>

Maximum number of servers to display. If limit equals
-1, all servers will be displayed. If limit is greater
than 'osapi_max_limit' option of Nova API,
'osapi_max_limit' will be used instead.

2.318. OPENSTACK SERVER LOCK

```
usage: openstack server lock [-h] <server> [<server> ...]
```

Lock server(s). A non-admin user will not be able to execute actions

Positional arguments

<server>

Server(s) to lock (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.319. OPENSTACK SERVER MIGRATE

```
usage: openstack server migrate [-h] [--live <hostname>]
                                [--shared-migration | --block-
```

```
migration]
                                    [--disk-overcommit | --no-disk-
overcommit]
                                    [--wait]
                                    <server>
```

Migrate server to different host

Positional arguments

<server>

Server (name or ID)

Optional arguments

-h, --help

show this help message and exit

--live <hostname>

Target hostname

--shared-migration

Perform a shared live migration (default)

--block-migration

Perform a block live migration

--disk-overcommit

Allow disk over-commit on the destination host

--no-disk-overcommit

Do not over-commit disk on the destination host
(default)

--wait

Wait for resize to complete

2.320. OPENSTACK SERVER PAUSE

```
usage: openstack server pause [-h] <server> [<server> ...]
```

Pause server(s)

Positional arguments

<server>

Server(s) to pause (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.321. OPENSTACK SERVER REBOOT

```
usage: openstack server reboot [-h] [--hard | --soft] [--wait] <server>
```

Perform a hard or soft server reboot

Positional arguments

<server>

Server (name or ID)

Optional arguments

-h, --help

show this help message and exit

--hard

Perform a hard reboot

--soft

Perform a soft reboot

--wait

Wait for reboot to complete

2.322. OPENSTACK SERVER REBUILD

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

Rebuild server

Positional arguments

<server>

Server (name or ID)

Optional arguments

-h, --help

show this help message and exit

--image <image>

Recreate server from the specified image (name or ID).
Defaults to the currently used one.

--password <password>

Set the password on the rebuilt instance

--wait

Wait for rebuild to complete

2.323. OPENSTACK SERVER REMOVE FIXED IP

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

Remove fixed IP address from server

Positional arguments

<server>

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

<ip-address>

Fixed IP address (IP address only) to remove from the server

Optional arguments

-h, --help

show this help message and exit

2.324. OPENSTACK SERVER REMOVE FLOATING IP

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

Remove floating IP address from server

Positional arguments

<server>

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

<ip-address>

Floating IP address (IP address only) to remove from server

Optional arguments

-h, --help

show this help message and exit

2.325. OPENSTACK SERVER REMOVE SECURITY GROUP

```
usage: openstack server remove security group [-h] <server> <group>
```

Remove security group from server

Positional arguments

<server>

Name or ID of server to use

<group>

Name or ID of security group to remove from server

Optional arguments

-h, --help

show this help message and exit

2.326. OPENSTACK SERVER REMOVE VOLUME

```
usage: openstack server remove volume [-h] <server> <volume>
```

Remove volume from server

Positional arguments

<server>

Server (name or ID)

<volume>

Volume to remove (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.327. OPENSTACK SERVER RESCUE

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

Put server in rescue mode

Positional arguments

<server>

Server (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.328. OPENSTACK SERVER RESIZE

```
usage: openstack server resize [-h] [--flavor <flavor> | --confirm | --
revert]
                               [--wait]
                               <server>
```

Scale server to a new flavor

Positional arguments

<server>

Server (name or ID)

Optional arguments

-h, --help

show this help message and exit

--flavor <flavor>

Resize server to specified flavor

--confirm

Confirm server resize is complete

--revert

Restore server state before resize

--wait

Wait for resize to complete

2.329. OPENSTACK SERVER RESTORE

```
usage: openstack server restore [-h] <server> [<server> ...]
```

Restore server(s)

Positional arguments

<server>

Server(s) to restore (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.330. OPENSTACK SERVER RESUME

```
usage: openstack server resume [-h] <server> [<server> ...]
```

Resume server(s)

Positional arguments

<server>

Server(s) to resume (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.331. OPENSTACK SERVER SET

```
usage: openstack server set [-h] [--name <new-name>] [--root-password]
                            [--property <key=value>] [--state
<state>]
                            <server>
```

Set server properties

Positional arguments

<server>

Server (name or ID)

Optional arguments

`-h, --help`

show this help message and exit

`--name <new-name>`

New server name

`--root-password`

Set new root password (interactive only)

`--property <key=value>`

Property to add/change for this server (repeat option
to set multiple properties)

`--state <state>`

New server state (valid value: active, error)

2.332. OPENSTACK SERVER SHELVE

```
usage: openstack server shelve [-h] <server> [<server> ...]
```

Shelve server(s)

Positional arguments

`<server>`

Server(s) to shelve (name or ID)

Optional arguments

`-h, --help`

show this help message and exit

2.333. OPENSTACK SERVER SHOW

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

Show server details

Positional arguments

<server>

Server (name or ID)

Optional arguments

-h, --help

show this help message and exit

--diagnostics

Display server diagnostics information

2.334. OPENSTACK SERVER SSH

```
usage: openstack server ssh [-h] [--login <login-name>] [--port <port>]
                            [--identity <keyfile>] [--option <config-
options>]
                            [-4 | -6]
                            [--public | --private | --address-type
<address-type>]
                            <server>
```

SSH to server

Positional arguments

<server>

Server (name or ID)

Optional arguments

-h, --help

show this help message and exit

--login <login-name>

Login name (ssh -l option)

--port <port>

Destination port (ssh -p option)

--identity <keyfile>

Private key file (ssh -i option)

--option <config-options>

Options in ssh_config(5) format (ssh -o option)

-4

Use only IPv4 addresses

-6

Use only IPv6 addresses

--public

Use public IP address

--private

Use private IP address

--address-type <address-type>

Use other IP address (public, private, etc)

2.335. OPENSTACK SERVER START

```
usage: openstack server start [-h] <server> [<server> ...]
```

Start server(s).

Positional arguments

<server>

Server(s) to start (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.336. OPENSTACK SERVER STOP

```
usage: openstack server stop [-h] <server> [<server> ...]
```

Stop server(s).

Positional arguments

<server>

Server(s) to stop (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.337. OPENSTACK SERVER SUSPEND

```
usage: openstack server suspend [-h] <server> [<server> ...]
```

Suspend server(s)

Positional arguments

<server>

Server(s) to suspend (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.338. OPENSTACK SERVER UNLOCK

```
usage: openstack server unlock [-h] <server> [<server> ...]
```

Unlock server(s)

Positional arguments

<server>

Server(s) to unlock (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.339. OPENSTACK SERVER UNPAUSE

```
usage: openstack server unpause [-h] <server> [<server> ...]
```

Unpause server(s)

Positional arguments

<server>

Server(s) to unpause (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.340. OPENSTACK SERVER UNRESCUE

```
usage: openstack server unrescue [-h] <server>
```

Restore server from rescue mode

Positional arguments

<server>

Server (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.341. OPENSTACK SERVER UNSET

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

Unset server properties

Positional arguments

<server>

Server (name or ID)

Optional arguments

-h, --help

>> show this help message and exit

--property <key>

>> Property key to remove from server (repeat option to
>> remove multiple values)

2.342. OPENSTACK SERVER UNSHELVE

```
usage: openstack server unshelve [-h] <server> [<server> ...]
```

Unshelve server(s)

Positional arguments

<server>

>> Server(s) to unshelve (name or ID)

Optional arguments

-h, --help

>> show this help message and exit

2.343. OPENSTACK SERVICE CREATE

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

Create new service

Positional arguments

`<type>`

New service type (compute, image, identity, volume, etc)

Optional arguments

`-h, --help`

show this help message and exit

`--name <name>`

New service name

`--description <description>`

New service description

2.344. OPENSTACK SERVICE DELETE

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

Delete service(s)

Positional arguments

`<service>`

Service(s) to delete (type, name or ID)

Optional arguments

`-h, --help`

show this help message and exit

2.345. OPENSTACK SERVICE LIST

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

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

List services

Optional arguments

-h, --help

show this help message and exit

--long

List additional fields in output

2.346. OPENSTACK SERVICE SHOW

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

Display service details

Positional arguments

<service>

Service to display (type, name or ID)

Optional arguments

-h, --help

show this help message and exit

--catalog

Show service catalog information

2.347. OPENSTACK SNAPSHOT CREATE

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

Create new snapshot

Positional arguments

<volume>

Volume to snapshot (name or ID)

Optional arguments

-h, --help

show this help message and exit

--name <name>

Name of the snapshot

--description <description>

Description of the snapshot

--force

Create a snapshot attached to an instance. Default is
False

--property <key=value>

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

2.348. OPENSTACK SNAPSHOT DELETE

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

Delete volume snapshot(s)

Positional arguments

<snapshot>

Snapshot(s) to delete (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.349. OPENSTACK SNAPSHOT LIST

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

List snapshots

Optional arguments

-h, --help

show this help message and exit

--all-projects

Include all projects (admin only)

--long

List additional fields in output

--marker <marker>

The last snapshot ID of the previous page

--limit <limit>

Maximum number of snapshots to display

2.350. OPENSTACK SNAPSHOT SET

```
usage: openstack snapshot set [-h] [--name <name>]
                              [--description <description>]
                              [--property <key=value>] [--state
<state>]
                              <snapshot>
```

Set snapshot properties

Positional arguments

<snapshot>

Snapshot to modify (name or ID)

Optional arguments

-h, --help

show this help message and exit

--name <name>

New snapshot name

--description <description>

New snapshot description

--property <key=value>

Property to add/change for this snapshot (repeat
option to set multiple properties)

--state <state>

New snapshot state. Valid values are available, error,
creating, deleting, and error-deleting.

2.351. OPENSTACK SNAPSHOT SHOW

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

Display snapshot details

Positional arguments

<snapshot>

Snapshot to display (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.352. OPENSTACK SNAPSHOT UNSET

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

Unset snapshot properties

Positional arguments

<snapshot>

Snapshot to modify (name or ID)

Optional arguments

-h, --help

>>> show this help message and exit

--property <key>

>>> Property to remove from snapshot (repeat option to remove
>>> multiple properties)

2.353. OPENSTACK SOFTWARE CONFIG CREATE

```
usage: openstack software config create [-h]
                                        [-f
{json,shell,table,value,yaml}]
                                        [-c COLUMN] [--max-width
<integer>]
                                        [--noindent] [--prefix
PREFIX]
                                        [--config-file <config-file>]
                                        [--definition-file
<destination-file>]
                                        [--group <group>]
                                        <config-name>
```

Create software config

Positional arguments

<config-name>

>>> Name of the software config to create

Optional arguments

-h, --help

>>> show this help message and exit

--config-file <config-file>

>>> Path to JSON/YAML containing map defining <inputs>,
>>> <outputs>, and <options>

--definition-file <destination-file>

Path to software config script/data

--group <group>

Group name of tool expected by the software config

2.354. OPENSTACK SOFTWARE CONFIG DELETE

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

Delete software configs

Positional arguments

<config>

IDs of the software configs to delete

Optional arguments

-h, --help

show this help message and exit

2.355. OPENSTACK SOFTWARE CONFIG LIST

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

List software configs

Optional arguments

-h, --help

show this help message and exit

--limit <limit>

Limit the number of configs returned

--marker <id>

Return configs that appear after the given config ID

2.356. OPENSTACK SOFTWARE CONFIG SHOW

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

Show software config details

Positional arguments

<config>

ID of the config

Optional arguments

-h, --help

show this help message and exit

--config-only

Only display the value of the <config> property.

2.357. OPENSTACK SOFTWARE DEPLOYMENT CREATE

```
usage: openstack software deployment create [-h]
                                             [-f
```

```
{json,shell,table,value,yaml}]
                                              [-c COLUMN]
                                              [--max-width <integer>]
                                              [--noindent] [--prefix
PREFIX]
                                              [--input-value
<key=value>]
                                              [--action <action>]
                                              [--config <config>]
                                              [--signal-transport
<signal-transport>]
                                              [--container
<container>]
                                              [--timeout <timeout>] --
server
                                              <server>
                                              <deployment-name>
```

Create a software deployment.

Positional arguments

<deployment-name>

> Name of the derived config associated with this deployment. This is used to apply a sort order to the list of configurations currently deployed to the server.

Optional arguments

-h, --help

> show this help message and exit

--input-value <key=value>

> Input value to set on the deployment. This can be specified multiple times.

--action <action>

> Name of an action for this deployment. This can be a custom action, or one of CREATE, UPDATE, DELETE, SUSPEND, RESUME. Default is UPDATE

--config <config> ID

of the configuration to deploy

--signal-transport <signal-transport>

How the server should signal to heat with the
deployment output values. TEMP_URL_SIGNAL will create
a Swift TempURL to be signaled via HTTP PUT.
ZAQAR_SIGNAL will create a dedicated zaqar queue to be
signaled using the provided keystone
credentials.NO_SIGNAL will result in the resource
going to the COMPLETE state without waiting for any
signal

--container <container>

Optional name of container to store TEMP_URL_SIGNAL
objects in. If not specified a container will be
created with a name derived from the DEPLOY_NAME

--timeout <timeout>

Deployment timeout in minutes

--server <server> ID

of the server being deployed to

2.358. OPENSTACK SOFTWARE DEPLOYMENT DELETE

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

Delete software deployment(s) and correlative config(s).

Positional arguments

<deployment>

ID of the deployment(s) to delete.

Optional arguments

-h, --help

show this help message and exit

2.359. OPENSTACK SOFTWARE DEPLOYMENT LIST

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

List software deployments.

Optional arguments

-h, --help

show this help message and exit

--server <server> ID

of the server to fetch deployments for

--long

List more fields in output

2.360. OPENSTACK SOFTWARE DEPLOYMENT METADATA SHOW

```
usage: openstack software deployment metadata show [-h] <server>
```

Get deployment configuration metadata for the specified server.

Positional arguments

<server>

ID of the server to fetch deployments for

Optional arguments

-h, --help

show this help message and exit

2.361. OPENSTACK SOFTWARE DEPLOYMENT OUTPUT SHOW

```
usage: openstack software deployment output show [-h] [--all] [--long]
                                                 <deployment>
[<output-name>]
```

Show a specific deployment output.

Positional arguments

<deployment>

ID of deployment to show the output for

<output-name>

Name of an output to display

Optional arguments

-h, --help

show this help message and exit

--all

Display all deployment outputs

--long

Show full deployment logs in output

2.362. OPENSTACK SOFTWARE DEPLOYMENT SHOW

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

Show SoftwareDeployment Details.

Positional arguments

<deployment>

ID of the deployment

Optional arguments

-h, --help

show this help message and exit

--long

Show more fields in output

2.363. OPENSTACK STACK ABANDON

```
usage: openstack stack abandon [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--max-width <integer>]
                               [--noindent] [--prefix PREFIX]
                               [--output-file <output-file>]
                               <stack>
```

Abandon stack and output results.

Positional arguments

<stack>

Name or ID of stack to abandon

Optional arguments

-h, --help

show this help message and exit

--output-file <output-file>

File to output abandon results

2.364. OPENSTACK STACK ADOPT

```
usage: openstack stack adopt [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX] [-e <environment>]
                             [--timeout <timeout>] [--enable-
rollback]
                             [--parameter <key=value>] [--wait] --
adopt-file
                             <adopt-file>
                             <stack-name>
```

Adopt a stack.

Positional arguments

<stack-name>

Name of the stack to adopt

Optional arguments

-h, --help

show this help message and exit

-e <environment>, --environment <environment>

Path to the environment. Can be specified multiple
times

--timeout <timeout>

Stack creation timeout in minutes

--enable-rollback

Enable rollback on create/update failure

--parameter <key=value>

Parameter values used to create the stack. Can be
specified multiple times

--wait

Wait until stack adopt completes

--adopt-file <adopt-file>

Path to adopt stack data file

2.365. OPENSTACK STACK CANCEL

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

Cancel current task for a stack. Supported tasks for cancellation: * update

Positional arguments

<stack>

Stack(s) to cancel (name or ID)

Optional arguments

-h, --help

> show this help message and exit

--wait

> Wait for check to complete

2.366. OPENSTACK STACK CHECK

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

Check a stack.

Positional arguments

<stack>

> Stack(s) to check update (name or ID)

Optional arguments

-h, --help

> show this help message and exit

--wait

> Wait for check to complete

2.367. OPENSTACK STACK CREATE

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

```
                                [--timeout <timeout>] [--pre-create
  <resource>]
                                [--enable-rollback] [--parameter
  <key=value>]
                                [--parameter-file <key=file>] [--wait]
                                [--tags <tag1,tag2...>] [--dry-run] -t
                                <template>
                                <stack-name>
```

Create a stack.

Positional arguments

<stack-name>

Name of the stack to create

Optional arguments

-h, --help

show this help message and exit

-e <environment>, --environment <environment>

Path to the environment. Can be specified multiple
times

--timeout <timeout>

Stack creating timeout in minutes

--pre-create <resource>

Name of a resource to set a pre-create hook to.
Resources in nested stacks can be set using slash as a
separator: nested_stack/another/my_resource. You can
use wildcards to match multiple stacks or resources:
nested_stack/an*/*_resource. This can be specified
multiple times

--enable-rollback

Enable rollback on create/update failure

--parameter <key=value>

>
> Parameter values used to create the stack. This can be
> specified multiple times

--parameter-file <key=file>

>
> Parameter values from file used to create the stack.
> This can be specified multiple times. Parameter values
> would be the content of the file

--wait

>
> Wait until stack goes to CREATE_COMPLETE or
> CREATE_FAILED

--tags <tag1,tag2...>

>
> A list of tags to associate with the stack

--dry-run

>
> Do not actually perform the stack create, but show
> what would be created

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

>
> Path to the template

2.368. OPENSTACK STACK DELETE

```
usage: openstack stack delete [-h] [--yes] [--wait] <stack> [<stack>
...]
```

Delete stack(s).

Positional arguments

<stack>

Stack(s) to delete (name or ID)

Optional arguments

-h, --help

show this help message and exit

--yes

Skip yes/no prompt (assume yes)

--wait

Wait for stack delete to complete

2.369. OPENSTACK STACK ENVIRONMENT SHOW

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

Show a stack's environment.

Positional arguments

<NAME or ID>

Name or ID of stack to query

Optional arguments

-h, --help

show this help message and exit

2.370. OPENSTACK STACK EVENT LIST

```
usage: openstack stack event list [-h] [-f
{csv,json,log,table,value,yaml}]
                                  [-c COLUMN] [--noindent]
                                  [--max-width <integer>]
                                  [--quote
{all,minimal,none,nonnumeric}]
                                  [--resource <resource>]
                                  [--filter <key=value>] [--limit
<limit>]
                                  [--marker <id>] [--nested-depth
<depth>]
                                  [--sort <key>[:<direction>]] [--
follow]
                                  <stack>
```

List events.

Positional arguments

<stack>

Name or ID of stack to show events for

Optional arguments

-h, --help

show this help message and exit

--resource <resource>

Name of resource to show events for. Note: this cannot
be specified with --nested-depth

--filter <key=value>

Filter parameters to apply on returned events

--limit <limit>

Limit the number of events returned

--marker <id>

Only return events that appear after the given ID

`--nested-depth <depth>`

Depth of nested stacks from which to display events.
Note: this cannot be specified with --resource

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

Sort output by selected keys and directions (asc or
desc) (default: asc). Specify multiple times to sort
on multiple keys

`--follow`

Print events until process is halted

2.371. OPENSTACK STACK EVENT SHOW

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

Show event details.

Positional arguments

`<stack>`

Name or ID of stack to show events for

`<resource>`

Name of the resource event belongs to

`<event>`

ID of event to display details for

Optional arguments

-h, --help

show this help message and exit

2.372. OPENSTACK STACK FAILURES LIST

```
usage: openstack stack failures list [-h] [--long] <stack>
```

Show information about failed stack resources.

Positional arguments

<stack>

Stack to display (name or ID)

Optional arguments

-h, --help

show this help message and exit

--long

Show full deployment logs in output

2.373. OPENSTACK STACK FILE LIST

```
usage: openstack stack file list [-h] [-f
{json,shell,table,value,yaml}]
                                 [-c COLUMN] [--max-width <integer>]
                                 [--noindent] [--prefix PREFIX]
                                 <NAME or ID>
```

Show a stack's files map.

Positional arguments

<NAME or ID>

Name or ID of stack to query

Optional arguments

-h, --help

show this help message and exit

2.374. OPENSTACK STACK HOOK CLEAR

```
usage: openstack stack hook clear [-h] [--pre-create] [--pre-update]
                                  [--pre-delete]
                                  <stack> <resource> [<resource> ...]
```

Clear resource hooks on a given stack.

Positional arguments

<stack>

Stack to display (name or ID)

<resource>

Resource names with hooks to clear. Resources in nested stacks
can be set using slash as a separator:
nested_stack/another/my_resource. You can use wildcards to
match multiple stacks or resources:
nested_stack/an*/*_resource

Optional arguments

-h, --help

show this help message and exit

--pre-create

Clear the pre-create hooks

--pre-update

Clear the pre-update hooks

--pre-delete

Clear the pre-delete hooks

2.375. OPENSTACK STACK HOOK POLL

```
usage: openstack stack hook poll [-h] [-f {csv,json,table,value,yaml}]
                                 [-c COLUMN] [--max-width <integer>]
                                 [--noindent]
                                 [--quote
{all,minimal,none,nonnumeric}]
                                 [--nested-depth <nested-depth>]
                                 <stack>
```

List resources with pending hook for a stack.

Positional arguments

<stack>

Stack to display (name or ID)

Optional arguments

-h, --help

show this help message and exit

--nested-depth <nested-depth>

Depth of nested stacks from which to display hooks

2.376. OPENSTACK STACK LIST

```
usage: openstack stack list [-h] [-f {csv,json,table,value,yaml}] [-c
COLUMN]
                            [--max-width <integer>] [--noindent]
                            [--quote {all,minimal,none,nonnumeric}]
                            [--deleted] [--nested] [--hidden]
                            [--property <key=value>] [--tags
<tag1,tag2...>]
```

```
                              [--tag-mode <mode>] [--limit <limit>]
                              [--marker <id>] [--sort <key>[:
<direction>]]
                              [--all-projects] [--short] [--long]
```

List stacks.

Optional arguments

-h, --help

> show this help message and exit

--deleted

> Include soft-deleted stacks in the stack listing

--nested

> Include nested stacks in the stack listing

--hidden

> Include hidden stacks in the stack listing

--property <key=value>

> Filter properties to apply on returned stacks (repeat
> to filter on multiple properties)

--tags <tag1,tag2...>

> List of tags to filter by. Can be combined with --tag-
> mode to specify how to filter tags

--tag-mode <mode>

> Method of filtering tags. Must be one of "any", "not",
> or "not-any". If not specified, multiple tags will be
> combined with the boolean AND expression

--limit <limit>

The number of stacks returned

--marker <id>

Only return stacks that appear after the given ID

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

Sort output by selected keys and directions (asc or desc) (default: asc). Specify multiple times to sort on multiple properties

--all-projects

Include all projects (admin only)

--short

List fewer fields in output

--long

List additional fields in output, this is implied by --all-projects

2.377. OPENSTACK STACK OUTPUT LIST

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

List stack outputs.

Positional arguments

<stack>

Name or ID of stack to query

Optional arguments

-h, --help

show this help message and exit

2.378. OPENSTACK STACK OUTPUT SHOW

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

Show stack output.

Positional arguments

<stack>

Name or ID of stack to query

<output>

Name of an output to display

Optional arguments

-h, --help

show this help message and exit

--all

Display all stack outputs

2.379. OPENSTACK STACK RESOURCE LIST

```
usage: openstack stack resource list [-h] [-f
{csv,dot,json,table,value,yaml}]
                                     [-c COLUMN] [--noindent]
                                     [--max-width <integer>]
                                     [--quote
{all,minimal,none,nonnumeric}]
                                     [--long] [-n <nested-depth>]
                                     [--filter <key=value>]
                                     <stack>
```

List stack resources.

Positional arguments

<stack>

Name or ID of stack to query

Optional arguments

-h, --help

show this help message and exit

--long

Enable detailed information presented for each
resource in resource list

-n <nested-depth>, --nested-depth <nested-depth>

Depth of nested stacks from which to display resources

--filter <key=value>

Filter parameters to apply on returned resources based
on their name, status, type, action, id and
physical_resource_id

2.380. OPENSTACK STACK RESOURCE MARK UNHEALTHY

```
usage: openstack stack resource mark unhealthy [-h] [--reset]
                                               <stack> <resource>
[reason]
```

▪

Set resource's health.

Positional arguments

`<stack>`

Name or ID of stack the resource belongs to

`<resource>`

Name of the resource

`reason`

Reason for state change

Optional arguments

`-h, --help`

show this help message and exit

`--reset`

Set the resource as healthy

2.381. OPENSTACK STACK RESOURCE METADATA

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

Show resource metadata

Positional arguments

`<stack>`

Stack to display (name or ID)

`<resource>`

Name of the resource to show the metadata for

Optional arguments

`-h, --help`

show this help message and exit

2.382. OPENSTACK STACK RESOURCE SHOW

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

Display stack resource.

Positional arguments

`<stack>`

Name or ID of stack to query

`<resource>`

Name or ID of resource

Optional arguments

`-h, --help`

show this help message and exit

--with-attr <attribute>

Attribute to show, can be specified multiple times

2.383. OPENSTACK STACK RESOURCE SIGNAL

```
usage: openstack stack resource signal [-h] [--data <data>]
                                       [--data-file <data-file>]
                                       <stack> <resource>
```

Signal a resource with optional data.

Positional arguments

<stack>

Name or ID of stack the resource belongs to

<resource>

Name of the resoure to signal

Optional arguments

-h, --help

show this help message and exit

--data <data> JSON

Data to send to the signal handler

--data-file <data-file>

File containing JSON data to send to the signal
handler

2.384. OPENSTACK STACK RESUME

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

```
noindent]
                                  [--quote {all,minimal,none,nonnumeric}]
  [--wait]
                                  <stack> [<stack> ...]
```

Resume a stack.

Positional arguments

<stack>

Stack(s) to resume (name or ID)

Optional arguments

-h, --help

show this help message and exit

--wait

Wait for resume to complete

2.385. OPENSTACK STACK SHOW

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

Show stack details.

Positional arguments

<stack>

Stack to display (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.386. OPENSTACK STACK SNAPSHOT CREATE

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

Create stack snapshot.

Positional arguments

<stack>

Name or ID of stack

Optional arguments

-h, --help

show this help message and exit

--name <name>

Name of snapshot

2.387. OPENSTACK STACK SNAPSHOT DELETE

```
usage: openstack stack snapshot delete [-h] <stack> <snapshot>
```

Delete stack snapshot.

Positional arguments

<stack>

Name or ID of stack

<snapshot>

ID of stack snapshot

Optional arguments

-h, --help

show this help message and exit

2.388. OPENSTACK STACK SNAPSHOT LIST

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

List stack snapshots.

Positional arguments

<stack>

Name or ID of stack containing the snapshots

Optional arguments

-h, --help

show this help message and exit

2.389. OPENSTACK STACK SNAPSHOT RESTORE

```
usage: openstack stack snapshot restore [-h] <stack> <snapshot>
```

Restore stack snapshot

Positional arguments

<stack>

Name or ID of stack containing the snapshot

<snapshot>

ID of the snapshot to restore

Optional arguments

-h, --help

show this help message and exit

2.390. OPENSTACK STACK SNAPSHOT SHOW

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

Show stack snapshot.

Positional arguments

<stack>

Name or ID of stack containing the snapshot

<snapshot>

ID of the snapshot to show

Optional arguments

-h, --help

show this help message and exit

2.391. OPENSTACK STACK SUSPEND

2.391. OPENSTACK STACK SUSPEND

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

Suspend a stack.

Positional arguments

<stack>

Stack(s) to suspend (name or ID)

Optional arguments

-h, --help

show this help message and exit

--wait

Wait for suspend to complete

2.392. OPENSTACK STACK TEMPLATE SHOW

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

Display stack template.

Positional arguments

<stack>

Name or ID of stack to query

Optional arguments

-h, --help

>>> show this help message and exit

2.393. OPENSTACK STACK UPDATE

```
usage: openstack stack update [-h] [-f {json,shell,table,value,yaml}]
                              [-c COLUMN] [--max-width <integer>] [--
noindent]
                              [--prefix PREFIX] [-t <template>]
                              [-e <environment>] [--pre-update
<resource>]
                              [--timeout <timeout>] [--rollback
<value>]
                              [--dry-run] [--parameter <key=value>]
                              [--parameter-file <key=file>] [--
existing]
                              [--clear-parameter <parameter>]
                              [--tags <tag1,tag2...>] [--wait]
                              <stack>
```

Update a stack.

Positional arguments

<stack>

>>> Name or ID of stack to update

Optional arguments

-h, --help

>>> show this help message and exit

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

>>> Path to the template

-e <environment>, --environment <environment>

Path to the environment. Can be specified multiple times

`--pre-update <resource>`

Name of a resource to set a pre-update hook to. Resources in nested stacks can be set using slash as a separator: nested_stack/another/my_resource. You can use wildcards to match multiple stacks or resources: nested_stack/an*/*_resource. This can be specified multiple times

`--timeout <timeout>`

Stack update timeout in minutes

`--rollback <value>`

Set rollback on update failure. Value "enabled" sets rollback to enabled. Value "disabled" sets rollback to disabled. Value "keep" uses the value of existing stack to be updated (default)

`--dry-run`

Do not actually perform the stack update, but show what would be changed

`--parameter <key=value>`

Parameter values used to create the stack. This can be specified multiple times

`--parameter-file <key=file>`

Parameter values from file used to create the stack. This can be specified multiple times. Parameter value would be the content of the file

`--existing`

Re-use the template, parameters and environment of the current stack. If the template argument is omitted

then the existing template is used. If no
--environment is specified then the existing
environment is used. Parameters specified in
--parameter will patch over the existing values in the
current stack. Parameters omitted will keep the
existing values

`--clear-parameter <parameter>`

Remove the parameters from the set of parameters of
current stack for the stack-update. The default value
in the template will be used. This can be specified
multiple times

`--tags <tag1,tag2...>`

An updated list of tags to associate with the stack

`--wait`

Wait until stack goes to UPDATE_COMPLETE or
UPDATE_FAILED

2.394. OPENSTACK SUBNET CREATE

```
usage: openstack subnet create [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--max-width <integer>]
                               [--noindent] [--prefix PREFIX]
                               [--project <project>]
                               [--project-domain <project-domain>]
                               [--subnet-pool <subnet-pool> | --use-
default-subnet-pool]
                               [--prefix-length <prefix-length>]
                               [--subnet-range <subnet-range>]
                               [--dhcp | --no-dhcp] [--gateway
<gateway>]
                               [--ip-version {4,6}]
                               [--ipv6-ra-mode {dhcpv6-
stateful,dhcpv6-stateless,slaac}]
                               [--ipv6-address-mode {dhcpv6-
stateful,dhcpv6-stateless,slaac}]
                               --network <network>
                               [--allocation-pool start=<ip-
address>,end=<ip-address>]
                               [--dns-nameserver <dns-nameserver>]
                               [--host-route destination=
<subnet>,gateway=<ip-address>]
                               name
```

Create a subnet

Positional arguments

name

New subnet name

Optional arguments

-h, --help

show this help message and exit

--project <project>

Owner's project (name or ID)

--project-domain <project-domain>

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

--subnet-pool <subnet-pool>

Subnet pool from which this subnet will obtain a CIDR
(Name or ID)

--use-default-subnet-pool

Use default subnet pool for --ip-version

--prefix-length <prefix-length>

Prefix length for subnet allocation from subnet pool

--subnet-range <subnet-range>

Subnet range in CIDR notation (required if --subnet-
pool is not specified, optional otherwise)

`--dhcp`

>> Enable DHCP (default)

`--no-dhcp`

>> Disable DHCP

`--gateway <gateway>`

>> Specify a gateway for the subnet. The three options
are: <ip-address>: Specific IP address to use as the
gateway, 'auto': Gateway address should automatically
be chosen from within the subnet itself, 'none': This
subnet will not use a gateway, e.g.: --gateway
192.168.9.1, --gateway auto, --gateway none (default
is 'auto').

`--ip-version {4,6} IP`

>> version (default is 4). Note that when subnet pool
is specified, IP version is determined from the subnet
pool and this option is ignored.

`--ipv6-ra-mode {dhcpv6-stateful,dhcpv6-stateless,slaac}`

>> IPv6 RA (Router Advertisement) mode, valid modes:
[dhcpv6-stateful, dhcpv6-stateless, slaac]

`--ipv6-address-mode {dhcpv6-stateful,dhcpv6-stateless,slaac}`

>> IPv6 address mode, valid modes: [dhcpv6-stateful,
dhcpv6-stateless, slaac]

`--network <network>`

>> Network this subnet belongs to (name or ID)

`--allocation-pool`

>> start=<ip-address>,end=<ip-address>
Allocation pool IP addresses for this subnet e.g.:

start=192.168.199.2,end=192.168.199.254 (repeat option
to add multiple IP addresses)

--dns-nameserver <dns-nameserver>

DNS server for this subnet (repeat option to set
multiple DNS servers)

--host-route

destination=<subnet>,gateway=<ip-address>
Additional route for this subnet e.g.:
destination=10.10.0.0/16,gateway=192.168.71.254
destination: destination subnet (in CIDR notation)
gateway: nexthop IP address (repeat option to add
multiple routes)

2.395. OPENSTACK SUBNET DELETE

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

Delete subnet(s)

Positional arguments

<subnet>

Subnet(s) to delete (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.396. OPENSTACK SUBNET LIST

```
usage: openstack subnet list [-h] [-f {csv,json,table,value,yaml}] [-c
COLUMN]
                             [--max-width <integer>] [--noindent]
                             [--quote {all,minimal,none,nonnumeric}]
[--long]
                             [--ip-version <ip-version>] [--dhcp | --
no-dhcp]
```

List subnets

Optional arguments

-h, --help

show this help message and exit

--long

List additional fields in output

--ip-version <ip-version>

List only subnets of given IP version in
output.Allowed values for IP version are 4 and 6.

--dhcp

List subnets which have DHCP enabled

--no-dhcp

List subnets which have DHCP disabled

2.397. OPENSTACK SUBNET POOL CREATE

```
usage: openstack subnet pool create [-h] [-f
{json,shell,table,value,yaml}]
                                    [-c COLUMN] [--max-width
<integer>]
                                    [--noindent] [--prefix PREFIX]
                                    --pool-prefix <pool-prefix>
                                    [--default-prefix-length
<default-prefix-length>]
                                    [--min-prefix-length <min-prefix-
length>]
                                    [--max-prefix-length <max-prefix-
length>]
                                    [--project <project>]
                                    [--project-domain <project-
domain>]
```

```
[--address-scope <address-scope>]
[--default | --no-default]
[--share | --no-share]
<name>
```

Create subnet pool

Positional arguments

<name>

Name of the new subnet pool

Optional arguments

-h, --help

show this help message and exit

--pool-prefix <pool-prefix>

Set subnet pool prefixes (in CIDR notation) (repeat
option to set multiple prefixes)

--default-prefix-length <default-prefix-length>

Set subnet pool default prefix length

--min-prefix-length <min-prefix-length>

Set subnet pool minimum prefix length

--max-prefix-length <max-prefix-length>

Set subnet pool maximum prefix length

--project <project>

Owner's project (name or ID)

--project-domain <project-domain>

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

--address-scope <address-scope>

Set address scope associated with the subnet pool
(name or ID), prefixes must be unique across address
scopes

--default

Set this as a default subnet pool

--no-default

Set this as a non-default subnet pool

--share

Set this subnet pool as shared

--no-share

Set this subnet pool as not shared

2.398. OPENSTACK SUBNET POOL DELETE

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

Delete subnet pool(s)

Positional arguments

<subnet-pool>

Subnet pool(s) to delete (name or ID)

Optional arguments

```
-h, --help
```

show this help message and exit

2.399. OPENSTACK SUBNET POOL LIST

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

List subnet pools

Optional arguments

```
-h, --help
```

show this help message and exit

```
--long
```

List additional fields in output

2.400. OPENSTACK SUBNET POOL SET

```
usage: openstack subnet pool set [-h] [--name <name>]
                                 [--pool-prefix <pool-prefix>]
                                 [--default-prefix-length <default-
prefix-length>]
                                 [--min-prefix-length <min-prefix-
length>]
                                 [--max-prefix-length <max-prefix-
length>]
                                 [--address-scope <address-scope> | -
-no-address-scope]
                                 [--default | --no-default]
                                 <subnet-pool>
```

Set subnet pool properties

Positional arguments

```
<subnet-pool>
```

Subnet pool to modify (name or ID)

Optional arguments

-h, --help

show this help message and exit

--name <name>

Set subnet pool name

--pool-prefix <pool-prefix>

Set subnet pool prefixes (in CIDR notation) (repeat option to set multiple prefixes)

--default-prefix-length <default-prefix-length>

Set subnet pool default prefix length

--min-prefix-length <min-prefix-length>

Set subnet pool minimum prefix length

--max-prefix-length <max-prefix-length>

Set subnet pool maximum prefix length

--address-scope <address-scope>

Set address scope associated with the subnet pool (name or ID), prefixes must be unique across address scopes

--no-address-scope

Remove address scope associated with the subnet pool

--default

Set this as a default subnet pool

--no-default

Set this as a non-default subnet pool

2.401. OPENSTACK SUBNET POOL SHOW

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

Display subnet pool details

Positional arguments

<subnet-pool>

Subnet pool to display (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.402. OPENSTACK SUBNET POOL UNSET

```
usage: openstack subnet pool unset [-h] [--pool-prefix <pool-prefix>]
                                    <subnet-pool>
```

Unset subnet pool properties

Positional arguments

<subnet-pool>

Subnet pool to modify (name or ID)

Optional arguments

-h, --help

show this help message and exit

--pool-prefix <pool-prefix>

Remove subnet pool prefixes (in CIDR notation).
(repeat option to unset multiple prefixes).

2.403. OPENSTACK SUBNET SET

```
usage: openstack subnet set [-h] [--name <name>] [--dhcp | --no-dhcp]
                            [--gateway <gateway>]
                            [--allocation-pool start=<ip-
address>,end=<ip-address>]
                            [--dns-nameserver <dns-nameserver>]
                            [--host-route destination=
<subnet>,gateway=<ip-address>]
                            <subnet>
```

Set subnet properties

Positional arguments

<subnet>

Subnet to modify (name or ID)

Optional arguments

-h, --help

show this help message and exit

--name <name>

Updated name of the subnet

--dhcp

Enable DHCP

--no-dhcp

Disable DHCP

--gateway <gateway>

Specify a gateway for the subnet. The options are:
<ip-address>: Specific IP address to use as the
gateway, 'none': This subnet will not use a gateway,
e.g.: --gateway 192.168.9.1, --gateway none.

--allocation-pool

start=<ip-address>,end=<ip-address>
Allocation pool IP addresses for this subnet e.g.:
start=192.168.199.2,end=192.168.199.254 (repeat option
to add multiple IP addresses)

--dns-nameserver <dns-nameserver>

DNS server for this subnet (repeat option to set
multiple DNS servers)

--host-route

destination=<subnet>,gateway=<ip-address>
Additional route for this subnet e.g.:
destination=10.10.0.0/16,gateway=192.168.71.254
destination: destination subnet (in CIDR notation)
gateway: nexthop IP address (repeat option to add
multiple routes)

2.404. OPENSTACK SUBNET SHOW

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

Display subnet details

Positional arguments

<subnet>

Subnet to display (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.405. OPENSTACK SUBNET UNSET

```
usage: openstack subnet unset [-h]
                              [--allocation-pool start=<ip-
address>,end=<ip-address>]
                              [--dns-nameserver <dns-nameserver>]
                              [--host-route destination=
<subnet>,gateway=<ip-address>]
                              <subnet>
```

Unset subnet properties

Positional arguments

<subnet>

Subnet to modify (name or ID)

Optional arguments

-h, --help

show this help message and exit

--allocation-pool

start=<ip-address>,end=<ip-address>
Allocation pool to be removed from this subnet e.g.:
start=192.168.199.2,end=192.168.199.254 (repeat option
to unset multiple Allocation pools)

--dns-nameserver <dns-nameserver>

> DNS server to be removed from this subnet (repeat
> option to set multiple DNS servers)

--host-route

> destination=<subnet>,gateway=<ip-address>
> Route to be removed from this subnet e.g.:
> destination=10.10.0.0/16,gateway=192.168.71.254
> destination: destination subnet (in CIDR notation)
> gateway: nexthop IP address (repeat option to unset
> multiple host routes)

2.406. OPENSTACK TASK EXECUTION LIST

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

List all tasks.

Positional arguments

workflow_execution

> Workflow execution ID associated with list of Tasks.

Optional arguments

-h, --help

> show this help message and exit

2.407. OPENSTACK TASK EXECUTION RERUN

```
usage: openstack task execution rerun [-h] [-f
{json,shell,table,value,yaml}]
                                      [-c COLUMN] [--max-width
<integer>]
```

```
[--noindent] [--prefix PREFIX]
[--resume] [-e ENV]
id
```

Rerun an existing task.

Positional arguments

id

Task identifier

Optional arguments

-h, --help

show this help message and exit

--resume

rerun only failed or unstarted action executions for
with-items task

-e ENV, --env ENV

Environment variables

2.408. OPENSTACK TASK EXECUTION SHOW

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

Show specific task.

Positional arguments

task

Task identifier

Optional arguments

-h, --help

show this help message and exit

2.409. OPENSTACK TLD CREATE

```
usage: openstack tld create [-h] [-f {json,shell,table,value,yaml}]
                            [-c COLUMN] [--max-width <integer>] [--
noindent]
                            [--prefix PREFIX] --name NAME
                            [--description DESCRIPTION] [--all-
projects]
                            [--edit-managed]
                            [--sudo-project-id SUDO_PROJECT_ID]
```

Create new tld

Optional arguments

-h, --help

show this help message and exit

--name NAME TLD

Name

--description DESCRIPTION

Description

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

2.410. OPENSTACK TLD DELETE

```
usage: openstack tld delete [-h] [--all-projects] [--edit-managed]
                            [--sudo-project-id SUDO_PROJECT_ID]
                            id
```

Delete tld

Positional arguments

id

TLD ID

Optional arguments

-h, --help

show this help message and exit

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

2.411. OPENSTACK TLD LIST

usage: openstack tld list [-h] [-f {csv,json,table,value,yaml}] [-c
COLUMN]
```
                                [--max-width <integer>] [--noindent]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--name NAME] [--description DESCRIPTION]
                                [--all-projects] [--edit-managed]
                                [--sudo-project-id SUDO_PROJECT_ID]
```

List tlds

Optional arguments

-h, --help

show this help message and exit

--name NAME TLD NAME

--description DESCRIPTION

TLD Description

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

2.412. OPENSTACK TLD SET

usage: openstack tld set [-h] [-f {json,shell,table,value,yaml}] [-c
COLUMN]
```
                                [--max-width <integer>] [--noindent]
                                [--prefix PREFIX] [--name NAME]
                                [--description DESCRIPTION | --no-
```

```
 description]
                                [--all-projects] [--edit-managed]
                                [--sudo-project-id SUDO_PROJECT_ID]
                                id
```

Set tld properties

Positional arguments

id

> TLD ID

Optional arguments

-h, --help

> show this help message and exit

--name NAME TLD

> Name

--description DESCRIPTION

> Description

--no-description

--all-projects

> Show results from all projects. Default: False

--edit-managed

> Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

> Project ID to impersonate for this command. Default:
> None

2.413. OPENSTACK TLD SHOW

```
usage: openstack tld show [-h] [-f {json,shell,table,value,yaml}] [-c
COLUMN]
                               [--max-width <integer>] [--noindent]
                               [--prefix PREFIX] [--all-projects] [--edit-
managed]
                               [--sudo-project-id SUDO_PROJECT_ID]
                               id
```

Show tld details

Positional arguments

id

TLD ID

Optional arguments

-h, --help

show this help message and exit

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

2.414. OPENSTACK TOKEN ISSUE

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

Issue new token

Optional arguments

-h, --help

show this help message and exit

2.415. OPENSTACK TOKEN REVOKE

```
usage: openstack token revoke [-h] <token>
```

Revoke existing token

Positional arguments

<token>

Token to be deleted

Optional arguments

-h, --help

show this help message and exit

2.416. OPENSTACK USAGE LIST

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

List resource usage per project

Optional arguments

-h, --help

show this help message and exit

--start <start>

Usage range start date, ex 2012-01-20 (default: 4
weeks ago)

--end <end>

Usage range end date, ex 2012-01-20 (default:
tomorrow)

2.417. OPENSTACK USAGE SHOW

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

Show resource usage for a single project

Optional arguments

-h, --help

show this help message and exit

--project <project>

Name or ID of project to show usage for

--start <start>

Usage range start date, ex 2012-01-20 (default: 4
weeks ago)

--end <end>

Usage range end date, ex 2012-01-20 (default:
tomorrow)

2.418. OPENSTACK USER CREATE

```
usage: openstack user create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX] [--project <project>]
                             [--password <password>] [--password-
prompt]
                             [--email <email-address>] [--enable | --
disable]
                             [--or-show]
                             <name>
```

Create new user

Positional arguments

<name>

      New user name

Optional arguments

-h, --help

      show this help message and exit

--project <project>

      Default project (name or ID)

--password <password>

      Set user password

--password-prompt

      Prompt interactively for password

--email <email-address>

      Set user email address

--enable

Enable user (default)

--disable

Disable user

--or-show

Return existing user

2.419. OPENSTACK USER DELETE

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

Delete user(s)

Positional arguments

<user>

User(s) to delete (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.420. OPENSTACK USER LIST

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

List users

Optional arguments

-h, --help

show this help message and exit

--project <project>

Filter users by project (name or ID)

--long

List additional fields in output

2.421. OPENSTACK USER ROLE LIST

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

List user-role assignments

Positional arguments

<user>

User to list (name or ID)

Optional arguments

-h, --help

show this help message and exit

--project <project>

Filter users by <project> (name or ID)

2.422. OPENSTACK USER SET

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

```
  prompt]
                                [--email <email-address>] [--enable | --
  disable]
                                <user>
```

Set user properties

Positional arguments

<user>

User to modify (name or ID)

Optional arguments

-h, --help

show this help message and exit

--name <name>

Set user name

--project <project>

Set default project (name or ID)

--password <user-password>

Set user password

--password-prompt

Prompt interactively for password

--email <email-address>

Set user email address

--enable

Enable user (default)

--disable

Disable user

2.423. OPENSTACK USER SHOW

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

Display user details

Positional arguments

<user>

User to display (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.424. OPENSTACK VOLUME BACKUP CREATE

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

Create new volume backup

Positional arguments

`<volume>`

Volume to backup (name or ID)

Optional arguments

`-h, --help`

show this help message and exit

`--name <name>`

Name of the backup

`--description <description>`

Description of the backup

`--container <container>`

Optional backup container name

`--snapshot <snapshot>`

Snapshot to backup (name or ID)

`--force`

Allow to back up an in-use volume

`--incremental`

Perform an incremental backup

2.425. OPENSTACK VOLUME BACKUP DELETE

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

Delete volume backup(s)

Positional arguments

<backup>

Backup(s) to delete (name or ID)

Optional arguments

-h, --help

show this help message and exit

--force

Allow delete in state other than error or available

2.426. OPENSTACK VOLUME BACKUP LIST

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

List volume backups

Optional arguments

-h, --help

show this help message and exit

--long

List additional fields in output

2.427. OPENSTACK VOLUME BACKUP RESTORE

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

Restore volume backup

Positional arguments

<backup>

Backup to restore (name or ID)

<volume>

Volume to restore to (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.428. OPENSTACK VOLUME BACKUP SHOW

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

Display volume backup details

Positional arguments

<backup>

Backup to display (name or ID)

Optional arguments

-h, --help

　　　　　show this help message and exit

2.429. OPENSTACK VOLUME CREATE

```
usage: openstack volume create [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--max-width <integer>]
                               [--noindent] [--prefix PREFIX] --size
<size>
                               [--type <volume-type>] [--image
<image>]
                               [--snapshot <snapshot>] [--source
<volume>]
                               [--description <description>] [--user
<user>]
                               [--project <project>]
                               [--availability-zone <availability-
zone>]
                               [--property <key=value>]
                               <name>
```

Create new volume

Positional arguments

<name>

　　　　　Volume name

Optional arguments

-h, --help

　　　　　show this help message and exit

--size <size>

　　　　　Volume size in GB

--type <volume-type>

Set the type of volume

--image <image>

Use <image> as source of volume (name or ID)

--snapshot <snapshot>

Use <snapshot> as source of volume (name or ID)

--source <volume>

Volume to clone (name or ID)

--description <description>

Volume description

--user <user>

Specify an alternate user (name or ID)

--project <project>

Specify an alternate project (name or ID)

--availability-zone <availability-zone>

Create volume in <availability-zone>

--property <key=value>

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

2.430. OPENSTACK VOLUME DELETE

```
usage: openstack volume delete [-h] [--force | --purge]
                               <volume> [<volume> ...]
```

Delete volume(s)

Positional arguments

<volume>

Volume(s) to delete (name or ID)

Optional arguments

-h, --help

show this help message and exit

--force

Attempt forced removal of volume(s), regardless of state
(defaults to False)

--purge

Remove any snapshots along with volume(s) (defaults to False)

2.431. OPENSTACK VOLUME LIST

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

List volumes

Optional arguments

-h, --help

show this help message and exit

--project <project>

Filter results by project (name or ID) (admin only)

--project-domain <project-domain>

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

--user <user>

Filter results by user (name or ID) (admin only)

--user-domain <user-domain>

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

--name <name>

Filter results by volume name

--status <status>

Filter results by status

--all-projects

Include all projects (admin only)

--long

List additional fields in output

2.432. OPENSTACK VOLUME QOS ASSOCIATE

```
usage: openstack volume qos associate [-h] <qos-spec> <volume-type>
```

Associate a QoS specification to a volume type

Positional arguments

<qos-spec>

QoS specification to modify (name or ID)

<volume-type>

Volume type to associate the QoS (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.433. OPENSTACK VOLUME QOS CREATE

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

Create new QoS specification

Positional arguments

<name>

New QoS specification name

Optional arguments

-h, --help

show this help message and exit

--consumer <consumer>

Consumer of the QoS. Valid consumers: back-end, both, front-end (defaults to 'both')

--property <key=value>

Set a QoS specification property (repeat option to set multiple properties)

2.434. OPENSTACK VOLUME QOS DELETE

```
usage: openstack volume qos delete [-h] [--force] <qos-spec> [<qos-
spec> ...]
```

Delete QoS specification

Positional arguments

<qos-spec>

QoS specification(s) to delete (name or ID)

Optional arguments

-h, --help

show this help message and exit

--force

Allow to delete in-use QoS specification(s)

2.435. OPENSTACK VOLUME QOS DISASSOCIATE

```
usage: openstack volume qos disassociate [-h]
                                         [--volume-type <volume-type>
| --all]
                                         <qos-spec>
```

Disassociate a QoS specification from a volume type

Positional arguments

`<qos-spec>`

QoS specification to modify (name or ID)

Optional arguments

`-h, --help`

show this help message and exit

`--volume-type <volume-type>`

Volume type to disassociate the QoS from (name or ID)

`--all`

Disassociate the QoS from every volume type

2.436. OPENSTACK VOLUME QOS LIST

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

List QoS specifications

Optional arguments

`-h, --help`

show this help message and exit

2.437. OPENSTACK VOLUME QOS SET

```
usage: openstack volume qos set [-h] [--property <key=value>] <qos-
spec>
```

Set QoS specification properties

Positional arguments

`<qos-spec>`

QoS specification to modify (name or ID)

Optional arguments

`-h, --help`

show this help message and exit

`--property <key=value>`

Property to add or modify for this QoS specification
(repeat option to set multiple properties)

2.438. OPENSTACK VOLUME QOS SHOW

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

Display QoS specification details

Positional arguments

`<qos-spec>`

QoS specification to display (name or ID)

Optional arguments

`-h, --help`

show this help message and exit

2.439. OPENSTACK VOLUME QOS UNSET

```
usage: openstack volume qos unset [-h] [--property <key>] <qos-spec>
```

Unset QoS specification properties

Positional arguments

`<qos-spec>`

QoS specification to modify (name or ID)

Optional arguments

`-h, --help`

show this help message and exit

`--property <key>`

Property to remove from the QoS specification. (repeat
option to unset multiple properties)

2.440. OPENSTACK VOLUME SERVICE LIST

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

List service command

Optional arguments

`-h, --help`

show this help message and exit

`--host <host>`

List services on specified host (name only)

--service <service>

List only specified service (name only)

--long

List additional fields in output

2.441. OPENSTACK VOLUME SET

```
usage: openstack volume set [-h] [--name <name>] [--size <size>]
                            [--description <description>]
                            [--property <key=value>]
                            [--image-property <key=value>] [--state
<state>]
                            <volume>
```

Set volume properties

Positional arguments

<volume>

Volume to modify (name or ID)

Optional arguments

-h, --help

show this help message and exit

--name <name>

New volume name

--size <size>

Extend volume size in GB

--description <description>

New volume description

--property <key=value>

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

--image-property <key=value>

Set an image property on this volume (repeat option to
set multiple image properties)

--state <state>

New volume state ("available", "error", "creating",
"deleting", "in-use", "attaching", "detaching",
"error_deleting" or "maintenance")

2.442. OPENSTACK VOLUME SHOW

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

Display volume details

Positional arguments

<volume-id>

Volume to display (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.443. OPENSTACK VOLUME TRANSFER REQUEST LIST

```
usage: openstack volume transfer request list [-h]
```

```
                                                    [-f

  {csv,json,table,value,yaml}]
                                                    [-c COLUMN]
                                                    [--max-width

  <integer>]
                                                    [--noindent]
                                                    [--quote

  {all,minimal,none,nonnumeric}]
                                                    [--all-projects]
```

Lists all volume transfer requests.

Optional arguments

-h, --help

show this help message and exit

--all-projects

Shows detail for all projects. Admin only. (defaults
to False)

2.444. OPENSTACK VOLUME TYPE CREATE

```
usage: openstack volume type create [-h] [-f
{json,shell,table,value,yaml}]
                                             [-c COLUMN] [--max-width

  <integer>]
                                             [--noindent] [--prefix PREFIX]
                                             [--description <description>]
                                             [--public | --private]
                                             [--property <key=value>]
                                             [--project <project>]
                                             [--project-domain <project-

  domain>]
                                             <name>
```

Create new volume type

Positional arguments

<name>

Volume type name

Optional arguments

-h, --help

show this help message and exit

--description <description>

Volume type description

--public

Volume type is accessible to the public

--private

Volume type is not accessible to the public

--property <key=value>

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

--project <project>

Allow <project> to access private type (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.

2.445. OPENSTACK VOLUME TYPE DELETE

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

Delete volume type(s)

Positional arguments

<volume-type>

Volume type(s) to delete (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.446. OPENSTACK VOLUME TYPE LIST

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

List volume types

Optional arguments

-h, --help

show this help message and exit

--long

List additional fields in output

--public

List only public types

--private

List only private types (admin only)

2.447. OPENSTACK VOLUME TYPE SET

```
usage: openstack volume type set [-h] [--name <name>] [--description
<name>]
                                 [--property <key=value>]
                                 [--project <project>]
                                 [--project-domain <project-domain>]
                                 <volume-type>
```

Set volume type properties

Positional arguments

<volume-type>

Volume type to modify (name or ID)

Optional arguments

-h, --help

show this help message and exit

--name <name>

Set volume type name

--description <name>

Set volume type description

--property <key=value>

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

--project <project>

Set volume type access to project (name or ID) (admin
only)

--project-domain <project-domain>

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

2.448. OPENSTACK VOLUME TYPE SHOW

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

Display volume type details

Positional arguments

<volume-type>

Volume type to display (name or ID)

Optional arguments

-h, --help

show this help message and exit

2.449. OPENSTACK VOLUME TYPE UNSET

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

Unset volume type properties

Positional arguments

<volume-type>

Volume type to modify (name or ID)

Optional arguments

-h, --help

> show this help message and exit

--property <key>

> Remove a property from this volume type (repeat option
> to remove multiple properties)

--project <project>

> Removes volume type access to project (name or ID)
> (admin only)

--project-domain <project-domain>

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

2.450. OPENSTACK VOLUME UNSET

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

Unset volume properties

Positional arguments

<volume>

> Volume to modify (name or ID)

Optional arguments

-h, --help

> show this help message and exit

--property <key>

Remove a property from volume (repeat option to remove multiple properties)

`--image-property <key>`

Remove an image property from volume (repeat option to remove multiple image properties)

2.451. OPENSTACK WORKBOOK CREATE

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

Create new workbook.

Positional arguments

`definition`

Workbook definition file

Optional arguments

`-h, --help`

show this help message and exit

2.452. OPENSTACK WORKBOOK DELETE

```
usage: openstack workbook delete [-h] workbook [workbook ...]
```

Delete workbook.

Positional arguments

`workbook`

Name of workbook(s).

Optional arguments

-h, --help

show this help message and exit

2.453. OPENSTACK WORKBOOK LIST

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

List all workbooks.

Optional arguments

-h, --help

show this help message and exit

2.454. OPENSTACK WORKBOOK SHOW

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

Show specific workbook.

Positional arguments

workbook

Workbook name

Optional arguments

-h, --help

show this help message and exit

2.455. OPENSTACK WORKBOOK UPDATE

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

Update workbook.

Positional arguments

definition

Workbook definition file

Optional arguments

-h, --help

show this help message and exit

2.456. OPENSTACK WORKBOOK VALIDATE

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

Validate workbook.

Positional arguments

definition

Workbook definition file

Optional arguments

-h, --help

show this help message and exit

2.457. OPENSTACK WORKFLOW CREATE

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

Create new workflow.

Positional arguments

definition

Workflow definition file.

Optional arguments

-h, --help

show this help message and exit

--public

With this flag workflow will be marked as "public".

2.458. OPENSTACK WORKFLOW DELETE

```
usage: openstack workflow delete [-h] workflow [workflow ...]
```

Delete workflow.

Positional arguments

workflow

Name or ID of workflow(s).

Optional arguments

-h, --help

show this help message and exit

2.459. OPENSTACK WORKFLOW ENGINE SERVICE LIST

```
usage: openstack workflow engine service list [-h]
                                              [-f
{csv,json,table,value,yaml}]

                                              [-c COLUMN]
                                              [--max-width
<integer>]

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

List all services.

Optional arguments

-h, --help

show this help message and exit

2.460. OPENSTACK WORKFLOW ENV CREATE

```
usage: openstack workflow env create [-h] [-f
{json,shell,table,value,yaml}]
                                              [-c COLUMN] [--max-width
<integer>]

                                              [--noindent] [--prefix PREFIX]
                                              file
```

Create new environment.

Positional arguments

file

Environment configuration file in JSON or YAML

Optional arguments

-h, --help

show this help message and exit

2.461. OPENSTACK WORKFLOW ENV DELETE

```
usage: openstack workflow env delete [-h] environment [environment ...]
```

Delete environment.

Positional arguments

environment

Name of environment(s).

Optional arguments

-h, --help

show this help message and exit

2.462. OPENSTACK WORKFLOW ENV LIST

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

List all environments.

Optional arguments

-h, --help

show this help message and exit

2.463. OPENSTACK WORKFLOW ENV SHOW

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

Show specific environment.

Positional arguments

environment

Environment name

Optional arguments

-h, --help

show this help message and exit

2.464. OPENSTACK WORKFLOW ENV UPDATE

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

Update environment.

Positional arguments

file

Environment configuration file in JSON or YAML

Optional arguments

-h, --help

show this help message and exit

2.465. OPENSTACK WORKFLOW EXECUTION CREATE

```
usage: openstack workflow execution create [-h]
                                           [-f
{json,shell,table,value,yaml}]
                                           [-c COLUMN] [--max-width
<integer>]
                                           [--noindent] [--prefix
PREFIX]
                                           [-d DESCRIPTION]
                                           workflow_identifier
                                           [workflow_input] [params]
```

Create new execution.

Positional arguments

workflow_identifier

Workflow ID or name. Workflow name will be deprecated sinceMitaka.

workflow_input

Workflow input

params

Workflow additional parameters

Optional arguments

-h, --help

show this help message and exit

-d DESCRIPTION, --description DESCRIPTION

Execution description

2.466. OPENSTACK WORKFLOW EXECUTION DELETE

```
usage: openstack workflow execution delete [-h] execution [execution
...]
```

Delete execution.

Positional arguments

execution

Id of execution identifier(s).

Optional arguments

-h, --help

show this help message and exit

2.467. OPENSTACK WORKFLOW EXECUTION LIST

```
usage: openstack workflow execution list [-h] [-f
{csv,json,table,value,yaml}]
                                          [-c COLUMN] [--max-width
<integer>]
                                          [--noindent]
                                          [--quote
{all,minimal,none,nonnumeric}]
                                          [--marker [MARKER]] [--
limit [LIMIT]]
                                          [--sort_keys [SORT_KEYS]]
                                          [--sort_dirs [SORT_DIRS]]
```

List all executions.

Optional arguments

-h, --help

show this help message and exit

--marker [MARKER]

The last execution uuid of the previous page, displays
list of executions after "marker".

--limit [LIMIT]

Maximum number of executions to return in a single
result.

--sort_keys [SORT_KEYS]

Comma-separated list of sort keys to sort results by.
Default: created_at. Example: mistral execution-list
--sort_keys=id,description

--sort_dirs [SORT_DIRS]

Comma-separated list of sort directions. Default: asc.
Example: mistral execution-list
--sort_keys=id,description --sort_dirs=asc,desc

2.468. OPENSTACK WORKFLOW EXECUTION SHOW

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

Show specific execution.

Positional arguments

execution

Execution identifier

Optional arguments

-h, --help

show this help message and exit

2.469. OPENSTACK WORKFLOW EXECUTION UPDATE

```
usage: openstack workflow execution update [-h]
                                           [-f
{json,shell,table,value,yaml}]
                                           [-c COLUMN] [--max-width
<integer>]
                                           [--noindent] [--prefix
PREFIX]
                                           [-s
{RUNNING,PAUSED,SUCCESS,ERROR,CANCELLED}]
                                           [-e ENV] [-d DESCRIPTION]
                                           id
```

Update execution.

Positional arguments

id

Execution identifier

Optional arguments

-h, --help

show this help message and exit

**-s {RUNNING,PAUSED,SUCCESS,ERROR,CANCELLED}, --state
{RUNNING,PAUSED,SUCCESS,ERROR,CANCELLED}**

Execution state

-e ENV, --env ENV

Environment variables

-d DESCRIPTION, --description DESCRIPTION

Execution description

2.470. OPENSTACK WORKFLOW LIST

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

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

List all workflows.

Optional arguments

-h, --help

show this help message and exit

2.471. OPENSTACK WORKFLOW SHOW

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

Show specific workflow.

Positional arguments

workflow

Workflow ID or name.

Optional arguments

-h, --help

show this help message and exit

2.472. OPENSTACK WORKFLOW UPDATE

```
usage: openstack workflow update [-h] [-f {csv,json,table,value,yaml}]
                                 [-c COLUMN] [--max-width <integer>]
                                 [--noindent]
                                 [--quote
{all,minimal,none,nonnumeric}]
                                 [--id ID] [--public]
                                 definition
```

Update workflow.

Positional arguments

definition

>
>
> Workflow definition

Optional arguments

-h, --help

>
>
> show this help message and exit

--id ID

>
>
> Workflow ID.

--public

>
>
> With this flag workflow will be marked as "public".

2.473. OPENSTACK WORKFLOW VALIDATE

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

Validate workflow.

Positional arguments

definition

>
>
> Workflow definition file

Optional arguments

-h, --help

>
>
> show this help message and exit

2.474. OPENSTACK ZONE ABANDON

```
usage: openstack zone abandon [-h] [--all-projects] [--edit-managed]
                              [--sudo-project-id SUDO_PROJECT_ID]
                              id
```

Abandon a zone

Positional arguments

id

Zone ID

Optional arguments

-h, --help

show this help message and exit

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

2.475. OPENSTACK ZONE AXFR

```
usage: openstack zone axfr [-h] [--all-projects] [--edit-managed]
                           [--sudo-project-id SUDO_PROJECT_ID]
                           id
```

AXFR a zone

Positional arguments

id

Zone ID

Optional arguments

-h, --help

show this help message and exit

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

2.476. OPENSTACK ZONE BLACKLIST CREATE

```
usage: openstack zone blacklist create [-h] [-f
{json,shell,table,value,yaml}]
                                          [-c COLUMN] [--max-width
<integer>]
                                          [--noindent] [--prefix
PREFIX]
                                          --pattern PATTERN
                                          [--description DESCRIPTION]
                                          [--all-projects] [--edit-
managed]
                                          [--sudo-project-id
SUDO_PROJECT_ID]
```

Create new blacklist

Optional arguments

-h, --help

show this help message and exit

--pattern PATTERN

Blacklist pattern

--description DESCRIPTION

Description

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

2.477. OPENSTACK ZONE BLACKLIST DELETE

```
usage: openstack zone blacklist delete [-h] [--all-projects] [--edit-
managed]
                                       [--sudo-project-id
SUDO_PROJECT_ID]
                                       id
```

Delete blacklist

Positional arguments

id

Blacklist ID

Optional arguments

-h, --help

        show this help message and exit

--all-projects

        Show results from all projects. Default: False

--edit-managed

        Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

        Project ID to impersonate for this command. Default:
        None

2.478. OPENSTACK ZONE BLACKLIST LIST

```
usage: openstack zone blacklist list [-h] [-f
{csv,json,table,value,yaml}]
                                          [-c COLUMN] [--max-width
<integer>]
                                          [--noindent]
                                          [--quote
{all,minimal,none,nonnumeric}]
                                          [--all-projects] [--edit-
managed]
                                          [--sudo-project-id
SUDO_PROJECT_ID]
```

List blacklists

Optional arguments

-h, --help

        show this help message and exit

--all-projects

        Show results from all projects. Default: False

--edit-managed

>> Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

>> Project ID to impersonate for this command. Default:
>> None

2.479. OPENSTACK ZONE BLACKLIST SET

```
usage: openstack zone blacklist set [-h] [-f
{json,shell,table,value,yaml}]
                                    [-c COLUMN] [--max-width
<integer>]
                                    [--noindent] [--prefix PREFIX]
                                    [--pattern PATTERN]
                                    [--description DESCRIPTION | --
no-description]
                                    [--all-projects] [--edit-managed]
                                    [--sudo-project-id
SUDO_PROJECT_ID]
                                    id
```

Set blacklist properties

Positional arguments

id

>> Blacklist ID

Optional arguments

-h, --help

>> show this help message and exit

--pattern PATTERN

>> Blacklist pattern

--description DESCRIPTION

Description

--no-description

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

2.480. OPENSTACK ZONE BLACKLIST SHOW

```
usage: openstack zone blacklist show [-h] [-f
{json,shell,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--noindent] [--prefix PREFIX]
                                     [--all-projects] [--edit-
managed]
                                     [--sudo-project-id
SUDO_PROJECT_ID]
                                     id
```

Show blacklist details

Positional arguments

id

Blacklist ID

Optional arguments

-h, --help

show this help message and exit

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

2.481. OPENSTACK ZONE CREATE

```
usage: openstack zone create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX] [--email EMAIL] [--
type TYPE]
                             [--ttl TTL] [--description DESCRIPTION]
                             [--masters MASTERS [MASTERS ...]]
                             [--all-projects] [--edit-managed]
                             [--sudo-project-id SUDO_PROJECT_ID]
                             name
```

Create new zone

Positional arguments

name

Zone Name

Optional arguments

-h, --help

show this help message and exit

--email EMAIL

Zone Email

--type TYPE

Zone Type

--ttl TTL

Time To Live (Seconds)

--description DESCRIPTION

Description

--masters MASTERS [MASTERS ...]

Zone Masters

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

2.482. OPENSTACK ZONE DELETE

```
usage: openstack zone delete [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX] [--all-projects]
                             [--edit-managed]
                             [--sudo-project-id SUDO_PROJECT_ID]
                             id
```

Delete zone

Positional arguments

id

Zone ID

Optional arguments

-h, --help

show this help message and exit

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

2.483. OPENSTACK ZONE EXPORT CREATE

```
usage: openstack zone export create [-h] [-f
{json,shell,table,value,yaml}]
                                    [-c COLUMN] [--max-width
<integer>]
                                    [--noindent] [--prefix PREFIX]
                                    [--all-projects] [--edit-managed]
                                    [--sudo-project-id
SUDO_PROJECT_ID]
                                    zone_id
```

Export a Zone

Positional arguments

zone_id

> Zone ID

Optional arguments

-h, --help

> show this help message and exit

--all-projects

> Show results from all projects. Default: False

--edit-managed

> Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

> Project ID to impersonate for this command. Default:
> None

2.484. OPENSTACK ZONE EXPORT DELETE

```
usage: openstack zone export delete [-h] [--all-projects] [--edit-
managed]
                                    [--sudo-project-id
SUDO_PROJECT_ID]
                                    zone_export_id
```

Delete a Zone Export

Positional arguments

zone_export_id

> Zone Export ID

Optional arguments

-h, --help

show this help message and exit

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

2.485. OPENSTACK ZONE EXPORT LIST

```
usage: openstack zone export list [-h] [-f {csv,json,table,value,yaml}]
                                  [-c COLUMN] [--max-width <integer>]
                                  [--noindent]
                                  [--quote
{all,minimal,none,nonnumeric}]
                                  [--all-projects] [--edit-managed]
                                  [--sudo-project-id SUDO_PROJECT_ID]
```

List Zone Exports

Optional arguments

-h, --help

show this help message and exit

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

2.486. OPENSTACK ZONE EXPORT SHOW

```
usage: openstack zone export show [-h] [-f
{json,shell,table,value,yaml}]
                                  [-c COLUMN] [--max-width <integer>]
                                  [--noindent] [--prefix PREFIX]
                                  [--all-projects] [--edit-managed]
                                  [--sudo-project-id SUDO_PROJECT_ID]
                                  zone_export_id
```

Show a Zone Export

Positional arguments

zone_export_id

Zone Export ID

Optional arguments

-h, --help

show this help message and exit

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

2.487. OPENSTACK ZONE EXPORT SHOWFILE

```
usage: openstack zone export showfile [-h] [-f
{json,shell,table,value,yaml}]
                                      [-c COLUMN] [--max-width
<integer>]
                                      [--noindent] [--prefix PREFIX]
                                      [--all-projects] [--edit-
managed]
                                      [--sudo-project-id
SUDO_PROJECT_ID]
                                      zone_export_id
```

Show the zone file for the Zone Export

Positional arguments

zone_export_id

Zone Export ID

Optional arguments

-h, --help

show this help message and exit

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

2.488. OPENSTACK ZONE IMPORT CREATE

```
usage: openstack zone import create [-h] [-f
```

```
{json,shell,table,value,yaml}]
                                        [-c COLUMN] [--max-width
<integer>]
                                        [--noindent] [--prefix PREFIX]
                                        [--all-projects] [--edit-managed]
                                        [--sudo-project-id
SUDO_PROJECT_ID]
                                        zone_file_path
```

Import a Zone from a file on the filesystem

Positional arguments

zone_file_path

Path to a zone file

Optional arguments

-h, --help

show this help message and exit

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

2.489. OPENSTACK ZONE IMPORT DELETE

```
usage: openstack zone import delete [-h] [--all-projects] [--edit-
managed]
                                        [--sudo-project-id
SUDO_PROJECT_ID]
                                        zone_import_id
```

Delete a Zone Import

Positional arguments

`zone_import_id`

> Zone Import ID

Optional arguments

`-h, --help`

> show this help message and exit

`--all-projects`

> Show results from all projects. Default: False

`--edit-managed`

> Edit resources marked as managed. Default: False

`--sudo-project-id SUDO_PROJECT_ID`

> Project ID to impersonate for this command. Default:
> None

2.490. OPENSTACK ZONE IMPORT LIST

```
usage: openstack zone import list [-h] [-f {csv,json,table,value,yaml}]
                                  [-c COLUMN] [--max-width <integer>]
                                  [--noindent]
                                  [--quote
{all,minimal,none,nonnumeric}]
                                  [--all-projects] [--edit-managed]
                                  [--sudo-project-id SUDO_PROJECT_ID]
```

List Zone Imports

Optional arguments

`-h, --help`

show this help message and exit

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

2.491. OPENSTACK ZONE IMPORT SHOW

```
usage: openstack zone import show [-h] [-f
{json,shell,table,value,yaml}]
                                  [-c COLUMN] [--max-width <integer>]
                                  [--noindent] [--prefix PREFIX]
                                  [--all-projects] [--edit-managed]
                                  [--sudo-project-id SUDO_PROJECT_ID]
                                  zone_import_id
```

Show a Zone Import

Positional arguments

zone_import_id

Zone Import ID

Optional arguments

-h, --help

show this help message and exit

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

2.492. OPENSTACK ZONE LIST

```
usage: openstack zone list [-h] [-f {csv,json,table,value,yaml}] [-c
COLUMN]
                                  [--max-width <integer>] [--noindent]
                                  [--quote {all,minimal,none,nonnumeric}]
                                  [--name NAME] [--email EMAIL] [--type
TYPE]
                                  [--ttl TTL] [--description DESCRIPTION]
                                  [--status STATUS] [--all-projects] [--
edit-managed]
                                  [--sudo-project-id SUDO_PROJECT_ID]
```

List zones

Optional arguments

-h, --help

show this help message and exit

--name NAME

Zone Name

--email EMAIL

Zone Email

--type TYPE

Zone Type

--ttl TTL

Time To Live (Seconds)

--description DESCRIPTION

Description

--status STATUS

Zone Status

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

2.493. OPENSTACK ZONE SET

```
usage: openstack zone set [-h] [-f {json,shell,table,value,yaml}] [-c
COLUMN]
                                [--max-width <integer>] [--noindent]
                                [--prefix PREFIX] [--email EMAIL] [--ttl
TTL]
                                [--description DESCRIPTION | --no-
description]
                                [--masters MASTERS [MASTERS ...]] [--all-
projects]
                                [--edit-managed] [--sudo-project-id
SUDO_PROJECT_ID]
                                id
```

Set zone properties

Positional arguments

id

Zone ID

Optional arguments

-h, --help

show this help message and exit

--email EMAIL

Zone Email

--ttl TTL

Time To Live (Seconds)

--description DESCRIPTION

Description

--no-description

--masters MASTERS [MASTERS ...]

Zone Masters

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

```
--sudo-project-id SUDO_PROJECT_ID
```

Project ID to impersonate for this command. Default:
None

2.494. OPENSTACK ZONE SHOW

```
usage: openstack zone show [-h] [-f {json,shell,table,value,yaml}] [-c
COLUMN]
                              [--max-width <integer>] [--noindent]
                              [--prefix PREFIX] [--all-projects] [--
edit-managed]
                              [--sudo-project-id SUDO_PROJECT_ID]
                              id
```

Show zone details

Positional arguments

id

Zone ID

Optional arguments

-h, --help

show this help message and exit

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

2.495. OPENSTACK ZONE TRANSFER ACCEPT LIST

```
usage: openstack zone transfer accept list [-h]
                                           [-f
{csv,json,table,value,yaml}]
                                           [-c COLUMN] [--max-width
<integer>]
                                           [--noindent]
                                           [--quote
{all,minimal,none,nonnumeric}]
                                           [--all-projects] [--edit-
managed]
                                           [--sudo-project-id
SUDO_PROJECT_ID]
```

List Zone Transfer Accepts

Optional arguments

-h, --help

show this help message and exit

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

2.496. OPENSTACK ZONE TRANSFER ACCEPT REQUEST

```
usage: openstack zone transfer accept request [-h]
                                              [-f
{json,shell,table,value,yaml}]
                                              [-c COLUMN]
                                              [--max-width
<integer>]
                                              [--noindent] [--prefix
PREFIX]
```

```
TRANSFER_ID --key


SUDO_PROJECT_ID]
```

```
                                    --transfer-id

                                    KEY [--all-projects]
                                    [--edit-managed]
                                    [--sudo-project-id
```

Accept a Zone Transfer Request

Optional arguments

-h, --help

show this help message and exit

--transfer-id TRANSFER_ID

Transfer ID

--key KEY

Transfer Key

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

2.497. OPENSTACK ZONE TRANSFER ACCEPT SHOW

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

```
PREFIX]

managed]

SUDO_PROJECT_ID]
```

```
[--noindent] [--prefix

[--all-projects] [--edit-

[--sudo-project-id

id
```

Show Zone Transfer Accept

Positional arguments

id

> Zone Tranfer Accept ID

Optional arguments

-h, --help

> show this help message and exit

--all-projects

> Show results from all projects. Default: False

--edit-managed

> Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

> Project ID to impersonate for this command. Default:
> None

2.498. OPENSTACK ZONE TRANSFER REQUEST CREATE

```
usage: openstack zone transfer request create [-h]
                                              [-f
{json,shell,table,value,yaml}]
                                              [-c COLUMN]
                                              [--max-width
<integer>]
                                              [--noindent] [--prefix
```

```
  PREFIX]
                                                     [--target-project-id
  TARGET_PROJECT_ID]
                                                     [--description
  DESCRIPTION]
                                                     [--all-projects]
                                                     [--edit-managed]
                                                     [--sudo-project-id
  SUDO_PROJECT_ID]
                                                     zone_id
```

Create new zone transfer request

Positional arguments

zone_id

Zone ID to transfer.

Optional arguments

-h, --help

show this help message and exit

--target-project-id TARGET_PROJECT_ID

Target Project ID to transfer to.

--description DESCRIPTION

Description

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

2.499. OPENSTACK ZONE TRANSFER REQUEST DELETE

```
usage: openstack zone transfer request delete [-h] [--all-projects]
                                              [--edit-managed]
                                              [--sudo-project-id
SUDO_PROJECT_ID]
                                              id
```

Delete a Zone Transfer Request

Positional arguments

id

Zone Transfer Request ID

Optional arguments

-h, --help

show this help message and exit

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

2.500. OPENSTACK ZONE TRANSFER REQUEST LIST

```
usage: openstack zone transfer request list [-h]
                                            [-f
```

```
                          {csv,json,table,value,yaml}]
                                                          [-c COLUMN]
                                                          [--max-width <integer>]
                                                          [--noindent]
                                                          [--quote
{all,minimal,none,nonnumeric}]
                                                          [--all-projects] [--
edit-managed]
                                                          [--sudo-project-id
SUDO_PROJECT_ID]
```

List Zone Transfer Requests

Optional arguments

-h, --help

> show this help message and exit

--all-projects

> Show results from all projects. Default: False

--edit-managed

> Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

> Project ID to impersonate for this command. Default:
> None

2.501. OPENSTACK ZONE TRANSFER REQUEST SET

```
usage: openstack zone transfer request set [-h]
                                            [-f
{json,shell,table,value,yaml}]
                                            [-c COLUMN] [--max-width
<integer>]
                                            [--noindent] [--prefix
PREFIX]
                                            [--description
DESCRIPTION | --no-description]
                                            [--all-projects] [--edit-
```

```
managed]

SUDO_PROJECT_ID]
```
```
                                           [--sudo-project-id

                                           id
                                           [-f
```

Set a Zone Transfer Request

Positional arguments

id

> Zone Transfer Request ID

Optional arguments

-h, --help

> show this help message and exit

--description DESCRIPTION

> Description

--no-description

--all-projects

> Show results from all projects. Default: False

--edit-managed

> Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

> Project ID to impersonate for this command. Default:
> None

2.502. OPENSTACK ZONE TRANSFER REQUEST SHOW

```
usage: openstack zone transfer request show [-h]
                                            [-f
```

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

PREFIX]
                                          [--all-projects] [--

edit-managed]
                                          [--sudo-project-id

SUDO_PROJECT_ID]
                                          id
```

Show Zone Transfer Request Details

Positional arguments

id

Zone Tranfer Request ID

Optional arguments

-h, --help

show this help message and exit

--all-projects

Show results from all projects. Default: False

--edit-managed

Edit resources marked as managed. Default: False

--sudo-project-id SUDO_PROJECT_ID

Project ID to impersonate for this command. Default:
None

CHAPTER 3. CONFIGURATION FILE EDITOR

The **openstack-config** client is the command-line interface (CLI) for manipulating ini files. This chapter documents **openstack-config** version **0.7**.

3.1. OPENSTACK-CONFIG USAGE

```
Usage: crudini --set [OPTION]...   config_file section   [param]
[value]
crudini --get [OPTION]...   config_file [section] [param]
crudini --del [OPTION]...   config_file section   [param] [list value]
crudini --merge [OPTION]... config_file [section]
```

3.2. OPENSTACK-CONFIG OPTIONAL ARGUMENTS

--existing[=WHAT]

> For --set, --del and --merge, fail if item is missing,
> where WHAT is 'file', 'section', or 'param', or if
> not specified; all specifed items.

--format=FMT

> For --get, select the output FMT.
> Formats are sh,ini,lines

--inplace

> Lock and write files in place.
> This is not atomic but has less restrictions
> than the default replacement method.

--list

> For --set and --del, update a list (set) of values

--list-sep=STR

> Delimit list values with "STR" instead of " ,"

--output=FILE

Write output to FILE instead. '-' means stdout

--verbose

Indicate on stderr if changes were made

CHAPTER 4. BLOCK STORAGE SERVICE COMMAND-LINE CLIENT

The **cinder** client is the command-line interface (CLI) for the OpenStack Block Storage API and its extensions. This chapter documents **cinder** version **1.9.0**.

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.

availability-zone-list

Lists all availability zones.

backup-create

Creates a volume backup.

backup-delete

Removes one or more backups.

backup-export

Export backup metadata record.

backup-import

Import backup metadata record.

backup-list

Lists all backups.

backup-reset-state

Explicitly updates the backup state.

backup-restore

Restores a backup.

backup-show

Shows backup details.

cgsnapshot-create

Creates a cgsnapshot.

cgsnapshot-delete

Removes one or more cgsnapshots.

cgsnapshot-list

Lists all cgsnapshots.

cgsnapshot-show

Shows cgsnapshot details.

consisgroup-create

Creates a consistency group.

consisgroup-create-from-src

Creates a consistency group from a cgsnapshot or a
source CG.

consisgroup-delete

Removes one or more consistency groups.

consisgroup-list

Lists all consistencygroups.

consisgroup-show

Shows details of a consistency group.

consisgroup-update

Updates a consistencygroup.

create

Creates a volume.

credentials

Shows user credentials returned from auth.

delete

Removes one or more volumes.

encryption-type-create

Creates encryption type for a volume type. Admin only.

encryption-type-delete

Deletes encryption type for a volume type. Admin only.

encryption-type-list

Shows encryption type details for volume types. Admin only.

encryption-type-show

Shows encryption type details for a volume type. Admin only.

encryption-type-update

Update encryption type information for a volume type (Admin Only).

endpoints

Discovers endpoints registered by authentication service.

extend

Attempts to extend size of an existing volume.

extra-specs-list

> Lists current volume types and extra specs.

failover-host

> 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-show

> Shows details of a group.

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.

metadata

Sets or deletes volume metadata.

metadata-show

Shows volume metadata.

metadata-update-all

Updates volume metadata.

migrate

Migrates volume to a new host.

qos-associate

Associates qos specs with specified volume type.

qos-create

Creates a qos specs.

qos-delete

Deletes a specified qos specs.

qos-disassociate

Disassociates qos specs from specified volume type.

qos-disassociate-all

Disassociates qos specs from all its associations.

qos-get-association

Lists all associations for specified qos specs.

qos-key

Sets or unsets specifications for a qos spec.

qos-list

Lists qos specs.

qos-show

Shows qos specs details.

quota-class-show

Lists quotas for a quota class.

quota-class-update

Updates quotas for a quota class.

quota-defaults

Lists default quotas for a tenant.

quota-delete

Delete the quotas for a tenant.

quota-show

Lists quotas for a tenant.

quota-update

Updates quotas for a tenant.

quota-usage

Lists quota usage for a tenant.

rate-limits

Lists rate limits for a user.

readonly-mode-update

Updates volume read-only access-mode flag.

rename

Renames a volume.

replication-promote

Promote a secondary volume to primary for a relationship.

replication-reenable

Sync the secondary volume with primary for a relationship.

reset-state

Explicitly updates the volume state in the Cinder database.

retype

Changes the volume type for a volume.

service-disable

Disables the service.

service-enable

Enables the service.

service-list

Lists all services. Filter by host and service binary.

set-bootable

Update bootable status of a volume.

show

Shows volume details.

snapshot-create

Creates a snapshot.

snapshot-delete

Removes one or more snapshots.

snapshot-list

Lists all snapshots.

snapshot-manage

Manage an existing snapshot.

snapshot-manageable-list

Lists all manageable snapshots.

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'. (Admin only will see private types)

type-show

Show volume type details.

type-update

Updates volume type name, description, and/or is_public.

unmanage

Stop managing a volume.

upload-to-image

Uploads volume to Image Service as an image.

bash-completion

Prints arguments for bash_completion.

help

Shows help about this program or one of its subcommands.

list-extensions

Lists all available os-api extensions.

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]**.

4.3. BLOCK STORAGE API V1 COMMANDS

4.3.1. 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).

4.3.2. cinder availability-zone-list

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

Lists all availability zones.

4.3.3. cinder backup-create

```
usage: cinder backup-create [--container <container>] [--name <name>]
                            [--description <description>] [--
incremental]
                            [--force] [--snapshot-id <snapshot-id>]
                            <volume>
```

Creates a volume backup.

Positional arguments

<volume>

Name or ID of volume to backup.

Optional arguments

`--container <container>`

Backup container name. Default=None.

`--name <name>`

Backup name. Default=None.

`--description <description>`

Backup description. Default=None.

`--incremental`

Incremental backup. Default=False.

`--force`

Allows or disallows backup of a volume when the volume
is attached to an instance. If set to True, backs up
the volume whether its status is "available" or "in-
use". The backup of an "in-use" volume means your data
is crash consistent. Default=False.

`--snapshot-id <snapshot-id>`

ID of snapshot to backup. Default=None.

4.3.4. 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.

4.3.5. cinder backup-export

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

Export backup metadata record.

Positional arguments

<backup>

> ID of the backup to export.

4.3.6. cinder backup-import

```
usage: cinder backup-import <backup_service> <backup_url>
```

Import backup metadata record.

Positional arguments

<backup_service>

> Backup service to use for importing the backup.

<backup_url>

> Backup URL for importing the backup metadata.

4.3.7. cinder backup-list

```
usage: cinder backup-list [--all-tenants [<all_tenants>]] [--name
<name>]
                          [--status <status>] [--volume-id <volume-
id>]
                          [--marker <marker>] [--limit <limit>]
                          [--sort <key>[:<direction>]]
```

Lists all backups.

Optional arguments

--all-tenants [<all_tenants>]

Shows details for all tenants. Admin only.

--name <name>

Filters results by a name. Default=None.

--status <status>

Filters results by a status. Default=None.

--volume-id <volume-id>

Filters results by a volume ID. Default=None.

--marker <marker>

Begin returning backups that appear later in the
backup list than that represented by this id.
Default=None.

--limit <limit>

Maximum number of backups to return. Default=None.

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

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

4.3.8. cinder backup-reset-state

```
usage: cinder backup-reset-state [--state <state>] <backup> [<backup>
...]
```

Explicitly updates the backup state.

Positional arguments

<backup>

Name or ID of the backup to modify.

Optional arguments

--state <state>

The state to assign to the backup. Valid values are
"available", "error". Default=available.

4.3.9. 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.

4.3.10. cinder backup-show

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

Shows backup details.

Positional arguments

<backup>

Name or ID of backup.

4.3.11. cinder cgsnapshot-create

```
usage: cinder cgsnapshot-create [--name <name>] [--description
<description>]
                                      <consistencygroup>
```

Creates a cgsnapshot.

Positional arguments

<consistencygroup>

Name or ID of a consistency group.

Optional arguments

--name <name>

Cgsnapshot name. Default=None.

--description <description>

Cgsnapshot description. Default=None.

4.3.12. cinder cgsnapshot-delete

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

Removes one or more cgsnapshots.

Positional arguments

<cgsnapshot>

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

4.3.13. cinder cgsnapshot-list

```
usage: cinder cgsnapshot-list [--all-tenants [<0|1>]] [--status
<status>]
                                  [--consistencygroup-id
<consistencygroup_id>]
```

Lists all cgsnapshots.

Optional arguments

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

Shows details for all tenants. Admin only.

--status <status>

Filters results by a status. Default=None.

--consistencygroup-id <consistencygroup_id>

Filters results by a consistency group ID.
Default=None.

4.3.14. cinder cgsnapshot-show

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

Shows cgsnapshot details.

Positional arguments

<cgsnapshot>

Name or ID of cgsnapshot.

4.3.15. cinder consisgroup-create

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

Creates a consistency group.

Positional arguments

<volume-types>

Volume types.

Optional arguments

--name <name>

Name of a consistency group.

--description <description>

Description of a consistency group. Default=None.

--availability-zone <availability-zone>

Availability zone for volume. Default=None.

4.3.16. cinder consisgroup-create-from-src

```
usage: cinder consisgroup-create-from-src [--cgsnapshot <cgsnapshot>]
                                          [--source-cg <source-cg>]
                                          [--name <name>]
                                          [--description
<description>]
```

Creates a consistency group from a cgsnapshot or a source CG.

Optional arguments

--cgsnapshot <cgsnapshot>

Name or ID of a cgsnapshot. Default=None.

--source-cg <source-cg>

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

--name <name>

Name of a consistency group. Default=None.

--description <description>

Description of a consistency group. Default=None.

4.3.17. cinder consisgroup-delete

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

Removes one or more consistency groups.

Positional arguments

<consistencygroup>

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

Optional arguments

--force

Allows or disallows consistency groups to be deleted. If
the consistency group is empty, it can be deleted
without the force flag. If the consistency group is not
empty, the force flag is required for it to be deleted.

4.3.18. cinder consisgroup-list

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

Lists all consistencygroups.

Optional arguments

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

Shows details for all tenants. Admin only.

4.3.19. cinder consisgroup-show

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

Shows details of a consistency group.

Positional arguments

<consistencygroup>

Name or ID of a consistency group.

4.3.20. cinder consisgroup-update

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

Updates a consistencygroup.

Positional arguments

<consistencygroup>

Name or ID of a consistency group.

Optional arguments

--name <name>

New name for consistency group. Default=None.

--description <description>

New description for consistency group. Default=None.

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

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

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

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

4.3.21. cinder create

```
usage: cinder create [--consisgroup-id <consistencygroup-id>]
                     [--snapshot-id <snapshot-id>]
                     [--source-volid <source-volid>]
                     [--source-replica <source-replica>]
                     [--image-id <image-id>] [--image <image>] [--name
<name>]
                     [--description <description>]
                     [--volume-type <volume-type>]
                     [--availability-zone <availability-zone>]
                     [--metadata [<key=value> [<key=value> ...]]]
                     [--hint <key=value>] [--allow-multiattach]
                     [<size>]
```

Creates a volume.

Positional arguments

<size>

Size of volume, in GiBs. (Required unless snapshot-id
/source-volid is specified).

Optional arguments

--consisgroup-id <consistencygroup-id>

ID of a consistency group where the new volume belongs
to. Default=None.

--snapshot-id <snapshot-id>

Creates volume from snapshot ID. Default=None.

--source-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

4.3.22. cinder credentials

```
usage: cinder credentials
```

Shows user credentials returned from auth.

4.3.23. 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.

4.3.24. cinder encryption-type-create

```
usage: cinder encryption-type-create [--cipher <cipher>]
                                     [--key_size <key_size>]
                                     [--control_location
<control_location>]
                                     <volume_type> <provider>
```

Creates encryption type for a volume type. Admin only.

Positional arguments

`<volume_type>`

>> Name or ID of volume type.

`<provider>`

>> The class that provides encryption support. For
>> example, LuksEncryptor.

Optional arguments

`--cipher <cipher>`

>> The encryption algorithm or mode. For example, aes-
>> xts-plain64. Default=None.

`--key_size <key_size>`

>> Size of encryption key, in bits. For example, 128 or
>> 256. Default=None.

`--control_location <control_location>`

>> Notional service where encryption is performed. Valid
>> values are "front-end" or "back-end." For example,
>> front-end=Nova. Default is "front-end."

4.3.25. cinder encryption-type-delete

```
usage: cinder encryption-type-delete <volume_type>
```

Deletes encryption type for a volume type. Admin only.

Positional arguments

`<volume_type>`

>> Name or ID of volume type.

4.3.26. cinder encryption-type-list

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

Shows encryption type details for volume types. Admin only.

4.3.27. cinder encryption-type-show

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

Shows encryption type details for a volume type. Admin only.

Positional arguments

<volume_type>

Name or ID of volume type.

4.3.28. cinder encryption-type-update

```
usage: cinder encryption-type-update [--provider <provider>]
                                     [--cipher [<cipher>]]
                                     [--key-size [<key-size>]]
                                     [--control-location <control-
location>]
                                     <volume-type>
```

Update encryption type information for a volume type (Admin Only).

Positional arguments

<volume-type>

Name or ID of the volume type

Optional arguments

--provider <provider>

Class providing encryption support (e.g. LuksEncryptor) (Optional)

--cipher [<cipher>]

Encryption algorithm/mode to use (e.g., aes-xts-plain64). Provide parameter without value to set to provider default. (Optional)

```
--key-size [<key-size>]
```

Size of the encryption key, in bits (e.g., 128, 256). Provide parameter without value to set to provider default. (Optional)

```
--control-location <control-location>
```

Notional service where encryption is performed (e.g., front-end=Nova). Values: 'front-end', 'back-end' (Optional)

4.3.29. cinder endpoints

```
usage: cinder endpoints
```

Discovers endpoints registered by authentication service.

4.3.30. cinder extend

```
usage: cinder extend <volume> <new_size>
```

Attempts to extend size of an existing volume.

Positional arguments

```
<volume>
```

Name or ID of volume to extend.

```
<new_size>
```

New size of volume, in GiBs.

4.3.31. cinder extra-specs-list

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

Lists current volume types and extra specs.

4.3.32. 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)

4.3.33. cinder force-delete

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

Attempts force-delete of volume, regardless of state.

Positional arguments

<volume>

Name or ID of volume or volumes to delete.

4.3.34. cinder freeze-host

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

Freeze and disable the specified cinder-volume host.

Positional arguments

<hostname>

Host name.

4.3.35. cinder get-capabilities

```
usage: cinder get-capabilities <host>
```

Show backend volume stats and properties. Admin only.

Positional arguments

<host>

Cinder host to show backend volume stats and properties; takes the
form: host@backend-name

4.3.36. cinder get-pools

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

Show pool information for backends. Admin only.

Optional arguments

--detail

Show detailed information about pools.

4.3.37. cinder group-show

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

Shows details of a group.

Positional arguments

<group>

Name or ID of a group.

4.3.38. 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.

4.3.39. cinder image-metadata-show

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

Shows volume image metadata.

Positional arguments

<volume>

ID of volume.

4.3.40. cinder list

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

Lists all volumes.

Optional arguments

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

Shows details for all tenants. Admin only.

`--name <name>`

Filters results by a name. Default=None.

`--status <status>`

Filters results by a status. Default=None.

`--bootable [<True|true|False|false>]`

Filters results by bootable status. Default=None.

`--migration_status <migration_status>`

Filters results by a migration status. Default=None.
Admin only.

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

Filters results by a metadata key and value pair.
Default=None.

`--marker <marker>`

Begin returning volumes that appear later in the
volume list than that represented by this volume id.
Default=None.

`--limit <limit>`

Maximum number of volumes to return. Default=None.

`--fields <fields>`

Comma-separated list of fields to display. Use the show command to see which fields are available. Unavailable/non-existent fields will be ignored. Default=None.

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

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

--tenant [<tenant>]

Display information from single tenant (Admin only).

4.3.41. cinder list-extensions

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

Lists all available os-api extensions.

4.3.42. 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

4.3.43. 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: id, status, size, availability_zone, name, bootable, created_at, reference. Default=None.

4.3.44. 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. Supported until API version 3.14)

4.3.45. cinder metadata-show

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

Shows volume metadata.

Positional arguments

<volume>

ID of volume.

4.3.46. 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.

4.3.47. 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.

4.3.48. 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.

4.3.49. 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.

4.3.50. 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.

4.3.51. 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.

4.3.52. 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.

4.3.53. 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.

4.3.54. 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.

4.3.55. cinder qos-list

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

Lists qos specs.

4.3.56. cinder qos-show

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

Shows qos specs details.

Positional arguments

<qos_specs>

ID of QoS specifications to show.

4.3.57. 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.

4.3.58. 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.

4.3.59. 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.

4.3.60. 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.

4.3.61. 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.

4.3.62. cinder quota-update

```
usage: cinder quota-update [--volumes <volumes>] [--snapshots
<snapshots>]
                            [--gigabytes <gigabytes>] [--backups
<backups>]
                            [--backup-gigabytes <backup_gigabytes>]
                            [--consistencygroups <consistencygroups>]
                            [--volume-type <volume_type_name>]
                            [--per-volume-gigabytes
<per_volume_gigabytes>]
                            <tenant_id>
```

Updates quotas for a tenant.

Positional arguments

<tenant_id>

ID of tenant for which to set quotas.

Optional arguments

--volumes <volumes>

The new "volumes" quota value. Default=None.

--snapshots <snapshots>

The new "snapshots" quota value. Default=None.

--gigabytes <gigabytes>

The new "gigabytes" quota value. Default=None.

--backups <backups>

The new "backups" quota value. Default=None.

--backup-gigabytes <backup_gigabytes>

The new "backup_gigabytes" quota value. Default=None.

--consistencygroups <consistencygroups>

The new "consistencygroups" quota value. Default=None.

--volume-type <volume_type_name>

Volume type. Default=None.

--per-volume-gigabytes <per_volume_gigabytes>

Set max volume size limit. Default=None.

4.3.63. 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.

4.3.64. 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).

4.3.65. 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.

4.3.66. 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.

4.3.67. 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.

4.3.68. 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 reenable replication. The replication-
status of the volume should be inactive.

4.3.69. 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.

4.3.70. 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.

4.3.71. 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.

4.3.72. cinder service-enable

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

Enables the service.

Positional arguments

<hostname>

Host name.

<binary>

Service binary.

4.3.73. 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.

4.3.74. 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.

4.3.75. cinder show

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

Shows volume details.

Positional arguments

<volume>

Name or ID of volume.

4.3.76. 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.

4.3.77. 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.

4.3.78. cinder snapshot-list

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

Lists all snapshots.

Optional arguments

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

Shows details for all tenants. Admin only.

--name <name>

Filters results by a name. Default=None.

--status <status>

Filters results by a status. Default=None.

`--volume-id <volume-id>`

Filters results by a volume ID. Default=None.

`--marker <marker>`

Begin returning snapshots that appear later in the
snapshot list than that represented by this id.
Default=None.

`--limit <limit>`

Maximum number of snapshots to return. Default=None.

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

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

`--tenant [<tenant>]`

Display information from single tenant (Admin only).

4.3.79. 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)

4.3.80. 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: id,
status, size, availability_zone, name, bootable,
created_at, reference. Default=None.

4.3.81. 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.

4.3.82. cinder snapshot-metadata-show

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

Shows snapshot metadata.

Positional arguments

<snapshot>

ID of snapshot.

4.3.83. 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.

4.3.84. 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.

4.3.85. 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.

4.3.86. cinder snapshot-show

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

Shows snapshot details.

Positional arguments

<snapshot>

Name or ID of snapshot.

4.3.87. cinder snapshot-unmanage

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

Stop managing a snapshot.

Positional arguments

<snapshot>

Name or ID of the snapshot to unmanage.

4.3.88. cinder thaw-host

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

Thaw and enable the specified cinder-volume host.

Positional arguments

<hostname>

Host name.

4.3.89. 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.

4.3.90. 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.

4.3.91. cinder transfer-delete

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

Undoes a transfer.

Positional arguments

<transfer>

Name or ID of transfer to delete.

4.3.92. 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.

4.3.93. cinder transfer-show

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

Shows transfer details.

Positional arguments

```
<transfer>
```

Name or ID of transfer to accept.

4.3.94. 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.

4.3.95. 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.

4.3.96. 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.

4.3.97. 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).

4.3.98. cinder type-default

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

List the default volume type.

4.3.99. 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.

4.3.100. 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.

4.3.101. cinder type-list

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

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

4.3.102. cinder type-show

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

Show volume type details.

Positional arguments

<volume_type>

Name or ID of the volume type.

4.3.103. 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.

4.3.104. cinder unmanage

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

Stop managing a volume.

Positional arguments

`<volume>`

Name or ID of the volume to unmanage.

4.3.105. cinder upload-to-image

```
usage: cinder upload-to-image [--force [<True|False>]]
                              [--container-format <container-format>]
                              [--disk-format <disk-format>]
                              <volume> <image-name>
```

Uploads volume to Image Service as an image.

Positional arguments

`<volume>`

Name or ID of volume to snapshot.

`<image-name>`

The new image name.

Optional arguments

`--force [<True|False>]`

Enables or disables upload of a volume that is attached to an instance. Default=False. 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.

4.4. BLOCK STORAGE API V2 COMMANDS

You can select an API version to use by adding the **--os-volume-api-version** option or by setting the corresponding environment variable:

```
$ export OS_VOLUME_API_VERSION=2
```

4.4.1. cinder absolute-limits (v2)

```
usage: cinder --os-volume-api-version 2 absolute-limits [<tenant_id>]
```

Lists absolute limits for a user.

Positional arguments

<tenant_id>

Display information for a single tenant (Admin only).

4.4.2. cinder availability-zone-list (v2)

```
usage: cinder --os-volume-api-version 2 availability-zone-list
```

Lists all availability zones.

4.4.3. cinder backup-create (v2)

```
usage: cinder --os-volume-api-version 2 backup-create [--container
<container>] [--name <name>]
                            [--description <description>] [--
```

```
incremental]
                                 [--force] [--snapshot-id <snapshot-id>]
                                 <volume>
```

Creates a volume backup.

Positional arguments

<volume>

>> Name or ID of volume to backup.

Optional arguments

--container <container>

>> Backup container name. Default=None.

--name <name>

>> Backup name. Default=None.

--description <description>

>> Backup description. Default=None.

--incremental

>> Incremental backup. Default=False.

--force

>> Allows or disallows backup of a volume when the volume
is attached to an instance. If set to True, backs up
the volume whether its status is "available" or "in-
use". The backup of an "in-use" volume means your data
is crash consistent. Default=False.

--snapshot-id <snapshot-id>

>> ID of snapshot to backup. Default=None.

4.4.4. cinder backup-delete (v2)

```
usage: cinder --os-volume-api-version 2 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.

4.4.5. cinder backup-export (v2)

```
usage: cinder --os-volume-api-version 2 backup-export <backup>
```

Export backup metadata record.

Positional arguments

<backup>

ID of the backup to export.

4.4.6. cinder backup-import (v2)

```
usage: cinder --os-volume-api-version 2 backup-import <backup_service>
<backup_url>
```

Import backup metadata record.

Positional arguments

<backup_service>

Backup service to use for importing the backup.

<backup_url>

Backup URL for importing the backup metadata.

4.4.7. cinder backup-list (v2)

```
usage: cinder --os-volume-api-version 2 backup-list [--all-tenants
[<all_tenants>]] [--name <name>]
                             [--status <status>] [--volume-id <volume-
id>]
                             [--marker <marker>] [--limit <limit>]
                             [--sort <key>[:<direction>]]
```

Lists all backups.

Optional arguments

--all-tenants [<all_tenants>]

Shows details for all tenants. Admin only.

--name <name>

Filters results by a name. Default=None.

--status <status>

Filters results by a status. Default=None.

--volume-id <volume-id>

Filters results by a volume ID. Default=None.

--marker <marker>

Begin returning backups that appear later in the
backup list than that represented by this id.
Default=None.

--limit <limit>

Maximum number of backups to return. Default=None.

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

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

4.4.8. cinder backup-reset-state (v2)

```
usage: cinder --os-volume-api-version 2 backup-reset-state [--state
<state>] <backup> [<backup> ...]
```

Explicitly updates the backup state.

Positional arguments

<backup>

Name or ID of the backup to modify.

Optional arguments

--state <state>

The state to assign to the backup. Valid values are
"available", "error". Default=available.

4.4.9. cinder backup-restore (v2)

```
usage: cinder --os-volume-api-version 2 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.

4.4.10. cinder backup-show (v2)

```
usage: cinder --os-volume-api-version 2 backup-show <backup>
```

Shows backup details.

Positional arguments

<backup>

Name or ID of backup.

4.4.11. cinder cgsnapshot-create (v2)

```
usage: cinder --os-volume-api-version 2 cgsnapshot-create [--name
<name>] [--description <description>]
                                   <consistencygroup>
```

Creates a cgsnapshot.

Positional arguments

<consistencygroup>

Name or ID of a consistency group.

Optional arguments

--name <name>

Cgsnapshot name. Default=None.

--description <description>

Cgsnapshot description. Default=None.

4.4.12. cinder cgsnapshot-delete (v2)

```
usage: cinder --os-volume-api-version 2 cgsnapshot-delete <cgsnapshot>
[<cgsnapshot> ...]
```

Removes one or more cgsnapshots.

Positional arguments

<cgsnapshot>

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

4.4.13. cinder cgsnapshot-list (v2)

```
usage: cinder --os-volume-api-version 2 cgsnapshot-list [--all-tenants
[<0|1>]] [--status <status>]
                                [--consistencygroup-id
<consistencygroup_id>]
```

Lists all cgsnapshots.

Optional arguments

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

Shows details for all tenants. Admin only.

--status <status>

Filters results by a status. Default=None.

--consistencygroup-id <consistencygroup_id>

Filters results by a consistency group ID.
Default=None.

4.4.14. cinder cgsnapshot-show (v2)

```
usage: cinder --os-volume-api-version 2 cgsnapshot-show <cgsnapshot>
```

Shows cgsnapshot details.

Positional arguments

<cgsnapshot>

Name or ID of cgsnapshot.

4.4.15. cinder consisgroup-create (v2)

```
usage: cinder --os-volume-api-version 2 consisgroup-create [--name
<name>] [--description <description>]
                                  [--availability-zone <availability-
zone>]
                                  <volume-types>
```

Creates a consistency group.

Positional arguments

<volume-types>

Volume types.

Optional arguments

--name <name>

Name of a consistency group.

--description <description>

Description of a consistency group. Default=None.

--availability-zone <availability-zone>

Availability zone for volume. Default=None.

4.4.16. cinder consisgroup-create-from-src (v2)

```
usage: cinder --os-volume-api-version 2 consisgroup-create-from-src [--
cgsnapshot <cgsnapshot>]
                                        [--source-cg <source-cg>]
                                        [--name <name>]
                                        [--description
<description>]
```

Creates a consistency group from a cgsnapshot or a source CG.

Optional arguments

--cgsnapshot <cgsnapshot>

Name or ID of a cgsnapshot. Default=None.

--source-cg <source-cg>

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

--name <name>

Name of a consistency group. Default=None.

--description <description>

Description of a consistency group. Default=None.

4.4.17. cinder consisgroup-delete (v2)

```
usage: cinder --os-volume-api-version 2 consisgroup-delete [--force]
                                    <consistencygroup>
[<consistencygroup> ...]
```

Removes one or more consistency groups.

Positional arguments

<consistencygroup>

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

Optional arguments

--force

Allows or disallows consistency groups to be deleted. If the consistency group is empty, it can be deleted without the force flag. If the consistency group is not empty, the force flag is required for it to be deleted.

4.4.18. cinder consisgroup-list (v2)

```
usage: cinder --os-volume-api-version 2 consisgroup-list [--all-tenants
[<0|1>]]
```

Lists all consistencygroups.

Optional arguments

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

Shows details for all tenants. Admin only.

4.4.19. cinder consisgroup-show (v2)

```
usage: cinder --os-volume-api-version 2 consisgroup-show
<consistencygroup>
```

Shows details of a consistency group.

Positional arguments

<consistencygroup>

Name or ID of a consistency group.

4.4.20. cinder consisgroup-update (v2)

```
usage: cinder --os-volume-api-version 2 consisgroup-update [--name
<name>] [--description <description>]
                                    [--add-volumes <uuid1,uuid2,......>]
```

```
                                    [--remove-volumes
<uuid3,uuid4,......>]
                                    <consistencygroup>
```

Updates a consistencygroup.

Positional arguments

<consistencygroup>

Name or ID of a consistency group.

Optional arguments

--name <name>

New name for consistency group. Default=None.

--description <description>

New description for consistency group. Default=None.

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

UUID of one or more volumes to be added to the
consistency group, 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.

4.4.21. cinder create (v2)

```
usage: cinder --os-volume-api-version 2 create [--consisgroup-id
<consistencygroup-id>]
                      [--snapshot-id <snapshot-id>]
                      [--source-volid <source-volid>]
                      [--source-replica <source-replica>]
                      [--image-id <image-id>] [--image <image>] [--name
<name>]
                      [--description <description>]
                      [--volume-type <volume-type>]
```

```
                              [--availability-zone <availability-zone>]
                              [--metadata [<key=value> [<key=value> ...]]]
                              [--hint <key=value>] [--allow-multiattach]
                              [<size>]
```

Creates a volume.

Positional arguments

<size>

Size of volume, in GiBs. (Required unless snapshot-id /source-volid is specified).

Optional arguments

--consisgroup-id <consistencygroup-id>

ID of a consistency group where the new volume belongs to. Default=None.

--snapshot-id <snapshot-id>

Creates volume from snapshot ID. Default=None.

--source-volid <source-volid>

Creates volume from volume ID. Default=None.

--source-replica <source-replica>

Creates volume from replicated volume ID. Default=None.

--image-id <image-id>

Creates volume from image ID. Default=None.

--image <image>

Creates a volume from image (ID or name). Default=None.

--name <name>

> Volume name. Default=None.

--description <description>

> Volume description. Default=None.

--volume-type <volume-type>

> Volume type. Default=None.

--availability-zone <availability-zone>

> Availability zone for volume. Default=None.

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

> Metadata key and value pairs. Default=None.

--hint <key=value>

> Scheduler hint, like in nova.

--allow-multiattach

> Allow volume to be attached more than once.
> Default=False

4.4.22. cinder credentials (v2)

```
usage: cinder --os-volume-api-version 2 credentials
```

Shows user credentials returned from auth.

4.4.23. cinder delete (v2)

```
usage: cinder --os-volume-api-version 2 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.

4.4.24. cinder encryption-type-create (v2)

```
usage: cinder --os-volume-api-version 2 encryption-type-create [--
cipher <cipher>]
                                     [--key_size <key_size>]
                                     [--control_location
<control_location>]
                                     <volume_type> <provider>
```

Creates encryption type for a volume type. Admin only.

Positional arguments

<volume_type>

Name or ID of volume type.

<provider>

The class that provides encryption support. For
example, LuksEncryptor.

Optional arguments

--cipher <cipher>

The encryption algorithm or mode. For example, aes-
xts-plain64. Default=None.

`--key_size <key_size>`

> Size of encryption key, in bits. For example, 128 or
> 256. Default=None.

`--control_location <control_location>`

> Notional service where encryption is performed. Valid
> values are "front-end" or "back-end." For example,
> front-end=Nova. Default is "front-end."

4.4.25. cinder encryption-type-delete (v2)

```
usage: cinder --os-volume-api-version 2 encryption-type-delete
<volume_type>
```

Deletes encryption type for a volume type. Admin only.

Positional arguments

`<volume_type>`

> Name or ID of volume type.

4.4.26. cinder encryption-type-list (v2)

```
usage: cinder --os-volume-api-version 2 encryption-type-list
```

Shows encryption type details for volume types. Admin only.

4.4.27. cinder encryption-type-show (v2)

```
usage: cinder --os-volume-api-version 2 encryption-type-show
<volume_type>
```

Shows encryption type details for a volume type. Admin only.

Positional arguments

`<volume_type>`

> Name or ID of volume type.

4.4.28. cinder encryption-type-update (v2)

```
usage: cinder --os-volume-api-version 2 encryption-type-update [--
provider <provider>]
                                          [--cipher [<cipher>]]
                                          [--key-size [<key-size>]]
                                          [--control-location <control-
location>]
                                          <volume-type>
```

Update encryption type information for a volume type (Admin Only).

Positional arguments

<volume-type>

Name or ID of the volume type

Optional arguments

--provider <provider>

Class providing encryption support (e.g.
LuksEncryptor) (Optional)

--cipher [<cipher>]

Encryption algorithm/mode to use (e.g., aes-xts-
plain64). Provide parameter without value 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)

4.4.29. cinder endpoints (v2)

```
usage: cinder --os-volume-api-version 2 endpoints
```

Discovers endpoints registered by authentication service.

4.4.30. cinder extend (v2)

```
usage: cinder --os-volume-api-version 2 extend <volume> <new_size>
```

Attempts to extend size of an existing volume.

Positional arguments

<volume>

Name or ID of volume to extend.

<new_size>

New size of volume, in GiBs.

4.4.31. cinder extra-specs-list (v2)

```
usage: cinder --os-volume-api-version 2 extra-specs-list
```

Lists current volume types and extra specs.

4.4.32. cinder failover-host (v2)

```
usage: cinder --os-volume-api-version 2 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)

4.4.33. cinder force-delete (v2)

```
usage: cinder --os-volume-api-version 2 force-delete <volume> [<volume>
...]
```

Attempts force-delete of volume, regardless of state.

Positional arguments

<volume>

Name or ID of volume or volumes to delete.

4.4.34. cinder freeze-host (v2)

```
usage: cinder --os-volume-api-version 2 freeze-host <hostname>
```

Freeze and disable the specified cinder-volume host.

Positional arguments

<hostname>

Host name.

4.4.35. cinder get-capabilities (v2)

```
usage: cinder --os-volume-api-version 2 get-capabilities <host>
```

Show backend volume stats and properties. Admin only.

Positional arguments

<host>

Cinder host to show backend volume stats and properties; takes the
form: host@backend-name

4.4.36. cinder get-pools (v2)

```
usage: cinder --os-volume-api-version 2 get-pools [--detail]
```

Show pool information for backends. Admin only.

Optional arguments

--detail

Show detailed information about pools.

4.4.37. cinder group-show (v2)

```
usage: cinder --os-volume-api-version 2 group-show <group>
```

Shows details of a group.

Positional arguments

<group>

Name or ID of a group.

4.4.38. cinder image-metadata (v2)

```
usage: cinder --os-volume-api-version 2 image-metadata <volume>
<action> <key=value> [<key=value> ...]
```

Sets or deletes volume image metadata.

Positional arguments

<volume>

Name or ID of volume for which to update metadata.

<action>

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

<key=value>

Metadata key and value pair to set or unset. For unset, specify
only the key.

4.4.39. cinder image-metadata-show (v2)

```
usage: cinder --os-volume-api-version 2 image-metadata-show <volume>
```

Shows volume image metadata.

Positional arguments

<volume>

ID of volume.

4.4.40. cinder list (v2)

```
usage: cinder --os-volume-api-version 2 list [--all-tenants [<0|1>]] [-
-name <name>] [--status <status>]
                    [--bootable [<True|true|False|false>]]
                    [--migration_status <migration_status>]
                    [--metadata [<key=value> [<key=value> ...]]]
                    [--marker <marker>] [--limit <limit>] [--fields
<fields>]
                    [--sort <key>[:<direction>]] [--tenant [<tenant>]]
```

Lists all volumes.

Optional arguments

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

Shows details for all tenants. Admin only.

--name <name>

Filters results by a name. Default=None.

--status <status>

Filters results by a status. Default=None.

--bootable [<True|true|False|false>]

Filters results by bootable status. Default=None.

`--migration_status <migration_status>`

Filters results by a migration status. Default=None.
Admin only.

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

Filters results by a metadata key and value pair.
Default=None.

`--marker <marker>`

Begin returning volumes that appear later in the
volume list than that represented by this volume id.
Default=None.

`--limit <limit>`

Maximum number of volumes to return. Default=None.

`--fields <fields>`

Comma-separated list of fields to display. Use the
show command to see which fields are available.
Unavailable/non-existent fields will be ignored.
Default=None.

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

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

`--tenant [<tenant>]`

Display information from single tenant (Admin only).

4.4.41. cinder list-extensions (v2)

```
usage: cinder --os-volume-api-version 2 list-extensions
```

Lists all available os-api extensions.

4.4.42. cinder manage (v2)

```
usage: cinder --os-volume-api-version 2 manage [--id-type <id-type>] [-
-name <name>]
                       [--description <description>]
                       [--volume-type <volume-type>]
                       [--availability-zone <availability-zone>]
                       [--metadata [<key=value> [<key=value> ...]]] [--
bootable]
                       <host> <identifier>
```

Manage an existing volume.

Positional arguments

<host>

Cinder host on which the existing volume resides;
takes the form: host@backend-name#pool

<identifier>

Name or other Identifier for existing volume

Optional arguments

--id-type <id-type>

Type of backend device identifier provided, typically
source-name or source-id (Default=source-name)

--name <name>

Volume name (Default=None)

--description <description>

Volume description (Default=None)

`--volume-type <volume-type>`

Volume type (Default=None)

`--availability-zone <availability-zone>`

Availability zone for volume (Default=None)

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

Metadata key=value pairs (Default=None)

`--bootable`

Specifies that the newly created volume should be
marked as bootable

4.4.43. cinder manageable-list (v2)

```
usage: cinder --os-volume-api-version 2 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: id,
status, size, availability_zone, name, bootable,
created_at, reference. Default=None.

4.4.44. cinder metadata (v2)

```
usage: cinder --os-volume-api-version 2 metadata <volume> <action>
<key=value> [<key=value> ...]
```

Sets or deletes volume metadata.

Positional arguments

<volume>

Name or ID of volume for which to update metadata.

<action>

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

<key=value>

Metadata key and value pair to set or unset. For unset, specify
only the key. Supported until API version 3.14)

4.4.45. cinder metadata-show (v2)

```
usage: cinder --os-volume-api-version 2 metadata-show <volume>
```

Shows volume metadata.

Positional arguments

<volume>

ID of volume.

4.4.46. cinder metadata-update-all (v2)

```
usage: cinder --os-volume-api-version 2 metadata-update-all <volume>
<key=value> [<key=value> ...]
```

Updates volume metadata.

Positional arguments

<volume>

ID of volume for which to update metadata.

<key=value>

Metadata key and value pair or pairs to update.

4.4.47. cinder migrate (v2)

```
usage: cinder --os-volume-api-version 2 migrate [--force-host-copy
[<True|False>]]
                       [--lock-volume [<True|False>]]
                       <volume> <host>
```

Migrates volume to a new host.

Positional arguments

<volume>

ID of volume to migrate.

<host>

Destination host. Takes the form: host@backend-name#pool

Optional arguments

--force-host-copy [<True|False>]

Enables or disables generic host-based force-migration, which bypasses driver optimizations. Default=False.

--lock-volume [<True|False>]

Enables or disables the termination of volume migration caused by other commands. This option applies to the available volume. True means it locks the volume state and does not allow the migration to be aborted. The volume status will be in maintenance during the migration. False means it allows the volume migration to be aborted. The volume status is still in the original status. Default=False.

4.4.48. cinder qos-associate (v2)

```
usage: cinder --os-volume-api-version 2 qos-associate <qos_specs>
<volume_type_id>
```

Associates qos specs with specified volume type.

Positional arguments

<qos_specs>

ID of QoS specifications.

<volume_type_id>

ID of volume type with which to associate QoS specifications.

4.4.49. cinder qos-create (v2)

```
usage: cinder --os-volume-api-version 2 qos-create <name> <key=value>
[<key=value> ...]
```

Creates a qos specs.

Positional arguments

<name>

Name of new QoS specifications.

<key=value>

QoS specifications.

4.4.50. cinder qos-delete (v2)

```
usage: cinder --os-volume-api-version 2 qos-delete [--force
[<True|False>]] <qos_specs>
```

Deletes a specified qos specs.

Positional arguments

<qos_specs>

ID of QoS specifications to delete.

Optional arguments

--force [<True|False>]

Enables or disables deletion of in-use QoS
specifications. Default=False.

4.4.51. cinder qos-disassociate (v2)

```
usage: cinder --os-volume-api-version 2 qos-disassociate <qos_specs>
<volume_type_id>
```

Disassociates qos specs from specified volume type.

Positional arguments

<qos_specs>

ID of QoS specifications.

<volume_type_id>

ID of volume type with which to associate QoS
specifications.

4.4.52. cinder qos-disassociate-all (v2)

```
usage: cinder --os-volume-api-version 2 qos-disassociate-all
<qos_specs>
```

Disassociates qos specs from all its associations.

Positional arguments

<qos_specs>

ID of QoS specifications on which to operate.

4.4.53. cinder qos-get-association (v2)

```
usage: cinder --os-volume-api-version 2 qos-get-association <qos_specs>
```

Lists all associations for specified qos specs.

Positional arguments

<qos_specs>

ID of QoS specifications.

4.4.54. cinder qos-key (v2)

```
usage: cinder --os-volume-api-version 2 qos-key <qos_specs> <action>
key=value [key=value ...]
```

Sets or unsets specifications for a qos spec.

Positional arguments

<qos_specs>

ID of QoS specifications.

<action>

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

key=value

Metadata key and value pair to set or unset. For unset, specify
only the key.

4.4.55. cinder qos-list (v2)

```
usage: cinder --os-volume-api-version 2 qos-list
```

Lists qos specs.

4.4.56. cinder qos-show (v2)

```
usage: cinder --os-volume-api-version 2 qos-show <qos_specs>
```

Shows qos specs details.

Positional arguments

<qos_specs>

ID of QoS specifications to show.

4.4.57. cinder quota-class-show (v2)

```
usage: cinder --os-volume-api-version 2 quota-class-show <class>
```

Lists quotas for a quota class.

Positional arguments

<class>

Name of quota class for which to list quotas.

4.4.58. cinder quota-class-update (v2)

```
usage: cinder --os-volume-api-version 2 quota-class-update [--volumes
<volumes>]
                                    [--snapshots <snapshots>]
                                    [--gigabytes <gigabytes>]
                                    [--volume-type <volume_type_name>]
                                    <class_name>
```

Updates quotas for a quota class.

Positional arguments

<class_name>

Name of quota class for which to set quotas.

Optional arguments

--volumes <volumes>

The new "volumes" quota value. Default=None.

--snapshots <snapshots>

The new "snapshots" quota value. Default=None.

--gigabytes <gigabytes>

The new "gigabytes" quota value. Default=None.

--volume-type <volume_type_name>

Volume type. Default=None.

4.4.59. cinder quota-defaults (v2)

```
usage: cinder --os-volume-api-version 2 quota-defaults <tenant_id>
```

Lists default quotas for a tenant.

Positional arguments

<tenant_id>

ID of tenant for which to list quota defaults.

4.4.60. cinder quota-delete (v2)

```
usage: cinder --os-volume-api-version 2 quota-delete <tenant_id>
```

Delete the quotas for a tenant.

Positional arguments

<tenant_id>

UUID of tenant to delete the quotas for.

4.4.61. cinder quota-show (v2)

```
usage: cinder --os-volume-api-version 2 quota-show <tenant_id>
```

Lists quotas for a tenant.

Positional arguments

<tenant_id>

ID of tenant for which to list quotas.

4.4.62. cinder quota-update (v2)

```
usage: cinder --os-volume-api-version 2 quota-update [--volumes
<volumes>] [--snapshots <snapshots>]
                               [--gigabytes <gigabytes>] [--backups
<backups>]
                               [--backup-gigabytes <backup_gigabytes>]
                               [--consistencygroups <consistencygroups>]
                               [--volume-type <volume_type_name>]
                               [--per-volume-gigabytes
<per_volume_gigabytes>]
                               <tenant_id>
```

Updates quotas for a tenant.

Positional arguments

`<tenant_id>`

ID of tenant for which to set quotas.

Optional arguments

`--volumes <volumes>`

The new "volumes" quota value. Default=None.

`--snapshots <snapshots>`

The new "snapshots" quota value. Default=None.

`--gigabytes <gigabytes>`

The new "gigabytes" quota value. Default=None.

`--backups <backups>`

The new "backups" quota value. Default=None.

`--backup-gigabytes <backup_gigabytes>`

The new "backup_gigabytes" quota value. Default=None.

`--consistencygroups <consistencygroups>`

The new "consistencygroups" quota value. Default=None.

`--volume-type <volume_type_name>`

Volume type. Default=None.

`--per-volume-gigabytes <per_volume_gigabytes>`

Set max volume size limit. Default=None.

4.4.63. cinder quota-usage (v2)

```
usage: cinder --os-volume-api-version 2 quota-usage <tenant_id>
```

Lists quota usage for a tenant.

Positional arguments

<tenant_id>

ID of tenant for which to list quota usage.

4.4.64. cinder rate-limits (v2)

```
usage: cinder --os-volume-api-version 2 rate-limits [<tenant_id>]
```

Lists rate limits for a user.

Positional arguments

<tenant_id>

Display information for a single tenant (Admin only).

4.4.65. cinder readonly-mode-update (v2)

```
usage: cinder --os-volume-api-version 2 readonly-mode-update <volume>
<True|true|False|false>
```

Updates volume read-only access-mode flag.

Positional arguments

<volume>

ID of volume to update.

<True|true|False|false>

Enables or disables update of volume to read-only

Enables or disables update of volume to read-only
access mode.

4.4.66. cinder rename (v2)

```
usage: cinder --os-volume-api-version 2 rename [--description
<description>] <volume> [<name>]
```

Renames a volume.

Positional arguments

<volume>

Name or ID of volume to rename.

<name>

New name for volume.

Optional arguments

--description <description>

Volume description. Default=None.

4.4.67. cinder replication-promote (v2)

```
usage: cinder --os-volume-api-version 2 replication-promote <volume>
```

Promote a secondary volume to primary for a relationship.

Positional arguments

<volume>

Name or ID of the volume to promote. The volume should have the
replica volume created with source-replica argument.

4.4.68. cinder replication-reenable (v2)

```
usage: cinder --os-volume-api-version 2 replication-reenable <volume>
```

Sync the secondary volume with primary for a relationship.

Positional arguments

<volume>

Name or ID of the volume to reenable replication. The replication-status of the volume should be inactive.

4.4.69. cinder reset-state (v2)

```
usage: cinder --os-volume-api-version 2 reset-state [--state <state>]
[--attach-status <attach-status>]
                           [--reset-migration-status]
                           <volume> [<volume> ...]
```

Explicitly updates the volume state in the Cinder database. Note that this does not affect whether the volume is actually attached to the Nova compute host or instance and can result in an unusable volume. Being a database change only, this has no impact on the true state of the volume and may not match the actual state. This can render a volume unusable in the case of change to the 'available' state.

Positional arguments

<volume>

Name or ID of volume to modify.

Optional arguments

--state <state>

The state to assign to the volume. Valid values are "available", "error", "creating", "deleting", "in-use", "attaching", "detaching", "error_deleting" and "maintenance". NOTE: This command simply changes the state of the Volume in the DataBase with no regard to actual status, exercise caution when using. Default=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.

4.4.70. cinder retype (v2)

```
usage: cinder --os-volume-api-version 2 retype [--migration-policy
<never|on-demand>]
                    <volume> <volume-type>
```

Changes the volume type for a volume.

Positional arguments

<volume>

Name or ID of volume for which to modify type.

<volume-type>

New volume type.

Optional arguments

--migration-policy <never|on-demand>

Migration policy during retype of volume.

4.4.71. cinder service-disable (v2)

```
usage: cinder --os-volume-api-version 2 service-disable [--reason
<reason>] <hostname> <binary>
```

Disables the service.

Positional arguments

<hostname>

Host name.

<binary>

Service binary.

Optional arguments

--reason <reason>

Reason for disabling service.

4.4.72. cinder service-enable (v2)

```
usage: cinder --os-volume-api-version 2 service-enable <hostname>
<binary>
```

Enables the service.

Positional arguments

<hostname>

Host name.

<binary>

Service binary.

4.4.73. cinder service-list (v2)

```
usage: cinder --os-volume-api-version 2 service-list [--host
<hostname>] [--binary <binary>]
                                [--withreplication [<True|False>]]
```

Lists all services. Filter by host and service binary.

Optional arguments

--host <hostname>

Host name. Default=None.

--binary <binary>

Service binary. Default=None.

--withreplication [<True|False>]

Enables or disables display of Replication info for
c-vol services. Default=False.

4.4.74. cinder set-bootable (v2)

```
usage: cinder --os-volume-api-version 2 set-bootable <volume>
<True|true|False|false>
```

Update bootable status of a volume.

Positional arguments

<volume>

ID of the volume to update.

<True|true|False|false>

Flag to indicate whether volume is bootable.

4.4.75. cinder show (v2)

```
usage: cinder --os-volume-api-version 2 show <volume>
```

Shows volume details.

Positional arguments

<volume>

Name or ID of volume.

4.4.76. cinder snapshot-create (v2)

```
usage: cinder --os-volume-api-version 2 snapshot-create [--force
[<True|False>]] [--name <name>]
                              [--description <description>]
                              [--metadata [<key=value> [<key=value>
...]]]
                              <volume>
```

Creates a snapshot.

Positional arguments

<volume>

Name or ID of volume to snapshot.

Optional arguments

--force [<True|False>]

Allows or disallows snapshot of a volume when the
volume is attached to an instance. If set to True,
ignores the current status of the volume when
attempting to snapshot it rather than forcing it to be
available. Default=False.

--name <name>

Snapshot name. Default=None.

--description <description>

Snapshot description. Default=None.

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

Snapshot metadata key and value pairs. Default=None.

4.4.77. cinder snapshot-delete (v2)

```
usage: cinder --os-volume-api-version 2 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.

4.4.78. cinder snapshot-list (v2)

```
usage: cinder --os-volume-api-version 2 snapshot-list [--all-tenants
[<0|1>]] [--name <name>]
                                 [--status <status>] [--volume-id <volume-
id>]
                                 [--marker <marker>] [--limit <limit>]
                                 [--sort <key>[:<direction>]] [--tenant
[<tenant>]]
```

Lists all snapshots.

Optional arguments

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

Shows details for all tenants. Admin only.

--name <name>

Filters results by a name. Default=None.

--status <status>

Filters results by a status. Default=None.

--volume-id <volume-id>

Filters results by a volume ID. Default=None.

--marker <marker>

> Begin returning snapshots that appear later in the
> snapshot list than that represented by this id.
> Default=None.

--limit <limit>

> Maximum number of snapshots to return. Default=None.

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

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

--tenant [<tenant>]

> Display information from single tenant (Admin only).

4.4.79. cinder snapshot-manage (v2)

```
usage: cinder --os-volume-api-version 2 snapshot-manage [--id-type <id-
type>] [--name <name>]
                                [--description <description>]
                                [--metadata [<key=value> [<key=value>
...]]]
                                <volume> <identifier>
```

Manage an existing snapshot.

Positional arguments

<volume>

> Cinder volume already exists in volume backend

<identifier>

> Name or other Identifier for existing snapshot

Optional arguments

--id-type <id-type>

Type of backend device identifier provided, typically
source-name or source-id (Default=source-name)

--name <name>

Snapshot name (Default=None)

--description <description>

Snapshot description (Default=None)

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

Metadata key=value pairs (Default=None)

4.4.80. cinder snapshot-manageable-list (v2)

```
usage: cinder --os-volume-api-version 2 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: id,
status, size, availability_zone, name, bootable,
created_at, reference. Default=None.

4.4.81. cinder snapshot-metadata (v2)

```
usage: cinder --os-volume-api-version 2 snapshot-metadata <snapshot>
<action> <key=value>
                             [<key=value> ...]
```

Sets or deletes snapshot metadata.

Positional arguments

<snapshot>

ID of snapshot for which to update metadata.

<action>

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

<key=value>

Metadata key and value pair to set or unset. For unset, specify only the key.

4.4.82. cinder snapshot-metadata-show (v2)

```
usage: cinder --os-volume-api-version 2 snapshot-metadata-show
<snapshot>
```

Shows snapshot metadata.

Positional arguments

<snapshot>

ID of snapshot.

4.4.83. cinder snapshot-metadata-update-all (v2)

```
usage: cinder --os-volume-api-version 2 snapshot-metadata-update-all
<snapshot> <key=value>
                                            [<key=value> ...]
```

Updates snapshot metadata.

Positional arguments

<snapshot>

ID of snapshot for which to update metadata.

<key=value>

Metadata key and value pair to update.

4.4.84. cinder snapshot-rename (v2)

```
usage: cinder --os-volume-api-version 2 snapshot-rename [--description
<description>]
                                        <snapshot> [<name>]
```

Renames a snapshot.

Positional arguments

`<snapshot>`

Name or ID of snapshot.

`<name>`

New name for snapshot.

Optional arguments

`--description <description>`

Snapshot description. Default=None.

4.4.85. cinder snapshot-reset-state (v2)

```
usage: cinder --os-volume-api-version 2 snapshot-reset-state [--state
<state>]
                                    <snapshot> [<snapshot> ...]
```

Explicitly updates the snapshot state.

Positional arguments

`<snapshot>`

Name or ID of snapshot to modify.

Optional arguments

`--state <state>`

The state to assign to the snapshot. Valid values are
"available", "error", "creating", "deleting", and
"error_deleting". NOTE: This command simply changes the
state of the Snapshot in the DataBase with no regard to
actual status, exercise caution when using.
Default=available.

4.4.86. cinder snapshot-show (v2)

```
usage: cinder --os-volume-api-version 2 snapshot-show <snapshot>
```

Shows snapshot details.

Positional arguments

<snapshot>

Name or ID of snapshot.

4.4.87. cinder snapshot-unmanage (v2)

```
usage: cinder --os-volume-api-version 2 snapshot-unmanage <snapshot>
```

Stop managing a snapshot.

Positional arguments

<snapshot>

Name or ID of the snapshot to unmanage.

4.4.88. cinder thaw-host (v2)

```
usage: cinder --os-volume-api-version 2 thaw-host <hostname>
```

Thaw and enable the specified cinder-volume host.

Positional arguments

<hostname>

Host name.

4.4.89. cinder transfer-accept (v2)

```
usage: cinder --os-volume-api-version 2 transfer-accept <transfer>
<auth_key>
```

Accepts a volume transfer.

Positional arguments

`<transfer>`

ID of transfer to accept.

`<auth_key>`

Authentication key of transfer to accept.

4.4.90. cinder transfer-create (v2)

```
usage: cinder --os-volume-api-version 2 transfer-create [--name <name>]
<volume>
```

Creates a volume transfer.

Positional arguments

`<volume>`

Name or ID of volume to transfer.

Optional arguments

`--name <name>`

Transfer name. Default=None.

4.4.91. cinder transfer-delete (v2)

```
usage: cinder --os-volume-api-version 2 transfer-delete <transfer>
```

Undoes a transfer.

Positional arguments

`<transfer>`

Name or ID of transfer to delete.

4.4.92. cinder transfer-list (v2)

```
usage: cinder --os-volume-api-version 2 transfer-list [--all-tenants
[<0|1>]]
```

Lists all transfers.

Optional arguments

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

Shows details for all tenants. Admin only.

4.4.93. cinder transfer-show (v2)

```
usage: cinder --os-volume-api-version 2 transfer-show <transfer>
```

Shows transfer details.

Positional arguments

<transfer>

Name or ID of transfer to accept.

4.4.94. cinder type-access-add (v2)

```
usage: cinder --os-volume-api-version 2 type-access-add --volume-type
<volume_type> --project-id
                                <project_id>
```

Adds volume type access for the given project.

Optional arguments

--volume-type <volume_type>

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

--project-id <project_id>

Project ID to add volume type access for.

4.4.95. cinder type-access-list (v2)

```
usage: cinder --os-volume-api-version 2 type-access-list --volume-type
<volume_type>
```

Print access information about the given volume type.

Optional arguments

--volume-type <volume_type>

Filter results by volume type name or ID.

4.4.96. cinder type-access-remove (v2)

```
usage: cinder --os-volume-api-version 2 type-access-remove --volume-
type <volume_type> --project-id
                                <project_id>
```

Removes volume type access for the given project.

Optional arguments

--volume-type <volume_type>

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

--project-id <project_id>

Project ID to remove volume type access for.

4.4.97. cinder type-create (v2)

```
usage: cinder --os-volume-api-version 2 type-create [--description
<description>]
                                [--is-public <is-public>]
                                <name>
```

Creates a volume type.

Positional arguments

<name>

Name of new volume type.

Optional arguments

--description <description>

Description of new volume type.

--is-public <is-public>

Make type accessible to the public (default true).

4.4.98. cinder type-default (v2)

```
usage: cinder --os-volume-api-version 2 type-default
```

List the default volume type.

4.4.99. cinder type-delete (v2)

```
usage: cinder --os-volume-api-version 2 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.

4.4.100. cinder type-key (v2)

```
usage: cinder --os-volume-api-version 2 type-key <vtype> <action>
<key=value> [<key=value> ...]
```

Sets or unsets extra_spec for a volume type.

Positional arguments

<vtype>

Name or ID of volume type.

<action>

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

<key=value>

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

4.4.101. cinder type-list (v2)

```
usage: cinder --os-volume-api-version 2 type-list
```

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

4.4.102. cinder type-show (v2)

```
usage: cinder --os-volume-api-version 2 type-show <volume_type>
```

Show volume type details.

Positional arguments

<volume_type>

Name or ID of the volume type.

4.4.103. cinder type-update (v2)

```
usage: cinder --os-volume-api-version 2 type-update [--name <name>] [--
description <description>]
                         [--is-public <is-public>]
                         <id>
```

Updates volume type name, description, and/or is_public.

Positional arguments

<id>

ID of the volume type.

Optional arguments

--name <name>

Name of the volume type.

--description <description>

Description of the volume type.

--is-public <is-public>

Make type accessible to the public or not.

4.4.104. cinder unmanage (v2)

```
usage: cinder --os-volume-api-version 2 unmanage <volume>
```

Stop managing a volume.

Positional arguments

<volume>

Name or ID of the volume to unmanage.

4.4.105. cinder upload-to-image (v2)

```
usage: cinder --os-volume-api-version 2 upload-to-image [--force
[<True|False>]]
                                [--container-format <container-format>]
                                [--disk-format <disk-format>]
                                <volume> <image-name>
```

Uploads volume to Image Service as an image.

Positional arguments

<volume>

Name or ID of volume to snapshot.

`<image-name>`

The new image name.

Optional arguments

`--force [<True|False>]`

Enables or disables upload of a volume that is
attached to an instance. Default=False. 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.

CHAPTER 5. COMPUTE SERVICE COMMAND-LINE CLIENT

The **nova** client is the command-line interface (CLI) for the OpenStack Compute API and its extensions. This chapter documents **nova** version **6.0.0**.

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

```
$ nova help COMMAND
```

5.1. 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>]
            [--bypass-url <bypass-url>] [--insecure]
            [--os-cacert <ca-certificate>] [--os-cert <certificate>]
            [--os-key <key>] [--timeout <seconds>] [--os-auth-type
<name>]
            [--os-auth-url OS_AUTH_URL] [--os-domain-id OS_DOMAIN_ID]
            [--os-domain-name OS_DOMAIN_NAME] [--os-project-id
OS_PROJECT_ID]
            [--os-project-name OS_PROJECT_NAME]
            [--os-project-domain-id OS_PROJECT_DOMAIN_ID]
            [--os-project-domain-name OS_PROJECT_DOMAIN_NAME]
            [--os-trust-id OS_TRUST_ID]
            [--os-default-domain-id OS_DEFAULT_DOMAIN_ID]
            [--os-default-domain-name OS_DEFAULT_DOMAIN_NAME]
            [--os-user-id OS_USER_ID] [--os-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

absolute-limits

DEPRECATED, use limits instead.

add-fixed-ip

Add new IP address on a network to server.

add-floating-ip

DEPRECATED, use floating-ip-associate instead.

add-secgroup

Add a Security Group to a server.

agent-create

Create new agent build.

agent-delete

Delete existing agent build.

agent-list

List all builds.

agent-modify

Modify existing agent build.

aggregate-add-host

Add the host to the specified aggregate.

aggregate-create

Create a new aggregate with the specified details.

aggregate-delete

Delete the aggregate.

aggregate-details

DEPRECATED, use aggregate-show instead.

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.

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.

credentials

Show user credentials returned from auth.

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.

endpoints

Discover endpoints that get returned from the authenticate services.

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.

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-list

List all hosts by service.

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.

`interface-attach`

> Attach a network interface to a server.

`interface-detach`

> Detach a network interface from a server.

`interface-list`

> List interfaces attached to a server.

`keypair-add`

> Create a new key pair for use with servers.

`keypair-delete`

> Delete keypair given by its name. (Supported by API versions '2.0' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

`keypair-list`

Print a list of keypairs for a user (Supported by API versions '2.0' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

`keypair-show`

Show details about the given keypair. (Supported by API versions '2.0' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

`limits`

Print rate and absolute limits.

`list`

List active servers.

`list-secgroup`

List Security Group(s) of a server.

`live-migration`

Migrate running server to a new machine.

`live-migration-abort`

Abort an on-going live migration. (Supported by API versions '2.24' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

`live-migration-force-complete`

Force on-going live migration to complete. (Supported by API versions '2.22' - '2.latest') [hint: use '--os-compute-api-version' flag to show help message for proper version]

`lock`

Lock a server. A normal (non-admin) user will not be able to execute actions on a locked server.

meta

Set or delete metadata on a server.

migrate

Migrate a server. The new host will be selected by the scheduler.

network-associate-host

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]

rate-limits

DEPRECATED, use limits instead.

reboot

Reboot a server.

rebuild

Shutdown, re-image, and re-boot a server.

refresh-network

Refresh server network information.

remove-fixed-ip

Remove an IP address from a server.

remove-floating-ip

DEPRECATED, use floating-ip-disassociate
instead.

remove-secgroup

Remove a Security Group from a server.

rename

DEPRECATED, use update instead.

rescue

Reboots a server into rescue mode, which
starts the machine from either the initial
image or a specified image, attaching the
current boot disk as secondary.

reset-network

Reset network of a server.

reset-state

>
> Reset the state of a server.

resize

>
> Resize a server.

resize-confirm

>
> Confirm a previous resize.

resize-revert

>
> Revert a previous resize (and return to the previous VM).

resume

>
> Resume a server.

root-password

>
> *DEPRECATED*, use set-password instead.

scrub

>
> *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 single tag 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 single tag 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.

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.

cell-capacities

> Get cell capacities for all cells or a given
> cell.

cell-show

> Show details of a given cell.

force-delete

> Force delete a server.

restore

> Restore a soft-deleted server.

host-evacuate

Evacuate all instances from failed host.

host-evacuate-live

Live migrate all instances of the specified
host to other available hosts.

host-servers-migrate

Cold migrate all instances off the specified
host to other available hosts.

instance-action

Show an action.

instance-action-list

List actions on a server.

list-extensions

List all the os-api extensions that are
available.

host-meta

Set or Delete metadata on all instances of a
host.

migration-list

Print a list of migrations.

net

DEPRECATED, use tenant-network-show instead.

net-create

DEPRECATED, use tenant-network-create instead.

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.

5.2. 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]`.

`--bypass-url <bypass-url>`

Use this API endpoint instead of the Service
Catalog. Defaults to
`env[NOVACLIENT_BYPASS_URL]`.

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

Authentication type to use

5.3. NOVA ABSOLUTE-LIMITS

```
usage: nova absolute-limits [--tenant [<tenant>]] [--reserved]
```

DEPRECATED, use limits instead.

Optional arguments

--tenant [<tenant>]

Display information from single tenant (Admin only).

--reserved

Include reservations count.

5.4. 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.

5.5. 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.

5.6. 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.

5.7. NOVA AGENT-DELETE

5.7. NOVA AGENT-DELETE

```
usage: nova agent-delete <id>
```

Delete existing agent build.

Positional arguments

<id>

ID of the agent-build.

5.8. NOVA AGENT-LIST

```
usage: nova agent-list [--hypervisor <hypervisor>]
```

List all builds.

Optional arguments

--hypervisor <hypervisor>

Type of hypervisor.

5.9. 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.

5.10. 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.

5.11. 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).

5.12. NOVA AGGREGATE-DELETE

–

```
usage: nova aggregate-delete <aggregate>
```

Delete the aggregate.

Positional arguments

<aggregate>

Name or ID of aggregate to delete.

5.13. NOVA AGGREGATE-DETAILS

```
usage: nova aggregate-details <aggregate>
```

DEPRECATED, use aggregate-show instead.

Positional arguments

<aggregate>

Name or ID of aggregate.

5.14. NOVA AGGREGATE-LIST

```
usage: nova aggregate-list
```

Print a list of all aggregates.

5.15. 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.

5.16. 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.

5.17. NOVA AGGREGATE-SHOW

```
usage: nova aggregate-show <aggregate>
```

Show details of the specified aggregate.

Positional arguments

<aggregate>

Name or ID of aggregate.

5.18. 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.

5.19. NOVA AVAILABILITY-ZONE-LIST

```
usage: nova availability-zone-list
```

List all the availability zones.

5.20. 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.

5.21. NOVA BAREMETAL-INTERFACE-LIST

```
usage: nova baremetal-interface-list <node>
```

DEPRECATED: List network interfaces associated with a baremetal node.

Positional arguments

<node>

ID of node

5.22. NOVA BAREMETAL-NODE-LIST

```
usage: nova baremetal-node-list
```

DEPRECATED: Print list of available baremetal nodes.

5.23. NOVA BAREMETAL-NODE-SHOW

```
usage: nova baremetal-node-show <node>
```

DEPRECATED: Show information about a baremetal node.

Positional arguments

<node>

ID of node

5.24. 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')

5.25. 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.

5.26. NOVA CELL-SHOW

```
usage: nova cell-show <cell-name>
```

Show details of a given cell.

Positional arguments

<cell-name>

Name of the cell.

5.27. 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.

5.28. 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.

5.29. 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.

5.30. NOVA CLOUDPIPE-LIST

```
usage: nova cloudpipe-list
```

Print a list of all cloudpipe instances.

5.31. 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.

5.32. NOVA CREDENTIALS

```
usage: nova credentials [--wrap <integer>]
```

Show user credentials returned from auth.

Optional arguments

--wrap <integer>

Wrap PKI tokens to a specified length, or 0 to disable.

5.33. 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).

5.34. NOVA DIAGNOSTICS

```
usage: nova diagnostics <server>
```

Retrieve server diagnostics.

Positional arguments

<server>

>
> Name or ID of server.

5.35. NOVA DNS-CREATE

```
usage: nova dns-create [--type <type>] <ip> <name> <domain>
```

DEPRECATED: Create a DNS entry for domain, name, and IP.

Positional arguments

<ip>

>
> IP address.

<name>

>
> DNS name.

<domain>

DNS domain.

Optional arguments

--type <type> DNS

type (e.g. "A")

5.36. NOVA DNS-CREATE-PRIVATE-DOMAIN

```
usage: nova dns-create-private-domain
                                      [--availability-zone
<availability-zone>]
                                      <domain>
```

DEPRECATED: Create the specified DNS domain.

Positional arguments

<domain>

DNS domain.

Optional arguments

--availability-zone <availability-zone>

Limit access to this domain to servers in the
specified availability zone.

5.37. NOVA DNS-CREATE-PUBLIC-DOMAIN

```
usage: nova dns-create-public-domain [--project <project>] <domain>
```

DEPRECATED: Create the specified DNS domain.

Positional arguments

<domain>

DNS domain.

Optional arguments

`--project <project>`

> Limit access to this domain to users of the specified project.

5.38. NOVA DNS-DELETE

```
usage: nova dns-delete <domain> <name>
```

DEPRECATED: Delete the specified DNS entry.

Positional arguments

`<domain>`

> DNS domain.

`<name>`

> DNS name.

5.39. NOVA DNS-DELETE-DOMAIN

```
usage: nova dns-delete-domain <domain>
```

DEPRECATED: Delete the specified DNS domain.

Positional arguments

`<domain>`

> DNS domain.

5.40. NOVA DNS-DOMAINS

```
usage: nova dns-domains
```

DEPRECATED: Print a list of available dns domains.

5.41. NOVA DNS-LIST

```
usage: nova dns-list [--ip <ip>] [--name <name>] <domain>
```

DEPRECATED: List current DNS entries for domain and IP or domain and name.

Positional arguments

<domain>

DNS domain.

Optional arguments

--ip <ip> IP

address.

--name <name> DNS

name.

5.42. NOVA ENDPOINTS

```
usage: nova endpoints
```

Discover endpoints that get returned from the authenticate services.

5.43. 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')

5.44. NOVA FIXED-IP-GET

```
usage: nova fixed-ip-get <fixed_ip>
```

DEPRECATED: Retrieve info on a fixed IP.

Positional arguments

<fixed_ip>

> Fixed IP Address.

5.45. NOVA FIXED-IP-RESERVE

```
usage: nova fixed-ip-reserve <fixed_ip>
```

DEPRECATED: Reserve a fixed IP.

Positional arguments

<fixed_ip>

Fixed IP Address.

5.46. NOVA FIXED-IP-UNRESERVE

```
usage: nova fixed-ip-unreserve <fixed_ip>
```

DEPRECATED: Unreserve a fixed IP.

Positional arguments

<fixed_ip>

Fixed IP Address.

5.47. 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.

5.48. 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.)

5.49. 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.

5.50. NOVA FLAVOR-CREATE

```
usage: nova flavor-create [--ephemeral <ephemeral>] [--swap <swap>]
                          [--rxtx-factor <factor>] [--is-public <is-
public>]
                          <name> <id> <ram> <disk> <vcpus>
```

Create a new flavor.

Positional arguments

<name>

Unique name of the new flavor.

<id>

Unique ID of the new flavor. Specifying 'auto' will
generated a UUID for the ID.

`<ram>`

Memory size in MB.

`<disk>`

Disk size in GB.

`<vcpus>`

Number of vcpus

Optional arguments

`--ephemeral <ephemeral>`

Ephemeral space size in GB (default 0).

`--swap <swap>`

Swap space size in MB (default 0).

`--rxtx-factor <factor>`

RX/TX factor (default 1).

`--is-public <is-public>`

Make flavor accessible to the public (default
true).

5.51. NOVA FLAVOR-DELETE

```
usage: nova flavor-delete <flavor>
```

Delete a specific flavor

Positional arguments

<flavor>

Name or ID of the flavor to delete.

5.52. 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).

5.53. NOVA FLAVOR-LIST

```
usage: nova flavor-list [--extra-specs] [--all] [--marker <marker>]
                        [--limit <limit>]
```

Print a list of available 'flavors' (sizes of servers).

Optional arguments

--extra-specs

Get extra-specs of each flavor.

--all

Display all flavors (Admin only).

--marker <marker>

The last flavor ID of the previous page; displays list of
flavors after "marker".

--limit <limit>

Maximum number of flavors to display. If limit == -1, all
flavors will be displayed. If limit is bigger than
'osapi_max_limit' option of Nova API, limit
'osapi_max_limit' will be used instead.

5.54. NOVA FLAVOR-SHOW

```
usage: nova flavor-show <flavor>
```

Show details about the given flavor.

Positional arguments

<flavor>

Name or ID of flavor.

5.55. 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.

5.56. NOVA FLOATING-IP-BULK-CREATE

```
usage: nova floating-ip-bulk-create [--pool <pool>] [--interface
<interface>]
                                            <range>
```

DEPRECATED: Bulk create floating IPs by range (nova-network only).

Positional arguments

<range>

Address range to create.

Optional arguments

--pool <pool>

Pool for new Floating IPs.

--interface <interface>

Interface for new Floating IPs.

5.57. NOVA FLOATING-IP-BULK-DELETE

```
usage: nova floating-ip-bulk-delete <range>
```

DEPRECATED: Bulk delete floating IPs by range (nova-network only).

Positional arguments

<range>

Address range to delete.

5.58. NOVA FLOATING-IP-BULK-LIST

```
usage: nova floating-ip-bulk-list [--host <host>]
```

DEPRECATED: List all floating IPs (nova-network only).

Optional arguments

--host <host>

Filter by host.

5.59. NOVA FLOATING-IP-CREATE

```
usage: nova floating-ip-create [<floating-ip-pool>]
```

DEPRECATED: Allocate a floating IP for the current tenant.

Positional arguments

<floating-ip-pool>

Name of Floating IP Pool. (Optional)

5.60. NOVA FLOATING-IP-DELETE

```
usage: nova floating-ip-delete <address>
```

DEPRECATED: De-allocate a floating IP.

Positional arguments

<address>

IP of Floating IP.

5.61. 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.

5.62. NOVA FLOATING-IP-LIST

```
usage: nova floating-ip-list
```

DEPRECATED: List floating IPs.

5.63. NOVA FLOATING-IP-POOL-LIST

```
usage: nova floating-ip-pool-list
```

DEPRECATED: List all floating IP pools.

5.64. NOVA FORCE-DELETE

```
usage: nova force-delete <server>
```

Force delete a server.

Positional arguments

<server>

Name or ID of server.

5.65. 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.

5.66. 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.

5.67. 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").

5.68. 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".

5.69. 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").

5.70. 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").

5.71. 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.

5.72. NOVA HOST-DESCRIBE

```
usage: nova host-describe <hostname>
```

Describe a specific host.

Positional arguments

<hostname>

Name of host.

5.73. 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')

5.74. 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')

5.75. 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>.

5.76. 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)

5.77. 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.

5.78. 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.

5.79. 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 == -1, all hypervisors will be displayed. If limit is bigger than 'osapi_max_limit' option of Nova API, limit 'osapi_max_limit' will be used instead.

5.80. 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.

5.81. 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

5.82. 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.

5.83. 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.

5.84. NOVA IMAGE-CREATE

```
usage: nova image-create [--metadata <key=value>] [--show] [--poll]
                         <server> <name>
```

Create a new image by taking a snapshot of a running server.

Positional arguments

<server>

Name or ID of server.

<name>

Name of snapshot.

Optional arguments

--metadata <key=value>

> Record arbitrary key/value metadata to /meta_data.json on the metadata server. Can be specified multiple times.

--show

> Print image info.

--poll

> Report the snapshot progress and poll until image creation is complete.

5.85. NOVA IMAGE-DELETE

```
usage: nova image-delete <image> [<image> ...]
```

DEPRECATED: Delete specified image(s).

Positional arguments

<image>

> Name or ID of image(s).

5.86. NOVA IMAGE-LIST

```
usage: nova image-list [--limit <limit>]
```

DEPRECATED: Print a list of available images to boot from.

Optional arguments

--limit <limit>

> Number of images to return per request.

5.87. NOVA IMAGE-META

```
usage: nova image-meta <image> <action> <key=value> [<key=value> ...]
```

DEPRECATED: Set or delete metadata on an image.

Positional arguments

<image>

Name or ID of image.

<action>

Actions: 'set' or 'delete'.

<key=value>

Metadata to add/update or delete (only key is necessary on delete).

5.88. NOVA IMAGE-SHOW

```
usage: nova image-show <image>
```

DEPRECATED: Show details about the given image.

Positional arguments

<image>

Name or ID of image.

5.89. 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.

5.90. 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')

5.91. 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.

5.92. 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.

5.93. NOVA INTERFACE-LIST

```
usage: nova interface-list <server>
```

List interfaces attached to a server.

Positional arguments

<server>

Name or ID of server.

5.94. 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')

5.95. 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).

5.96. 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 == -1, all keypairs will be displayed. If limit is bigger than 'osapi_max_limit' option of Nova API, limit 'osapi_max_limit' will be used instead.

5.97. 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).

5.98. 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.

5.99. NOVA LIST

```
usage: nova list [--reservation-id <reservation-id>] [--ip <ip-regexp>]
                 [--ip6 <ip6-regexp>] [--name <name-regexp>]
                 [--instance-name <name-regexp>] [--status <status>]
                 [--flavor <flavor>] [--image <image>] [--host
<hostname>]
                 [--all-tenants [<0|1>]] [--tenant [<tenant>]]
                 [--user [<user>]] [--deleted] [--fields <fields>] [--
minimal]
                 [--sort <key>[:<direction>]] [--marker <marker>]
                 [--limit <limit>] [--changes-since <changes_since>]
                 [--tags <tags>] [--tags-any <tags-any>]
                 [--not-tags <not-tags>] [--not-tags-any <not-tags-
any>]
```

List active servers.

Optional arguments

`--reservation-id <reservation-id>`

Only return servers that match reservation-id.

`--ip <ip-regexp>`

Search with regular expression match by IP address.

`--ip6 <ip6-regexp>`

Search with regular expression match by IPv6 address.

`--name <name-regexp>`

Search with regular expression match by name.

`--instance-name <name-regexp>`

Search with regular expression match by server name.

`--status <status>`

Search by server status.

`--flavor <flavor>`

Search by flavor name or ID.

`--image <image>`

Search by image name or ID.

`--host <hostname>`

Search servers by hostname to which they are assigned (Admin only).

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

Display information from all tenants (Admin only).

--tenant [<tenant>]

Display information from single tenant (Admin only).

--user [<user>]

Display information from single user (Admin only).

--deleted

Only display deleted servers (Admin only).

--fields <fields>

Comma-separated list of fields to display. Use the show command to see which fields are available.

--minimal

Get only UUID and name.

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

Comma-separated list of sort keys and directions in the form of <key>[:<asc|desc>]. The direction defaults to descending if not specified.

--marker <marker>

The last server UUID of the previous page; displays list of servers after "marker".

--limit <limit>

Maximum number of servers to display. If limit == -1, all servers will be displayed. If limit is bigger than 'osapi_max_limit' option of Nova API, limit 'osapi_max_limit' will be used instead.

`--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 willbe 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 tagswill 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')

5.100. NOVA LIST-EXTENSIONS

```
usage: nova list-extensions
```

List all the os-api extensions that are available.

5.101. NOVA LIST-SECGROUP

```
usage: nova list-secgroup <server>
```

List Security Group(s) of a server.

Positional arguments

<server>

Name or ID of server.

5.102. 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')

5.103. 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.

5.104. 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.

5.105. 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.

5.106. 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).

5.107. 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.

5.108. 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.

5.109. NOVA NET

```
usage: nova net <network_id>
```

DEPRECATED, use tenant-network-show instead.

Positional arguments

`<network_id>`

ID of network

5.110. NOVA NET-CREATE

```
usage: nova net-create <network_label> <cidr>
```

DEPRECATED, use tenant-network-create instead.

Positional arguments

<network_label>

Network label (ex. my_new_network)

<cidr>

IP block to allocate from (ex. 172.16.0.0/24 or
2001:DB8::/64)

5.111. NOVA NET-DELETE

```
usage: nova net-delete <network_id>
```

DEPRECATED, use tenant-network-delete instead.

Positional arguments

<network_id>

ID of network

5.112. NOVA NET-LIST

```
usage: nova net-list
```

DEPRECATED, use tenant-network-list instead.

5.113. NOVA NETWORK-ASSOCIATE-HOST

```
usage: nova network-associate-host <network> <host>
```

DEPRECATED: Associate host with network.

Positional arguments

<network>

UUID of network.

<host>

Name of host

5.114. NOVA NETWORK-ASSOCIATE-PROJECT

```
usage: nova network-associate-project <network>
```

DEPRECATED: Associate project with network.

Positional arguments

<network>

UUID of network.

5.115. NOVA NETWORK-CREATE

```
usage: nova network-create [--fixed-range-v4 <x.x.x.x/yy>]
                           [--fixed-range-v6 CIDR_V6] [--vlan <vlan
id>]
                           [--vlan-start <vlan start>] [--vpn <vpn
start>]
                           [--gateway GATEWAY] [--gateway-v6
GATEWAY_V6]
                           [--bridge <bridge>]
                           [--bridge-interface <bridge interface>]
                           [--multi-host <'T'|'F'>] [--dns1 <DNS
Address>]
                           [--dns2 <DNS Address>] [--uuid <network
uuid>]
                           [--fixed-cidr <x.x.x.x/yy>]
                           [--project-id <project id>] [--priority
<number>]
                           [--mtu MTU] [--enable-dhcp <'T'|'F'>]
                           [--dhcp-server DHCP_SERVER]
```

```
                                    [--share-address <'T'|'F'>]
                                    [--allowed-start ALLOWED_START]
                                    [--allowed-end ALLOWED_END]
                                    <network_label>
```

DEPRECATED: Create a network.

Positional arguments

<network_label>

Label for network

Optional arguments

--fixed-range-v4 <x.x.x.x/yy>

IPv4 subnet (ex: 10.0.0.0/8)

--fixed-range-v6

CIDR_V6   IPv6 subnet (ex: fe80::/64

--vlan <vlan id>

The vlan ID to be assigned to the project.

--vlan-start <vlan start>

First vlan ID to be assigned to the project.
Subsequent vlan IDs will be assigned
incrementally.

--vpn <vpn start>

vpn start

--gateway GATEWAY

gateway

--gateway-v6

GATEWAY_V6   IPv6 gateway

--bridge <bridge>

VIFs on this network are connected to this
bridge.

--bridge-interface <bridge interface>

The bridge is connected to this interface.

--multi-host <'T'|'F'>

Multi host

--dns1 <DNS Address>

First DNS.

--dns2 <DNS Address>

Second DNS.

--uuid <network uuid>

Network UUID.

--fixed-cidr <x.x.x.x/yy>

IPv4 subnet for fixed IPs (ex: 10.20.0.0/16).

--project-id <project id>

Project ID.

--priority <number>

Network interface priority.

```
--mtu MTU MTU
```

for network.

```
--enable-dhcp <'T'|'F'>
```

Enable DHCP.

```
--dhcp-server DHCP_SERVER
```

DHCP-server address (defaults to gateway address)

```
--share-address <'T'|'F'>
```

Share address

```
--allowed-start ALLOWED_START
```

Start of allowed addresses for instances.

```
--allowed-end ALLOWED_END
```

End of allowed addresses for instances.

5.116. NOVA NETWORK-DELETE

```
usage: nova network-delete <network>
```

DEPRECATED: Delete network by label or id.

Positional arguments

```
<network>
```

UUID or label of network.

5.117. NOVA NETWORK-DISASSOCIATE

```
usage: nova network-disassociate [--host-only [<0|1>]]
                                 [--project-only [<0|1>]]
                                 <network>
```

DEPRECATED: Disassociate host and/or project from the given network.

Positional arguments

<network>

UUID of network.

Optional arguments

--host-only [<0|1>]

--project-only [<0|1>]

5.118. NOVA NETWORK-LIST

```
usage: nova network-list [--fields <fields>]
```

DEPRECATED: Print a list of available networks.

Optional arguments

--fields <fields>

Comma-separated list of fields to display. Use the show command to see which fields are available.

5.119. NOVA NETWORK-SHOW

```
usage: nova network-show <network>
```

DEPRECATED: Show details about the given network.

Positional arguments

<network>

UUID or label of network.

5.120. NOVA PAUSE

```
usage: nova pause <server>
```

Pause a server.

Positional arguments

<server>

Name or ID of server.

5.121. 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.

5.122. 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.

5.123. 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.

5.124. 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.

5.125. 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).

5.126. 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.

5.127. NOVA RATE-LIMITS

```
usage: nova rate-limits
```

DEPRECATED, use limits instead.

5.128. 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.

5.129. 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

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.

5.130. 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).

5.131. 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.

5.132. 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.

5.133. NOVA RENAME

```
usage: nova rename <server> <name>
```

DEPRECATED, use update instead.

Positional arguments

<server>

Name (old name) or ID of server.

<name>

New name for the server.

5.134. 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.

5.135. NOVA RESET-NETWORK

```
usage: nova reset-network <server>
```

Reset network of a server.

Positional arguments

<server>

Name or ID of server.

5.136. 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).

5.137. 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.

5.138. NOVA RESIZE-CONFIRM

```
usage: nova resize-confirm <server>
```

Confirm a previous resize.

Positional arguments

<server>

Name or ID of server.

5.139. 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.

5.140. NOVA RESTORE

```
usage: nova restore <server>
```

Restore a soft-deleted server.

Positional arguments

<server>

Name or ID of server.

5.141. NOVA RESUME

```
usage: nova resume <server>
```

Resume a server.

Positional arguments

<server>

Name or ID of server.

5.142. NOVA ROOT-PASSWORD

```
usage: nova root-password <server>
```

DEPRECATED, use set-password instead.

Positional arguments

<server>

Name or ID of server.

5.143. NOVA SCRUB

```
usage: nova scrub <project_id>
```

DEPRECATED: Delete networks and security groups associated with a project.

Positional arguments

<project_id>

The ID of the project.

5.144. NOVA SECGROUP-ADD-DEFAULT-RULE

```
usage: nova secgroup-add-default-rule <ip-proto> <from-port> <to-port>
<cidr>
```

DEPRECATED: Add a rule to the set of rules that will be added to the 'default' security group for new
tenants (nova-network only).

Positional arguments

`<ip-proto>`

IP protocol (icmp, tcp, udp).

`<from-port>`

Port at start of range.

`<to-port>`

Port at end of range.

`<cidr>`

CIDR for address range.

5.145. NOVA SECGROUP-ADD-GROUP-RULE

```
usage: nova secgroup-add-group-rule <secgroup> <source-group> <ip-
proto>
                                    <from-port> <to-port>
```

DEPRECATED: Add a source group rule to a security group.

Positional arguments

`<secgroup>`

ID or name of security group.

`<source-group>`

ID or name of source group.

`<ip-proto>`

IP protocol (icmp, tcp, udp).

`<from-port>`

Port at start of range.

<to-port>

Port at end of range.

5.146. NOVA SECGROUP-ADD-RULE

```
usage: nova secgroup-add-rule <secgroup> <ip-proto> <from-port> <to-
port>
                                <cidr>
```

DEPRECATED: Add a rule to a security group.

Positional arguments

<secgroup>

ID or name of security group.

<ip-proto>

IP protocol (icmp, tcp, udp).

<from-port>

Port at start of range.

<to-port>

Port at end of range.

<cidr>

CIDR for address range.

5.147. NOVA SECGROUP-CREATE

```
usage: nova secgroup-create <name> <description>
```

DEPRECATED: Create a security group.

Positional arguments

<name>

Name of security group.

<description>

Description of security group.

5.148. NOVA SECGROUP-DELETE

```
usage: nova secgroup-delete <secgroup>
```

DEPRECATED: Delete a security group.

Positional arguments

<secgroup>

ID or name of security group.

5.149. NOVA SECGROUP-DELETE-DEFAULT-RULE

```
usage: nova secgroup-delete-default-rule <ip-proto> <from-port> <to-
port>
                                         <cidr>
```

DEPRECATED: Delete a rule from the set of rules that will be added to the 'default' security group for new tenants (nova-network only).

Positional arguments

<ip-proto>

IP protocol (icmp, tcp, udp).

<from-port>

Port at start of range.

<to-port>

Port at end of range.

<cidr>

CIDR for address range.

5.150. NOVA SECGROUP-DELETE-GROUP-RULE

```
usage: nova secgroup-delete-group-rule <secgroup> <source-group> <ip-
proto>
                                        <from-port> <to-port>
```

DEPRECATED: Delete a source group rule from a security group.

Positional arguments

<secgroup>

ID or name of security group.

<source-group>

ID or name of source group.

<ip-proto>

IP protocol (icmp, tcp, udp).

<from-port>

Port at start of range.

<to-port>

Port at end of range.

5.151. NOVA SECGROUP-DELETE-RULE

```
usage: nova secgroup-delete-rule <secgroup> <ip-proto> <from-port> <to-
port>
                                 <cidr>
```

DEPRECATED: Delete a rule from a security group.

Positional arguments

<secgroup>

ID or name of security group.

<ip-proto>

IP protocol (icmp, tcp, udp).

<from-port>

Port at start of range.

<to-port>

Port at end of range.

<cidr>

CIDR for address range.

5.152. NOVA SECGROUP-LIST

```
usage: nova secgroup-list [--all-tenants [<0|1>]]
```

DEPRECATED: List security groups for the current tenant.

Optional arguments

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

Display information from all tenants (Admin only).

5.153. NOVA SECGROUP-LIST-DEFAULT-RULES

```
usage: nova secgroup-list-default-rules
```

DEPRECATED: List rules that will be added to the 'default' security group for new tenants.

5.154. NOVA SECGROUP-LIST-RULES

```
usage: nova secgroup-list-rules <secgroup>
```

DEPRECATED: List rules for a security group.

Positional arguments

<secgroup>

ID or name of security group.

5.155. NOVA SECGROUP-UPDATE

```
usage: nova secgroup-update <secgroup> <name> <description>
```

DEPRECATED: Update a security group.

Positional arguments

<secgroup>

ID or name of security group.

<name>

Name of security group.

<description>

Description of security group.

5.156. 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.

5.157. 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.

5.158. 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.

5.159. NOVA SERVER-GROUP-LIST

```
usage: nova server-group-list [--all-projects]
```

Print a list of all server groups.

Optional arguments

--all-projects

Display server groups from all projects (Admin only).

5.160. 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.

5.161. 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.

5.162. NOVA SERVER-TAG-ADD

```
usage: nova server-tag-add <server> <tag>
```

Add single tag 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 to add.

5.163. NOVA SERVER-TAG-DELETE

```
usage: nova server-tag-delete <server> <tag>
```

Delete single tag 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 to delete.

5.164. 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.

5.165. 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.

5.166. 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.

5.167. NOVA SERVICE-DELETE

```
usage: nova service-delete <id>
```

Delete the service.

Positional arguments

<id>

ID of service.

5.168. 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.

5.169. NOVA SERVICE-ENABLE

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

Enable the service.

Positional arguments

<hostname>

Name of host.

<binary>

Service binary.

5.170. 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.

5.171. 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.

5.172. NOVA SET-PASSWORD

```
usage: nova set-password <server>
```

Change the admin password for a server.

Positional arguments

<server>

Name or ID of server.

5.173. NOVA SHELVE

```
usage: nova shelve <server>
```

Shelve a server.

Positional arguments

<server>

Name or ID of server.

5.174. NOVA SHELVE-OFFLOAD

```
usage: nova shelve-offload <server>
```

Remove a shelved server from the compute node.

Positional arguments

<server>

Name or ID of server.

5.175. NOVA SHOW

```
usage: nova show [--minimal] <server>
```

Show details about the given server.

Positional arguments

<server>

Name or ID of server.

Optional arguments

--minimal

Skips flavor/image lookups when showing servers.

5.176. 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.

5.177. 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).

5.178. 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).

5.179. NOVA SUSPEND

```
usage: nova suspend <server>
```

Suspend a server.

Positional arguments

<server>

Name or ID of server.

5.180. NOVA TENANT-NETWORK-CREATE

```
usage: nova tenant-network-create <network_label> <cidr>
```

DEPRECATED: Create a tenant network.

Positional arguments

<network_label>

Network label (ex. my_new_network)

<cidr>

IP block to allocate from (ex. 172.16.0.0/24 or
2001:DB8::/64)

5.181. NOVA TENANT-NETWORK-DELETE

```
usage: nova tenant-network-delete <network_id>
```

DEPRECATED: Delete a tenant network.

Positional arguments

<network_id>

ID of network

5.182. NOVA TENANT-NETWORK-LIST

```
usage: nova tenant-network-list
```

DEPRECATED: List tenant networks.

5.183. NOVA TENANT-NETWORK-SHOW

```
usage: nova tenant-network-show <network_id>
```

DEPRECATED: Show a tenant network.

Positional arguments

<network_id>

ID of network

5.184. 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.

5.185. NOVA UNLOCK

```
usage: nova unlock <server>
```

Unlock a server.

Positional arguments

<server>

Name or ID of server.

5.186. NOVA UNPAUSE

```
usage: nova unpause <server>
```

Unpause a server.

Positional arguments

<server>

Name or ID of server.

5.187. NOVA UNRESCUE

```
usage: nova unrescue <server>
```

Restart the server from normal boot disk again.

Positional arguments

<server>

Name or ID of server.

5.188. NOVA UNSHELVE

```
usage: nova unshelve <server>
```

Unshelve a server.

Positional arguments

<server>

Name or ID of server.

5.189. 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')

5.190. 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.

5.191. 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)

5.192. NOVA VERSION-LIST

```
usage: nova version-list
```

List all API versions.

5.193. NOVA VIRTUAL-INTERFACE-LIST

```
usage: nova virtual-interface-list <server>
```

Show virtual interface info about the given server.

Positional arguments

<server>

ID of server.

5.194. 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.

5.195. NOVA VOLUME-ATTACHMENTS

```
usage: nova volume-attachments <server>
```

List all the volumes attached to a server.

Positional arguments

`<server>`

Name or ID of server.

5.196. 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.

5.197. 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.

5.198. 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]

5.199. 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 6. IDENTITY SERVICE COMMAND-LINE CLIENT

The **keystone-manage** client is the command-line interface (CLI) for the OpenStack Identity API and its extensions. This chapter documents **keystone-manage** version **10.0.0**.

For help on a specific **keystone-manage** command, enter:

```
$ keystone-manage COMMAND --help
```

6.1. KEYSTONE-MANAGE USAGE

```
usage: keystone-manage
[bootstrap|credential_migrate|credential_rotate|credential_setup|db_syn
c|db_version|doctor|domain_config_upload|fernet_rotate|fernet_setup|map
ping_populate|mapping_purge|mapping_engine|pki_setup|saml_idp_metadata|
token_flush]
```

6.2. KEYSTONE-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

`--nostandard-threads`

> The inverse of --standard-threads

`--nouse-syslog`

> The inverse of --use-syslog

`--noverbose`

The inverse of --verbose

--nowatch-log-file

The inverse of --watch-log-file

--pydev-debug-host PYDEV_DEBUG_HOST

Host to connect to for remote debugger.

--pydev-debug-port PYDEV_DEBUG_PORT

Port to connect to for remote debugger.

--standard-threads

Do not monkey-patch threading system modules.

--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.

6.3. KEYSTONE-MANAGE BOOTSTRAP

```
usage: keystone-manage
[bootstrap|credential_migrate|credential_rotate|credential_setup|db_syn
c|db_version|doctor|domain_config_upload|fernet_rotate|fernet_setup|map
ping_populate|mapping_purge|mapping_engine|pki_setup|saml_idp_metadata|
token_flush] bootstrap
        [-h] [--bootstrap-username OS_BOOTSTRAP_USERNAME]
        [--bootstrap-password OS_BOOTSTRAP_PASSWORD]
        [--bootstrap-project-name OS_BOOTSTRAP_PROJECT_NAME]
        [--bootstrap-role-name OS_BOOTSTRAP_ROLE_NAME]
        [--bootstrap-service-name OS_BOOTSTRAP_SERVICE_NAME]
        [--bootstrap-admin-url OS_BOOTSTRAP_ADMIN_URL]
        [--bootstrap-public-url OS_BOOTSTRAP_PUBLIC_URL]
        [--bootstrap-internal-url OS_BOOTSTRAP_INTERNAL_URL]
        [--bootstrap-region-id OS_BOOTSTRAP_REGION_ID]
```

Optional arguments

-h, --help

show this help message and exit

--bootstrap-username OS_BOOTSTRAP_USERNAME

The username of the initial keystone user during
bootstrap process.

--bootstrap-password OS_BOOTSTRAP_PASSWORD

The bootstrap user password

--bootstrap-project-name OS_BOOTSTRAP_PROJECT_NAME

The initial project created during the keystone
bootstrap process.

--bootstrap-role-name OS_BOOTSTRAP_ROLE_NAME

The initial role-name created during the keystone
bootstrap process.

--bootstrap-service-name OS_BOOTSTRAP_SERVICE_NAME

The initial name for the initial identity service
created during the keystone bootstrap process.

--bootstrap-admin-url OS_BOOTSTRAP_ADMIN_URL

The initial identity admin url created during the
keystone bootstrap process. e.g.
http://127.0.0.1:35357/v2.0

--bootstrap-public-url OS_BOOTSTRAP_PUBLIC_URL

The initial identity public url created during the
keystone bootstrap process. e.g.
http://127.0.0.1:5000/v2.0

--bootstrap-internal-url OS_BOOTSTRAP_INTERNAL_URL

The initial identity internal url created during the
keystone bootstrap process. e.g.
http://127.0.0.1:5000/v2.0

--bootstrap-region-id OS_BOOTSTRAP_REGION_ID

The initial region_id endpoints will be placed in
during the keystone bootstrap process.

6.4. KEYSTONE-MANAGE CREDENTIAL_MIGRATE

```
usage: keystone-manage
[bootstrap|credential_migrate|credential_rotate|credential_setup|db_syn
c|db_version|doctor|domain_config_upload|fernet_rotate|fernet_setup|map
ping_populate|mapping_purge|mapping_engine|pki_setup|saml_idp_metadata|
token_flush] credential_migrate
       [-h] [--keystone-user KEYSTONE_USER] [--keystone-group
KEYSTONE_GROUP]
```

Optional arguments

-h, --help

show this help message and exit

--keystone-user KEYSTONE_USER

--keystone-group KEYSTONE_GROUP

6.5. KEYSTONE-MANAGE CREDENTIAL_ROTATE

```
usage: keystone-manage
[bootstrap|credential_migrate|credential_rotate|credential_setup|db_syn
c|db_version|doctor|domain_config_upload|fernet_rotate|fernet_setup|map
ping_populate|mapping_purge|mapping_engine|pki_setup|saml_idp_metadata|
token_flush] credential_rotate
       [-h] [--keystone-user KEYSTONE_USER] [--keystone-group
KEYSTONE_GROUP]
```

Optional arguments

-h, --help

show this help message and exit

--keystone-user KEYSTONE_USER

--keystone-group KEYSTONE_GROUP

6.6. KEYSTONE-MANAGE CREDENTIAL_SETUP

```
usage: keystone-manage
[bootstrap|credential_migrate|credential_rotate|credential_setup|db_syn
c|db_version|doctor|domain_config_upload|fernet_rotate|fernet_setup|map
ping_populate|mapping_purge|mapping_engine|pki_setup|saml_idp_metadata|
token_flush] credential_setup
       [-h] [--keystone-user KEYSTONE_USER] [--keystone-group
KEYSTONE_GROUP]
```

Optional arguments

-h, --help

show this help message and exit

--keystone-user KEYSTONE_USER

--keystone-group KEYSTONE_GROUP

6.7. KEYSTONE-MANAGE DB_SYNC

```
usage: keystone-manage
[bootstrap|credential_migrate|credential_rotate|credential_setup|db_syn
c|db_version|doctor|domain_config_upload|fernet_rotate|fernet_setup|map
ping_populate|mapping_purge|mapping_engine|pki_setup|saml_idp_metadata|
token_flush] db_sync
        [-h] [--extension EXTENSION] [--expand | --migrate | --
contract]
        [version]
```

Positional arguments

version

> Migrate the database up to a specified version. If not
> provided, db_sync will migrate the database to the
> latest known version. Schema downgrades are not
> supported.

Optional arguments

-h, --help

> show this help message and exit

--extension EXTENSION

> This is a deprecated option to migrate a specified
> extension. Since extensions are now part of the main
> repository, specifying db_sync without this option
> will cause all extensions to be migrated.

--expand

> Expand the database schema in preparation for data
> migration.

--migrate

> Copy all data that needs to be migrated within the
> database ahead of starting the first keystone node
> upgraded to the new release. This command should be

run after the --expand command. Once the --migrate
command has completed, you can upgrade all your
keystone nodes to the new release and restart them.

--contract

Remove any database tables and columns that are no
longer required. This command should be run after all
keystone nodes are running the new release.

6.8. KEYSTONE-MANAGE DB_VERSION

```
usage: keystone-manage
[bootstrap|credential_migrate|credential_rotate|credential_setup|db_syn
c|db_version|doctor|domain_config_upload|fernet_rotate|fernet_setup|map
ping_populate|mapping_purge|mapping_engine|pki_setup|saml_idp_metadata|
token_flush] db_version
        [-h] [--extension EXTENSION]
```

Optional arguments

-h, --help

show this help message and exit

--extension EXTENSION

This is a deprecated option to print the version of a
specified extension. Since extensions are now part of
the main repository, the version of an extension is
implicit in the version of the main repository.

6.9. KEYSTONE-MANAGE DOCTOR

```
usage: keystone-manage
[bootstrap|credential_migrate|credential_rotate|credential_setup|db_syn
c|db_version|doctor|domain_config_upload|fernet_rotate|fernet_setup|map
ping_populate|mapping_purge|mapping_engine|pki_setup|saml_idp_metadata|
token_flush] doctor
        [-h]
```

Optional arguments

-h, --help

show this help message and exit

6.10. KEYSTONE-MANAGE DOMAIN_CONFIG_UPLOAD

```
usage: keystone-manage
[bootstrap|credential_migrate|credential_rotate|credential_setup|db_syn
c|db_version|doctor|domain_config_upload|fernet_rotate|fernet_setup|map
ping_populate|mapping_purge|mapping_engine|pki_setup|saml_idp_metadata|
token_flush] domain_config_upload
       [-h] [--all] [--domain-name DOMAIN_NAME]
```

Optional arguments

-h, --help

show this help message and exit

--all

Upload contents of all domain specific configuration
files. Either use this option or use the --domain-name
option to choose a specific domain.

--domain-name DOMAIN_NAME

Upload contents of the specific configuration file for
the given domain. Either use this option or use the
--all option to upload contents for all domains.

6.11. KEYSTONE-MANAGE FERNET_ROTATE

```
usage: keystone-manage
[bootstrap|credential_migrate|credential_rotate|credential_setup|db_syn
c|db_version|doctor|domain_config_upload|fernet_rotate|fernet_setup|map
ping_populate|mapping_purge|mapping_engine|pki_setup|saml_idp_metadata|
token_flush] fernet_rotate
       [-h] [--keystone-user KEYSTONE_USER] [--keystone-group
KEYSTONE_GROUP]
```

Optional arguments

-h, --help

show this help message and exit

--keystone-user KEYSTONE_USER

--keystone-group KEYSTONE_GROUP

6.12. KEYSTONE-MANAGE FERNET_SETUP

```
usage: keystone-manage
[bootstrap|credential_migrate|credential_rotate|credential_setup|db_syn
c|db_version|doctor|domain_config_upload|fernet_rotate|fernet_setup|map
ping_populate|mapping_purge|mapping_engine|pki_setup|saml_idp_metadata|
token_flush] fernet_setup
       [-h] [--keystone-user KEYSTONE_USER] [--keystone-group
KEYSTONE_GROUP]
```

Optional arguments

-h, --help

show this help message and exit

--keystone-user KEYSTONE_USER

--keystone-group KEYSTONE_GROUP

6.13. KEYSTONE-MANAGE MAPPING_ENGINE

```
usage: keystone-manage
[bootstrap|credential_migrate|credential_rotate|credential_setup|db_syn
c|db_version|doctor|domain_config_upload|fernet_rotate|fernet_setup|map
ping_populate|mapping_purge|mapping_engine|pki_setup|saml_idp_metadata|
token_flush] mapping_engine
       [-h] --rules RULES --input INPUT [--prefix PREFIX] [--engine-
debug]
```

Optional arguments

-h, --help

show this help message and exit

--rules RULES

Path to the file with rules to be executed. Content must be
a proper JSON structure, with a top-level key 'rules' and
corresponding value being a list.

--input INPUT

> Path to the file with input attributes. The content
> consists of ':' separated parameter names and their values.
> There is only one key-value pair per line. A ';' in the
> value is a separator and then a value is treated as a list.
> Example: EMAIL: me@example.com LOGIN: me GROUPS:
> group1;group2;group3

--prefix PREFIX A

> prefix used for each environment variable in the
> assertion. For example, all environment variables may have
> the prefix ASDF_.

--engine-debug

> Enable debug messages from the mapping engine.

6.14. KEYSTONE-MANAGE MAPPING_POPULATE

```
usage: keystone-manage
[bootstrap|credential_migrate|credential_rotate|credential_setup|db_syn
c|db_version|doctor|domain_config_upload|fernet_rotate|fernet_setup|map
ping_populate|mapping_purge|mapping_engine|pki_setup|saml_idp_metadata|
token_flush] mapping_populate
        [-h] --domain-name DOMAIN_NAME
```

Optional arguments

-h, --help

> show this help message and exit

--domain-name DOMAIN_NAME

> Name of the domain configured to use domain-specific
> backend

6.15. KEYSTONE-MANAGE MAPPING_PURGE

```
usage: keystone-manage
[bootstrap|credential_migrate|credential_rotate|credential_setup|db_syn
c|db_version|doctor|domain_config_upload|fernet_rotate|fernet_setup|map
```

```
ping_populate|mapping_purge|mapping_engine|pki_setup|saml_idp_metadata|
token_flush] mapping_purge
        [-h] [--all] [--domain-name DOMAIN_NAME] [--public-id
PUBLIC_ID]
        [--local-id LOCAL_ID] [--type {user,group}]
```

Optional arguments

-h, --help

show this help message and exit

--all

Purge all mappings.

--domain-name DOMAIN_NAME

Purge any mappings for the domain specified.

--public-id PUBLIC_ID

Purge the mapping for the Public ID specified.

--local-id LOCAL_ID

Purge the mappings for the Local ID specified.

--type {user,group}

Purge any mappings for the type specified.

6.16. KEYSTONE-MANAGE PKI_SETUP

```
usage: keystone-manage
[bootstrap|credential_migrate|credential_rotate|credential_setup|db_syn
c|db_version|doctor|domain_config_upload|fernet_rotate|fernet_setup|map
ping_populate|mapping_purge|mapping_engine|pki_setup|saml_idp_metadata|
token_flush] pki_setup
        [-h] [--keystone-user KEYSTONE_USER] [--keystone-group
KEYSTONE_GROUP]
        [--rebuild]
```

Optional arguments

-h, --help

show this help message and exit

--keystone-user KEYSTONE_USER

--keystone-group KEYSTONE_GROUP

--rebuild

Rebuild certificate files: erase previous files and
regenerate them.

6.17. KEYSTONE-MANAGE SAML_IDP_METADATA

```
usage: keystone-manage
[bootstrap|credential_migrate|credential_rotate|credential_setup|db_syn
c|db_version|doctor|domain_config_upload|fernet_rotate|fernet_setup|map
ping_populate|mapping_purge|mapping_engine|pki_setup|saml_idp_metadata|
token_flush] saml_idp_metadata
       [-h]
```

Optional arguments

-h, --help

show this help message and exit

6.18. KEYSTONE-MANAGE TOKEN_FLUSH

```
usage: keystone-manage
[bootstrap|credential_migrate|credential_rotate|credential_setup|db_syn
c|db_version|doctor|domain_config_upload|fernet_rotate|fernet_setup|map
ping_populate|mapping_purge|mapping_engine|pki_setup|saml_idp_metadata|
token_flush] token_flush
       [-h]
```

Optional arguments

-h, --help

show this help message and exit

CHAPTER 7. IMAGE SERVICE COMMAND-LINE CLIENT

The **glance** client is the command-line interface (CLI) for the OpenStack Image Service API and its extensions. This chapter documents **glance** version **2.5.0**.

> **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
```

7.1. GLANCE USAGE

```
usage: glance [--version] [-d] [-v] [--get-schema] [--no-ssl-
compression] [-f]
              [--os-image-url OS_IMAGE_URL]
              [--os-image-api-version OS_IMAGE_API_VERSION]
              [--profile HMAC_KEY] [--insecure] [--os-cacert <ca-
certificate>]
              [--os-cert <certificate>] [--os-key <key>] [--timeout
<seconds>]
              [--os-auth-url OS_AUTH_URL] [--os-domain-id
OS_DOMAIN_ID]
              [--os-domain-name OS_DOMAIN_NAME]
              [--os-project-id OS_PROJECT_ID]
              [--os-project-name OS_PROJECT_NAME]
              [--os-project-domain-id OS_PROJECT_DOMAIN_ID]
              [--os-project-domain-name OS_PROJECT_DOMAIN_NAME]
              [--os-trust-id OS_TRUST_ID] [--os-user-id OS_USER_ID]
              [--os-username OS_USERNAME]
              [--os-user-domain-id OS_USER_DOMAIN_ID]
              [--os-user-domain-name OS_USER_DOMAIN_NAME]
              [--os-password OS_PASSWORD] [--key-file OS_KEY]
              [--ca-file OS_CACERT] [--cert-file OS_CERT]
              [--os-tenant-id OS_TENANT_ID] [--os-tenant-name
OS_TENANT_NAME]
              [--os-region-name OS_REGION_NAME]
              [--os-auth-token OS_AUTH_TOKEN]
              [--os-service-type OS_SERVICE_TYPE]
              [--os-endpoint-type OS_ENDPOINT_TYPE]
              <subcommand> ...
```

Subcommands

explain

Describe a specific model.

`image-create`

Create a new image.

`image-deactivate`

Deactivate specified image.

`image-delete`

Delete specified image.

`image-download`

Download a specific image.

`image-list`

List images you can access.

`image-reactivate`

Reactivate specified image.

`image-show`

Describe a specific image.

`image-tag-delete`

Delete the tag associated with the given image.

`image-tag-update`

Update an image with the given tag.

`image-update`

Update an existing image.

`image-upload`

Upload data for a specific image.

`location-add`

Add a location (and related metadata) to an image.

`location-delete`

Remove locations (and related metadata) from an image.

`location-update`

Update metadata of an image's location.

`md-namespace-create`

Create a new metadata definitions namespace.

`md-namespace-delete`

Delete specified metadata definitions namespace with its contents.

`md-namespace-import`

Import a metadata definitions namespace from file or standard input.

`md-namespace-list`

List metadata definitions namespaces.

`md-namespace-objects-delete`

Delete all metadata definitions objects inside a specific namespace.

md-namespace-properties-delete

Delete all metadata definitions property inside a specific namespace.

md-namespace-resource-type-list

List resource types associated to specific namespace.

md-namespace-show

Describe a specific metadata definitions namespace.

md-namespace-tags-delete

Delete all metadata definitions tags inside a specific namespace.

md-namespace-update

Update an existing metadata definitions namespace.

md-object-create

Create a new metadata definitions object inside a namespace.

md-object-delete

Delete a specific metadata definitions object inside a namespace.

md-object-list

List metadata definitions objects inside a specific namespace.

md-object-property-show

Describe a specific metadata definitions property inside an object.

md-object-show

Describe a specific metadata definitions object inside a namespace.

md-object-update

Update metadata definitions object inside a namespace.

md-property-create

Create a new metadata definitions property inside a namespace.

md-property-delete

Delete a specific metadata definitions property inside a namespace.

md-property-list

List metadata definitions properties inside a specific namespace.

md-property-show

Describe a specific metadata definitions property inside a namespace.

md-property-update

Update metadata definitions property inside a namespace.

md-resource-type-associate

Associate resource type with a metadata definitions namespace.

md-resource-type-deassociate

Deassociate resource type with a metadata definitions namespace.

md-resource-type-list

List available resource type names.

md-tag-create

Add a new metadata definitions tag inside a namespace.

md-tag-create-multiple

Create new metadata definitions tags inside a namespace.

md-tag-delete

Delete a specific metadata definitions tag inside a namespace.

md-tag-list

List metadata definitions tags inside a specific namespace.

md-tag-show

Describe a specific metadata definitions tag inside a namespace.

md-tag-update

Rename a metadata definitions tag inside a namespace.

member-create

Create member for a given image.

member-delete

Delete image member.

member-list

Describe sharing permissions by image.

member-update

Update the status of a member for a given image.

task-create

Create a new task.

task-list

List tasks you can access.

task-show

Describe a specific task.

bash-completion

Prints arguments for bash_completion.

help

Display help about this program or one of its
subcommands.

7.2. GLANCE OPTIONAL ARGUMENTS

--version

show program's version number and exit

-d, --debug

> Defaults to **env[GLANCECLIENT_DEBUG]**.

-v, --verbose

> Print more verbose output.

--get-schema

> Ignores cached copy and forces retrieval of schema
> that generates portions of the help text. Ignored with
> API version 1.

--no-ssl-compression

> *DEPRECATED!* This option is deprecated and not used
> anymore. SSL compression should be disabled by default
> by the system SSL library.

-f, --force

> Prevent select actions from requesting user
> confirmation.

--os-image-url OS_IMAGE_URL

> Defaults to **env[OS_IMAGE_URL]**. If the provided image
> url contains a version number and `--os-image-api-
> version` is omitted the version of the URL will be
> picked as the image api version to use.

--os-image-api-version OS_IMAGE_API_VERSION

> Defaults to **env[OS_IMAGE_API_VERSION]** or 2.

--profile HMAC_KEY HMAC

> key to use for encrypting context data for
> performance profiling of operation. This key should be
> the value of HMAC key configured in osprofiler
> middleware in glance, it is specified in paste

configuration file at /etc/glance/api-paste.ini and /etc/glance/registry-paste.ini. Without key the profiling will not be triggered even if osprofiler is enabled on server side.

--insecure

Explicitly allow client to perform "insecure" TLS (https) requests. The server's certificate will not be verified against any certificate authorities. This option should be used with caution.

--os-cacert <ca-certificate>

Specify a CA bundle file to use in verifying a TLS (https) server certificate. Defaults to **env[OS_CACERT]**.

--os-cert <certificate>

Defaults to **env[OS_CERT]**.

--os-key <key>

Defaults to **env[OS_KEY]**.

--timeout <seconds>

Set request timeout (in seconds).

--os-auth-url OS_AUTH_URL

Authentication URL

--os-domain-id OS_DOMAIN_ID

Domain ID to scope to

--os-domain-name OS_DOMAIN_NAME

Domain name to scope to

--os-project-id OS_PROJECT_ID

Project ID to scope to

--os-project-name OS_PROJECT_NAME

Project name to scope to

--os-project-domain-id OS_PROJECT_DOMAIN_ID

Domain ID containing project

--os-project-domain-name OS_PROJECT_DOMAIN_NAME

Domain name containing project

--os-trust-id OS_TRUST_ID

Trust ID

--os-user-id OS_USER_ID

User ID

--os-username OS_USERNAME, --os-user_name OS_USERNAME

Username

--os-user-domain-id OS_USER_DOMAIN_ID

User's domain id

--os-user-domain-name OS_USER_DOMAIN_NAME

User's domain name

--os-password OS_PASSWORD

User's password

--key-file OS_KEY

> *DEPRECATED!* Use --os-key.

--ca-file OS_CACERT

> *DEPRECATED!* Use --os-cacert.

--cert-file OS_CERT

> *DEPRECATED!* Use --os-cert.

--os-tenant-id OS_TENANT_ID

> Defaults to **env[OS_TENANT_ID]**.

--os-tenant-name OS_TENANT_NAME

> Defaults to **env[OS_TENANT_NAME]**.

--os-region-name OS_REGION_NAME

> Defaults to **env[OS_REGION_NAME]**.

--os-auth-token OS_AUTH_TOKEN

> Defaults to **env[OS_AUTH_TOKEN]**.

--os-service-type OS_SERVICE_TYPE

> Defaults to **env[OS_SERVICE_TYPE]**.

--os-endpoint-type OS_ENDPOINT_TYPE

> Defaults to **env[OS_ENDPOINT_TYPE]**.

7.3. IMAGE SERVICE API V1 COMMANDS

7.3.1. 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 as specified in
> http://docs.openstack.org/user-guide/common/cli-
> manage-images.html

--protected [True|False]

> If true, image will not be deletable.

--name <NAME>

> Descriptive name for the image

--instance-uuid <INSTANCE_UUID>

> Metadata which can be used to record which instance
> this image is associated with. (Informational only,
> does not create an instance snapshot.)

--min-disk <MIN_DISK>

Amount of disk space (in GB) required to boot image.

--visibility <VISIBILITY>

Scope of image accessibility Valid values: public, private

--kernel-id <KERNEL_ID>

ID of image stored in Glance that should be used as the kernel when booting an AMI-style image.

--tags <TAGS> [<TAGS> ...]

List of strings related to the image

--os-version <OS_VERSION>

Operating system version as specified by the distributor

--disk-format <DISK_FORMAT>

Format of the disk Valid values: None, ami, ari, aki, vhd, vmdk, raw, qcow2, vdi, iso

--os-distro <OS_DISTRO>

Common name of operating system distribution as specified in http://docs.openstack.org/user-guide/common/cli-manage-images.html

--id <ID>

An identifier for the image

--owner <OWNER>

Owner of the image

--ramdisk-id <RAMDISK_ID>

ID of image stored in Glance that should be used as the ramdisk when booting an AMI-style image.

--min-ram <MIN_RAM>

Amount of ram (in MB) required to boot image.

--container-format <CONTAINER_FORMAT>

Format of the container Valid values: 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.

7.3.2. glance image-delete

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

Delete specified image.

Positional arguments

<IMAGE_ID>

ID of image(s) to delete.

7.3.3. 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.

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.

7.3.4. 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.

7.3.5. 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 as specified in
http://docs.openstack.org/user-guide/common/cli-
manage-images.html

--protected [True|False]

If true, image will not be deletable.

--name <NAME>

Descriptive name for the image

--instance-uuid <INSTANCE_UUID>

Metadata which can be used to record which instance this image is associated with. (Informational only, does not create an instance snapshot.)

--min-disk <MIN_DISK>

Amount of disk space (in GB) required to boot image.

--visibility <VISIBILITY>

Scope of image accessibility Valid values: public, private

--kernel-id <KERNEL_ID>

ID of image stored in Glance that should be used as the kernel when booting an AMI-style image.

--os-version <OS_VERSION>

Operating system version as specified by the distributor

--disk-format <DISK_FORMAT>

Format of the disk Valid values: None, ami, ari, aki, vhd, vmdk, raw, qcow2, vdi, iso

--os-distro <OS_DISTRO>

Common name of operating system distribution as specified in http://docs.openstack.org/user-guide/common/cli-manage-images.html

--owner <OWNER>

Owner of the image

`--ramdisk-id <RAMDISK_ID>`

ID of image stored in Glance that should be used as the ramdisk when booting an AMI-style image.

`--min-ram <MIN_RAM>`

Amount of ram (in MB) required to boot image.

`--container-format <CONTAINER_FORMAT>`

Format of the container Valid values: 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.

7.3.6. 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.

7.3.7. 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.

7.3.8. 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.

7.4. IMAGE SERVICE API V2 COMMANDS

You can select an API version to use by adding the **--os-image-api-version** option or by setting the corresponding environment variable:

```
$ export OS_IMAGE_API_VERSION=2
```

7.4.1. glance explain (v2)

```
usage: glance --os-image-api-version 2 explain <MODEL>
```

Describe a specific model.

Positional arguments

<MODEL>

Name of model to describe.

7.4.2. glance image-create (v2)

```
usage: glance --os-image-api-version 2 image-create [--architecture
<ARCHITECTURE>]
                                [--protected [True|False]] [--name <NAME>]
                                [--instance-uuid <INSTANCE_UUID>]
                                [--min-disk <MIN_DISK>] [--visibility
<VISIBILITY>]
                                [--kernel-id <KERNEL_ID>]
                                [--tags <TAGS> [<TAGS> ...]]
                                [--os-version <OS_VERSION>]
                                [--disk-format <DISK_FORMAT>]
                                [--os-distro <OS_DISTRO>] [--id <ID>]
                                [--owner <OWNER>] [--ramdisk-id
<RAMDISK_ID>]
                                [--min-ram <MIN_RAM>]
                                [--container-format <CONTAINER_FORMAT>]
                                [--property <key=value>] [--file <FILE>]
                                [--progress]
```

Create a new image.

Optional arguments

--architecture <ARCHITECTURE>

Operating system architecture as specified in
http://docs.openstack.org/user-guide/common/cli-
manage-images.html

--protected [True|False]

If true, image will not be deletable.

--name <NAME>

Descriptive name for the image

--instance-uuid <INSTANCE_UUID>

Metadata which can be used to record which instance
this image is associated with. (Informational only,
does not create an instance snapshot.)

--min-disk <MIN_DISK>

Amount of disk space (in GB) required to boot image.

--visibility <VISIBILITY>

Scope of image accessibility Valid values: public, private

--kernel-id <KERNEL_ID>

ID of image stored in Glance that should be used as the kernel when booting an AMI-style image.

--tags <TAGS> [<TAGS> ...]

List of strings related to the image

--os-version <OS_VERSION>

Operating system version as specified by the distributor

--disk-format <DISK_FORMAT>

Format of the disk Valid values: None, ami, ari, aki, vhd, vmdk, raw, qcow2, vdi, iso

--os-distro <OS_DISTRO>

Common name of operating system distribution as specified in http://docs.openstack.org/user-guide/common/cli-manage-images.html

--id <ID>

An identifier for the image

--owner <OWNER>

Owner of the image

`--ramdisk-id <RAMDISK_ID>`

ID of image stored in Glance that should be used as the ramdisk when booting an AMI-style image.

`--min-ram <MIN_RAM>`

Amount of ram (in MB) required to boot image.

`--container-format <CONTAINER_FORMAT>`

Format of the container Valid values: 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.

7.4.3. glance image-delete (v2)

```
usage: glance --os-image-api-version 2 image-delete <IMAGE_ID>
[<IMAGE_ID> ...]
```

Delete specified image.

Positional arguments

`<IMAGE_ID>`

ID of image(s) to delete.

7.4.4. glance image-download (v2)

```
usage: glance --os-image-api-version 2 image-download [--file <FILE>]
[--progress] <IMAGE_ID>
```

Download a specific image.

Positional arguments

<IMAGE_ID>

ID of image to download.

Optional arguments

--file <FILE>

Local file to save downloaded image data to. If this is not
specified and there is no redirection the image data will not
be saved.

--progress

Show download progress bar.

7.4.5. glance image-list (v2)

```
usage: glance --os-image-api-version 2 image-list [--limit <LIMIT>] [--
page-size <SIZE>]
                              [--visibility <VISIBILITY>]
                              [--member-status <MEMBER_STATUS>] [--owner
<OWNER>]
                              [--property-filter <KEY=VALUE>]
                              [--checksum <CHECKSUM>] [--tag <TAG>]
                              [--sort-key
{name,status,container_format,disk_format,size,id,created_at,updated_at
}]
                              [--sort-dir {asc,desc}] [--sort <key>[:
<direction>]]
```

List images you can access.

Optional arguments

`--limit <LIMIT>`

Maximum number of images to get.

`--page-size <SIZE>`

Number of images to request in each paginated request.

`--visibility <VISIBILITY>`

The visibility of the images to display.

`--member-status <MEMBER_STATUS>`

The status of images to display.

`--owner <OWNER>`

Display images owned by <OWNER>.

`--property-filter <KEY=VALUE>`

Filter images by a user-defined image property.

`--checksum <CHECKSUM>`

Displays images that match the checksum.

`--tag <TAG>`

Filter images by a user-defined tag.

`--sort-key`
`{name,status,container_format,disk_format,size,id,created_at,updated_at}`

Sort image list by specified fields. May be used
multiple times.

--sort-dir {asc,desc}

Sort image list in specified directions.

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

Comma-separated list of sort keys and directions in
the form of <key>[:<asc|desc>]. Valid keys: name,
status, container_format, disk_format, size, id,
created_at, updated_at. OPTIONAL.

7.4.6. glance image-show (v2)

```
usage: glance --os-image-api-version 2 image-show [--human-readable] [-
-max-column-width <integer>]
                              <IMAGE_ID>
```

Describe a specific image.

Positional arguments

<IMAGE_ID>

ID of image to describe.

Optional arguments

--human-readable

Print image size in a human-friendly format.

--max-column-width <integer>

The max column width of the printed table.

7.4.7. glance image-tag-delete (v2)

```
usage: glance --os-image-api-version 2 image-tag-delete <IMAGE_ID>
<TAG_VALUE>
```

Delete the tag associated with the given image.

Positional arguments

<IMAGE_ID>

ID of the image from which to delete tag.

<TAG_VALUE>

Value of the tag.

7.4.8. glance image-tag-update (v2)

```
usage: glance --os-image-api-version 2 image-tag-update <IMAGE_ID>
<TAG_VALUE>
```

Update an image with the given tag.

Positional arguments

<IMAGE_ID>

Image to be updated with the given tag.

<TAG_VALUE>

Value of the tag.

7.4.9. glance image-update (v2)

```
usage: glance --os-image-api-version 2 image-update [--architecture
<ARCHITECTURE>]
                                [--protected [True|False]] [--name <NAME>]
                                [--instance-uuid <INSTANCE_UUID>]
                                [--min-disk <MIN_DISK>] [--visibility
<VISIBILITY>]
                                [--kernel-id <KERNEL_ID>]
                                [--os-version <OS_VERSION>]
                                [--disk-format <DISK_FORMAT>]
                                [--os-distro <OS_DISTRO>] [--owner
<OWNER>]
                                [--ramdisk-id <RAMDISK_ID>] [--min-ram
<MIN_RAM>]
                                [--container-format <CONTAINER_FORMAT>]
                                [--property <key=value>] [--remove-
property key]
                                <IMAGE_ID>
```

▪

Update an existing image.

Positional arguments

`<IMAGE_ID>`

ID of image to update.

Optional arguments

`--architecture <ARCHITECTURE>`

Operating system architecture as specified in
http://docs.openstack.org/user-guide/common/cli-
manage-images.html

`--protected [True|False]`

If true, image will not be deletable.

`--name <NAME>`

Descriptive name for the image

`--instance-uuid <INSTANCE_UUID>`

Metadata which can be used to record which instance
this image is associated with. (Informational only,
does not create an instance snapshot.)

`--min-disk <MIN_DISK>`

Amount of disk space (in GB) required to boot image.

`--visibility <VISIBILITY>`

Scope of image accessibility Valid values: public,
private

`--kernel-id <KERNEL_ID>`

ID of image stored in Glance that should be used as
the kernel when booting an AMI-style image.

--os-version <OS_VERSION>

Operating system version as specified by the
distributor

--disk-format <DISK_FORMAT>

Format of the disk Valid values: None, ami, ari, aki,
vhd, vmdk, raw, qcow2, vdi, iso

--os-distro <OS_DISTRO>

Common name of operating system distribution as
specified in http://docs.openstack.org/user-
guide/common/cli-manage-images.html

--owner <OWNER>

Owner of the image

--ramdisk-id <RAMDISK_ID>

ID of image stored in Glance that should be used as
the ramdisk when booting an AMI-style image.

--min-ram <MIN_RAM>

Amount of ram (in MB) required to boot image.

--container-format <CONTAINER_FORMAT>

Format of the container Valid values: 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.

7.4.10. glance image-upload (v2)

```
usage: glance --os-image-api-version 2 image-upload [--file <FILE>] [--
size <IMAGE_SIZE>] [--progress]
                             <IMAGE_ID>
```

Upload data for a specific image.

Positional arguments

<IMAGE_ID>

ID of image to upload data to.

Optional arguments

--file <FILE>

Local file that contains disk image to be uploaded.
Alternatively, images can be passed to the client via
stdin.

--size <IMAGE_SIZE>

Size in bytes of image to be uploaded. Default is to
get size from provided data object but this is
supported in case where size cannot be inferred.

--progress

Show upload progress bar.

7.4.11. glance member-create (v2)

```
usage: glance --os-image-api-version 2 member-create <IMAGE_ID>
<MEMBER_ID>
```

Create member for a given image.

Positional arguments

<IMAGE_ID>

Image with which to create member.

<MEMBER_ID>

Tenant to add as member.

7.4.12. glance member-delete (v2)

```
usage: glance --os-image-api-version 2 member-delete <IMAGE_ID>
<MEMBER_ID>
```

Delete image member.

Positional arguments

<IMAGE_ID>

Image from which to remove member.

<MEMBER_ID>

Tenant to remove as member.

7.4.13. glance member-list (v2)

```
usage: glance --os-image-api-version 2 member-list --image-id
<IMAGE_ID>
```

Describe sharing permissions by image.

Optional arguments

--image-id <IMAGE_ID>

Image to display members of.

7.4.14. glance member-update (v2)

```
usage: glance --os-image-api-version 2 member-update <IMAGE_ID>
<MEMBER_ID> <MEMBER_STATUS>
```

Update the status of a member for a given image.

Positional arguments

<IMAGE_ID>

Image from which to update member.

<MEMBER_ID>

Tenant to update.

<MEMBER_STATUS>

Updated status of member. Valid Values: accepted, rejected, pending

CHAPTER 8. NETWORKING SERVICE COMMAND-LINE CLIENT

The **neutron** client is the command-line interface (CLI) for the OpenStack Networking API and its extensions. This chapter documents **neutron** version **6.0.0**.

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

```
$ neutron help COMMAND
```

8.1. 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]
```

8.2. 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.

8.3. 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.

8.4. NEUTRON ADDRESS-SCOPE-CREATE

```
usage: neutron address-scope-create [-h] [-f
{json,shell,table,value,yaml}]
                                    [-c COLUMN] [--max-width
<integer>]
                                    [--noindent] [--prefix PREFIX]
                                    [--request-format {json}]
                                    [--tenant-id TENANT_ID] [--
shared]
                                    NAME IP_VERSION
```

Create an address scope for a given tenant.

Positional arguments

`NAME`

Specify the name of the address scope.

`IP_VERSION`

Specify the address family of the address scope.

Optional arguments

`-h, --help`

show this help message and exit

`--request-format {json}`

DEPRECATED! Only JSON request format is supported.

`--tenant-id TENANT_ID`

The owner tenant ID.

`--shared`

Set the address scope as shared.

8.5. 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.

8.6. NEUTRON ADDRESS-SCOPE-LIST

```
usage: neutron address-scope-list [-h] [-f {csv,json,table,value,yaml}]
                                  [-c COLUMN] [--max-width <integer>]
                                  [--noindent]
                                  [--quote
{all,minimal,none,nonnumeric}]
                                  [--request-format {json}] [-D] [-F
FIELD]
                                  [-P SIZE] [--sort-key FIELD]
                                  [--sort-dir {asc,desc}]
```

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.

8.7. NEUTRON ADDRESS-SCOPE-SHOW

```
usage: neutron address-scope-show [-h] [-f
{json,shell,table,value,yaml}]
                                    [-c COLUMN] [--max-width <integer>]
                                    [--noindent] [--prefix PREFIX]
                                    [--request-format {json}] [-D] [-F
FIELD]
                                    ADDRESS_SCOPE
```

Show information about an address scope.

Positional arguments

ADDRESS_SCOPE

ID or name of address_scope to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

>   *DEPRECATED!* Only JSON request format is supported.

-D, --show-details

>   Show detailed information.

-F FIELD, --field FIELD

>   Specify the field(s) to be returned by server. You can
>   repeat this option.

8.8. 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)

8.9. 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.

8.10. NEUTRON AGENT-LIST

```
usage: neutron agent-list [-h] [-f {csv,json,table,value,yaml}] [-c
COLUMN]
                               [--max-width <integer>] [--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.

8.11. NEUTRON AGENT-SHOW

```
usage: neutron agent-show [-h] [-f {json,shell,table,value,yaml}] [-c
COLUMN]
                              [--max-width <integer>] [--noindent]
                              [--prefix PREFIX] [--request-format {json}]
[-D]
                              [-F FIELD]
                              AGENT
```

Show information of a given agent.

Positional arguments

AGENT

ID of agent to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can
repeat this option.

8.12. 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.

8.13. 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.

8.14. NEUTRON AUTO-ALLOCATED-TOPOLOGY-SHOW

```
usage: neutron auto-allocated-topology-show [-h]
                                            [-f
{json,shell,table,value,yaml}]
                                            [-c COLUMN]
                                            [--max-width <integer>]
                                            [--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.

8.15. NEUTRON AVAILABILITY-ZONE-LIST

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

```
                                          [--request-format {json}] [-D]
                                          [-F FIELD] [-P SIZE] [--sort-
   key FIELD]
                                          [--sort-dir {asc,desc}]
```

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.

8.16. NEUTRON BGP-DRAGENT-LIST-HOSTING-SPEAKER

```
usage: neutron bgp-dragent-list-hosting-speaker [-h]
                                                [-f
{csv,json,table,value,yaml}]
                                                [-c COLUMN]
                                                [--max-width
<integer>]
                                                [--noindent]
                                                [--quote
{all,minimal,none,nonnumeric}]
                                                [--request-format
{json}] [-D]
                                                [-F FIELD]
                                                BGP_SPEAKER
```

List Dynamic Routing agents hosting a BGP speaker.

Positional arguments

BGP_SPEAKER

ID or name of the BGP speaker.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can

Specify the field(s) to be returned by server. You can
repeat this option.

8.17. 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.

8.18. 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.

8.19. NEUTRON BGP-PEER-CREATE

```
usage: neutron bgp-peer-create [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--max-width <integer>]
                               [--noindent] [--prefix PREFIX]
                               [--request-format {json}]
                               [--tenant-id TENANT_ID] --peer-ip
                               PEER_IP_ADDRESS --remote-as
PEER_REMOTE_AS
                               [--auth-type PEER_AUTH_TYPE]
                               [--password AUTH_PASSWORD]
                               NAME
```

Create a BGP Peer.

Positional arguments

NAME

Name of the BGP peer to create.

Optional arguments

-h, --help

show this help message and exit

`--request-format {json}`

> *DEPRECATED!* Only JSON request format is supported.

`--tenant-id TENANT_ID`

> The owner tenant ID.

`--peer-ip PEER_IP_ADDRESS`

> Peer IP address.

`--remote-as PEER_REMOTE_AS`

> Peer AS number. (Integer in [1, 65535] is allowed.)

`--auth-type PEER_AUTH_TYPE`

> Authentication algorithm. Supported algorithms:
> none(default), md5

`--password AUTH_PASSWORD`

> Authentication password.

8.20. 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.

8.21. NEUTRON BGP-PEER-LIST

```
usage: neutron bgp-peer-list [-h] [-f {csv,json,table,value,yaml}] [-c
COLUMN]
                             [--max-width <integer>] [--noindent]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--request-format {json}] [-D] [-F
FIELD]
                             [-P SIZE] [--sort-key FIELD]
                             [--sort-dir {asc,desc}]
```

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.

8.22. NEUTRON BGP-PEER-SHOW

```
usage: neutron bgp-peer-show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX] [--request-format
{json}] [-D]
                             [-F FIELD]
                             BGP_PEER
```

Show information of a given BGP peer.

Positional arguments

BGP_PEER

ID or name of bgp_peer to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

> Show detailed information.

-F FIELD, --field FIELD

> Specify the field(s) to be returned by server. You can
> repeat this option.

8.23. 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.

8.24. NEUTRON BGP-SPEAKER-ADVERTISEROUTE-LIST

```
usage: neutron bgp-speaker-advertiseroute-list [-h]
                                               [-f
{csv,json,table,value,yaml}]

                                               [-c COLUMN]
                                               [--max-width
<integer>]

                                               [--noindent]
                                               [--quote
{all,minimal,none,nonnumeric}]

                                               [--request-format
{json}] [-D]

                                               [-F FIELD] [-P SIZE]
                                               [--sort-key FIELD]
                                               [--sort-dir
{asc,desc}]

                                               BGP_SPEAKER
```

List routes advertised by a given BGP speaker.

Positional arguments

BGP_SPEAKER

ID or name of the BGP speaker.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

-P SIZE, --page-size SIZE

Specify retrieve unit of each request, then split one request to several requests.

--sort-key FIELD

Sorts the list by the specified fields in the specified directions. You can repeat this option, but you must specify an equal number of sort_dir and sort_key values. Extra sort_dir options are ignored. Missing sort_dir options use the default asc value.

--sort-dir {asc,desc}

Sorts the list in the specified direction. You can repeat this option.

8.25. NEUTRON BGP-SPEAKER-CREATE

```
usage: neutron bgp-speaker-create [-h] [-f
{json,shell,table,value,yaml}]
                                    [-c COLUMN] [--max-width <integer>]
                                    [--noindent] [--prefix PREFIX]
                                    [--request-format {json}]
                                    [--tenant-id TENANT_ID] --local-as
LOCAL_AS
                                    [--ip-version {4,6}]
                                    [--advertise-floating-ip-host-
routes {True,False}]
                                    [--advertise-tenant-networks
{True,False}]
                                    NAME
```

Create a BGP Speaker.

Positional arguments

NAME

Name of the BGP speaker to create.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--local-as LOCAL_AS

Local AS number. (Integer in [1, 65535] is allowed.)

--ip-version {4,6} IP

version for the BGP speaker (default is 4).

--advertise-floating-ip-host-routes {True,False}

Whether to enable or disable the advertisement of
floating-ip host routes by the BGP speaker. By default
floating ip host routes will be advertised by the BGP
speaker.

--advertise-tenant-networks {True,False}

Whether to enable or disable the advertisement of
tenant network routes by the BGP speaker. By default
tenant network routes will be advertised by the BGP
speaker.

8.26. 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.

8.27. NEUTRON BGP-SPEAKER-LIST

```
usage: neutron bgp-speaker-list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent]
                                [--quote
{all,minimal,none,nonnumeric}]
                                [--request-format {json}] [-D] [-F
FIELD]
                                [-P SIZE] [--sort-key FIELD]
                                [--sort-dir {asc,desc}]
```

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.

8.28. NEUTRON BGP-SPEAKER-LIST-ON-DRAGENT

```
usage: neutron bgp-speaker-list-on-dragent [-h]
                                           [-f
{csv,json,table,value,yaml}]
                                           [-c COLUMN] [--max-width
<integer>]
                                           [--noindent]
                                           [--quote
{all,minimal,none,nonnumeric}]
                                           [--request-format {json}]
[-D]
                                           [-F FIELD]
                                           BGP_DRAGENT_ID
```

List BGP speakers hosted by a Dynamic Routing agent.

Positional arguments

BGP_DRAGENT_ID

ID of the Dynamic Routing agent.

Optional arguments

`-h, --help`

show this help message and exit

`--request-format {json}`

DEPRECATED! Only JSON request format is supported.

`-D, --show-details`

Show detailed information.

`-F FIELD, --field FIELD`

Specify the field(s) to be returned by server. You can repeat this option.

8.29. 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.

8.30. 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.

8.31. 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.

8.32. 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.

8.33. NEUTRON BGP-SPEAKER-SHOW

```
usage: neutron bgp-speaker-show [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                [--request-format {json}] [-D] [-F
FIELD]
                                BGP_SPEAKER
```

Show information of a given BGP speaker.

Positional arguments

BGP_SPEAKER

ID or name of bgp_speaker to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

8.34. 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.

8.35. NEUTRON DHCP-AGENT-LIST-HOSTING-NET

```
usage: neutron dhcp-agent-list-hosting-net [-h]
                                           [-f
{csv,json,table,value,yaml}]
                                           [-c COLUMN] [--max-width
<integer>]
                                           [--noindent]
                                           [--quote
{all,minimal,none,nonnumeric}]
                                           [--request-format {json}]
[-D]
                                           [-F FIELD]
                                           NETWORK
```

List DHCP agents hosting a network.

Positional arguments

NETWORK

Network to query.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can
repeat this option.

8.36. 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.

8.37. 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.

8.38. NEUTRON EXT-LIST

```
usage: neutron ext-list [-h] [-f {csv,json,table,value,yaml}] [-c
COLUMN]
                            [--max-width <integer>] [--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.

8.39. NEUTRON EXT-SHOW

```
usage: neutron ext-show [-h] [-f {json,shell,table,value,yaml}] [-c
COLUMN]
                             [--max-width <integer>] [--noindent] [--
prefix PREFIX]
                             [--request-format {json}] [-D] [-F FIELD]
                             EXTENSION
```

Show information of a given resource.

Positional arguments

EXTENSION

ID of extension to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

8.40. NEUTRON FIREWALL-CREATE

```
usage: neutron firewall-create [-h] [-f {json,shell,table,value,yaml}]
```

```
                                         [-c COLUMN] [--max-width <integer>]
                                         [--noindent] [--prefix PREFIX]
                                         [--request-format {json}]
                                         [--tenant-id TENANT_ID] [--name NAME]
                                         [--description DESCRIPTION]
                                         [--router ROUTER | --no-routers]
                                         [--admin-state-down]
                                         POLICY
```

Create a firewall.

Positional arguments

POLICY

> 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.

8.41. 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.

8.42. NEUTRON FIREWALL-LIST

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

```
                                    [--request-format {json}] [-D] [-F
  FIELD]

                                    [-P SIZE] [--sort-key FIELD]
                                    [--sort-dir {asc,desc}]
```

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.

8.43. NEUTRON FIREWALL-POLICY-CREATE

```
usage: neutron firewall-policy-create [-h] [-f
{json,shell,table,value,yaml}]
                                      [-c COLUMN] [--max-width
<integer>]
                                      [--noindent] [--prefix PREFIX]
                                      [--request-format {json}]
                                      [--tenant-id TENANT_ID] [--
shared]
                                      [--audited] [--description
DESCRIPTION]
                                      [--firewall-rules
FIREWALL_RULES]
                                      NAME
```

Create a firewall policy.

Positional arguments

NAME

Name for the firewall policy.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--shared

Create a shared policy.

`--audited`

Sets audited to True.

`--description DESCRIPTION`

Description for the firewall policy.

`--firewall-rules FIREWALL_RULES`

Ordered list of whitespace-delimited firewall rule
names or IDs; e.g., --firewall-rules "rule1 rule2"

8.44. 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.

8.45. 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.

8.46. NEUTRON FIREWALL-POLICY-LIST

```
usage: neutron firewall-policy-list [-h] [-f
```

```
{csv,json,table,value,yaml}]
                                          [-c COLUMN] [--max-width
<integer>]
                                          [--noindent]
                                          [--quote
{all,minimal,none,nonnumeric}]
                                          [--request-format {json}] [-D] [-
F FIELD]
                                          [-P SIZE] [--sort-key FIELD]
                                          [--sort-dir {asc,desc}]
```

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.

8.47. 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.

8.48. NEUTRON FIREWALL-POLICY-SHOW

```
usage: neutron firewall-policy-show [-h] [-f
{json,shell,table,value,yaml}]
                                    [-c COLUMN] [--max-width
<integer>]
```

```
                                          [--noindent] [--prefix PREFIX]
                                          [--request-format {json}] [-D] [-
  F FIELD]
                                          FIREWALL_POLICY
```

Show information of a given firewall policy.

Positional arguments

FIREWALL_POLICY

>
> ID or name of firewall_policy to look up.

Optional arguments

-h, --help

>
> show this help message and exit

--request-format {json}

>
> *DEPRECATED!* Only JSON request format is supported.

-D, --show-details

>
> Show detailed information.

-F FIELD, --field FIELD

>
> Specify the field(s) to be returned by server. You can
> repeat this option.

8.49. 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).

8.50. NEUTRON FIREWALL-RULE-CREATE

```
usage: neutron firewall-rule-create [-h] [-f
{json,shell,table,value,yaml}]
                                    [-c COLUMN] [--max-width
<integer>]
                                    [--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).

8.51. 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.

8.52. NEUTRON FIREWALL-RULE-LIST

```
usage: neutron firewall-rule-list [-h] [-f {csv,json,table,value,yaml}]
                                  [-c COLUMN] [--max-width <integer>]
                                  [--noindent]
                                  [--quote
{all,minimal,none,nonnumeric}]
                                  [--request-format {json}] [-D] [-F
FIELD]
                                  [-P SIZE] [--sort-key FIELD]
                                  [--sort-dir {asc,desc}]
```

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.

8.53. NEUTRON FIREWALL-RULE-SHOW

```
usage: neutron firewall-rule-show [-h] [-f
{json,shell,table,value,yaml}]
                                  [-c COLUMN] [--max-width <integer>]
                                  [--noindent] [--prefix PREFIX]
                                  [--request-format {json}] [-D] [-F
FIELD]
                                  FIREWALL_RULE
```

Show information of a given firewall rule.

Positional arguments

FIREWALL_RULE

ID or name of firewall_rule to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

8.54. 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.

8.55. NEUTRON FIREWALL-SHOW

```
usage: neutron firewall-show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX] [--request-format
{json}] [-D]
                             [-F FIELD]
                             FIREWALL
```

Show information of a given firewall.

Positional arguments

`FIREWALL`

ID or name of firewall to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can
repeat this option.

8.56. 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).

8.57. 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.

8.58. NEUTRON FLAVOR-CREATE

```
usage: neutron flavor-create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX] [--request-format
{json}]
                             [--tenant-id TENANT_ID]
                             [--description DESCRIPTION]
                             [--enabled {True,False}]
                             NAME SERVICE_TYPE
```

Create a Neutron service flavor.

Positional arguments

NAME

Name for the flavor.

SERVICE_TYPE

Service type to which the flavor applies to: e.g. VPN.
(See service-provider-list for loaded examples.)

Optional arguments

`-h, --help`

show this help message and exit

`--request-format {json}`

DEPRECATED! Only JSON request format is supported.

`--tenant-id TENANT_ID`

The owner tenant ID.

`--description DESCRIPTION`

Description for the flavor.

`--enabled {True,False}`

Sets enabled flag.

8.59. 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.

8.60. 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.

8.61. NEUTRON FLAVOR-LIST

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

```
                                      [--quote {all,minimal,none,nonnumeric}]
                                      [--request-format {json}] [-D] [-F FIELD]
 [-P SIZE]

                                      [--sort-key FIELD] [--sort-dir {asc,desc}]
```

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.

8.62. NEUTRON FLAVOR-PROFILE-CREATE

```
usage: neutron flavor-profile-create [-h] [-f
{json,shell,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--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.

8.63. 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.

8.64. NEUTRON FLAVOR-PROFILE-LIST

```
usage: neutron flavor-profile-list [-h] [-f
{csv,json,table,value,yaml}]
                                    [-c COLUMN] [--max-width
<integer>]
                                    [--noindent]
                                    [--quote
{all,minimal,none,nonnumeric}]
                                    [--request-format {json}] [-D] [-F
FIELD]
                                    [-P SIZE] [--sort-key FIELD]
                                    [--sort-dir {asc,desc}]
```

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.

8.65. NEUTRON FLAVOR-PROFILE-SHOW

```
usage: neutron flavor-profile-show [-h] [-f
```

```
{json,shell,table,value,yaml}]
                                          [-c COLUMN] [--max-width
<integer>]
                                          [--noindent] [--prefix PREFIX]
                                          [--request-format {json}] [-D] [-F
FIELD]
                                          SERVICE_PROFILE
```

Show information about a given Neutron service flavor profile.

Positional arguments

SERVICE_PROFILE

ID or name of service_profile to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can
repeat this option.

8.66. 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.

8.67. NEUTRON FLAVOR-SHOW

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

```
{json}] [-D]
                                   [-F FIELD]
                                   FLAVOR
```

Show information about a given Neutron service flavor.

Positional arguments

FLAVOR

ID or name of flavor to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can
repeat this option.

8.68. 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.

8.69. 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).

8.70. NEUTRON FLOATINGIP-CREATE

```
usage: neutron floatingip-create [-h] [-f
{json,shell,table,value,yaml}]
                                  [-c COLUMN] [--max-width <integer>]
                                  [--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)

8.71. 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.

8.72. 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.

8.73. NEUTRON FLOATINGIP-LIST

```
usage: neutron floatingip-list [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN] [--max-width <integer>]
                               [--noindent]
                               [--quote
{all,minimal,none,nonnumeric}]
                               [--request-format {json}] [-D] [-F
FIELD]
                               [-P SIZE] [--sort-key FIELD]
                               [--sort-dir {asc,desc}]
```

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.

8.74. NEUTRON FLOATINGIP-SHOW

```
usage: neutron floatingip-show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--max-width <integer>]
                               [--noindent] [--prefix PREFIX]
                               [--request-format {json}] [-D] [-F
FIELD]
                               FLOATINGIP
```

Show information of a given floating IP.

Positional arguments

FLOATINGIP

ID of floatingip to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

8.75. NEUTRON IPSEC-SITE-CONNECTION-CREATE

```
usage: neutron ipsec-site-connection-create [-h]
                                            [-f
{json,shell,table,value,yaml}]
                                            [-c COLUMN]
                                            [--max-width <integer>]
                                            [--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

8.76. 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.

8.77. NEUTRON IPSEC-SITE-CONNECTION-LIST

```
usage: neutron ipsec-site-connection-list [-h]
                                          [-f
{csv,json,table,value,yaml}]
                                          [-c COLUMN] [--max-width
<integer>]
                                          [--noindent]
                                          [--quote
{all,minimal,none,nonnumeric}]
                                          [--request-format {json}]
[-D]
                                          [-F FIELD] [-P SIZE]
                                          [--sort-key FIELD]
                                          [--sort-dir {asc,desc}]
```

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.

8.78. NEUTRON IPSEC-SITE-CONNECTION-SHOW

```
usage: neutron ipsec-site-connection-show [-h]
```

```
                                                                 [-f
 {json,shell,table,value,yaml}]
                                                                 [-c COLUMN] [--max-width
 <integer>]
                                                                 [--noindent] [--prefix
 PREFIX]
                                                                 [--request-format {json}]
 [-D]
                                                                 [-F FIELD]
                                                                 IPSEC_SITE_CONNECTION
```

Show information of a given IPsec site connection.

Positional arguments

IPSEC_SITE_CONNECTION

ID or name of IPsec site connection to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can
repeat this option.

8.79. 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

8.80. NEUTRON L3-AGENT-LIST-HOSTING-ROUTER

```
usage: neutron l3-agent-list-hosting-router [-h]
                                            [-f
{csv,json,table,value,yaml}]
                                            [-c COLUMN]
                                            [--max-width <integer>]
                                            [--noindent]
                                            [--quote
{all,minimal,none,nonnumeric}]
                                            [--request-format
{json}] [-D]
                                            [-F FIELD]
                                            ROUTER
```

List L3 agents hosting a router.

Positional arguments

`ROUTER`

Router to query.

Optional arguments

`-h, --help`

show this help message and exit

`--request-format {json}`

DEPRECATED! Only JSON request format is supported.

`-D, --show-details`

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can
repeat this option.

8.81. 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.

8.82. 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.

8.83. NEUTRON LB-AGENT-HOSTING-POOL

```
usage: neutron lb-agent-hosting-pool [-h] [-f
{csv,json,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--noindent]
                                     [--quote
{all,minimal,none,nonnumeric}]
                                     [--request-format {json}] [-D]
[-F FIELD]
                                     POOL
```

Get loadbalancer agent hosting a pool. Deriving from ListCommand though server will return only one agent to keep common output format for all agent schedulers

Positional arguments

POOL

Pool to query.

Optional arguments

-h, --help

show this help message and exit

`--request-format {json}`

DEPRECATED! Only JSON request format is supported.

`-D, --show-details`

Show detailed information.

`-F FIELD, --field FIELD`

Specify the field(s) to be returned by server. You can
repeat this option.

8.84. 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.

8.85. NEUTRON LB-HEALTHMONITOR-CREATE

```
usage: neutron lb-healthmonitor-create [-h] [-f
{json,shell,table,value,yaml}]
                                        [-c COLUMN] [--max-width
<integer>]
                                        [--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
                                        TIMEOUT --type
{PING,TCP,HTTP,HTTPS}
```

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.

8.86. 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.

8.87. NEUTRON LB-HEALTHMONITOR-DISASSOCIATE

```
usage: neutron lb-healthmonitor-disassociate [-h] [--request-format
{json}]
                                             HEALTH_MONITOR_ID POOL
```

Remove a mapping from a health monitor to a pool.

Positional arguments

HEALTH_MONITOR_ID

Health monitor to associate.

POOL

ID of the pool to be associated with the health
monitor.

Optional arguments

-h, --help

show this help message and exit

`--request-format {json}`

DEPRECATED! Only JSON request format is supported.

8.88. NEUTRON LB-HEALTHMONITOR-LIST

```
usage: neutron lb-healthmonitor-list [-h] [-f
{csv,json,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--noindent]
                                     [--quote
{all,minimal,none,nonnumeric}]
                                     [--request-format {json}] [-D]
[-F FIELD]
                                     [-P SIZE] [--sort-key FIELD]
                                     [--sort-dir {asc,desc}]
```

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.

8.89. NEUTRON LB-HEALTHMONITOR-SHOW

```
usage: neutron lb-healthmonitor-show [-h] [-f
{json,shell,table,value,yaml}]
                                               [-c COLUMN] [--max-width
<integer>]
                                               [--noindent] [--prefix PREFIX]
                                               [--request-format {json}] [-D]
[-F FIELD]
                                               HEALTH_MONITOR
```

Show information of a given health monitor.

Positional arguments

HEALTH_MONITOR

ID of health_monitor to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

8.90. 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.

8.91. NEUTRON LB-MEMBER-CREATE

```
usage: neutron lb-member-create [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                [--request-format {json}]
                                [--tenant-id TENANT_ID] [--admin-
state-down]
```

```
                                            [--weight WEIGHT] --address ADDRESS
                                            --protocol-port PROTOCOL_PORT
                                            POOL
```

Create a member.

Positional arguments

POOL

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.

8.92. 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.

8.93. NEUTRON LB-MEMBER-LIST

```
usage: neutron lb-member-list [-h] [-f {csv,json,table,value,yaml}]
                              [-c COLUMN] [--max-width <integer>] [--
noindent]
                              [--quote {all,minimal,none,nonnumeric}]
                              [--request-format {json}] [-D] [-F
FIELD]
                              [-P SIZE] [--sort-key FIELD]
                              [--sort-dir {asc,desc}]
```

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.

8.94. NEUTRON LB-MEMBER-SHOW

```
usage: neutron lb-member-show [-h] [-f {json,shell,table,value,yaml}]
                              [-c COLUMN] [--max-width <integer>] [--
noindent]
                              [--prefix PREFIX] [--request-format
{json}] [-D]
                              [-F FIELD]
                              MEMBER
```

Show information of a given member.

Positional arguments

`MEMBER`

ID of member to look up.

Optional arguments

`-h, --help`

show this help message and exit

`--request-format {json}`

DEPRECATED! Only JSON request format is supported.

`-D, --show-details`

Show detailed information.

`-F FIELD, --field FIELD`

Specify the field(s) to be returned by server. You can
repeat this option.

8.95. 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.

8.96. NEUTRON LB-POOL-CREATE

```
usage: neutron lb-pool-create [-h] [-f {json,shell,table,value,yaml}]
                              [-c COLUMN] [--max-width <integer>] [--
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.

8.97. 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.

8.98. NEUTRON LB-POOL-LIST

```
usage: neutron lb-pool-list [-h] [-f {csv,json,table,value,yaml}] [-c
COLUMN]
                            [--max-width <integer>] [--noindent]
                            [--quote {all,minimal,none,nonnumeric}]
                            [--request-format {json}] [-D] [-F FIELD]
                            [-P SIZE] [--sort-key FIELD]
                            [--sort-dir {asc,desc}]
```

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

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.

8.99. NEUTRON LB-POOL-LIST-ON-AGENT

```
usage: neutron lb-pool-list-on-agent [-h] [-f
{csv,json,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--noindent]
                                     [--quote
{all,minimal,none,nonnumeric}]
                                     [--request-format {json}] [-D]
[-F FIELD]
                                     LBAAS_AGENT
```

List the pools on a loadbalancer agent.

Positional arguments

LBAAS_AGENT

ID of the loadbalancer agent to query.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can
repeat this option.

8.100. NEUTRON LB-POOL-SHOW

```
usage: neutron lb-pool-show [-h] [-f {json,shell,table,value,yaml}]
                            [-c COLUMN] [--max-width <integer>] [--
noindent]
                            [--prefix PREFIX] [--request-format
{json}] [-D]
                            [-F FIELD]
                            POOL
```

Show information of a given pool.

Positional arguments

POOL

ID or name of pool to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can
repeat this option.

8.101. NEUTRON LB-POOL-STATS

```
usage: neutron lb-pool-stats [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX] [--request-format
{json}] [-D]
                             [-F FIELD]
                             POOL
```

Retrieve stats for a given pool.

Positional arguments

POOL

ID or name of pool to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can

Specify the field(s) to be returned by server. You can
repeat this option.

8.102. 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.

8.103. NEUTRON LB-VIP-CREATE

```
usage: neutron lb-vip-create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX] [--request-format
{json}]
                             [--tenant-id TENANT_ID] [--address
ADDRESS]
                             [--admin-state-down]
                             [--connection-limit CONNECTION_LIMIT]
                             [--description DESCRIPTION] --name NAME
                             --protocol-port PROTOCOL_PORT --protocol
                             {TCP,HTTP,HTTPS} --subnet-id SUBNET
                             POOL
```

Create a vip.

Positional arguments

POOL

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.

8.104. 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.

8.105. NEUTRON LB-VIP-LIST

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

```
                                   [--quote {all,minimal,none,nonnumeric}]
                                   [--request-format {json}] [-D] [-F FIELD]
  [-P SIZE]

                                   [--sort-key FIELD] [--sort-dir {asc,desc}]
```

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.

8.106. NEUTRON LB-VIP-SHOW

```
usage: neutron lb-vip-show [-h] [-f {json,shell,table,value,yaml}] [-c
COLUMN]
                               [--max-width <integer>] [--noindent]
                               [--prefix PREFIX] [--request-format
{json}] [-D]
                               [-F FIELD]
                               VIP
```

Show information of a given vip.

Positional arguments

VIP

ID or name of vip to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can
repeat this option.

8.107. 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.

8.108. NEUTRON LBAAS-AGENT-HOSTING-LOADBALANCER

```
usage: neutron lbaas-agent-hosting-loadbalancer [-h]
                                                [-f
{csv,json,table,value,yaml}]
                                                [-c COLUMN]
                                                [--max-width
<integer>]
                                                [--noindent]
                                                [--quote
{all,minimal,none,nonnumeric}]
                                                [--request-format
{json}] [-D]
                                                [-F FIELD]
                                                LOADBALANCER
```

Get lbaas v2 agent hosting a loadbalancer. Deriving from ListCommand though server will return only one agent to keep common output format for all agent schedulers

Positional arguments

LOADBALANCER

LoadBalancer to query.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

8.109. NEUTRON LBAAS-HEALTHMONITOR-CREATE

```
usage: neutron lbaas-healthmonitor-create [-h]
                                          [-f
{json,shell,table,value,yaml}]
                                          [-c COLUMN] [--max-width
<integer>]
                                          [--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
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.

8.110. 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.

8.111. NEUTRON LBAAS-HEALTHMONITOR-LIST

```
usage: neutron lbaas-healthmonitor-list [-h] [-f
{csv,json,table,value,yaml}]
                                        [-c COLUMN] [--max-width
<integer>]
                                        [--noindent]
                                        [--quote
{all,minimal,none,nonnumeric}]
                                        [--request-format {json}] [-
D]
                                        [-F FIELD] [-P SIZE]
                                        [--sort-key FIELD]
                                        [--sort-dir {asc,desc}]
```

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.

8.112. NEUTRON LBAAS-HEALTHMONITOR-SHOW

```
usage: neutron lbaas-healthmonitor-show [-h]
                                        [-f
{json,shell,table,value,yaml}]
                                        [-c COLUMN] [--max-width
<integer>]
                                        [--noindent] [--prefix
PREFIX]
                                        [--request-format {json}] [-
D]
                                        [-F FIELD]
                                        HEALTHMONITOR
```

LBaaS v2 Show information of a given healthmonitor.

Positional arguments

HEALTHMONITOR

ID or name of healthmonitor to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can
repeat this option.

8.113. NEUTRON LBAAS-HEALTHMONITOR-UPDATE

```
usage: neutron lbaas-healthmonitor-update [-h] [--request-format
{json}]
                                          [--delay DELAY] [--name
NAME]
                                          [--timeout TIMEOUT]
                                          [--http-method
HTTP_METHOD]
                                          [--url-path URL_PATH]
                                          [--max-retries
MAX_RETRIES]
                                          [--expected-codes
EXPECTED_CODES]
                                          [--admin-state-up
{True,False}]
                                          HEALTHMONITOR
```

LBaaS v2 Update a given healthmonitor.

Positional arguments

HEALTHMONITOR

ID or name of healthmonitor to update.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--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").

8.114. NEUTRON LBAAS-L7POLICY-CREATE

```
usage: neutron lbaas-l7policy-create [-h] [-f
{json,shell,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--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.

8.115. 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.

8.116. NEUTRON LBAAS-L7POLICY-LIST

```
usage: neutron lbaas-l7policy-list [-h] [-f
{csv,json,table,value,yaml}]
                                   [-c COLUMN] [--max-width
<integer>]
                                   [--noindent]
                                   [--quote
{all,minimal,none,nonnumeric}]
                                   [--request-format {json}] [-D] [-F
FIELD]
                                   [-P SIZE] [--sort-key FIELD]
                                   [--sort-dir {asc,desc}]
```

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.

8.117. NEUTRON LBAAS-L7POLICY-SHOW

```
usage: neutron lbaas-l7policy-show [-h] [-f
{json,shell,table,value,yaml}]
                                            [-c COLUMN] [--max-width
<integer>]
                                            [--noindent] [--prefix PREFIX]
                                            [--request-format {json}] [-D] [-F
FIELD]
                                            L7POLICY
```

LBaaS v2 Show information of a given L7 policy.

Positional arguments

L7POLICY

ID or name of l7policy to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

8.118. 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").

8.119. NEUTRON LBAAS-L7RULE-CREATE

```
usage: neutron lbaas-l7rule-create [-h] [-f
{json,shell,table,value,yaml}]
                                   [-c COLUMN] [--max-width
<integer>]
                                   [--noindent] [--prefix PREFIX]
                                   [--request-format {json}]
                                   [--tenant-id TENANT_ID] --type

{HOST_NAME,PATH,FILE_TYPE,HEADER,COOKIE}
                                   --compare-type

{REGEX,STARTS_WITH,ENDS_WITH,CONTAINS,EQUAL_TO}
                                   [--invert-compare] [--key KEY] --
value
                                   VALUE [--admin-state-down]
                                   L7POLICY
```

LBaaS v2 Create L7 rule.

Positional arguments

L7POLICY

ID or name of L7 policy this rule belongs to.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--type {HOST_NAME,PATH,FILE_TYPE,HEADER,COOKIE}

Rule type.

--compare-type {REGEX,STARTS_WITH,ENDS_WITH,CONTAINS,EQUAL_TO}

Rule compare type.

`--invert-compare`

Invert the compare type.

`--key KEY`

Key to compare. Relevant for HEADER and COOKIE types only.

`--value VALUE`

Value to compare.

`--admin-state-down`

Set admin state up to false

8.120. 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.

8.121. NEUTRON LBAAS-L7RULE-LIST

```
usage: neutron lbaas-l7rule-list [-h] [-f {csv,json,table,value,yaml}]
                                 [-c COLUMN] [--max-width <integer>]
                                 [--noindent]
                                 [--quote
{all,minimal,none,nonnumeric}]
                                 [--request-format {json}] [-D] [-F
FIELD]
                                 [-P SIZE] [--sort-key FIELD]
                                 [--sort-dir {asc,desc}]
                                 L7POLICY
```

LBaaS v2 List L7 rules that belong to a given L7 policy.

Positional arguments

L7POLICY

ID or name of L7 policy this rule belongs to.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

-P SIZE, --page-size SIZE

Specify retrieve unit of each request, then split one request to several requests.

--sort-key FIELD

Sorts the list by the specified fields in the specified directions. You can repeat this option, but you must specify an equal number of sort_dir and sort_key values. Extra sort_dir options are ignored. Missing sort_dir options use the default asc value.

--sort-dir {asc,desc}

Sorts the list in the specified direction. You can repeat this option.

8.122. NEUTRON LBAAS-L7RULE-SHOW

```
usage: neutron lbaas-l7rule-show [-h] [-f
{json,shell,table,value,yaml}]
                                 [-c COLUMN] [--max-width <integer>]
                                 [--noindent] [--prefix PREFIX]
                                 [--request-format {json}] [-D] [-F
FIELD]
                                 RULE L7POLICY
```

LBaaS v2 Show information of a given rule.

Positional arguments

RULE

ID or name of rule to look up.

L7POLICY

ID or name of L7 policy this rule belongs to.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can
repeat this option.

8.123. 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").

8.124. NEUTRON LBAAS-LISTENER-CREATE

```
usage: neutron lbaas-listener-create [-h] [-f
{json,shell,table,value,yaml}]
                                     [-c COLUMN] [--max-width
```

```
 <integer>]
                                     [--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 ...]]
                                     [--loadbalancer LOADBALANCER] --
 protocol

 {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 vip. 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.

8.125. 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.

8.126. NEUTRON LBAAS-LISTENER-LIST

```
usage: neutron lbaas-listener-list [-h] [-f
{csv,json,table,value,yaml}]
                                   [-c COLUMN] [--max-width
<integer>]
                                   [--noindent]
                                   [--quote
{all,minimal,none,nonnumeric}]
                                   [--request-format {json}] [-D] [-F
FIELD]
                                   [-P SIZE] [--sort-key FIELD]
                                   [--sort-dir {asc,desc}]
```

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.

8.127. NEUTRON LBAAS-LISTENER-SHOW

```
usage: neutron lbaas-listener-show [-h] [-f
{json,shell,table,value,yaml}]
                                        [-c COLUMN] [--max-width
<integer>]
                                        [--noindent] [--prefix PREFIX]
                                        [--request-format {json}] [-D] [-F
FIELD]
                                        LISTENER
```

LBaaS v2 Show information of a given listener.

Positional arguments

LISTENER

ID or name of listener to look up.

Optional arguments

-h, --help

>   show this help message and exit

--request-format {json}

>   *DEPRECATED!* Only JSON request format is supported.

-D, --show-details

>   Show detailed information.

-F FIELD, --field FIELD

>   Specify the field(s) to be returned by server. You can
>   repeat this option.

8.128. 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 vip. 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")

8.129. NEUTRON LBAAS-LOADBALANCER-CREATE

```
usage: neutron lbaas-loadbalancer-create [-h]
                                         [-f
{json,shell,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--noindent] [--prefix
PREFIX]
                                         [--request-format {json}]
                                         [--tenant-id TENANT_ID]
                                         [--description DESCRIPTION]
                                         [--name NAME] [--admin-
state-down]
```

```
[--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.

8.130. 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.

8.131. NEUTRON LBAAS-LOADBALANCER-LIST

```
usage: neutron lbaas-loadbalancer-list [-h] [-f
{csv,json,table,value,yaml}]
                                       [-c COLUMN] [--max-width
<integer>]
                                       [--noindent]
                                       [--quote
```

```
{all,minimal,none,nonnumeric}]
                                                    [--request-format {json}] [-
D]
                                                    [-F FIELD] [-P SIZE] [--sort-
key FIELD]
                                                    [--sort-dir {asc,desc}]
```

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.

8.132. NEUTRON LBAAS-LOADBALANCER-LIST-ON-AGENT

```
usage: neutron lbaas-loadbalancer-list-on-agent [-h]
                                                 [-f
{csv,json,table,value,yaml}]
                                                 [-c COLUMN]
                                                 [--max-width
<integer>]
                                                 [--noindent]
                                                 [--quote
{all,minimal,none,nonnumeric}]
                                                 [--request-format
{json}] [-D]
                                                 [-F FIELD]
                                                 LBAAS_AGENT
```

List the loadbalancers on a loadbalancer v2 agent.

Positional arguments

LBAAS_AGENT

ID of the loadbalancer agent to query.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

8.133. NEUTRON LBAAS-LOADBALANCER-SHOW

```
usage: neutron lbaas-loadbalancer-show [-h] [-f
{json,shell,table,value,yaml}]
                                       [-c COLUMN] [--max-width
<integer>]
                                       [--noindent] [--prefix
PREFIX]
                                       [--request-format {json}] [-
D]
                                       [-F FIELD]
                                       LOADBALANCER
```

LBaaS v2 Show information of a given loadbalancer.

Positional arguments

LOADBALANCER

ID or name of loadbalancer to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

8.134. NEUTRON LBAAS-LOADBALANCER-STATS

```
usage: neutron lbaas-loadbalancer-stats [-h]
                                        [-f
{json,shell,table,value,yaml}]
                                        [-c COLUMN] [--max-width
<integer>]
                                        [--noindent] [--prefix
PREFIX]
                                        [--request-format {json}] [-
D]
                                        [-F FIELD]
                                        LOADBALANCER
```

Retrieve stats for a given loadbalancer.

Positional arguments

LOADBALANCER

ID or name of loadbalancer to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can
repeat this option.

8.135. 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.

8.136. 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.

8.137. NEUTRON LBAAS-MEMBER-CREATE

```
usage: neutron lbaas-member-create [-h] [-f
{json,shell,table,value,yaml}]
                                    [-c COLUMN] [--max-width
<integer>]
                                    [--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.

8.138. 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.

8.139. NEUTRON LBAAS-MEMBER-LIST

```
usage: neutron lbaas-member-list [-h] [-f {csv,json,table,value,yaml}]
                                 [-c COLUMN] [--max-width <integer>]
                                 [--noindent]
                                 [--quote
{all,minimal,none,nonnumeric}]
                                 [--request-format {json}] [-D] [-F
FIELD]
                                 [-P SIZE] [--sort-key FIELD]
                                 [--sort-dir {asc,desc}]
                                 POOL
```

LBaaS v2 List members that belong to a given pool.

Positional arguments

POOL

ID or name of the pool that this member belongs to.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can
repeat this option.

-P SIZE, --page-size SIZE

Specify retrieve unit of each request, then split one
request to several requests.

--sort-key FIELD

Sorts the list by the specified fields in the
specified directions. You can repeat this option, but
you must specify an equal number of sort_dir and
sort_key values. Extra sort_dir options are ignored.
Missing sort_dir options use the default asc value.

--sort-dir {asc,desc}

Sorts the list in the specified direction. You can
repeat this option.

8.140. NEUTRON LBAAS-MEMBER-SHOW

```
usage: neutron lbaas-member-show [-h] [-f
{json,shell,table,value,yaml}]
                                 [-c COLUMN] [--max-width <integer>]
                                 [--noindent] [--prefix PREFIX]
                                 [--request-format {json}] [-D] [-F
FIELD]
                                 MEMBER POOL
```

LBaaS v2 Show information of a given member.

Positional arguments

MEMBER

ID or name of member to look up.

POOL

ID or name of the pool that this member belongs to.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can
repeat this option.

8.141. NEUTRON LBAAS-MEMBER-UPDATE

8.141. 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]).

8.142. NEUTRON LBAAS-POOL-CREATE

```
usage: neutron lbaas-pool-create [-h] [-f
{json,shell,table,value,yaml}]
                                    [-c COLUMN] [--max-width <integer>]
                                    [--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.

8.143. 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.

8.144. NEUTRON LBAAS-POOL-LIST

```
usage: neutron lbaas-pool-list [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN] [--max-width <integer>]
                               [--noindent]
                               [--quote
{all,minimal,none,nonnumeric}]
                               [--request-format {json}] [-D] [-F
FIELD]
                               [-P SIZE] [--sort-key FIELD]
                               [--sort-dir {asc,desc}]
```

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.

8.145. NEUTRON LBAAS-POOL-SHOW

```
usage: neutron lbaas-pool-show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--max-width <integer>]
                               [--noindent] [--prefix PREFIX]
                               [--request-format {json}] [-D] [-F
FIELD]
                               POOL
```

LBaaS v2 Show information of a given pool.

Positional arguments

POOL

ID or name of pool to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can
repeat this option.

8.146. 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]]
                                 [--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.

--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.

8.147. NEUTRON METER-LABEL-CREATE

```
usage: neutron meter-label-create [-h] [-f
{json,shell,table,value,yaml}]
                                   [-c COLUMN] [--max-width <integer>]
                                   [--noindent] [--prefix PREFIX]
                                   [--request-format {json}]
                                   [--tenant-id TENANT_ID]
                                   [--description DESCRIPTION] [--
shared]
                                   NAME
```

Create a metering label for a given tenant.

Positional arguments

NAME

Name of 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.

8.148. 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.

8.149. NEUTRON METER-LABEL-LIST

```
usage: neutron meter-label-list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent]
                                [--quote
{all,minimal,none,nonnumeric}]
                                [--request-format {json}] [-D] [-F
FIELD]
                                [-P SIZE] [--sort-key FIELD]
                                [--sort-dir {asc,desc}]
```

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.

8.150. NEUTRON METER-LABEL-RULE-CREATE

```
usage: neutron meter-label-rule-create [-h] [-f
{json,shell,table,value,yaml}]
                                        [-c COLUMN] [--max-width
<integer>]
                                        [--noindent] [--prefix
PREFIX]
                                        [--request-format {json}]
                                        [--tenant-id TENANT_ID]
                                        [--direction {ingress,egress}]
                                        [--excluded]
                                        LABEL REMOTE_IP_PREFIX
```

Create a metering label rule for a given label.

Positional arguments

LABEL

ID or name of the label.

REMOTE_IP_PREFIX

CIDR to match on.

Optional arguments

-h, --help

show this help message and exit

`--request-format {json}`

DEPRECATED! Only JSON request format is supported.

`--tenant-id TENANT_ID`

The owner tenant ID.

`--direction {ingress,egress}`

Direction of traffic, default: ingress.

`--excluded`

Exclude this CIDR from the label, default: not excluded.

8.151. 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) or name(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.

8.152. NEUTRON METER-LABEL-RULE-LIST

```
usage: neutron meter-label-rule-list [-h] [-f
{csv,json,table,value,yaml}]
                                        [-c COLUMN] [--max-width
<integer>]
                                        [--noindent]
                                        [--quote
{all,minimal,none,nonnumeric}]
                                        [--request-format {json}] [-D]
[-F FIELD]
                                        [-P SIZE] [--sort-key FIELD]
                                        [--sort-dir {asc,desc}]
```

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.

8.153. NEUTRON METER-LABEL-RULE-SHOW

```
usage: neutron meter-label-rule-show [-h] [-f
{json,shell,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--noindent] [--prefix PREFIX]
                                     [--request-format {json}] [-D]
[-F FIELD]
                                     METERING_LABEL_RULE
```

Show information of a given metering label rule.

Positional arguments

METERING_LABEL_RULE

ID or name of metering_label_rule to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can
repeat this option.

8.154. NEUTRON METER-LABEL-SHOW

```
usage: neutron meter-label-show [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                [--request-format {json}] [-D] [-F
FIELD]
                                METERING_LABEL
```

Show information of a given metering label.

Positional arguments

METERING_LABEL

ID or name of metering_label to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can
repeat this option.

8.155. NEUTRON NET-CREATE

```
usage: neutron net-create [-h] [-f {json,shell,table,value,yaml}] [-c
COLUMN]
                                [--max-width <integer>] [--noindent]
                                [--prefix PREFIX] [--request-format {json}]
                                [--tenant-id TENANT_ID] [--admin-state-
down]
                                [--shared] [--provider:network_type
<network_type>]
                                [--provider:physical_network
<physical_network_name>]
                                [--provider:segmentation_id
<segmentation_id>]
                                [--vlan-transparent {True,False}]
                                [--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 shouldbe 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)

8.156. 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.

8.157. NEUTRON NET-EXTERNAL-LIST

```
usage: neutron net-external-list [-h] [-f {csv,json,table,value,yaml}]
                                 [-c COLUMN] [--max-width <integer>]
                                 [--noindent]
                                 [--quote
{all,minimal,none,nonnumeric}]
                                 [--request-format {json}] [-D] [-F
FIELD]
                                 [-P SIZE] [--sort-key FIELD]
                                 [--sort-dir {asc,desc}]
                                 [--tenant-id TENANT_ID] [--name
```

```
    NAME]
                                           [--admin-state-up {True,False}]
                                           [--status STATUS] [--shared
    {True,False}]
                                           [--router:external {True,False}] [--
    tags TAG]
                                           [--tags-any TAG] [--not-tags TAG]
                                           [--not-tags-any TAG]
```

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.

8.158. NEUTRON NET-IP-AVAILABILITY-LIST

```
usage: neutron net-ip-availability-list [-h] [-f
{csv,json,table,value,yaml}]
                                        [-c COLUMN] [--max-width
<integer>]
                                        [--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.

8.159. NEUTRON NET-IP-AVAILABILITY-SHOW

```
usage: neutron net-ip-availability-show [-h]
                                        [-f
{json,shell,table,value,yaml}]
                                        [-c COLUMN] [--max-width
<integer>]
                                        [--noindent] [--prefix
PREFIX]
                                        [--request-format {json}]
                                        NETWORK
```

Show IP usage of specific network

Positional arguments

NETWORK

ID or name of network to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

8.160. NEUTRON NET-LIST

```
usage: neutron net-list [-h] [-f {csv,json,table,value,yaml}] [-c
COLUMN]
                        [--max-width <integer>] [--noindent]
                        [--quote {all,minimal,none,nonnumeric}]
                        [--request-format {json}] [-D] [-F FIELD] [-P
SIZE]
                        [--sort-key FIELD] [--sort-dir {asc,desc}]
                        [--tenant-id TENANT_ID] [--name NAME]
                        [--admin-state-up {True,False}] [--status
STATUS]
                        [--shared {True,False}]
                        [--router:external {True,False}] [--tags TAG]
                        [--tags-any TAG] [--not-tags TAG] [--not-
tags-any TAG]
```

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.

8.161. NEUTRON NET-LIST-ON-DHCP-AGENT

```
usage: neutron net-list-on-dhcp-agent [-h] [-f
{csv,json,table,value,yaml}]
                                      [-c COLUMN] [--max-width
<integer>]
                                      [--noindent]
                                      [--quote
{all,minimal,none,nonnumeric}]
                                      [--request-format {json}] [-D]
                                      [-F FIELD] [-P SIZE] [--sort-
key FIELD]
                                      [--sort-dir {asc,desc}]
                                      [--tenant-id TENANT_ID] [--name
NAME]
                                      [--admin-state-up {True,False}]
                                      [--status STATUS]
                                      [--shared {True,False}]
                                      [--router:external
{True,False}]
                                      [--tags TAG] [--tags-any TAG]
                                      [--not-tags TAG] [--not-tags-
any TAG]
                                      DHCP_AGENT
```

List the networks on a DHCP agent.

Positional arguments

DHCP_AGENT

ID of the DHCP agent.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can
repeat this option.

-P SIZE, --page-size SIZE

Specify retrieve unit of each request, then split one
request to several requests.

--sort-key FIELD

Sorts the list by the specified fields in the
specified directions. You can repeat this option, but
you must specify an equal number of sort_dir and
sort_key values. Extra sort_dir options are ignored.
Missing sort_dir options use the default asc value.

--sort-dir {asc,desc}

Sorts the list in the specified direction. You can
repeat this option.

8.162. NEUTRON NET-SHOW

```
usage: neutron net-show [-h] [-f {json,shell,table,value,yaml}] [-c
COLUMN]
                               [--max-width <integer>] [--noindent] [--
prefix PREFIX]
                               [--request-format {json}] [-D] [-F FIELD]
                               NETWORK
```

Show information of a given network.

Positional arguments

NETWORK

ID or name of network to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can
repeat this option.

8.163. 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 shouldbe 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.)

8.164. NEUTRON PORT-CREATE

```
usage: neutron port-create [-h] [-f {json,shell,table,value,yaml}] [-c
COLUMN]
                               [--max-width <integer>] [--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_na
me=<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 shouldbe 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)

8.165. 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.

8.166. NEUTRON PORT-LIST

```
usage: neutron port-list [-h] [-f {csv,json,table,value,yaml}] [-c
COLUMN]
                             [--max-width <integer>] [--noindent]
                             [--quote {all,minimal,none,nonnumeric}]
                             [--request-format {json}] [-D] [-F FIELD] [-
P SIZE]
                             [--sort-key FIELD] [--sort-dir {asc,desc}]
```

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.

8.167. NEUTRON PORT-SHOW

```
usage: neutron port-show [-h] [-f {json,shell,table,value,yaml}] [-c
COLUMN]
                              [--max-width <integer>] [--noindent]
                              [--prefix PREFIX] [--request-format {json}]
[-D]
                              [-F FIELD]
                              PORT
```

Show information of a given port.

Positional arguments

PORT

ID or name of port to look up.

Optional arguments

-h, --help

show this help message and exit

`--request-format {json}`

DEPRECATED! Only JSON request format is supported.

`-D, --show-details`

Show detailed information.

`-F FIELD, --field FIELD`

Specify the field(s) to be returned by server. You can repeat this option.

8.168. 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_na
> me=<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 shouldbe 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.)

8.169. 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.

8.170. NEUTRON QOS-AVAILABLE-RULE-TYPES

```
usage: neutron qos-available-rule-types [-h] [-f
{csv,json,table,value,yaml}]
                                        [-c COLUMN] [--max-width
<integer>]
                                        [--noindent]
                                        [--quote
{all,minimal,none,nonnumeric}]
                                        [--request-format {json}] [-
D]
                                        [-F FIELD] [-P SIZE]
                                        [--sort-key FIELD]
                                        [--sort-dir {asc,desc}]
```

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.

8.171. NEUTRON QOS-BANDWIDTH-LIMIT-RULE-CREATE

```
usage: neutron qos-bandwidth-limit-rule-create [-h]
                                               [-f
{json,shell,table,value,yaml}]
                                               [-c COLUMN]
                                               [--max-width
<integer>]
                                               [--noindent] [--
prefix PREFIX]
                                               [--request-format
{json}]
                                               [--tenant-id
TENANT_ID]
```

```
                                                    [--max-kbps MAX_KBPS]
                                                    [--max-burst-kbps
MAX_BURST_KBPS]

                                                    QOS_POLICY
```

Create a qos bandwidth limit rule.

Positional arguments

QOS_POLICY

> ID or name of the QoS policy.

Optional arguments

-h, --help

> show this help message and exit

--request-format {json}

> *DEPRECATED!* Only JSON request format is supported.

--tenant-id TENANT_ID

> The owner tenant ID.

--max-kbps MAX_KBPS

> Maximum bandwidth in kbps.

--max-burst-kbps MAX_BURST_KBPS

> Maximum burst bandwidth in kbps.

8.172. NEUTRON QOS-BANDWIDTH-LIMIT-RULE-DELETE

```
usage: neutron qos-bandwidth-limit-rule-delete [-h] [--request-format
{json}]
                                               BANDWIDTH_LIMIT_RULE
                                               [BANDWIDTH_LIMIT_RULE
```

```
...]
```
<div style="text-align:center">QOS_POLICY</div>

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.

8.173. NEUTRON QOS-BANDWIDTH-LIMIT-RULE-LIST

```
usage: neutron qos-bandwidth-limit-rule-list [-h]
                                             [-f
{csv,json,table,value,yaml}]
                                             [-c COLUMN]
                                             [--max-width <integer>]
                                             [--noindent]
                                             [--quote
{all,minimal,none,nonnumeric}]
                                             [--request-format
{json}] [-D]
                                             [-F FIELD] [-P SIZE]
                                             [--sort-key FIELD]
                                             [--sort-dir {asc,desc}]
                                             QOS_POLICY
```

List all qos bandwidth limit rules belonging to the specified policy.

Positional arguments

QOS_POLICY

ID or name of the QoS policy.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can
repeat this option.

-P SIZE, --page-size SIZE

Specify retrieve unit of each request, then split one
request to several requests.

--sort-key FIELD

Sorts the list by the specified fields in the
specified directions. You can repeat this option, but
you must specify an equal number of sort_dir and
sort_key values. Extra sort_dir options are ignored.
Missing sort_dir options use the default asc value.

--sort-dir {asc,desc}

Sorts the list in the specified direction. You can
repeat this option.

8.174. NEUTRON QOS-BANDWIDTH-LIMIT-RULE-SHOW

```
usage: neutron qos-bandwidth-limit-rule-show [-h]
                                             [-f
{json,shell,table,value,yaml}]

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

                                             [--request-format
{json}] [-D]

                                             [-F FIELD]
                                             BANDWIDTH_LIMIT_RULE

QOS_POLICY
```

Show information about the given qos bandwidth limit rule.

Positional arguments

BANDWIDTH_LIMIT_RULE

ID of bandwidth_limit_rule to look up.

QOS_POLICY

ID or name of the QoS policy.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can
repeat this option.

8.175. 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.

8.176. NEUTRON QOS-DSCP-MARKING-RULE-CREATE

```
usage: neutron qos-dscp-marking-rule-create [-h]
                                            [-f
{json,shell,table,value,yaml}]

                                            [-c COLUMN]
                                            [--max-width <integer>]
                                            [--noindent] [--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.

8.177. 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.

8.178. NEUTRON QOS-DSCP-MARKING-RULE-LIST

```
usage: neutron qos-dscp-marking-rule-list [-h]
                                          [-f
{csv,json,table,value,yaml}]
                                          [-c COLUMN] [--max-width
<integer>]
                                          [--noindent]
                                          [--quote
{all,minimal,none,nonnumeric}]
                                          [--request-format {json}]
[-D]
```

```
                                          [-F FIELD] [-P SIZE]
                                          [--sort-key FIELD]
                                          [--sort-dir {asc,desc}]
                                          QOS_POLICY
```

List all QoS 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.

8.179. NEUTRON QOS-DSCP-MARKING-RULE-SHOW

```
usage: neutron qos-dscp-marking-rule-show [-h]
                                          [-f
{json,shell,table,value,yaml}]
                                          [-c COLUMN] [--max-width
<integer>]
                                          [--noindent] [--prefix
PREFIX]
                                          [--request-format {json}]
[-D]
                                          [-F FIELD]
                                          DSCP_MARKING_RULE
QOS_POLICY
```

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.

8.180. 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.

8.181. NEUTRON QOS-MINIMUM-BANDWIDTH-RULE-CREATE

```
usage: neutron qos-minimum-bandwidth-rule-create [-h]
                                                 [-f
{json,shell,table,value,yaml}]
                                                 [-c COLUMN]
                                                 [--max-width
<integer>]
                                                 [--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.

8.182. 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.

8.183. NEUTRON QOS-MINIMUM-BANDWIDTH-RULE-LIST

```
usage: neutron qos-minimum-bandwidth-rule-list [-h]
                                                [-f
{csv,json,table,value,yaml}]
                                                [-c COLUMN]
                                                [--max-width
<integer>]
                                                [--noindent]
                                                [--quote
{all,minimal,none,nonnumeric}]
                                                [--request-format
{json}] [-D]
                                                [-F FIELD] [-P SIZE]
                                                [--sort-key FIELD]
                                                [--sort-dir
{asc,desc}]
                                                QOS_POLICY
```

List all qos 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.

8.184. NEUTRON QOS-MINIMUM-BANDWIDTH-RULE-SHOW

```
usage: neutron qos-minimum-bandwidth-rule-show [-h]
                                               [-f
{json,shell,table,value,yaml}]
                                               [-c COLUMN]
                                               [--max-width
<integer>]
                                               [--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.

8.185. NEUTRON QOS-MINIMUM-BANDWIDTH-RULE-UPDATE

```
usage: neutron qos-minimum-bandwidth-rule-update [-h]
                                                 [--request-format
{json}]
                                                 --min-kbps MIN_KBPS
                                                 --direction
{egress}

MINIMUM_BANDWIDTH_RULE

                                                 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.

8.186. NEUTRON QOS-POLICY-CREATE

```
usage: neutron qos-policy-create [-h] [-f
{json,shell,table,value,yaml}]
                                  [-c COLUMN] [--max-width <integer>]
                                  [--noindent] [--prefix PREFIX]
                                  [--request-format {json}]
                                  [--tenant-id TENANT_ID]
                                  [--description DESCRIPTION] [--
shared]
                                  NAME
```

Create a qos policy.

Positional arguments

NAME

Name of 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).

8.187. 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.

8.188. NEUTRON QOS-POLICY-LIST

```
usage: neutron qos-policy-list [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN] [--max-width <integer>]
                               [--noindent]
                               [--quote
{all,minimal,none,nonnumeric}]
                               [--request-format {json}] [-D] [-F
FIELD]
                               [-P SIZE] [--sort-key FIELD]
                               [--sort-dir {asc,desc}]
```

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.

8.189. NEUTRON QOS-POLICY-SHOW

```
usage: neutron qos-policy-show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--max-width <integer>]
                               [--noindent] [--prefix PREFIX]
                               [--request-format {json}] [-D] [-F
FIELD]
                               POLICY
```

Show information of a given qos policy.

Positional arguments

POLICY

ID or name of policy to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can
repeat this option.

8.190. 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.

8.191. NEUTRON QUOTA-DEFAULT-SHOW

```
usage: neutron quota-default-show [-h] [-f
{json,shell,table,value,yaml}]
                                  [-c COLUMN] [--max-width <integer>]
                                  [--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.

8.192. 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.

8.193. NEUTRON QUOTA-LIST

```
usage: neutron quota-list [-h] [-f {csv,json,table,value,yaml}] [-c
COLUMN]
                                  [--max-width <integer>] [--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.

8.194. NEUTRON QUOTA-SHOW

```
usage: neutron quota-show [-h] [-f {json,shell,table,value,yaml}] [-c
COLUMN]
                                  [--max-width <integer>] [--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.

8.195. NEUTRON QUOTA-UPDATE

```
usage: neutron quota-update [-h] [-f {json,shell,table,value,yaml}]
                                   [-c COLUMN] [--max-width <integer>] [--
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]
```

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.

8.196. NEUTRON RBAC-CREATE

```
usage: neutron rbac-create [-h] [-f {json,shell,table,value,yaml}] [-c
COLUMN]
                           [--max-width <integer>] [--noindent]
                           [--prefix PREFIX] [--request-format
{json}]
                           [--tenant-id TENANT_ID] --type {qos-
policy,network}
                           [--target-tenant TARGET_TENANT] --action
                           {access_as_external,access_as_shared}
                           RBAC_OBJECT
```

Create a RBAC policy for a given tenant.

Positional arguments

RBAC_OBJECT

ID or name of the RBAC object.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

--tenant-id TENANT_ID

The owner tenant ID.

--type {qos-policy,network}

Type of the object that RBAC policy affects.

--target-tenant TARGET_TENANT

ID of the tenant to which the RBAC policy will be enforced.

--action {access_as_external,access_as_shared}

Action for the RBAC policy.

8.197. 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.

8.198. NEUTRON RBAC-LIST

```
usage: neutron rbac-list [-h] [-f {csv,json,table,value,yaml}] [-c
COLUMN]
                              [--max-width <integer>] [--noindent]
                              [--quote {all,minimal,none,nonnumeric}]
                              [--request-format {json}] [-D] [-F FIELD] [-
P SIZE]
                              [--sort-key FIELD] [--sort-dir {asc,desc}]
```

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

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.

8.199. NEUTRON RBAC-SHOW

```
usage: neutron rbac-show [-h] [-f {json,shell,table,value,yaml}] [-c
COLUMN]
                         [--max-width <integer>] [--noindent]
                         [--prefix PREFIX] [--request-format {json}]
[-D]
                         [-F FIELD]
                         RBAC_POLICY
```

Show information of a given RBAC policy.

Positional arguments

RBAC_POLICY

ID of rbac_policy to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can
repeat this option.

8.200. 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.

8.201. NEUTRON ROUTER-CREATE

```
usage: neutron router-create [-h] [-f {json,shell,table,value,yaml}]
```

```
                                      [-c COLUMN] [--max-width <integer>] [--
  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).

8.202. 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.

8.203. 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.

8.204. NEUTRON ROUTER-GATEWAY-SET

```
usage: neutron router-gateway-set [-h] [--request-format {json}]
                                  [--disable-snat]
                                  [--fixed-ip
subnet_id=SUBNET,ip_address=IP_ADDR]
                                  ROUTER EXTERNAL-NETWORK
```

Set the external network gateway for a router.

Positional arguments

ROUTER

ID or name of the router.

EXTERNAL-NETWORK

ID or name of the external network for the gateway.

Optional arguments

`-h, --help`

show this help message and exit

`--request-format {json}`

DEPRECATED! Only JSON request format is supported.

`--disable-snat`

Disable source NAT on the router gateway.

`--fixed-ip`

subnet_id=SUBNET,ip_address=IP_ADDR
Desired IP and/or subnet on external network:
subnet_id=<name_or_id>,ip_address=<ip>. You can
specify both of subnet_id and ip_address or specify
one of them as well. You can repeat this option.

8.205. 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.

8.206. 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.

8.207. NEUTRON ROUTER-LIST

```
usage: neutron router-list [-h] [-f {csv,json,table,value,yaml}] [-c
COLUMN]
                           [--max-width <integer>] [--noindent]
                           [--quote {all,minimal,none,nonnumeric}]
                           [--request-format {json}] [-D] [-F FIELD]
[-P SIZE]
                           [--sort-key FIELD] [--sort-dir {asc,desc}]
```

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.

8.208. NEUTRON ROUTER-LIST-ON-L3-AGENT

```
usage: neutron router-list-on-l3-agent [-h] [-f
{csv,json,table,value,yaml}]
                                        [-c COLUMN] [--max-width
<integer>]
                                        [--noindent]
                                        [--quote
{all,minimal,none,nonnumeric}]
                                        [--request-format {json}] [-
D]
                                        [-F FIELD]
                                        L3_AGENT
```

List the routers on a L3 agent.

Positional arguments

L3_AGENT

ID of the L3 agent to query.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

8.209. NEUTRON ROUTER-PORT-LIST

```
usage: neutron router-port-list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent]
                                [--quote
{all,minimal,none,nonnumeric}]
                                [--request-format {json}] [-D] [-F
FIELD]
                                [-P SIZE] [--sort-key FIELD]
                                [--sort-dir {asc,desc}]
                                ROUTER
```

List ports that belong to a given tenant, with specified router.

Positional arguments

ROUTER

ID or name of 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.

8.210. NEUTRON ROUTER-SHOW

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

                                [-F FIELD]
                                ROUTER
```

Show information of a given router.

Positional arguments

ROUTER

ID or name of router to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can
repeat this option.

8.211. 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.

8.212. NEUTRON SECURITY-GROUP-CREATE

```
usage: neutron security-group-create [-h] [-f
{json,shell,table,value,yaml}]
                                            [-c COLUMN] [--max-width
<integer>]
                                            [--noindent] [--prefix PREFIX]
                                            [--request-format {json}]
                                            [--tenant-id TENANT_ID]
                                            [--description DESCRIPTION]
                                            NAME
```

Create a security group.

Positional arguments

NAME

Name of 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.

8.213. 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.

8.214. NEUTRON SECURITY-GROUP-LIST

```
usage: neutron security-group-list [-h] [-f
{csv,json,table,value,yaml}]
                                   [-c COLUMN] [--max-width
<integer>]
                                   [--noindent]
                                   [--quote
{all,minimal,none,nonnumeric}]
                                   [--request-format {json}] [-D] [-F
FIELD]
                                   [-P SIZE] [--sort-key FIELD]
                                   [--sort-dir {asc,desc}]
```

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.

8.215. NEUTRON SECURITY-GROUP-RULE-CREATE

```
usage: neutron security-group-rule-create [-h]
                                          [-f
{json,shell,table,value,yaml}]
                                          [-c COLUMN] [--max-width
<integer>]
                                          [--noindent] [--prefix
PREFIX]
                                          [--request-format {json}]
                                          [--tenant-id TENANT_ID]
                                          [--description
DESCRIPTION]
                                          [--direction
{ingress,egress}]
                                          [--ethertype ETHERTYPE]
                                          [--protocol PROTOCOL]
                                          [--port-range-min
PORT_RANGE_MIN]
                                          [--port-range-max
PORT_RANGE_MAX]
                                          [--remote-ip-prefix
REMOTE_IP_PREFIX]
                                          [--remote-group-id
REMOTE_GROUP]
                                          SECURITY_GROUP
```

Create a security group rule.

Positional arguments

SECURITY_GROUP

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.

8.216. 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.

8.217. NEUTRON SECURITY-GROUP-RULE-LIST

```
usage: neutron security-group-rule-list [-h] [-f
{csv,json,table,value,yaml}]
                                        [-c COLUMN] [--max-width
<integer>]
                                        [--noindent]
                                        [--quote
{all,minimal,none,nonnumeric}]
                                        [--request-format {json}] [-
D]
                                        [-F FIELD] [-P SIZE]
                                        [--sort-key FIELD]
                                        [--sort-dir {asc,desc}]
                                        [--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.

8.218. NEUTRON SECURITY-GROUP-RULE-SHOW

```
usage: neutron security-group-rule-show [-h]
                                        [-f
{json,shell,table,value,yaml}]
                                        [-c COLUMN] [--max-width
<integer>]
                                        [--noindent] [--prefix
PREFIX]
                                        [--request-format {json}] [-
D]
                                        [-F FIELD]
                                        SECURITY_GROUP_RULE
```

Show information of a given security group rule.

Positional arguments

SECURITY_GROUP_RULE

ID of security_group_rule to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

8.219. NEUTRON SECURITY-GROUP-SHOW

```
usage: neutron security-group-show [-h] [-f
{json,shell,table,value,yaml}]
                                   [-c COLUMN] [--max-width
<integer>]
                                   [--noindent] [--prefix PREFIX]
                                   [--request-format {json}] [-D] [-F
FIELD]
                                   SECURITY_GROUP
```

Show information of a given security group.

Positional arguments

SECURITY_GROUP

ID or name of security_group to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can repeat this option.

8.220. 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.

8.221. NEUTRON SERVICE-PROVIDER-LIST

```
usage: neutron service-provider-list [-h] [-f
{csv,json,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--noindent]
                                     [--quote
{all,minimal,none,nonnumeric}]
                                     [--request-format {json}] [-D]
[-F FIELD]
                                     [-P SIZE] [--sort-key FIELD]
                                     [--sort-dir {asc,desc}]
```

■

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.

8.222. NEUTRON SUBNET-CREATE

```
usage: neutron subnet-create [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
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,nexthop=IP_ADDR]
                             [--dns-nameserver DNS_NAMESERVER]
                             [--disable-dhcp] [--enable-dhcp]
                             [--ip-version {4,6}]
                             [--ipv6-ra-mode {dhcpv6-stateful,dhcpv6-
stateless,slaac}]
                             [--ipv6-address-mode {dhcpv6-
stateful,dhcpv6-stateless,slaac}]
                             [--subnetpool SUBNETPOOL]
                             [--use-default-subnetpool]
                             [--prefixlen PREFIX_LENGTH] [--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.

8.223. 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.

8.224. NEUTRON SUBNET-LIST

```
usage: neutron subnet-list [-h] [-f {csv,json,table,value,yaml}] [-c
COLUMN]
                            [--max-width <integer>] [--noindent]
                            [--quote {all,minimal,none,nonnumeric}]
                            [--request-format {json}] [-D] [-F FIELD]
[-P SIZE]
                            [--sort-key FIELD] [--sort-dir {asc,desc}]
```

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.

8.225. NEUTRON SUBNET-SHOW

```
usage: neutron subnet-show [-h] [-f {json,shell,table,value,yaml}] [-c
COLUMN]
                               [--max-width <integer>] [--noindent]
                               [--prefix PREFIX] [--request-format
{json}] [-D]
                               [-F FIELD]
                               SUBNET
```

Show information of a given subnet.

Positional arguments

SUBNET

ID or name of subnet to look up.

Optional arguments

-h, --help

> show this help message and exit

--request-format {json}

> *DEPRECATED!* Only JSON request format is supported.

-D, --show-details

> Show detailed information.

-F FIELD, --field FIELD

> Specify the field(s) to be returned by server. You can
> repeat this option.

8.226. 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,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.

8.227. NEUTRON SUBNETPOOL-CREATE

```
usage: neutron subnetpool-create [-h] [-f
{json,shell,table,value,yaml}]
                                 [-c COLUMN] [--max-width <integer>]
                                 [--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.

8.228. 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.

8.229. NEUTRON SUBNETPOOL-LIST

```
usage: neutron subnetpool-list [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN] [--max-width <integer>]
                               [--noindent]
                               [--quote
{all,minimal,none,nonnumeric}]
                               [--request-format {json}] [-D] [-F
FIELD]
                               [-P SIZE] [--sort-key FIELD]
                               [--sort-dir {asc,desc}]
```

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.

8.230. NEUTRON SUBNETPOOL-SHOW

```
usage: neutron subnetpool-show [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--max-width <integer>]
                               [--noindent] [--prefix PREFIX]
                               [--request-format {json}] [-D] [-F
FIELD]
                               SUBNETPOOL
```

Show information of a given subnetpool.

Positional arguments

SUBNETPOOL

ID or name of subnetpool to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can
repeat this option.

8.231. 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.

8.232. 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.

8.233. 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.

8.234. 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).

8.235. NEUTRON VPN-ENDPOINT-GROUP-CREATE

```
usage: neutron vpn-endpoint-group-create [-h]
                                         [-f
{json,shell,table,value,yaml}]
                                         [-c COLUMN] [--max-width
<integer>]
                                         [--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.

8.236. 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.

8.237. NEUTRON VPN-ENDPOINT-GROUP-LIST

```
usage: neutron vpn-endpoint-group-list [-h] [-f
{csv,json,table,value,yaml}]
                                       [-c COLUMN] [--max-width
<integer>]
                                       [--noindent]
                                       [--quote
{all,minimal,none,nonnumeric}]
                                       [--request-format {json}] [-
D]
                                       [-F FIELD] [-P SIZE] [--sort-
key FIELD]
                                       [--sort-dir {asc,desc}]
```

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.

8.238. NEUTRON VPN-ENDPOINT-GROUP-SHOW

```
usage: neutron vpn-endpoint-group-show [-h] [-f
{json,shell,table,value,yaml}]
                                       [-c COLUMN] [--max-width
<integer>]
                                       [--noindent] [--prefix
PREFIX]
                                       [--request-format {json}] [-
D]
                                       [-F FIELD]
                                       ENDPOINT_GROUP
```

Show a specific VPN endpoint group.

Positional arguments

ENDPOINT_GROUP

ID or name of endpoint_group to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can
repeat this option.

8.239. 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.

8.240. NEUTRON VPN-IKEPOLICY-CREATE

```
usage: neutron vpn-ikepolicy-create [-h] [-f
{json,shell,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--noindent] [--prefix PREFIX]
                                     [--request-format {json}]
                                     [--tenant-id TENANT_ID]
                                     [--description DESCRIPTION]
                                     [--auth-algorithm AUTH_ALGORITHM]
                                     [--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 AUTH_ALGORITHM`

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.

8.241. 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.

8.242. NEUTRON VPN-IKEPOLICY-LIST

```
usage: neutron vpn-ikepolicy-list [-h] [-f {csv,json,table,value,yaml}]
                                  [-c COLUMN] [--max-width <integer>]
                                  [--noindent]
                                  [--quote
{all,minimal,none,nonnumeric}]
                                  [--request-format {json}] [-D] [-F
FIELD]
                                  [-P SIZE] [--sort-key FIELD]
                                  [--sort-dir {asc,desc}]
```

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.

8.243. NEUTRON VPN-IKEPOLICY-SHOW

```
usage: neutron vpn-ikepolicy-show [-h] [-f
{json,shell,table,value,yaml}]
                                  [-c COLUMN] [--max-width <integer>]
                                  [--noindent] [--prefix PREFIX]
                                  [--request-format {json}] [-D] [-F
FIELD]
                                  IKEPOLICY
```

Show information of a given IKE policy.

Positional arguments

IKEPOLICY

ID or name of IKE policy to look up.

Optional arguments

`-h, --help`

show this help message and exit

`--request-format {json}`

DEPRECATED! Only JSON request format is supported.

`-D, --show-details`

Show detailed information.

`-F FIELD, --field FIELD`

Specify the field(s) to be returned by server. You can repeat this option.

8.244. NEUTRON VPN-IKEPOLICY-UPDATE

```
usage: neutron vpn-ikepolicy-update [-h] [--request-format {json}]
                                    [--name NAME] [--description
DESCRIPTION]
                                    [--auth-algorithm AUTH_ALGORITHM]
                                    [--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 AUTH_ALGORITHM`

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.

8.245. NEUTRON VPN-IPSECPOLICY-CREATE

```
usage: neutron vpn-ipsecpolicy-create [-h] [-f
{json,shell,table,value,yaml}]
                                      [-c COLUMN] [--max-width
<integer>]
                                      [--noindent] [--prefix PREFIX]
                                      [--request-format {json}]
                                      [--tenant-id TENANT_ID]
                                      [--auth-algorithm
AUTH_ALGORITHM]
                                      [--description DESCRIPTION]
                                      [--encapsulation-mode
{tunnel,transport}]
                                      [--encryption-algorithm
ENCRYPTION_ALGORITHM]
                                      [--lifetime
units=UNITS,value=VALUE]
                                      [--pfs PFS]
                                      [--transform-protocol
{esp,ah,ah-esp}]
                                      NAME
```

Create an IPsec policy.

Positional arguments

NAME

 Name of the IPsec policy.

Optional arguments

-h, --help

 show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

`--tenant-id TENANT_ID`

The owner tenant ID.

`--auth-algorithm AUTH_ALGORITHM`

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.

8.246. NEUTRON VPN-IPSECPOLICY-DELETE

8.246. 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.

8.247. NEUTRON VPN-IPSECPOLICY-LIST

```
usage: neutron vpn-ipsecpolicy-list [-h] [-f
{csv,json,table,value,yaml}]
                                    [-c COLUMN] [--max-width
<integer>]
                                    [--noindent]
                                    [--quote
{all,minimal,none,nonnumeric}]
                                    [--request-format {json}] [-D] [-
F FIELD]
                                    [-P SIZE] [--sort-key FIELD]
                                    [--sort-dir {asc,desc}]
```

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.

8.248. NEUTRON VPN-IPSECPOLICY-SHOW

```
usage: neutron vpn-ipsecpolicy-show [-h] [-f
{json,shell,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--noindent] [--prefix PREFIX]
                                     [--request-format {json}] [-D] [-
F FIELD]
                                     IPSECPOLICY
```

Show information of a given IPsec policy.

Positional arguments

IPSECPOLICY

>>>> ID or name of IPsec policy to look up.

Optional arguments

-h, --help

>>>> show this help message and exit

--request-format {json}

>>>> *DEPRECATED!* Only JSON request format is supported.

-D, --show-details

>>>> Show detailed information.

-F FIELD, --field FIELD

>>>> Specify the field(s) to be returned by server. You can repeat this option.

8.249. NEUTRON VPN-IPSECPOLICY-UPDATE

```
usage: neutron vpn-ipsecpolicy-update [-h] [--request-format {json}]
                                      [--name NAME]
                                      [--auth-algorithm
AUTH_ALGORITHM]
                                      [--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 AUTH_ALGORITHM

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.

8.250. NEUTRON VPN-SERVICE-CREATE

```
usage: neutron vpn-service-create [-h] [-f
{json,shell,table,value,yaml}]
                                  [-c COLUMN] [--max-width <integer>]
                                  [--noindent] [--prefix PREFIX]
                                  [--request-format {json}]
                                  [--tenant-id TENANT_ID] [--admin-
state-down]
                                  [--name NAME] [--description
DESCRIPTION]
                                  ROUTER [SUBNET]
```

Create a VPN service.

Positional arguments

ROUTER

Router unique identifier for the VPN service.

SUBNET

[*DEPRECATED* in Mitaka] Unique identifier for the local
private subnet.

Optional arguments

-h, --help

show this help message and exit

`--request-format {json}`

DEPRECATED! Only JSON request format is supported.

`--tenant-id TENANT_ID`

The owner tenant ID.

`--admin-state-down`

Set admin state up to false.

`--name NAME`

Name for the VPN service.

`--description DESCRIPTION`

Description for the VPN service.

8.251. 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.

8.252. NEUTRON VPN-SERVICE-LIST

```
usage: neutron vpn-service-list [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent]
                                [--quote
{all,minimal,none,nonnumeric}]
                                [--request-format {json}] [-D] [-F
FIELD]
                                [-P SIZE] [--sort-key FIELD]
                                [--sort-dir {asc,desc}]
```

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.

8.253. NEUTRON VPN-SERVICE-SHOW

```
usage: neutron vpn-service-show [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX]
                                [--request-format {json}] [-D] [-F
FIELD]
                                VPNSERVICE
```

Show information of a given VPN service.

Positional arguments

VPNSERVICE

ID or name of VPN service to look up.

Optional arguments

-h, --help

show this help message and exit

--request-format {json}

DEPRECATED! Only JSON request format is supported.

-D, --show-details

Show detailed information.

-F FIELD, --field FIELD

Specify the field(s) to be returned by server. You can
repeat this option.

8.254. 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 9. OBJECT STORAGE SERVICE COMMAND-LINE CLIENT

The **swift** client is the command-line interface (CLI) for the OpenStack Object Storage API and its extensions. This chapter documents **swift** version **3.1.0**.

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

```
$ swift COMMAND --help
```

9.1. 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.

9.2. 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
```

9.3. SWIFT OPTIONAL ARGUMENTS

--version

        show program's version number and exit

-h, --help

--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

system SSL library.

9.4. SWIFT AUTH

> Usage: swift auth

Display auth related authentication variables in shell friendly format. Commands to run to export storage url and auth token into OS_STORAGE_URL and OS_AUTH_TOKEN: swift auth Commands to append to a runcom file (e.g. ~/.bashrc, /etc/profile) for automatic authentication: swift auth -v -U test:tester -K testing -A http://localhost:8080/auth/v1.0

9.5. SWIFT CAPABILITIES

> Usage: swift capabilities

Retrieve capability of the proxy. Optional positional arguments: <proxy_url> Proxy URL of the cluster to retrieve capabilities.

Optional arguments

--json

Print the cluster capabilities in JSON format.

9.6. SWIFT COPY

> Usage: swift copy

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 ommited, 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"

9.7. SWIFT DELETE

```
Usage: swift delete
```

Delete a container or objects within a container.

Positional arguments

[<container>]

> Name of container to delete from.

[<object>]

> Name of object to delete. Specify multiple times
> for multiple objects.

Optional arguments

`-a, --all`

Delete all containers and objects.

`--leave-segments`

Do not delete segments of manifest objects.

`--object-threads <threads>`

Number of threads to use for deleting objects.
Default is 10.

`--container-threads <threads>`

Number of threads to use for deleting containers.
Default is 10.

9.8. SWIFT DOWNLOAD

> Usage: swift download

Download objects from containers.

Positional arguments

`<container>`

Name of container to download from. To download a
whole account, omit this and specify --all.

`<object>`

Name of object to download. Specify multiple times
for multiple objects. Omit this to download all
objects from the container.

Optional arguments

`-a, --all`

Indicates that you really want to download
everything in the account.

-m, --marker <marker>

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.

9.9. SWIFT LIST

```
Usage: swift list
```

Lists the containers for the account or the objects for a container.

Positional arguments

[container]

Name of container to list object in.

Optional arguments

-l, --long

> Long listing format, similar to ls -l.

--lh

> Report sizes in human readable format similar to
> ls -lh.

-t, --totals

> Used with -l or --lh, only report totals.

-p <prefix>, --prefix <prefix>

> Only list items beginning with the prefix.

-d <delim>, --delimiter <delim>

> Roll up items with the given delimiter. For containers
> only. See OpenStack Swift API documentation for what
> this means.

9.10. SWIFT POST

```
Usage: swift post
```

Updates meta information for the account, container, or object. If the container is not found, it will be
created automatically.

Positional arguments

[container]

> Name of container to post to.

[object]

> Name of object to post.

Optional arguments

-r, --read-acl <acl>

Read ACL for containers. Quick summary of ACL syntax: .r:*, .r:-.example.com, .r:www.example.com, account1, account2:user2

-w, --write-acl <acl>

Write ACL for containers. Quick summary of ACL syntax: account1 account2:user2

-t, --sync-to <sync-to>

Sync To for containers, for multi-cluster replication.

-k, --sync-key <sync-key>

Sync Key for containers, for multi-cluster replication.

-m, --meta <name:value>

Sets a meta data item. This option may be repeated. Example: -m Color:Blue -m Size:Large

-H, --header <header:value>

Adds a customized request header.
This option may be repeated. Example
-H "content-type:text/plain" -H "Content-Length: 4000"

9.11. SWIFT STAT

```
Usage: swift stat
```

Displays information for the account, container, or object.

Positional arguments

[container]

Name of container to stat from.

[object]

Name of object to stat.

Optional arguments

--lh

Report sizes in human readable format similar to
ls -lh.

9.12. SWIFT TEMPURL

Usage: swift tempurl

Generates a temporary URL for a Swift object.

Positional arguments

<method>

An HTTP method to allow for this temporary URL.
Usually 'GET' or 'PUT'.

<seconds>

The amount of time in seconds the temporary URL will be
valid for; or, if --absolute is passed, the Unix
timestamp when the temporary URL will expire.

<path>

The full path to the Swift object. Example:
/v1/AUTH_account/c/o.

<key>

The secret temporary URL key set on the Swift cluster.
To set a key, run 'swift post -m
"Temp-URL-Key:b3968d0207b54ece87cccc06515a89d4'"

Optional arguments

`--absolute`

Interpret the <seconds> positional argument as a Unix
timestamp rather than a number of seconds in the
future.

9.13. SWIFT UPLOAD

```
Usage: swift upload
```

Uploads specified files and directories to the given container.

Positional arguments

`<container>`

Name of container to upload to.

`<file_or_directory>`

Name of file or directory to upload. Specify multiple
times for multiple uploads.

Optional arguments

`-c, --changed`

Only upload files that have changed since the last
upload.

`--skip-identical`

Skip uploading files that are identical on both sides.

`-S, --segment-size <size>`

Upload files in segments no larger than <size> (in Bytes) and then create a "manifest" file that will download all the segments as if it were the original file.

`--segment-container <container>`

Upload the segments into the specified container. If not specified, the segments will be uploaded to a <container>_segments container to not pollute the main <container> listings.

`--leave-segments`

Indicates that you want the older segments of manifest objects left alone (in the case of overwrites).

`--object-threads <threads>`

Number of threads to use for uploading full objects. Default is 10.

`--segment-threads <threads>`

Number of threads to use for uploading object segments. Default is 10.

`-H, --header <header:value>`

Adds a customized request header. This option may be repeated. Example: -H "content-type:text/plain" -H "Content-Length: 4000".

`--use-slo`

When used in conjunction with --segment-size it will create a Static Large Object instead of the default Dynamic Large Object.

`--object-name <object-name>`

Upload file and name object to <object-name> or upload dir and use <object-name> as object prefix instead of folder name.

`--ignore-checksum`

Turn off checksum validation for uploads.

CHAPTER 10. ORCHESTRATION SERVICE COMMAND-LINE CLIENT

The **heat** client is the command-line interface (CLI) for the Orchestration API and its extensions. This chapter documents **heat** version **1.5.0**.

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

```
$ heat help COMMAND
```

10.1. 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.

10.2. 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.

10.3. HEAT ACTION-CHECK

```
usage: heat action-check <NAME or ID>
```

Check that stack resources are in expected states.

Positional arguments

<NAME or ID>

Name or ID of stack to check.

10.4. HEAT ACTION-RESUME

```
usage: heat action-resume <NAME or ID>
```

Resume the stack.

Positional arguments

<NAME or ID>

Name or ID of stack to resume.

10.5. HEAT ACTION-SUSPEND

```
usage: heat action-suspend <NAME or ID>
```

Suspend the stack.

Positional arguments

<NAME or ID>

Name or ID of stack to suspend.

10.6. HEAT BUILD-INFO

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

Retrieve build information.

10.7. HEAT CONFIG-CREATE

```
usage: heat config-create [-f <FILE or URL>] [-c <FILE or URL>]
                          [-g <GROUP_NAME>]
                          <CONFIG_NAME>
```

Create a software configuration.

Positional arguments

<CONFIG_NAME>

Name of the configuration to create.

Optional arguments

-f <FILE or URL>, --definition-file <FILE or URL>

Path to JSON/YAML containing map defining <inputs>, <outputs>, and <options>.

-c <FILE or URL>, --config-file <FILE or URL>

Path to configuration script/data.

-g <GROUP_NAME>, --group <GROUP_NAME>

Group name of configuration tool expected by the config.

10.8. HEAT CONFIG-DELETE

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

Delete the software configuration(s).

Positional arguments

<ID>

ID of the configuration(s) to delete.

10.9. HEAT CONFIG-LIST

```
usage: heat config-list [-l <LIMIT>] [-m <ID>]
```

List software configs.

Optional arguments

-l <LIMIT>, --limit <LIMIT>

Limit the number of configs returned.

-m <ID>, --marker <ID>

Return configs that appear after the given config ID.

10.10. HEAT CONFIG-SHOW

```
usage: heat config-show [-c] <ID>
```

View details of a software configuration.

Positional arguments

<ID>

ID of the config.

Optional arguments

-c, --config-only

Only display the value of the <config> property.

10.11. HEAT DEPLOYMENT-CREATE

```
usage: heat deployment-create [-i <KEY=VALUE>] [-a <ACTION>] [-c
<CONFIG>] -s
                                <SERVER> [-t <TRANSPORT>]
                                [--container <CONTAINER_NAME>]
                                [--timeout <TIMEOUT>]
                                <DEPLOY_NAME>
```

Create a software deployment.

Positional arguments

<DEPLOY_NAME>

Name of the derived config associated with this
deployment. This is used to apply a sort order to the
list of configurations currently deployed to the

server.

Optional arguments

`-i <KEY=VALUE>, --input-value <KEY=VALUE>`

> Input value to set on the deployment. This can be
> specified multiple times.

`-a <ACTION>, --action <ACTION>`

> Name of action for this deployment. Can be a custom
> action, or one of: CREATE, UPDATE, DELETE, SUSPEND,
> RESUME

`-c <CONFIG>, --config <CONFIG>`

> ID of the configuration to deploy.

`-s <SERVER>, --server <SERVER>`

> ID of the server being deployed to.

`-t <TRANSPORT>, --signal-transport <TRANSPORT>`

> How the server should signal to heat with the
> deployment output values. TEMP_URL_SIGNAL will create
> a Swift TempURL to be signaled via HTTP PUT. NO_SIGNAL
> will result in the resource going to the COMPLETE
> state without waiting for any signal.

`--container <CONTAINER_NAME>`

> Optional name of container to store TEMP_URL_SIGNAL
> objects in. If not specified a container will be
> created with a name derived from the DEPLOY_NAME

`--timeout <TIMEOUT>`

> Deployment timeout in minutes.

10.12. HEAT DEPLOYMENT-DELETE

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

Delete the software deployment(s).

Positional arguments

<ID>

ID of the deployment(s) to delete.

10.13. HEAT DEPLOYMENT-LIST

```
usage: heat deployment-list [-s <SERVER>]
```

List software deployments.

Optional arguments

-s <SERVER>, --server <SERVER>

ID of the server to fetch deployments for.

10.14. HEAT DEPLOYMENT-METADATA-SHOW

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

Get deployment configuration metadata for the specified server.

Positional arguments

<ID>

ID of the server to fetch deployments for.

10.15. HEAT DEPLOYMENT-OUTPUT-SHOW

```
usage: heat deployment-output-show [-a] [-F <FORMAT>] <ID> [<OUTPUT
NAME>]
```

Show a specific deployment output.

Positional arguments

<ID>

ID deployment to show the output for.

<OUTPUT NAME>

Name of an output to display.

Optional arguments

-a, --all

Display all deployment outputs.

-F <FORMAT>, --format <FORMAT>

The output value format, one of: raw, json

10.16. HEAT DEPLOYMENT-SHOW

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

Show the details of a software deployment.

Positional arguments

<ID>

ID of the deployment.

10.17. HEAT EVENT-LIST

```
usage: heat event-list [-r <RESOURCE>] [-f
<KEY1=VALUE1;KEY2=VALUE2...>]
                       [-l <LIMIT>] [-m <ID>] [-n <DEPTH>] [-F
<FORMAT>]
                       <NAME or ID>
```

List events for a stack.

Positional arguments

`<NAME or ID>`

Name or ID of stack to show the events for.

Optional arguments

`-r <RESOURCE>, --resource <RESOURCE>`

Name of the resource to filter events by.

`-f <KEY1=VALUE1;KEY2=VALUE2...>, --filters <KEY1=VALUE1;KEY2=VALUE2...>`

Filter parameters to apply on returned events. This can be specified multiple times, or once with parameters separated by a semicolon.

`-l <LIMIT>, --limit <LIMIT>`

Limit the number of events returned.

`-m <ID>, --marker <ID>`

Only return events that appear after the given event ID.

`-n <DEPTH>, --nested-depth <DEPTH>`

Depth of nested stacks from which to display events. Note this cannot be specified with --resource.

`-F <FORMAT>, --format <FORMAT>`

The output value format, one of: log, table

10.18. HEAT EVENT-SHOW

```
usage: heat event-show <NAME or ID> <RESOURCE> <EVENT>
```

Describe the event.

Positional arguments

<NAME or ID>

Name or ID of stack to show the events for.

<RESOURCE>

Name of the resource the event belongs to.

<EVENT>

ID of event to display details for.

10.19. 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)

10.20. HEAT HOOK-POLL

```
usage: heat hook-poll [-n <DEPTH>] <NAME or ID>
```

List resources with pending hook for a stack.

Positional arguments

`<NAME or ID>`

Name or ID of stack to show the pending hooks for.

Optional arguments

`-n <DEPTH>, --nested-depth <DEPTH>`

Depth of nested stacks from which to display hooks.

10.21. HEAT OUTPUT-LIST

```
usage: heat output-list <NAME or ID>
```

Show available outputs.

Positional arguments

`<NAME or ID>`

Name or ID of stack to query.

10.22. HEAT OUTPUT-SHOW

```
usage: heat output-show [-F <FORMAT>] [-a] [--with-detail]
                        <NAME or ID> [<OUTPUT NAME>]
```

Show a specific stack output.

Positional arguments

<NAME or ID>

Name or ID of stack to query.

<OUTPUT NAME>

Name of an output to display.

Optional arguments

-F <FORMAT>, --format <FORMAT>

The output value format, one of: json, raw.

-a, --all

Display all stack outputs.

--with-detail

Enable detail information presented, like key and description.

10.23. HEAT RESOURCE-LIST

```
usage: heat resource-list [-n <DEPTH>] [--with-detail] [-f <KEY=VALUE>]
                          <NAME or ID>
```

Show list of resources belonging to a stack.

Positional arguments

<NAME or ID>

Name or ID of stack to show the resources for.

Optional arguments

-n <DEPTH>, --nested-depth <DEPTH>

> Depth of nested stacks from which to display
> resources.

--with-detail

> Enable detail information presented for each resource
> in resources list.

-f <KEY=VALUE>, --filter <KEY=VALUE>

> Filter parameters to apply on returned resources based
> on their name, status, type, action, id and
> physical_resource_id. This can be specified multiple
> times.

10.24. HEAT RESOURCE-MARK-UNHEALTHY

```
usage: heat resource-mark-unhealthy [--reset] <NAME or ID> <RESOURCE>
[reason]
```

Set resource's health.

Positional arguments

<NAME or ID>

> Name or ID of stack the resource belongs to.

<RESOURCE>

> Name of the resource.

reason

> Reason for state change.

Optional arguments

--reset

Set the resource as healthy.

10.25. HEAT RESOURCE-METADATA

```
usage: heat resource-metadata <NAME or ID> <RESOURCE>
```

List resource metadata.

Positional arguments

<NAME or ID>

Name or ID of stack to show the resource metadata for.

<RESOURCE>

Name of the resource to show the metadata for.

10.26. HEAT RESOURCE-SHOW

```
usage: heat resource-show [-a <ATTRIBUTE>] <NAME or ID> <RESOURCE>
```

Describe the resource.

Positional arguments

<NAME or ID>

Name or ID of stack to show the resource for.

<RESOURCE>

Name of the resource to show the details for.

Optional arguments

-a <ATTRIBUTE>, --with-attr <ATTRIBUTE>

Attribute to show, it can be specified multiple times.

10.27. HEAT RESOURCE-SIGNAL

```
usage: heat resource-signal [-D <DATA>] [-f <FILE>] <NAME or ID>
<RESOURCE>
```

Send a signal to a resource.

Positional arguments

<NAME or ID>

Name or ID of stack the resource belongs to.

<RESOURCE>

Name of the resource to signal.

Optional arguments

-D <DATA>, --data <DATA>

JSON Data to send to the signal handler.

-f <FILE>, --data-file <FILE>

File containing JSON data to send to the signal
handler.

10.28. HEAT RESOURCE-TEMPLATE

```
usage: heat resource-template [-t <TEMPLATE_TYPE>] [-F <FORMAT>]
                              <RESOURCE_TYPE>
```

DEPRECATED!

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.

10.29. 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

10.30. 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.

10.31. 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.

10.32. HEAT SERVICE-LIST

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

List the Heat engines.

10.33. 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.

10.34. 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.

10.35. 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.

10.36. 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>.

10.37. 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.

10.38. 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.

10.39. 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.

10.40. 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).

10.41. HEAT STACK-LIST

```
usage: heat stack-list [-s] [-n] [-a] [-f <KEY1=VALUE1;KEY2=VALUE2...>]
                       [-t <TAG1,TAG2...>] [--tags-any
```

```
 <TAG1,TAG2...>]
                             [--not-tags <TAG1,TAG2...>]
                             [--not-tags-any <TAG1,TAG2...>] [-l <LIMIT>]
 [-m <ID>]
                             [-k <KEY1;KEY2...>] [-d [asc|desc]] [-g] [-o]
```

List the user's stacks.

Optional arguments

-s, --show-deleted

> Include soft-deleted stacks in the stack listing.

-n, --show-nested

> Include nested stacks in the stack listing.

-a, --show-hidden

> Include hidden stacks in the stack listing.

-f <KEY1=VALUE1;KEY2=VALUE2...>, --filters <KEY1=VALUE1;KEY2=VALUE2...>

> Filter parameters to apply on returned stacks. This
> can be specified multiple times, or once with
> parameters separated by a semicolon.

-t <TAG1,TAG2...>, --tags <TAG1,TAG2...>

> Show stacks containing these tags, combine multiple
> tags using the boolean AND expression

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

> Show stacks containing these tags, combine multiple
> tags using the boolean OR expression

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

> Show stacks not containing these tags, combine

Show stacks not containing these tags, combine
multiple tags using the boolean AND expression

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

Show stacks not containing these tags, combine
multiple tags using the boolean OR expression

`-l <LIMIT>, --limit <LIMIT>`

Limit the number of stacks returned.

`-m <ID>, --marker <ID>`

Only return stacks that appear after the given stack
ID.

`-k <KEY1;KEY2...>, --sort-keys <KEY1;KEY2...>`

List of keys for sorting the returned stacks. This can
be specified multiple times or once with keys
separated by semicolons. Valid sorting keys include
"stack_name", "stack_status", "creation_time" and
"updated_time".

`-d [asc|desc], --sort-dir [asc|desc]`

Sorting direction (either "asc" or "desc") for the
sorting keys.

`-g, --global-tenant`

Display stacks from all tenants. Operation only
authorized for users who match the policy in heat's
policy.json.

`-o, --show-owner`

Display stack owner information. This is automatically
enabled when using --global-tenant.

10.42. 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.

10.43. 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.

10.44. 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.

10.45. 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.

10.46. 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.

10.47. 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.

10.48. 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.

10.49. 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.

10.50. HEAT TEMPLATE-VERSION-LIST

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

List the available template versions.

CHAPTER 11. TELEMETRY SERVICE COMMAND-LINE CLIENT

The **ceilometer** client is the command-line interface (CLI) for the Telemetry API and its extensions. This chapter documents **ceilometer** version **2.6.2**.

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

```
$ ceilometer help COMMAND
```

11.1. 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.

11.2. 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]**.

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]**.

11.3. CEILOMETER ALARM-COMBINATION-CREATE

```
usage: ceilometer alarm-combination-create --name <NAME>
                                           [--project-id
<ALARM_PROJECT_ID>]
                                           [--user-id
<ALARM_USER_ID>]
                                           [--description
<DESCRIPTION>]
                                           [--state <STATE>]
                                           [--severity <SEVERITY>]
                                           [--enabled {True|False}]
                                           [--alarm-action <Webhook
URL>]
                                           [--ok-action <Webhook
URL>]
                                           [--insufficient-data-
action <Webhook URL>]
                                           [--time-constraint <Time
Constraint>]
                                           [--repeat-actions
{True|False}]
                                           --alarm_ids <ALARM IDS>
                                           [--operator <OPERATOR>]
```

Create a new alarm based on state of other alarms.

Optional arguments

--name <NAME>

Name of the alarm (must be unique per tenant).
Required.

--project-id <ALARM_PROJECT_ID>

Tenant to associate with alarm (configurable
by admin users only).

--user-id <ALARM_USER_ID>

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

--description <DESCRIPTION>

Free text description of the alarm.

--state <STATE>

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

--severity <SEVERITY>

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

--enabled {True|False}

True if alarm evaluation/actioning is enabled.

--alarm-action <Webhook URL> URL

to invoke when state transitions to alarm.
May be used multiple times. Defaults to None.

--ok-action <Webhook URL> URL

to invoke when state transitions to OK.
May be used multiple times. Defaults to None.

--insufficient-data-action <Webhook URL>

>   URL to invoke when state transitions to
>   insufficient data. May be used multiple times.
>   Defaults to None.

--time-constraint <Time Constraint>

>   Only evaluate the alarm if the time at
>   evaluation is within this time constraint.
>   Start point(s) of the constraint are specified
>   with a cron expression, whereas its duration
>   is given in seconds. Can be specified multiple
>   times for multiple time constraints, format
>   is: name=<CONSTRAINT_NAME>;start=<CRON>;durati
>   on=<SECONDS>;[description=<DESCRIPTION>;[timez
>   one=<IANA Timezone>]] Defaults to None.

--repeat-actions {True|False}

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

--alarm_ids <ALARM IDS>

>   List of alarm IDs. Required.

--operator <OPERATOR>

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

11.4. CEILOMETER ALARM-COMBINATION-UPDATE

```
usage: ceilometer alarm-combination-update [--name <NAME>]
                                           [--project-id
<ALARM_PROJECT_ID>]
                                           [--user-id
<ALARM_USER_ID>]
                                           [--description
<DESCRIPTION>]
                                           [--state <STATE>]
                                           [--severity <SEVERITY>]
                                           [--enabled {True|False}]
                                           [--alarm-action <Webhook
URL>]
```

```
                                              [--ok-action <Webhook
  URL>]
                                              [--insufficient-data-
  action <Webhook URL>]
                                              [--time-constraint <Time
  Constraint>]
                                              [--repeat-actions
  {True|False}]
                                              [--remove-time-constraint
  <Constraint names>]
                                              [--alarm_ids <ALARM IDS>]
                                              [--operator <OPERATOR>]
                                              [<ALARM_ID>]
```

Update an existing alarm based on state of other alarms.

Positional arguments

<ALARM_ID>

ID of the alarm to update.

Optional arguments

--name <NAME>

Name of the alarm (must be unique per tenant).

--project-id <ALARM_PROJECT_ID>

Tenant to associate with alarm (configurable
by admin users only).

--user-id <ALARM_USER_ID>

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

--description <DESCRIPTION>

Free text description of the alarm.

--state <STATE>

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

`--severity <SEVERITY>`

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

`--enabled {True|False}`

True if alarm evaluation/actioning is enabled.

`--alarm-action <Webhook URL> URL`

to invoke when state transitions to alarm.
May be used multiple times. Defaults to None.

`--ok-action <Webhook URL> URL`

to invoke when state transitions to OK.
May be used multiple times. Defaults to None.

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

URL to invoke when state transitions to
insufficient data. May be used multiple times.
Defaults to None.

`--time-constraint <Time Constraint>`

Only evaluate the alarm if the time at
evaluation is within this time constraint.
Start point(s) of the constraint are specified
with a cron expression, whereas its duration
is given in seconds. Can be specified multiple
times for multiple time constraints, format
is: name=<CONSTRAINT_NAME>;start=<CRON>;durati
on=<SECONDS>;[description=<DESCRIPTION>;[timez
one=<IANA Timezone>]] Defaults to None.

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

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

--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'].

11.5. CEILOMETER ALARM-DELETE

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

Delete an alarm.

Positional arguments

<ALARM_ID>

> ID of the alarm to delete.

11.6. CEILOMETER ALARM-EVENT-CREATE

```
usage: ceilometer alarm-event-create --name <NAME>
                                     [--project-id
<ALARM_PROJECT_ID>]
                                     [--user-id <ALARM_USER_ID>]
                                     [--description <DESCRIPTION>]
                                     [--state <STATE>] [--severity
<SEVERITY>]
                                     [--enabled {True|False}]
                                     [--alarm-action <Webhook URL>]
                                     [--ok-action <Webhook URL>]
                                     [--insufficient-data-action
<Webhook URL>]
                                     [--time-constraint <Time
Constraint>]
                                     [--repeat-actions {True|False}]
                                     [--event-type <EVENT_TYPE>] [-q
<QUERY>]
```

Create a new alarm based on events.

Optional arguments

`--name <NAME>`

Name of the alarm (must be unique per tenant).
Required.

`--project-id <ALARM_PROJECT_ID>`

Tenant to associate with alarm (configurable
by admin users only).

`--user-id <ALARM_USER_ID>`

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

`--description <DESCRIPTION>`

Free text description of the alarm.

`--state <STATE>`

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

`--severity <SEVERITY>`

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

`--enabled {True|False}`

True if alarm evaluation/actioning is enabled.

`--alarm-action <Webhook URL> URL`

to invoke when state transitions to alarm.
May be used multiple times. Defaults to None.

--ok-action <Webhook URL> URL

> to invoke when state transitions to OK.
> May be used multiple times. Defaults to None.

--insufficient-data-action <Webhook URL>

> URL to invoke when state transitions to
> insufficient data. May be used multiple times.
> Defaults to None.

--time-constraint <Time Constraint>

> Only evaluate the alarm if the time at
> evaluation is within this time constraint.
> Start point(s) of the constraint are specified
> with a cron expression, whereas its duration
> is given in seconds. Can be specified multiple
> times for multiple time constraints, format
> is: name=<CONSTRAINT_NAME>;start=<CRON>;durati
> on=<SECONDS>;[description=<DESCRIPTION>;[timez
> one=<IANA Timezone>]] Defaults to None.

--repeat-actions {True|False}

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

--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.

11.7. CEILOMETER ALARM-EVENT-UPDATE

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

```
                                       [--description <DESCRIPTION>]
                                       [--state <STATE>] [--severity
<SEVERITY>]

                                       [--enabled {True|False}]
                                       [--alarm-action <Webhook URL>]
                                       [--ok-action <Webhook URL>]
                                       [--insufficient-data-action
<Webhook URL>]

                                       [--time-constraint <Time
Constraint>]

                                       [--repeat-actions {True|False}]
                                       [--event-type <EVENT_TYPE>] [-q
<QUERY>]

                                       [<ALARM_ID>]
```

Update an existing alarm based on events.

Positional arguments

<ALARM_ID>

ID of the alarm to update.

Optional arguments

--name <NAME>

Name of the alarm (must be unique per tenant).

--project-id <ALARM_PROJECT_ID>

Tenant to associate with alarm (configurable
by admin users only).

--user-id <ALARM_USER_ID>

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

--description <DESCRIPTION>

Free text description of the alarm.

--state <STATE>

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

--severity <SEVERITY>

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

--enabled {True|False}

True if alarm evaluation/actioning is enabled.

--alarm-action <Webhook URL> URL

to invoke when state transitions to alarm.
May be used multiple times. Defaults to None.

--ok-action <Webhook URL> URL

to invoke when state transitions to OK.
May be used multiple times. Defaults to None.

--insufficient-data-action <Webhook URL>

URL to invoke when state transitions to
insufficient data. May be used multiple times.
Defaults to None.

--time-constraint <Time Constraint>

Only evaluate the alarm if the time at
evaluation is within this time constraint.
Start point(s) of the constraint are specified
with a cron expression, whereas its duration
is given in seconds. Can be specified multiple
times for multiple time constraints, format
is: name=<CONSTRAINT_NAME>;start=<CRON>;durati
on=<SECONDS>;[description=<DESCRIPTION>;[timez
one=<IANA Timezone>]] Defaults to None.

--repeat-actions {True|False}

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

`--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.

11.8. CEILOMETER ALARM-GNOCCHI-AGGREGATION-BY-METRICS-THRESHOLD-CREATE

```
usage: ceilometer alarm-gnocchi-aggregation-by-metrics-threshold-create
       --name <NAME> [--project-id <ALARM_PROJECT_ID>]
       [--user-id <ALARM_USER_ID>] [--description <DESCRIPTION>]
       [--state <STATE>] [--severity <SEVERITY>] [--enabled
{True|False}]
       [--alarm-action <Webhook URL>] [--ok-action <Webhook URL>]
       [--insufficient-data-action <Webhook URL>]
       [--time-constraint <Time Constraint>] [--repeat-actions
{True|False}]
       [--granularity <GRANULARITY>] [--evaluation-periods <COUNT>]
       --aggregation-method <AGGREATION> [--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>;durati
on=<SECONDS>;[description=<DESCRIPTION>;[timez
one=<IANA Timezone>]] Defaults to None.

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

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

`--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 <METRICS>, --metrics <METRICS>

Metric to evaluate against. Required.

11.9. CEILOMETER ALARM-GNOCCHI-AGGREGATION-BY-METRICS-THRESHOLD-UPDATE

```
usage: ceilometer alarm-gnocchi-aggregation-by-metrics-threshold-update
       [--name <NAME>] [--project-id <ALARM_PROJECT_ID>]
       [--user-id <ALARM_USER_ID>] [--description <DESCRIPTION>]
       [--state <STATE>] [--severity <SEVERITY>] [--enabled
{True|False}]
       [--alarm-action <Webhook URL>] [--ok-action <Webhook URL>]
       [--insufficient-data-action <Webhook URL>]
       [--time-constraint <Time Constraint>] [--repeat-actions
{True|False}]
       [--granularity <GRANULARITY>] [--evaluation-periods <COUNT>]
       [--aggregation-method <AGGREATION>] [--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>;durati
on=<SECONDS>;[description=<DESCRIPTION>;[timez
one=<IANA Timezone>]] Defaults to None.

--repeat-actions {True|False}

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

--granularity <GRANULARITY>

Length of each period (seconds) to evaluate
over.

--evaluation-periods <COUNT>

Number of periods to evaluate over.

--aggregation-method <AGGREATION>

Aggregation method to use, one of: ['last',
'min', 'median', 'sum', 'std', 'first',
'mean', 'count', 'moving-average', 'max',
'1pct', '2pct', '3pct', '4pct', '5pct',
'6pct', '7pct', '8pct', '9pct', '10pct',
'11pct', '12pct', '13pct', '14pct', '15pct',
'16pct', '17pct', '18pct', '19pct', '20pct',
'21pct', '22pct', '23pct', '24pct', '25pct',
'26pct', '27pct', '28pct', '29pct', '30pct',
'31pct', '32pct', '33pct', '34pct', '35pct',
'36pct', '37pct', '38pct', '39pct', '40pct',
'41pct', '42pct', '43pct', '44pct', '45pct',
'46pct', '47pct', '48pct', '49pct', '50pct',
'51pct', '52pct', '53pct', '54pct', '55pct',

'56pct', '57pct', '58pct', '59pct', '60pct',
'61pct', '62pct', '63pct', '64pct', '65pct',
'66pct', '67pct', '68pct', '69pct', '70pct',
'71pct', '72pct', '73pct', '74pct', '75pct',
'76pct', '77pct', '78pct', '79pct', '80pct',
'81pct', '82pct', '83pct', '84pct', '85pct',
'86pct', '87pct', '88pct', '89pct', '90pct',
'91pct', '92pct', '93pct', '94pct', '95pct',
'96pct', '97pct', '98pct', '99pct'].

--comparison-operator <OPERATOR>

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

--threshold <THRESHOLD>

Threshold to evaluate against.

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

Metric to evaluate against.

--remove-time-constraint <Constraint names>

Name or list of names of the time constraints
to remove.

11.10. CEILOMETER ALARM-GNOCCHI-AGGREGATION-BY-RESOURCES-THRESHOLD-CREATE

```
usage: ceilometer alarm-gnocchi-aggregation-by-resources-threshold-
create
       --name <NAME> [--project-id <ALARM_PROJECT_ID>]
       [--user-id <ALARM_USER_ID>] [--description <DESCRIPTION>]
       [--state <STATE>] [--severity <SEVERITY>] [--enabled
{True|False}]
       [--alarm-action <Webhook URL>] [--ok-action <Webhook URL>]
       [--insufficient-data-action <Webhook URL>]
       [--time-constraint <Time Constraint>] [--repeat-actions
{True|False}]
       [--granularity <GRANULARITY>] [--evaluation-periods <COUNT>]
       --aggregation-method <AGGREATION> [--comparison-operator
<OPERATOR>]
       --threshold <THRESHOLD> -m <METRIC> --resource-type
<RESOURCE_TYPE>
       --query <QUERY>
```

Create a new alarm based on computed statistics.

Optional arguments

--name <NAME>

Name of the alarm (must be unique per tenant). Required.

--project-id <ALARM_PROJECT_ID>

Tenant to associate with alarm (configurable by admin users only).

--user-id <ALARM_USER_ID>

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

--description <DESCRIPTION>

Free text description of the alarm.

--state <STATE>

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

--severity <SEVERITY>

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

--enabled {True|False}

True if alarm evaluation/actioning is enabled.

--alarm-action <Webhook URL> URL

to invoke when state transitions to alarm. May be used multiple times. Defaults to None.

`--ok-action <Webhook URL> URL`

to invoke when state transitions to OK.
May be used multiple times. Defaults to None.

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

URL to invoke when state transitions to
insufficient data. May be used multiple times.
Defaults to None.

`--time-constraint <Time Constraint>`

Only evaluate the alarm if the time at
evaluation is within this time constraint.
Start point(s) of the constraint are specified
with a cron expression, whereas its duration
is given in seconds. Can be specified multiple
times for multiple time constraints, format
is: name=<CONSTRAINT_NAME>;start=<CRON>;durati
on=<SECONDS>;[description=<DESCRIPTION>;[timez
one=<IANA Timezone>]] Defaults to None.

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

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

`--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.

11.11. CEILOMETER ALARM-GNOCCHI-AGGREGATION-BY-RESOURCES-THRESHOLD-UPDATE

```
usage: ceilometer alarm-gnocchi-aggregation-by-resources-threshold-
update
```

```
       [--name <NAME>] [--project-id <ALARM_PROJECT_ID>]
       [--user-id <ALARM_USER_ID>] [--description <DESCRIPTION>]
       [--state <STATE>] [--severity <SEVERITY>] [--enabled
{True|False}]
       [--alarm-action <Webhook URL>] [--ok-action <Webhook URL>]
       [--insufficient-data-action <Webhook URL>]
       [--time-constraint <Time Constraint>] [--repeat-actions
{True|False}]
       [--granularity <GRANULARITY>] [--evaluation-periods <COUNT>]
       [--aggregation-method <AGGREATION>] [--comparison-operator
<OPERATOR>]
       [--threshold <THRESHOLD>] [-m <METRIC>]
       [--resource-type <RESOURCE_TYPE>] [--query <QUERY>]
       [--remove-time-constraint <Constraint names>]
       [<ALARM_ID>]
```

Update an existing alarm based on computed statistics.

Positional arguments

<ALARM_ID>

ID of the alarm to update.

Optional arguments

--name <NAME>

Name of the alarm (must be unique per tenant).

--project-id <ALARM_PROJECT_ID>

Tenant to associate with alarm (configurable
by admin users only).

--user-id <ALARM_USER_ID>

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

--description <DESCRIPTION>

Free text description of the alarm.

--state <STATE>

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

--severity <SEVERITY>

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

--enabled {True|False}

True if alarm evaluation/actioning is enabled.

--alarm-action <Webhook URL> URL

to invoke when state transitions to alarm. May be used multiple times. Defaults to None.

--ok-action <Webhook URL> URL

to invoke when state transitions to OK. May be used multiple times. Defaults to None.

--insufficient-data-action <Webhook URL>

URL to invoke when state transitions to insufficient data. May be used multiple times. Defaults to None.

--time-constraint <Time Constraint>

Only evaluate the alarm if the time at evaluation is within this time constraint. Start point(s) of the constraint are specified with a cron expression, whereas its duration is given in seconds. Can be specified multiple times for multiple time constraints, format is: name=<CONSTRAINT_NAME>;start=<CRON>;durati on=<SECONDS>;[description=<DESCRIPTION>;[timez one=<IANA Timezone>]] Defaults to None.

--repeat-actions {True|False}

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

`--granularity <GRANULARITY>`

Length of each period (seconds) to evaluate
over.

`--evaluation-periods <COUNT>`

Number of periods to evaluate over.

`--aggregation-method <AGGREATION>`

Aggregation method to use, one of: ['last',
'min', 'median', 'sum', 'std', 'first',
'mean', 'count', 'moving-average', 'max',
'1pct', '2pct', '3pct', '4pct', '5pct',
'6pct', '7pct', '8pct', '9pct', '10pct',
'11pct', '12pct', '13pct', '14pct', '15pct',
'16pct', '17pct', '18pct', '19pct', '20pct',
'21pct', '22pct', '23pct', '24pct', '25pct',
'26pct', '27pct', '28pct', '29pct', '30pct',
'31pct', '32pct', '33pct', '34pct', '35pct',
'36pct', '37pct', '38pct', '39pct', '40pct',
'41pct', '42pct', '43pct', '44pct', '45pct',
'46pct', '47pct', '48pct', '49pct', '50pct',
'51pct', '52pct', '53pct', '54pct', '55pct',
'56pct', '57pct', '58pct', '59pct', '60pct',
'61pct', '62pct', '63pct', '64pct', '65pct',
'66pct', '67pct', '68pct', '69pct', '70pct',
'71pct', '72pct', '73pct', '74pct', '75pct',
'76pct', '77pct', '78pct', '79pct', '80pct',
'81pct', '82pct', '83pct', '84pct', '85pct',
'86pct', '87pct', '88pct', '89pct', '90pct',
'91pct', '92pct', '93pct', '94pct', '95pct',
'96pct', '97pct', '98pct', '99pct'].

`--comparison-operator <OPERATOR>`

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

`--threshold <THRESHOLD>`

Threshold to evaluate against.

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.

11.12. CEILOMETER ALARM-GNOCCHI-RESOURCES-THRESHOLD-CREATE

```
usage: ceilometer alarm-gnocchi-resources-threshold-create --name
<NAME>
                                                           [--
project-id <ALARM_PROJECT_ID>]
                                                           [--user-
id <ALARM_USER_ID>]
                                                           [--
description <DESCRIPTION>]
                                                           [--state
<STATE>]
                                                           [--
severity <SEVERITY>]
                                                           [--
enabled {True|False}]
                                                           [--
alarm-action <Webhook URL>]
                                                           [--ok-
action <Webhook URL>]
                                                           [--
insufficient-data-action <Webhook URL>]
                                                           [--time-
constraint <Time Constraint>]
                                                           [--
repeat-actions {True|False}]
                                                           [--
granularity <GRANULARITY>]
```

```
                                                                      [--
 evaluation-periods <COUNT>]

                                                                      --
 aggregation-method

 <AGGREATION>
                                                                      [--
 comparison-operator <OPERATOR>]

                                                                      --
 threshold

 <THRESHOLD> -m
                                                                      <METRIC>
                                                                      --
 resource-type

 <RESOURCE_TYPE>
                                                                      --
 resource-id

 <RESOURCE_ID>
```

Create a new alarm based on computed statistics.

Optional arguments

--name <NAME>

> Name of the alarm (must be unique per tenant).
> Required.

--project-id <ALARM_PROJECT_ID>

> Tenant to associate with alarm (configurable
> by admin users only).

--user-id <ALARM_USER_ID>

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

--description <DESCRIPTION>

> Free text description of the alarm.

--state <STATE>

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

`--severity <SEVERITY>`

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

`--enabled {True|False}`

True if alarm evaluation/actioning is enabled.

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

to invoke when state transitions to alarm. May be used multiple times. Defaults to None.

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

to invoke when state transitions to OK. May be used multiple times. Defaults to None.

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

URL to invoke when state transitions to insufficient data. May be used multiple times. Defaults to None.

`--time-constraint <Time Constraint>`

Only evaluate the alarm if the time at evaluation is within this time constraint. Start point(s) of the constraint are specified with a cron expression, whereas its duration is given in seconds. Can be specified multiple times for multiple time constraints, format is: name=<CONSTRAINT_NAME>;start=<CRON>;durati on=<SECONDS>;[description=<DESCRIPTION>;[timez one=<IANA Timezone>]] Defaults to None.

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

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

`--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.

--resource-id <RESOURCE_ID>

> Resource id to evaluate against Required.

11.13. CEILOMETER ALARM-GNOCCHI-RESOURCES-THRESHOLD-UPDATE

```
usage: ceilometer alarm-gnocchi-resources-threshold-update [--name
<NAME>]
                                                           [--
project-id <ALARM_PROJECT_ID>]
                                                           [--user-
id <ALARM_USER_ID>]
                                                           [--
description <DESCRIPTION>]
                                                           [--state
<STATE>]
                                                           [--
severity <SEVERITY>]
                                                           [--
enabled {True|False}]
                                                           [--
alarm-action <Webhook URL>]
                                                           [--ok-
action <Webhook URL>]
                                                           [--
insufficient-data-action <Webhook URL>]
                                                           [--time-
constraint <Time Constraint>]
                                                           [--
repeat-actions {True|False}]
                                                           [--
granularity <GRANULARITY>]
                                                           [--
evaluation-periods <COUNT>]
                                                           [--
aggregation-method <AGGREATION>]
                                                           [--
comparison-operator <OPERATOR>]
                                                           [--
threshold <THRESHOLD>]
```

```
<METRIC>]                                                    [-m

                                                             [--
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>;durati on=<SECONDS>;[description=<DESCRIPTION>;[timez one=<IANA Timezone>]] Defaults to None.

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

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

`--granularity <GRANULARITY>`

Length of each period (seconds) to evaluate
over.

`--evaluation-periods <COUNT>`

Number of periods to evaluate over.

`--aggregation-method <AGGREATION>`

Aggregation method to use, one of: ['last',
'min', 'median', 'sum', 'std', 'first',
'mean', 'count', 'moving-average', 'max',
'1pct', '2pct', '3pct', '4pct', '5pct',
'6pct', '7pct', '8pct', '9pct', '10pct',
'11pct', '12pct', '13pct', '14pct', '15pct',
'16pct', '17pct', '18pct', '19pct', '20pct',
'21pct', '22pct', '23pct', '24pct', '25pct',
'26pct', '27pct', '28pct', '29pct', '30pct',
'31pct', '32pct', '33pct', '34pct', '35pct',
'36pct', '37pct', '38pct', '39pct', '40pct',
'41pct', '42pct', '43pct', '44pct', '45pct',
'46pct', '47pct', '48pct', '49pct', '50pct',
'51pct', '52pct', '53pct', '54pct', '55pct',
'56pct', '57pct', '58pct', '59pct', '60pct',
'61pct', '62pct', '63pct', '64pct', '65pct',
'66pct', '67pct', '68pct', '69pct', '70pct',
'71pct', '72pct', '73pct', '74pct', '75pct',
'76pct', '77pct', '78pct', '79pct', '80pct',
'81pct', '82pct', '83pct', '84pct', '85pct',
'86pct', '87pct', '88pct', '89pct', '90pct',
'91pct', '92pct', '93pct', '94pct', '95pct',
'96pct', '97pct', '98pct', '99pct'].

`--comparison-operator <OPERATOR>`

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

`--threshold <THRESHOLD>`

Threshold to evaluate against.

`-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.

11.14. CEILOMETER ALARM-HISTORY

```
usage: ceilometer alarm-history [-q <QUERY>] [<ALARM_ID>]
```

Display the change history of an alarm.

Positional arguments

<ALARM_ID>

>   ID of the alarm for which history is shown.

Optional arguments

-q <QUERY>, --query <QUERY>

>   key[op]data_type::value; list. data_type is
>   optional, but if supplied must be string,
>   integer, float, or boolean.

11.15. CEILOMETER ALARM-LIST

```
usage: ceilometer alarm-list [-q <QUERY>]
```

List the user's alarms.

Optional arguments

```
-q <QUERY>, --query <QUERY>
```

> key[op]data_type::value; list. data_type is
> optional, but if supplied must be string,
> integer, float, or boolean.

11.16. CEILOMETER ALARM-SHOW

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

Show an alarm.

Positional arguments

<ALARM_ID>

> ID of the alarm to show.

11.17. CEILOMETER ALARM-STATE-GET

```
usage: ceilometer alarm-state-get [<ALARM_ID>]
```

Get the state of an alarm.

Positional arguments

<ALARM_ID>

> ID of the alarm state to show.

11.18. CEILOMETER ALARM-STATE-SET

```
usage: ceilometer alarm-state-set --state <STATE> [<ALARM_ID>]
```

Set the state of an alarm.

Positional arguments

<ALARM_ID>

> ID of the alarm state to set.

Optional arguments

--state <STATE>

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

11.19. CEILOMETER ALARM-THRESHOLD-CREATE

```
usage: ceilometer alarm-threshold-create --name <NAME>
                                         [--project-id
<ALARM_PROJECT_ID>]
                                         [--user-id <ALARM_USER_ID>]
                                         [--description
<DESCRIPTION>]
                                         [--state <STATE>]
                                         [--severity <SEVERITY>]
                                         [--enabled {True|False}]
                                         [--alarm-action <Webhook
URL>]
                                         [--ok-action <Webhook URL>]
                                         [--insufficient-data-action
<Webhook URL>]
                                         [--time-constraint <Time
Constraint>]
                                         [--repeat-actions
{True|False}] -m
                                         <METRIC> [--period
<PERIOD>]
                                         [--evaluation-periods
<COUNT>]
                                         [--statistic <STATISTIC>]
                                         [--comparison-operator
<OPERATOR>]
                                         --threshold <THRESHOLD> [-q
<QUERY>]
```

Create a new alarm based on computed statistics.

Optional arguments

--name <NAME>

Name of the alarm (must be unique per tenant). Required.

--project-id <ALARM_PROJECT_ID>

Tenant to associate with alarm (configurable

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>;durati
>   on=<SECONDS>;[description=<DESCRIPTION>;[timez
>   one=<IANA Timezone>]] Defaults to None.

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

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

`-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.

11.20. CEILOMETER ALARM-THRESHOLD-UPDATE

```
usage: ceilometer alarm-threshold-update [--name <NAME>]
                                         [--project-id
<ALARM_PROJECT_ID>]
                                         [--user-id <ALARM_USER_ID>]
                                         [--description
<DESCRIPTION>]
                                         [--state <STATE>]
                                         [--severity <SEVERITY>]
                                         [--enabled {True|False}]
                                         [--alarm-action <Webhook
URL>]
                                         [--ok-action <Webhook URL>]
                                         [--insufficient-data-action
<Webhook URL>]
                                         [--time-constraint <Time
Constraint>]
                                         [--repeat-actions
{True|False}]
                                         [--remove-time-constraint
<Constraint names>]
                                         [-m <METRIC>] [--period
<PERIOD>]
                                         [--evaluation-periods
<COUNT>]
                                         [--statistic <STATISTIC>]
                                         [--comparison-operator
<OPERATOR>]
                                         [--threshold <THRESHOLD>]
                                         [-q <QUERY>]
                                         [<ALARM_ID>]
```

Update an existing alarm based on computed statistics.

Positional arguments

<ALARM_ID>

ID of the alarm to update.

Optional arguments

`--name <NAME>`

Name of the alarm (must be unique per tenant).

`--project-id <ALARM_PROJECT_ID>`

Tenant to associate with alarm (configurable by admin users only).

`--user-id <ALARM_USER_ID>`

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

`--description <DESCRIPTION>`

Free text description of the alarm.

`--state <STATE>`

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

`--severity <SEVERITY>`

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

`--enabled {True|False}`

True if alarm evaluation/actioning is enabled.

`--alarm-action <Webhook URL>` URL

to invoke when state transitions to alarm. May be used multiple times. Defaults to None.

`--ok-action <Webhook URL>` URL

to invoke when state transitions to OK.
May be used multiple times. Defaults to None.

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

URL to invoke when state transitions to
insufficient data. May be used multiple times.
Defaults to None.

`--time-constraint <Time Constraint>`

Only evaluate the alarm if the time at
evaluation is within this time constraint.
Start point(s) of the constraint are specified
with a cron expression, whereas its duration
is given in seconds. Can be specified multiple
times for multiple time constraints, format
is: name=<CONSTRAINT_NAME>;start=<CRON>;durati
on=<SECONDS>;[description=<DESCRIPTION>;[timez
one=<IANA Timezone>]] Defaults to None.

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

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

`--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.

11.21. CEILOMETER ALARM-UPDATE

```
usage: ceilometer alarm-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>]
                               [--period <PERIOD>]
                               [--evaluation-periods <COUNT>] [-m
<METRIC>]
                               [--statistic <STATISTIC>]
                               [--comparison-operator <OPERATOR>]
                               [--threshold <THRESHOLD>]
                               [--matching-metadata <Matching
Metadata>]
                               [<ALARM_ID>]
```

Update an existing alarm (Deprecated).

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>;durati
on=<SECONDS>;[description=<DESCRIPTION>;[timez
one=<IANA Timezone>]] Defaults to None.

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

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

`--remove-time-constraint <Constraint names>`

        Name or list of names of the time constraints
to remove.

`--period <PERIOD>`

        Length of each period (seconds) to evaluate
over.

`--evaluation-periods <COUNT>`

Number of periods to evaluate over.

-m <METRIC>, --meter-name <METRIC>

Metric to evaluate against.

--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.

--matching-metadata <Matching Metadata>

A meter should match this resource metadata (key=value) additionally to the meter_name. Defaults to None.

11.22. CEILOMETER CAPABILITIES

```
usage: ceilometer capabilities
```

Print Ceilometer capabilities.

11.23. 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

11.24. 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.

11.25. CEILOMETER EVENT-TYPE-LIST

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

List event types.

11.26. 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.

11.27. 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

11.28. 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

11.29. 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

11.30. 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

11.31. CEILOMETER RESOURCE-SHOW

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

Show the resource.

Positional arguments

<RESOURCE_ID>

ID of the resource to show.

11.32. 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.

11.33. 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.

11.34. 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

11.35. 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.

11.36. 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 [].

11.37. 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.

11.38. 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 12. BARE METAL SERVICE COMMAND-LINE CLIENT

The **ironic** client is the command-line interface (CLI) for the Bare Metal API and its extensions. This chapter documents **ironic** version **1.7.1**.

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

```
$ ironic help COMMAND
```

12.1. IRONIC USAGE

```
usage: ironic [--insecure] [--os-cacert <ca-certificate>]
              [--os-cert <certificate>] [--os-key <key>] [--timeout
<seconds>]
              [--version] [--debug] [--json] [-v] [--cert-file
OS_CERT]
              [--key-file OS_KEY] [--ca-file OS_CACERT]
              [--os-username OS_USERNAME] [--os-password OS_PASSWORD]
              [--os-tenant-id OS_TENANT_ID] [--os-tenant-name
OS_TENANT_NAME]
              [--os-auth-url OS_AUTH_URL] [--os-region-name
OS_REGION_NAME]
              [--os-auth-token OS_AUTH_TOKEN] [--ironic-url
IRONIC_URL]
              [--ironic-api-version IRONIC_API_VERSION]
              [--os-service-type OS_SERVICE_TYPE] [--os-endpoint
IRONIC_URL]
              [--os-endpoint-type OS_ENDPOINT_TYPE]
              [--os-user-domain-id OS_USER_DOMAIN_ID]
              [--os-user-domain-name OS_USER_DOMAIN_NAME]
              [--os-project-id OS_PROJECT_ID]
              [--os-project-name OS_PROJECT_NAME]
              [--os-project-domain-id OS_PROJECT_DOMAIN_ID]
              [--os-project-domain-name OS_PROJECT_DOMAIN_NAME]
              [--max-retries MAX_RETRIES] [--retry-interval
RETRY_INTERVAL]
              <subcommand> ...
```

Subcommands

chassis-create

Create a new chassis.

chassis-delete

Delete a chassis.

chassis-list

List the chassis.

chassis-node-list

List the nodes contained in a chassis.

chassis-show

Show detailed information about a chassis.

chassis-update

Update information about a chassis.

node-create

Register a new node with the Ironic service.

node-delete

Unregister node(s) from the Ironic service.

node-get-boot-device

Get the current boot device for a node.

node-get-console

Get the connection information for a node's console, if enabled.

node-get-supported-boot-devices

Get the supported boot devices for a node.

node-get-vendor-passthru-methods

Get the vendor passthru methods for a node.

node-list

List the nodes which are registered with the Ironic service.

node-port-list

List the ports associated with a node.

node-set-boot-device

Set the boot device for a node.

node-set-console-mode

Enable or disable serial console access for a node.

node-set-maintenance

Enable or disable maintenance mode for a node.

node-set-power-state

Power a node on or off or reboot.

node-set-provision-state

Initiate a provisioning state change for a node.

node-set-target-raid-config

Set target RAID config on a node.

node-show

Show detailed information about a node.

node-show-states

Show information about the node's states.

node-update

Update information about a registered node.

node-validate

Validate a node's driver interfaces.

node-vendor-passthru

Call a vendor-passthru extension for a node.

port-create

Create a new port.

port-delete

Delete a port.

port-list

List the ports.

port-show

Show detailed information about a port.

port-update

Update information about a port.

driver-get-vendor-passthru-methods

Get the vendor passthru methods for a driver.

driver-list

List the enabled drivers.

driver-properties

Get properties of a driver.

driver-raid-logical-disk-properties

Get RAID logical disk properties for a driver.

driver-show

Show information about a driver.

driver-vendor-passthru

Call a vendor-passthru extension for a driver.

create

Create baremetal resources (chassis, nodes, 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.

12.2. 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.

12.3. IRONIC CHASSIS-CREATE

```
usage: ironic chassis-create [-d <description>] [-e <key=value>] [-u
<uuid>]
```

Create a new chassis.

Optional arguments

-d <description>, --description <description>

Description of the chassis.

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

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

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

UUID of the chassis.

12.4. IRONIC CHASSIS-DELETE

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

Delete a chassis.

Positional arguments

<chassis>

UUID of the chassis.

12.5. IRONIC CHASSIS-LIST

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

List the chassis.

Optional arguments

`--detail`

>> Show detailed information about the chassis.

`--limit <limit>`

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

`--marker <chassis>`

>> Chassis UUID (for example, of the last chassis in the list from a previous request). Returns the list of chassis after this UUID.

`--sort-key <field>`

>> Chassis field that will be used for sorting.

`--sort-dir <direction>`

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

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

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

12.6. IRONIC CHASSIS-NODE-LIST

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

```
[--maintenance <boolean>]
[--associated <boolean>]
[--provision-state <provision-state>]
<chassis>
```

List the nodes contained in a chassis.

Positional arguments

`<chassis>`

UUID of the chassis.

Optional arguments

`--detail`

Show detailed information about the nodes.

`--limit <limit>`

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

`--marker <node>`

Node UUID (for example, of the last node in the list from a previous request). Returns the list of nodes after this UUID.

`--sort-key <field>`

Node field that will be used for sorting.

`--sort-dir <direction>`

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

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

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

--maintenance <boolean>

List nodes in maintenance mode: 'true' or 'false'.

--associated <boolean>

List nodes by instance association: 'true' or 'false'.

--provision-state <provision-state>

List nodes in specified provision state.

12.7. IRONIC CHASSIS-SHOW

```
usage: ironic chassis-show [--fields <field> [<field> ...]] <chassis>
```

Show detailed information about a chassis.

Positional arguments

<chassis>

UUID of the chassis.

Optional arguments

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

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

12.8. IRONIC CHASSIS-UPDATE

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

Update information about a chassis.

Positional arguments

<chassis>

UUID of the chassis.

<op>

Operation: 'add', 'replace', or 'remove'.

<path=value>

Attribute to add, replace, or remove. Can be specified
multiple times. For 'remove', only <path> is necessary.

12.9. IRONIC CREATE

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

Create baremetal resources (chassis, nodes, 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.

12.10. 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.

12.11. IRONIC DRIVER-LIST

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

List the enabled drivers.

12.12. 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.

12.13. 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.

12.14. IRONIC DRIVER-SHOW

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

Show information about a driver.

Positional arguments

<driver>

Name of the driver.

12.15. IRONIC DRIVER-VENDOR-PASSTHRU

```
usage: ironic driver-vendor-passthru [--http-method <http-method>]
                                     <driver> <method>
                                     [<arg=value> [<arg=value> ...]]
```

Call a vendor-passthru extension for a driver.

Positional arguments

<driver>

Name of the driver.

<method>

Vendor-passthru method to be called.

<arg=value>

Argument to be passed to the vendor-passthru method. Can be specified multiple times.

Optional arguments

--http-method <http-method>

The HTTP method to use in the request. Valid HTTP methods are: 'POST', 'PUT', 'GET', 'DELETE', and 'PATCH'. Defaults to 'POST'.

12.16. 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.

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

Driver used to control the node [REQUIRED].

-i <key=value>, --driver-info <key=value>

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

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

Key/value pair describing the physical characteristics of the node. This is exported to Nova and used by the scheduler. Can be specified multiple times.

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

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

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

Unique UUID for the node.

-n <name>, --name <name>

Unique name for the node.

--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.

12.17. 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.

12.18. 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.

12.19. 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.

12.20. 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.

12.21. 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.

12.22. 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.

12.23. 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

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.

12.24. IRONIC NODE-SET-BOOT-DEVICE

```
usage: ironic node-set-boot-device [--persistent] <node> <boot-device>
```

Set the boot device for a node.

Positional arguments

<node>

Name or UUID of the node.

<boot-device>

'pxe', 'disk', 'cdrom', 'bios', or 'safe'.

Optional arguments

--persistent

Make changes persistent for all future boots.

12.25. 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'.

12.26. 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'.

12.27. IRONIC NODE-SET-POWER-STATE

```
usage: ironic node-set-power-state <node> <power-state>
```

Power a node on or off or reboot.

Positional arguments

<node>

Name or UUID of the node.

<power-state>

'on', 'off', or 'reboot'.

12.28. 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.

12.29. 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.

12.30. 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.

12.31. 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.

12.32. IRONIC NODE-UPDATE

12.32. 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.

12.33. IRONIC NODE-VALIDATE

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

Validate a node's driver interfaces.

Positional arguments

<node>

Name or UUID of the node.

12.34. IRONIC NODE-VENDOR-PASSTHRU

```
usage: ironic node-vendor-passthru [--http-method <http-method>]
                                   <node> <method>
                                   [<arg=value> [<arg=value> ...]]
```

Call a vendor-passthru extension for a node.

Positional arguments

<node>

Name or UUID of the node.

<method>

Vendor-passthru method to be called.

<arg=value>

Argument to be passed to the vendor-passthru method.
Can be specified multiple times.

Optional arguments

--http-method <http-method>

The HTTP method to use in the request. Valid HTTP
methods are: 'POST', 'PUT', 'GET', 'DELETE', and
'PATCH'. Defaults to 'POST'.

12.35. IRONIC PORT-CREATE

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

Create a new port.

Optional arguments

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

MAC address for this port.

-n <node>, --node <node>, --node_uuid <node>

UUID of the node that this port belongs to.

-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.

--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.

12.36. IRONIC PORT-DELETE

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

Delete a port.

Positional arguments

<port>

UUID of the port.

12.37. 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.

12.38. 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.

12.39. IRONIC PORT-UPDATE

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

Update information about a port.

Positional arguments

<port>

UUID of the port.

<op>

Operation: 'add', 'replace', or 'remove'.

<path=value>

Attribute to add, replace, or remove. Can be specified
multiple times. For 'remove', only <path> is necessary.

CHAPTER 13. SHARED FILE SYSTEMS SERVICE COMMAND-LINE CLIENT

The **manila** client is the command-line interface (CLI) for the Shared File Systems API and its extensions. This chapter documents **manila** version **1.11.0**.

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

```
$ manila help COMMAND
```

13.1. 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.

cg-create

Creates a new consistency group (Experimental).

cg-delete

Remove one or more consistency groups (Experimental).

cg-list

List consistency groups with filters (Experimental).

cg-reset-state

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

cg-show

Show details about a consistency group (Experimental).

cg-snapshot-create

Creates a new consistency group snapshot
(Experimental).

cg-snapshot-delete

Remove one or more consistency group snapshots (Experimental).

cg-snapshot-list

List consistency group snapshots with filters (Experimental).

cg-snapshot-members

Get member details for a consistency group snapshot (Experimental).

cg-snapshot-reset-state

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

cg-snapshot-show

Show details about a consistency group snapshot (Experimental).

cg-snapshot-update

Update a consistency group snapshot (Experimental).

cg-update

Update a consistency group (Experimental).

create

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

credentials

Show user credentials returned from auth.

delete

Remove one or more shares.

endpoints

Discover endpoints that get returned from the authenticate services.

extend

Increases the size of an existing share.

extra-specs-list

Print a list of current 'share types and extra specs' (Admin Only).

force-delete

Attempt force-delete of share, regardless of state (Admin only).

list

List NAS shares with filters.

manage

Manage share not handled by Manila (Admin only).

metadata

Set or delete metadata on a share.

metadata-show

Show metadata of given share.

metadata-update-all

Update all metadata of a share.

migration-cancel

Cancels migration of a given share when copying (Admin only, Experimental).

migration-complete

Completes migration for a given share (Admin only, Experimental).

migration-get-progress

Gets migration progress of a given share when copying (Admin only, Experimental).

migration-start

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

pool-list

List all backend storage pools known to the scheduler (Admin only).

quota-class-show

List the quotas for a quota class.

quota-class-update

Update the quotas for a quota class (Admin only).

quota-defaults

List the default quotas for a tenant.

quota-delete

Delete quota for a tenant/user. The quota will revert back to default (Admin only).

`quota-show`

List the quotas for a tenant/user.

`quota-update`

Update the quotas for a tenant/user (Admin only).

`rate-limits`

Print a list of rate limits for a user.

`reset-state`

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

`reset-task-state`

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

`security-service-create`

Create security service used by tenant.

`security-service-delete`

Delete security service.

`security-service-list`

Get a list of security services.

`security-service-show`

Show security service.

security-service-update

>   Update security service.

service-disable

>   Disables 'manila-share' or 'manila-scheduler' services
>   (Admin only).

service-enable

>   Enables 'manila-share' or 'manila-scheduler' services
>   (Admin only).

service-list

>   List all services (Admin only).

share-export-location-list

>   List export locations of a given share.

share-export-location-show

>   Show export location of the share.

share-instance-export-location-list

>   List export locations of a given share instance.

share-instance-export-location-show

>   Show export location for the share instance.

share-instance-force-delete

>   Force-delete the share instance, regardless of state
>   (Admin only).

share-instance-list

List share instances (Admin only).

share-instance-reset-state

Explicitly update the state of a share instance (Admin only).

share-instance-show

Show details about a share instance (Admin only).

share-network-create

Create description for network used by the tenant.

share-network-delete

Delete share network.

share-network-list

Get a list of network info.

share-network-security-service-add

Associate security service with share network.

share-network-security-service-list

Get list of security services associated with a given share network.

share-network-security-service-remove

Dissociate security service from share network.

share-network-show

Get a description for network used by the tenant.

share-network-update

Update share network data.

share-replica-create

Create a share replica (Experimental).

share-replica-delete

Remove one or more share replicas (Experimental).

share-replica-list

List share replicas (Experimental).

share-replica-promote

Promote specified replica to 'active' replica_state (Experimental).

share-replica-reset-replica-state

Explicitly update the 'replica_state' of a share replica (Experimental).

share-replica-reset-state

Explicitly update the 'status' of a share replica (Experimental).

share-replica-resync

Attempt to update the share replica with its 'active' mirror (Experimental).

share-replica-show

Show details about a replica (Experimental).

share-server-delete

Delete share server (Admin only).

share-server-details

Show share server details (Admin only).

share-server-list

List all share servers (Admin only).

share-server-show

Show share server info (Admin only).

show

Show details about a NAS share.

shrink

Decreases the size of an existing share.

snapshot-create

Add a new snapshot.

snapshot-delete

Remove a snapshot.

snapshot-force-delete

Attempt force-delete of snapshot, regardless of state
(Admin only).

snapshot-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).

only).

type-access-list

Print access information about the given share type (Admin only).

type-access-remove

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

type-create

Create a new share type (Admin only).

type-delete

Delete a specific share type (Admin only).

type-key

Set or unset extra_spec for a share type (Admin only).

type-list

Print a list of available 'share types'.

unmanage

Unmanage share (Admin only).

update

Rename a share.

bash-completion

Print arguments for bash_completion. Prints all of the commands and options to stdout so that the manila.bash_completion script doesn't have to hard

code them.

help

Display help about this program or one of its
subcommands.

list-extensions

List all the os-api extensions that are available.

13.2. 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]**.

13.3. MANILA ABSOLUTE-LIMITS

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

Print a list of absolute limits for a user.

13.4. MANILA ACCESS-ALLOW

```
usage: manila access-allow [--access-level <access_level>]
                           <share> <access_type> <access_to>
```

Allow access to the share.

Positional arguments

<share>

Name or ID of the NAS share to modify.

<access_type>

Access rule type (only "ip", "user"(user or group), "cert" or "cephx" are supported).

<access_to>

Value that defines access.

Optional arguments

```
--access-level <access_level>, --access_level <access_level>
```

Share access level ("rw" and "ro" access levels are supported). Defaults to rw.

13.5. MANILA ACCESS-DENY

```
usage: manila access-deny <share> <id>
```

Deny access to a share.

Positional arguments

<share>

Name or ID of the NAS share to modify.

<id>

ID of the access rule to be deleted.

13.6. MANILA ACCESS-LIST

```
usage: manila access-list [--columns <columns>] <share>
```

Show access list for share.

Positional arguments

<share>

Name or ID of the share.

Optional arguments

--columns <columns>

Comma separated list of columns to be displayed e.g. --columns "access_type,access_to"

13.7. MANILA API-VERSION

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

Display the API version information.

13.8. MANILA CG-CREATE

```
usage: manila cg-create [--name <name>] [--description <description>]
                        [--share-types <share_types>]
                        [--share-network <share_network>]
                        [--source-cgsnapshot-id
<source_cgsnapshot_id>]
```

Creates a new consistency group (Experimental).

Optional arguments

--name <name>

Optional consistency group name. (Default=None)

--description <description>

Optional consistency group description. (Default=None)

--share-types <share_types>, --share_types <share_types>

Optional list of share types. (Default=None)

--share-network <share_network>, --share_network <share_network>

Specify share-network name or id.

--source-cgsnapshot-id <source_cgsnapshot_id>, --source_cgsnapshot_id <source_cgsnapshot_id>

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

13.9. MANILA CG-DELETE

```
usage: manila cg-delete [--force]
                        <consistency_group> [<consistency_group> ...]
```

Remove one or more consistency groups (Experimental).

Positional arguments

<consistency_group>

Name or ID of the consistency group(s).

Optional arguments

--force

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

13.10. MANILA CG-LIST

```
usage: manila cg-list [--all-tenants [<0|1>]] [--limit <limit>]
                      [--offset <offset>] [--columns <columns>]
```

List consistency groups with filters (Experimental).

Optional arguments

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

Display information from all tenants (Admin only).

--limit <limit>

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

--offset <offset>

Start position of consistency group listing.

--columns <columns>

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

13.11. MANILA CG-RESET-STATE

```
usage: manila cg-reset-state [--state <state>] <consistency_group>
```

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

Positional arguments

<consistency_group>

Name or ID of the consistency group state to modify.

Optional arguments

--state <state>

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

13.12. MANILA CG-SHOW

```
usage: manila cg-show <consistency_group>
```

Show details about a consistency group (Experimental).

Positional arguments

<consistency_group>

Name or ID of the consistency group.

13.13. MANILA CG-SNAPSHOT-CREATE

```
usage: manila cg-snapshot-create [--name <name>] [--description
<description>]
                                 <consistency_group>
```

Creates a new consistency group snapshot (Experimental).

Positional arguments

`<consistency_group>`

Name or ID of the consistency group.

Optional arguments

`--name <name>`

Optional consistency group snapshot name.
(Default=None)

`--description <description>`

Optional consistency group snapshot description.
(Default=None)

13.14. MANILA CG-SNAPSHOT-DELETE

```
usage: manila cg-snapshot-delete [--force] <cg_snapshot> [<cg_snapshot>
...]
```

Remove one or more consistency group snapshots (Experimental).

Positional arguments

`<cg_snapshot>`

Name or ID of the consistency group snapshot.

Optional arguments

`--force`

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

13.15. MANILA CG-SNAPSHOT-LIST

```
usage: manila cg-snapshot-list [--all-tenants [<0|1>]] [--limit
<limit>]
                                        [--offset <offset>] [--detailed
DETAILED]
                                        [--columns <columns>]
```

List consistency group snapshots with filters (Experimental).

Optional arguments

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

Display information from all tenants (Admin only).

--limit <limit>

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

--offset <offset>

Start position of consistency group snapshot listing.

--detailed DETAILED

Show detailed information about snapshots.

--columns <columns>

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

13.16. MANILA CG-SNAPSHOT-MEMBERS

```
usage: manila cg-snapshot-members [--limit <limit>] [--offset <offset>]
                                        <cg_snapshot>
```

Get member details for a consistency group snapshot (Experimental).

Positional arguments

<cg_snapshot>

Name or ID of the consistency group snapshot.

Optional arguments

`--limit <limit>`

Maximum number of shares to return. (Default=None)

`--offset <offset>`

Start position of security services listing.

13.17. MANILA CG-SNAPSHOT-RESET-STATE

```
usage: manila cg-snapshot-reset-state [--state <state>] <cg_snapshot>
```

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

Positional arguments

`<cg_snapshot>`

Name or ID of the consistency group snapshot.

Optional arguments

`--state <state>`

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

13.18. MANILA CG-SNAPSHOT-SHOW

```
usage: manila cg-snapshot-show <cg_snapshot>
```

Show details about a consistency group snapshot (Experimental).

Positional arguments

<cg_snapshot>

Name or ID of the consistency group snapshot.

13.19. MANILA CG-SNAPSHOT-UPDATE

```
usage: manila cg-snapshot-update [--name <name>] [--description
<description>]
                                    <cg_snapshot>
```

Update a consistency group snapshot (Experimental).

Positional arguments

<cg_snapshot>

Name or ID of the cg snapshot to update.

Optional arguments

--name <name>

Optional new name for the cg snapshot. (Default=None

--description <description>

Optional cg snapshot description. (Default=None)

13.20. MANILA CG-UPDATE

```
usage: manila cg-update [--name <name>] [--description <description>]
                        <consistency_group>
```

Update a consistency group (Experimental).

Positional arguments

<consistency_group>

Name or ID of the consistency group to update.

Optional arguments

--name <name>

> Optional new name for the consistency group.
> (Default=None)

--description <description>

> Optional consistency group description. (Default=None)

13.21. MANILA CREATE

```
usage: manila create [--snapshot-id <snapshot-id>] [--name <name>]
                     [--metadata [<key=value> [<key=value> ...]]]
                     [--share-network <network-info>]
                     [--description <description>] [--share-type
<share-type>]
                     [--public] [--availability-zone <availability-
zone>]
                     [--consistency-group <consistency-group>]
                     <share_protocol> <size>
```

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

Positional arguments

<share_protocol>

> Share type (NFS, CIFS, CephFS, GlusterFS or HDFS).

<size>

> Share size in GiB.

Optional arguments

--snapshot-id <snapshot-id>, --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.

--consistency-group <consistency-group>, --consistency_group <consistency-group>, --cg <consistency-group>

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

13.22. MANILA CREDENTIALS

```
usage: manila credentials
```

Show user credentials returned from auth.

13.23. MANILA DELETE

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

Remove one or more shares.

Positional arguments

\<share\>

Name or ID of the share(s).

Optional arguments

**--consistency-group \<consistency-group\>, --consistency_group
\<consistency-group\>, --cg \<consistency-group\>**

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

13.24. MANILA ENDPOINTS

```
usage: manila endpoints
```

Discover endpoints that get returned from the authenticate services.

13.25. MANILA EXTEND

```
usage: manila extend <share> <new_size>
```

Increases the size of an existing share.

Positional arguments

\<share\>

Name or ID of share to extend.

\<new_size\>

New size of share, in GiBs.

13.26. MANILA EXTRA-SPECS-LIST

```
usage: manila extra-specs-list [--columns <columns>]
```

Print a list of current 'share types and extra specs' (Admin Only).

Optional arguments

--columns <columns>

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

13.27. MANILA FORCE-DELETE

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

Attempt force-delete of share, regardless of state (Admin only).

Positional arguments

<share>

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

13.28. MANILA LIST

```
usage: manila list [--all-tenants [<0|1>]] [--name <name>] [--status
<status>]
                   [--share-server-id <share_server_id>]
                   [--metadata [<key=value> [<key=value> ...]]]
                   [--extra-specs [<key=value> [<key=value> ...]]]
                   [--share-type <share_type>] [--limit <limit>]
                   [--offset <offset>] [--sort-key <sort_key>]
                   [--sort-dir <sort_dir>] [--snapshot <snapshot>]
                   [--host <host>] [--share-network <share_network>]
                   [--project-id <project_id>] [--public]
                   [--consistency-group <consistency_group>]
                   [--columns <columns>]
```

List NAS shares with filters.

Optional arguments

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

>>> Display information from all tenants (Admin only).

`--name <name>`

>>> Filter results by name.

`--status <status>`

>>> Filter results by status.

`--share-server-id <share_server_id>, --share-server-id <share_server_id>, --share_server-id <share_server_id>, --share_server_id <share_server_id>`

>>> Filter results by share server ID (Admin only).

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

>>> Filters results by a metadata key and value. OPTIONAL:
>>> Default=None

`--extra-specs [<key=value> [<key=value> ...]], --extra_specs [<key=value> [<key=value> ...]]`

>>> Filters results by a extra specs key and value of
>>> share type that was used for share 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.

`--consistency-group <consistency_group>, --consistency_group <consistency_group>, --cg <consistency_group>`

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

`--columns <columns>`

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

13.29. MANILA LIST-EXTENSIONS

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

List all the os-api extensions that are available.

13.30. MANILA MANAGE

```
usage: manila manage [--name <name>] [--description <description>]
                     [--share_type <share-type>]
                     [--driver_options [<key=value> [<key=value>
...]]]
                     [--public]
                     <service_host> <protocol> <export_path>
```

Manage share not handled by Manila (Admin only).

Positional arguments

`<service_host>`

manage-share service host: some.host@driver#pool

`<protocol>`

Protocol of the share to manage, such as NFS or CIFS.

`<export_path>`

Share export path, NFS share such as:
10.0.0.1:/example_path, CIFS share such as:
\\10.0.0.1\example_cifs_share

Optional arguments

`--name <name>`

Optional share name. (Default=None)

`--description <description>`

Optional share description. (Default=None)

`--share_type <share-type>, --share-type <share-type>`

Optional share type assigned to share. (Default=None)

`--driver_options [<key=value> [<key=value> ...]], --driver-options [<key=value> [<key=value> ...]]`

Driver option key=value pairs (Optional,
Default=None).

`--public`

Level of visibility for share. Defines whether other
tenants are able to see it or not. Available only for
microversion >= 2.8

13.31. MANILA METADATA

```
usage: manila metadata <share> <action> <key=value> [<key=value> ...]
```

Set or delete metadata on a share.

Positional arguments

`<share>`

Name or ID of the share to update metadata on.

<action>

Actions: 'set' or 'unset'.

<key=value>

Metadata to set or unset (key is only necessary on unset).

13.32. MANILA METADATA-SHOW

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

Show metadata of given share.

Positional arguments

<share>

Name or ID of the share.

13.33. MANILA METADATA-UPDATE-ALL

```
usage: manila metadata-update-all <share> <key=value> [<key=value> ...]
```

Update all metadata of a share.

Positional arguments

<share>

Name or ID of the share to update metadata on.

<key=value>

Metadata entry or entries to update.

13.34. MANILA MIGRATION-CANCEL

```
usage: manila migration-cancel <share>
```

Cancels migration of a given share when copying (Admin only, Experimental).

Positional arguments

<share>

Name or ID of share to cancel migration.

13.35. MANILA MIGRATION-COMPLETE

```
usage: manila migration-complete <share>
```

Completes migration for a given share (Admin only, Experimental).

Positional arguments

<share>

Name or ID of share to complete migration.

13.36. MANILA MIGRATION-GET-PROGRESS

```
usage: manila migration-get-progress <share>
```

Gets migration progress of a given share when copying (Admin only, Experimental).

Positional arguments

<share>

Name or ID of the share to get share migration progress information.

13.37. MANILA MIGRATION-START

```
usage: manila migration-start [--force_host_assisted_migration
<True|False>]
                              [--preserve-metadata <True|False>]
                              [--writable <True|False>]
                              [--non-disruptive <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, backend and pool in format
'host@backend#pool'.

Optional arguments

--force_host_assisted_migration <True|False>, --force-host-assisted-migration <True|False>

Enables or disables generic host-based force-
migration, which bypasses driver optimizations.
Default=False. Renamed from "force_host_copy" in
version 2.22.

--preserve-metadata <True|False>, --preserve_metadata <True|False>

Chooses whether migration should be forced to preserve
all file metadata when moving its contents.
Default=True. Introduced in version 2.22.

--writable <True|False>

Chooses whether migration should be forced to remain
writable while contents are being moved. Default=True.
Introduced in version 2.22.

--non-disruptive <True|False>, --non_disruptive <True|False>

Chooses whether migration should only be performed if
it is not disruptive. Default=False. Introduced in

version 2.22.

--new_share_network <new_share_network>, --new-share-network <new_share_network>

Specifies a new share network if desired to change.
Default=None. Introduced in version 2.22.

--new_share_type <new_share_type>, --new-share-type <new_share_type>

Specifies a new share type if desired to change.
Default=None. Introduced in version 2.22.

13.38. MANILA POOL-LIST

```
usage: manila pool-list [--host <host>] [--backend <backend>] [--pool
<pool>]
                        [--columns <columns>]
```

List all backend storage pools known to the scheduler (Admin only).

Optional arguments

--host <host>

Filter results by host name. Regular expressions are
supported.

--backend <backend>

Filter results by backend name. Regular expressions are
supported.

--pool <pool>

Filter results by pool name. Regular expressions are
supported.

--columns <columns>

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

13.39. MANILA QUOTA-CLASS-SHOW

```
usage: manila quota-class-show <class>
```

List the quotas for a quota class.

Positional arguments

<class>

Name of quota class to list the quotas for.

13.40. MANILA QUOTA-CLASS-UPDATE

```
usage: manila quota-class-update [--shares <shares>] [--snapshots
<snapshots>]
                                 [--gigabytes <gigabytes>]
                                 [--snapshot-gigabytes
<snapshot_gigabytes>]
                                 [--share-networks <share-networks>]
                                 <class-name>
```

Update the quotas for a quota class (Admin only).

Positional arguments

<class-name>

Name of quota class to set the quotas for.

Optional arguments

--shares <shares>

New value for the "shares" quota.

--snapshots <snapshots>

New value for the "snapshots" quota.

--gigabytes <gigabytes>

New value for the "gigabytes" quota.

--snapshot-gigabytes <snapshot_gigabytes>, --snapshot_gigabytes <snapshot_gigabytes>

New value for the "snapshot_gigabytes" quota.

--share-networks <share-networks>, --share_networks <share-networks>

New value for the "share_networks" quota.

13.41. MANILA QUOTA-DEFAULTS

```
usage: manila quota-defaults [--tenant <tenant-id>]
```

List the default quotas for a tenant.

Optional arguments

--tenant <tenant-id> ID

of tenant to list the default quotas for.

13.42. MANILA QUOTA-DELETE

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

Delete quota for a tenant/user. The quota will revert back to default (Admin only).

Optional arguments

--tenant <tenant-id> ID

of tenant to delete quota for.

--user <user-id> ID

of user to delete quota for.

13.43. MANILA QUOTA-SHOW

-

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

List the quotas for a tenant/user.

Optional arguments

--tenant <tenant-id> ID

of tenant to list the quotas for.

--user <user-id> ID

of user to list the quotas for.

13.44. MANILA QUOTA-UPDATE

```
usage: manila quota-update [--user <user-id>] [--shares <shares>]
                           [--snapshots <snapshots>] [--gigabytes
<gigabytes>]
                           [--snapshot-gigabytes
<snapshot_gigabytes>]
                           [--share-networks <share-networks>] [--
force]
                           <tenant_id>
```

Update the quotas for a tenant/user (Admin only).

Positional arguments

<tenant_id>

UUID of tenant to set the quotas for.

Optional arguments

--user <user-id> ID

of user to set the quotas for.

--shares <shares>

New value for the "shares" quota.

--snapshots <snapshots>

New value for the "snapshots" quota.

--gigabytes <gigabytes>

New value for the "gigabytes" quota.

--snapshot-gigabytes <snapshot_gigabytes>, --snapshot_gigabytes <snapshot_gigabytes>

New value for the "snapshot_gigabytes" quota.

--share-networks <share-networks>, --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.

13.45. MANILA RATE-LIMITS

```
usage: manila rate-limits [--columns <columns>]
```

Print a list of rate limits for a user.

Optional arguments

--columns <columns>

Comma separated list of columns to be displayed e.g. --columns "verb,uri,value"

13.46. MANILA RESET-STATE

```
usage: manila reset-state [--state <state>] <share>
```

Explicitly update the state of a share (Admin only).

Positional arguments

<share>

Name or ID of the share to modify.

Optional arguments

--state <state>

Indicate which state to assign the share. Options include available, error, creating, deleting, error_deleting. If no state is provided, available will be used.

13.47. MANILA RESET-TASK-STATE

```
usage: manila reset-task-state [--task-state <task_state>] <share>
```

Explicitly update the task state of a share (Admin only, Experimental).

Positional arguments

<share>

Name or ID of the share to modify.

Optional arguments

--task-state <task_state>, --task_state <task_state>, --state <task_state>

Indicate which task state to assign the share. Options include migration_starting, migration_in_progress, migration_completing, migration_success, migration_error, migration_cancelled, migration_driver_in_progress, migration_driver_phase1_done, data_copying_starting, data_copying_in_progress, data_copying_completing, data_copying_completed, data_copying_cancelled, data_copying_error. If no value is provided, None will be used.

13.48. MANILA SECURITY-SERVICE-CREATE

```
usage: manila security-service-create [--dns-ip <dns_ip>] [--server
<server>]
                                      [--domain <domain>] [--user
<user>]
                                      [--password <password>] [--name
<name>]
                                      [--description <description>]
                                      <type>
```

Create security service used by tenant.

Positional arguments

<type>

Security service type: 'ldap', 'kerberos' or
'active_directory'.

Optional arguments

--dns-ip <dns_ip> DNS IP

address used inside tenant's network.

--server <server>

Security service IP address or hostname.

--domain <domain>

Security service domain.

--user <user>

Security service user or group used by tenant.

--password <password>

Password used by user.

--name <name>

Security service name.

--description <description>

Security service description.

13.49. MANILA SECURITY-SERVICE-DELETE

```
usage: manila security-service-delete <security-service>
```

Delete security service.

Positional arguments

<security-service>

Security service name or ID to delete.

13.50. MANILA SECURITY-SERVICE-LIST

```
usage: manila security-service-list [--all-tenants [<0|1>]]
                                    [--share-network <share_network>]
                                    [--status <status>] [--name
<name>]
                                    [--type <type>] [--user <user>]
                                    [--dns-ip <dns_ip>] [--server
<server>]
                                    [--domain <domain>] [--detailed
[<0|1>]]
                                    [--offset <offset>] [--limit
<limit>]
                                    [--columns <columns>]
```

Get a list of security services.

Optional arguments

--all-tenants [<0|1>]

Display information from all tenants (Admin only).

--share-network <share_network>, --share_network <share_network>

Filter results by share network id or name.

--status <status>

Filter results by status.

--name <name>

Filter results by name.

--type <type>

Filter results by type.

--user <user>

Filter results by user or group used by tenant.

--dns-ip <dns_ip>, --dns_ip <dns_ip>

Filter results by DNS IP address used inside tenant's network.

--server <server>

Filter results by security service IP address or hostname.

--domain <domain>

Filter results by domain.

--detailed [<0|1>]

Show detailed information about filtered security services.

--offset <offset>

Start position of security services listing.

`--limit <limit>`

Number of security services to return per request.

`--columns <columns>`

Comma separated list of columns to be displayed e.g.
--columns "name,type"

13.51. MANILA SECURITY-SERVICE-SHOW

```
usage: manila security-service-show <security-service>
```

Show security service.

Positional arguments

`<security-service>`

Security service name or ID to show.

13.52. MANILA SECURITY-SERVICE-UPDATE

```
usage: manila security-service-update [--dns-ip <dns-ip>] [--server
<server>]
                                      [--domain <domain>] [--user
<user>]
                                      [--password <password>] [--name
<name>]
                                      [--description <description>]
                                      <security-service>
```

Update security service.

Positional arguments

`<security-service>`

Security service name or ID to update.

Optional arguments

--dns-ip <dns-ip> DNS IP

address used inside tenant's network.

--server <server>

Security service IP address or hostname.

--domain <domain>

Security service domain.

--user <user>

Security service user or group used by tenant.

--password <password>

Password used by user.

--name <name>

Security service name.

--description <description>

Security service description.

13.53. MANILA SERVICE-DISABLE

```
usage: manila service-disable <hostname> <binary>
```

Disables 'manila-share' or 'manila-scheduler' services (Admin only).

Positional arguments

<hostname>

Host name as 'example_host@example_backend'.

<binary>

Service binary, could be 'manila-share' or 'manila-scheduler'.

13.54. MANILA SERVICE-ENABLE

```
usage: manila service-enable <hostname> <binary>
```

Enables 'manila-share' or 'manila-scheduler' services (Admin only).

Positional arguments

<hostname>

Host name as 'example_host@example_backend'.

<binary>

Service binary, could be 'manila-share' or 'manila-scheduler'.

13.55. MANILA SERVICE-LIST

```
usage: manila service-list [--host <hostname>] [--binary <binary>]
                           [--status <status>] [--state <state>]
                           [--zone <zone>] [--columns <columns>]
```

List all services (Admin only).

Optional arguments

--host <hostname>

Name of host.

--binary <binary>

Service binary.

--status <status>

Filter results by status.

--state <state>

Filter results by state.

--zone <zone>

Availability zone.

--columns <columns>

Comma separated list of columns to be displayed e.g.
--columns "id,host"

13.56. MANILA SHARE-EXPORT-LOCATION-LIST

```
usage: manila share-export-location-list [--columns <columns>] <share>
```

List export locations of a given share.

Positional arguments

<share>

Name or ID of the share.

Optional arguments

--columns <columns>

Comma separated list of columns to be displayed e.g.
--columns "id,host,status"

13.57. MANILA SHARE-EXPORT-LOCATION-SHOW

```
usage: manila share-export-location-show <share> <export_location>
```

Show export location of the share.

Positional arguments

<share>

Name or ID of the share.

<export_location>

ID of the share export location.

13.58. MANILA SHARE-INSTANCE-EXPORT-LOCATION-LIST

```
usage: manila share-instance-export-location-list [--columns <columns>]
                                                   <instance>
```

List export locations of a given share instance.

Positional arguments

<instance>

Name or ID of the share instance.

Optional arguments

--columns <columns>

Comma separated list of columns to be displayed e.g.
--columns "id,host,status"

13.59. MANILA SHARE-INSTANCE-EXPORT-LOCATION-SHOW

```
usage: manila share-instance-export-location-show <instance>
<export_location>
```

Show export location for the share instance.

Positional arguments

<instance>

Name or ID of the share instance.

<export_location>

ID of the share instance export location.

13.60. MANILA SHARE-INSTANCE-FORCE-DELETE

```
usage: manila share-instance-force-delete <instance> [<instance> ...]
```

Force-delete the share instance, regardless of state (Admin only).

Positional arguments

<instance>

Name or ID of the instance(s) to force delete.

13.61. MANILA SHARE-INSTANCE-LIST

```
usage: manila share-instance-list [--share-id <share_id>]
                                  [--columns <columns>]
```

List share instances (Admin only).

Optional arguments

--share-id <share_id>, --share_id <share_id>

Filter results by share ID.

--columns <columns>

Comma separated list of columns to be displayed e.g.
--columns "id,host,status"

13.62. MANILA SHARE-INSTANCE-RESET-STATE

```
usage: manila share-instance-reset-state [--state <state>] <instance>
```

Explicitly update the state of a share instance (Admin only).

Positional arguments

<instance>

Name or ID of the share instance to modify.

Optional arguments

--state <state>

Indicate which state to assign the instance. Options
include available, error, creating, deleting,
error_deleting. If no state is provided, available will be
used.

13.63. MANILA SHARE-INSTANCE-SHOW

```
usage: manila share-instance-show <instance>
```

Show details about a share instance (Admin only).

Positional arguments

<instance>

Name or ID of the share instance.

13.64. MANILA SHARE-NETWORK-CREATE

```
usage: manila share-network-create [--nova-net-id <nova-net-id>]
                                   [--neutron-net-id <neutron-net-
id>]
                                   [--neutron-subnet-id <neutron-
subnet-id>]
                                   [--name <name>]
                                   [--description <description>]
```

Create description for network used by the tenant.

Optional arguments

```
--nova-net-id <nova-net-id>, --nova-net_id <nova-net-id>, --nova_net_id
<nova-net-id>, --nova_net-id <nova-net-id>
```

Nova net ID. Used to set up network for share servers.

```
--neutron-net-id <neutron-net-id>, --neutron-net_id <neutron-net-id>, --
neutron_net_id <neutron-net-id>, --neutron_net-id <neutron-net-id>
```

Neutron network ID. Used to set up network for share
servers.

```
--neutron-subnet-id <neutron-subnet-id>, --neutron-subnet_id <neutron-
subnet-id>, --neutron_subnet_id <neutron-subnet-id>, --neutron_subnet-id
<neutron-subnet-id>
```

Neutron subnet ID. Used to set up network for share
servers. This subnet should belong to specified
neutron network.

```
--name <name>
```

Share network name.

```
--description <description>
```

Share network description.

13.65. MANILA SHARE-NETWORK-DELETE

```
usage: manila share-network-delete <share-network>
```

Delete share network.

Positional arguments

```
<share-network>
```

Name or ID of share network to be deleted.

13.66. MANILA SHARE-NETWORK-LIST

```
usage: manila share-network-list [--all-tenants [<0|1>]]
                                  [--project-id <project_id>] [--name
<name>]
                                  [--created-since <created_since>]
                                  [--created-before <created_before>]
                                  [--security-service
<security_service>]
                                  [--nova-net-id <nova_net_id>]
                                  [--neutron-net-id <neutron_net_id>]
                                  [--neutron-subnet-id
<neutron_subnet_id>]
                                  [--network-type <network_type>]
                                  [--segmentation-id
<segmentation_id>]
                                  [--cidr <cidr>] [--ip-version
<ip_version>]
                                  [--offset <offset>] [--limit
<limit>]
                                  [--columns <columns>]
```

Get a list of network info.

Optional arguments

--all-tenants [<0|1>]

Display information from all tenants (Admin only).

--project-id <project_id>, --project_id <project_id>

Filter results by project ID.

--name <name>

Filter results by name.

--created-since <created_since>, --created_since <created_since>

Return only share networks created since given date.
The date is in the format 'yyyy-mm-dd'.

--created-before <created_before>, --created_before <created_before>

Return only share networks created until given date.
The date is in the format 'yyyy-mm-dd'.

`--security-service <security_service>, --security_service
<security_service>`

Filter results by attached security service.

`--nova-net-id <nova_net_id>, --nova_net_id <nova_net_id>, --nova_net-id
<nova_net_id>, --nova-net_id <nova_net_id>`

Filter results by Nova net ID.

`--neutron-net-id <neutron_net_id>, --neutron_net_id <neutron_net_id>, --
neutron_net-id <neutron_net_id>, --neutron-net_id <neutron_net_id>`

Filter results by neutron net ID.

`--neutron-subnet-id <neutron_subnet_id>, --neutron_subnet_id
<neutron_subnet_id>, --neutron-subnet_id <neutron_subnet_id>, --
neutron_subnet-id <neutron_subnet_id>`

Filter results by neutron subnet ID.

`--network-type <network_type>, --network_type <network_type>`

Filter results by network type.

`--segmentation-id <segmentation_id>, --segmentation_id <segmentation_id>`

Filter results by segmentation ID.

`--cidr <cidr>`

Filter results by CIDR.

`--ip-version <ip_version>, --ip_version <ip_version>`

Filter results by IP version.

`--offset <offset>`

Start position of share networks listing.

`--limit <limit>`

Number of share networks to return per request.

`--columns <columns>`

Comma separated list of columns to be displayed e.g.
--columns "id"

13.67. MANILA SHARE-NETWORK-SECURITY-SERVICE-ADD

```
usage: manila share-network-security-service-add <share-network>
                                                  <security-service>
```

Associate security service with share network.

Positional arguments

`<share-network>`

Share network name or ID.

`<security-service>`

Security service name or ID to associate with.

13.68. MANILA SHARE-NETWORK-SECURITY-SERVICE-LIST

```
usage: manila share-network-security-service-list [--columns <columns>]
                                                   <share-network>
```

Get list of security services associated with a given share network.

Positional arguments

`<share-network>`

Share network name or ID.

Optional arguments

```
--columns <columns>
```

> Comma separated list of columns to be displayed e.g.
> --columns "id,name"

13.69. MANILA SHARE-NETWORK-SECURITY-SERVICE-REMOVE

```
usage: manila share-network-security-service-remove <share-network>
                                                    <security-
service>
```

Dissociate security service from share network.

Positional arguments

```
<share-network>
```

> Share network name or ID.

```
<security-service>
```

> Security service name or ID to dissociate.

13.70. MANILA SHARE-NETWORK-SHOW

```
usage: manila share-network-show <share-network>
```

Get a description for network used by the tenant.

Positional arguments

```
<share-network>
```

> Name or ID of the share network to show.

13.71. MANILA SHARE-NETWORK-UPDATE

```
usage: manila share-network-update [--nova-net-id <nova-net-id>]
                                   [--neutron-net-id <neutron-net-
id>]
                                   [--neutron-subnet-id <neutron-
```

```
subnet-id>]
                                      [--name <name>]
                                      [--description <description>]
                                      <share-network>
```

Update share network data.

Positional arguments

`<share-network>`

Name or ID of share network to update.

Optional arguments

`--nova-net-id <nova-net-id>, --nova-net_id <nova-net-id>, --nova_net_id <nova-net-id>, --nova_net-id <nova-net-id>`

Nova net ID. Used to set up network for share servers.

`--neutron-net-id <neutron-net-id>, --neutron-net_id <neutron-net-id>, --neutron_net_id <neutron-net-id>, --neutron_net-id <neutron-net-id>`

Neutron network ID. Used to set up network for share
servers.

`--neutron-subnet-id <neutron-subnet-id>, --neutron-subnet_id <neutron-subnet-id>, --neutron_subnet_id <neutron-subnet-id>, --neutron_subnet-id <neutron-subnet-id>`

Neutron subnet ID. Used to set up network for share
servers. This subnet should belong to specified
neutron network.

`--name <name>`

Share network name.

`--description <description>`

Share network description.

13.72. MANILA SHARE-REPLICA-CREATE

```
usage: manila share-replica-create [--availability-zone <availability-
zone>]
                                   [--share-network <network-info>]
                                   <share>
```

Create a share replica (Experimental).

Positional arguments

<share>

Name or ID of the share to replicate.

Optional arguments

**--availability-zone <availability-zone>, --availability_zone
<availability-zone>, --az <availability-zone>**

Optional Availability zone in which replica should be
created.

--share-network <network-info>, --share_network <network-info>

Optional network info ID or name.

13.73. MANILA SHARE-REPLICA-DELETE

```
usage: manila share-replica-delete [--force] <replica> [<replica> ...]
```

Remove one or more share replicas (Experimental).

Positional arguments

<replica>

ID of the share replica.

Optional arguments

--force

Attempt to force deletion of a replica on its backend. Using this
option will purge the replica from Manila even if it is not
cleaned up on the backend. Defaults to False.

13.74. 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"

13.75. MANILA SHARE-REPLICA-PROMOTE

```
usage: manila share-replica-promote <replica>
```

Promote specified replica to 'active' replica_state (Experimental).

Positional arguments

<replica>

ID of the share replica.

13.76. MANILA SHARE-REPLICA-RESET-REPLICA-STATE

```
usage: manila share-replica-reset-replica-state
                                            [--replica-state
<replica_state>]
                                            <replica>
```

Explicitly update the 'replica_state' of a share replica (Experimental).

Positional arguments

`<replica>`

ID of the share replica to modify.

Optional arguments

`--replica-state <replica_state>, --replica_state <replica_state>, --state <replica_state>`

Indicate which replica_state to assign the replica.
Options include in_sync, out_of_sync, active, error.
If no state is provided, out_of_sync will be used.

13.77. MANILA SHARE-REPLICA-RESET-STATE

```
usage: manila share-replica-reset-state [--state <state>] <replica>
```

Explicitly update the 'status' of a share replica (Experimental).

Positional arguments

`<replica>`

ID of the share replica to modify.

Optional arguments

`--state <state>`

Indicate which state to assign the replica. Options include
available, error, creating, deleting, error_deleting. If no
state is provided, available will be used.

13.78. MANILA SHARE-REPLICA-RESYNC

```
usage: manila share-replica-resync <replica>
```

Attempt to update the share replica with its 'active' mirror (Experimental).

Positional arguments

<replica>

ID of the share replica to resync.

13.79. MANILA SHARE-REPLICA-SHOW

```
usage: manila share-replica-show <replica>
```

Show details about a replica (Experimental).

Positional arguments

<replica>

ID of the share replica.

13.80. MANILA SHARE-SERVER-DELETE

```
usage: manila share-server-delete <id>
```

Delete share server (Admin only).

Positional arguments

<id>

ID of share server.

13.81. MANILA SHARE-SERVER-DETAILS

```
usage: manila share-server-details <id>
```

Show share server details (Admin only).

Positional arguments

<id>

ID of share server.

13.82. MANILA SHARE-SERVER-LIST

13.82. MANILA SHARE-SERVER-LIST

```
usage: manila share-server-list [--host <hostname>] [--status <status>]
                                [--share-network <share_network>]
                                [--project-id <project_id>]
                                [--columns <columns>]
```

List all share servers (Admin only).

Optional arguments

--host <hostname>

Filter results by name of host.

--status <status>

Filter results by status.

--share-network <share_network>

Filter results by share network.

--project-id <project_id>

Filter results by project ID.

--columns <columns>

Comma separated list of columns to be displayed e.g.
--columns "id,host,status"

13.83. MANILA SHARE-SERVER-SHOW

```
usage: manila share-server-show <id>
```

Show share server info (Admin only).

Positional arguments

<id>

ID of share server.

13.84. MANILA SHOW

```
usage: manila show <share>
```

Show details about a NAS share.

Positional arguments

<share>

Name or ID of the NAS share.

13.85. MANILA SHRINK

```
usage: manila shrink <share> <new_size>
```

Decreases the size of an existing share.

Positional arguments

<share>

Name or ID of share to shrink.

<new_size>

New size of share, in GiBs.

13.86. MANILA SNAPSHOT-CREATE

```
usage: manila snapshot-create [--force <True|False>] [--name <name>]
                              [--description <description>]
                              <share>
```

Add a new snapshot.

Positional arguments

<share>

Name or ID of the share to snapshot.

Optional arguments

`--force <True|False>`

Optional flag to indicate whether to snapshot a share even if it's busy. (Default=False)

`--name <name>`

Optional snapshot name. (Default=None)

`--description <description>`

Optional snapshot description. (Default=None)

13.87. MANILA SNAPSHOT-DELETE

```
usage: manila snapshot-delete <snapshot>
```

Remove a snapshot.

Positional arguments

`<snapshot>`

Name or ID of the snapshot to delete.

13.88. MANILA SNAPSHOT-FORCE-DELETE

```
usage: manila snapshot-force-delete <snapshot>
```

Attempt force-delete of snapshot, regardless of state (Admin only).

Positional arguments

`<snapshot>`

Name or ID of the snapshot to force delete.

13.89. 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)

13.90. 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.

13.91. 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.

13.92. 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"

13.93. 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).

13.94. 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)

13.95. 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.

13.96. MANILA SNAPSHOT-SHOW

```
usage: manila snapshot-show <snapshot>
```

Show details about a snapshot.

Positional arguments

<snapshot>

Name or ID of the snapshot.

13.97. 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).

13.98. 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.

13.99. 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.

13.100. 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.

13.101. MANILA TYPE-CREATE

```
usage: manila type-create [--snapshot_support <snapshot_support>]
                          [--is_public <is_public>]
                          <name> <spec_driver_handles_share_servers>
```

Create a new share type (Admin only).

Positional arguments

<name>

Name of the new share type.

<spec_driver_handles_share_servers>

Required extra specification. Valid values are
'true'/'1' and 'false'/'0'

Optional arguments

**--snapshot_support <snapshot_support>, --snapshot-support
<snapshot_support>**

Boolean extra spec that used for filtering of back
ends by their capability to create share snapshots.

(Default is True).

--is_public <is_public>, --is-public <is_public>

Make type accessible to the public (default true).

13.102. MANILA TYPE-DELETE

```
usage: manila type-delete <id>
```

Delete a specific share type (Admin only).

Positional arguments

<id>

Name or ID of the share type to delete.

13.103. 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).

13.104. 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"

13.105. MANILA UNMANAGE

```
usage: manila unmanage <share>
```

Unmanage share (Admin only).

Positional arguments

<share>

Name or ID of the share(s).

13.106. 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 14. A TIME SERIES STORAGE AND RESOURCES INDEX SERVICE COMMAND-LINE CLIENT

The **gnocchi** client is the command-line interface (CLI) for the A time series storage and resources index service API and its extensions. This chapter documents **gnocchi** version **2.6.0**.

For help on a specific **gnocchi** command, enter:

```
$ gnocchi help COMMAND
```

14.1. GNOCCHI USAGE

```
usage: gnocchi [--version] [-v | -q] [--log-file LOG_FILE] [-h] [--
debug]
               [--os-region-name <auth-region-name>]
               [--os-interface <interface>]
               [--gnocchi-api-version GNOCCHI_API_VERSION] [--
insecure]
               [--os-cacert <ca-certificate>] [--os-cert
<certificate>]
               [--os-key <key>] [--timeout <seconds>] [--os-auth-type
<name>]
               [--os-auth-url OS_AUTH_URL] [--os-domain-id
OS_DOMAIN_ID]
               [--os-domain-name OS_DOMAIN_NAME]
               [--os-project-id OS_PROJECT_ID]
               [--os-project-name OS_PROJECT_NAME]
               [--os-project-domain-id OS_PROJECT_DOMAIN_ID]
               [--os-project-domain-name OS_PROJECT_DOMAIN_NAME]
               [--os-trust-id OS_TRUST_ID]
               [--os-default-domain-id OS_DEFAULT_DOMAIN_ID]
               [--os-default-domain-name OS_DEFAULT_DOMAIN_NAME]
               [--os-user-id OS_USER_ID] [--os-username OS_USERNAME]
               [--os-user-domain-id OS_USER_DOMAIN_ID]
               [--os-user-domain-name OS_USER_DOMAIN_NAME]
               [--os-password OS_PASSWORD] [--endpoint ENDPOINT]
```

14.2. GNOCCHI OPTIONAL ARGUMENTS

--version

show program's version number and exit

-v, --verbose

Increase verbosity of output. Can be repeated.

-q, --quiet

Suppress output except warnings and errors.

--log-file LOG_FILE

Specify a file to log output. Disabled by default.

-h, --help

Show help message and exit.

--debug

Show tracebacks on errors.

--os-region-name <auth-region-name>

Authentication region name (Env: OS_REGION_NAME)

--os-interface <interface>

Select an interface type. Valid interface types:
[admin, public, internal]. (Env: OS_INTERFACE)

--gnocchi-api-version GNOCCHI_API_VERSION

Defaults to **env[GNOCCHI_API_VERSION]** or 1.

--os-auth-type <name>, --os-auth-plugin <name>

Authentication type to use

--endpoint ENDPOINT

Gnocchi endpoint (Env: GNOCCHI_ENDPOINT)

14.3. GNOCCHI ARCHIVE-POLICY CREATE

```
usage: gnocchi archive-policy create [-h] [-f
{json,shell,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--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

14.4. 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

14.5. GNOCCHI ARCHIVE-POLICY LIST

```
usage: gnocchi archive-policy list [-h] [-f
{csv,json,table,value,yaml}]
                                        [-c COLUMN] [--max-width
<integer>]
                                        [--noindent]
                                        [--quote
{all,minimal,none,nonnumeric}]
```

List archive policies

Optional arguments

-h, --help

show this help message and exit

14.6. GNOCCHI ARCHIVE-POLICY SHOW

```
usage: gnocchi archive-policy show [-h] [-f
{json,shell,table,value,yaml}]
                                        [-c COLUMN] [--max-width
<integer>]
                                        [--noindent] [--prefix PREFIX]
                                        name
```

Show an archive policy

Positional arguments

name

Name of the archive policy

Optional arguments

-h, --help

show this help message and exit

14.7. GNOCCHI ARCHIVE-POLICY UPDATE

```
usage: gnocchi archive-policy update [-h] [-f
{json,shell,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--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
':'

14.8. GNOCCHI ARCHIVE-POLICY-RULE CREATE

```
usage: gnocchi archive-policy-rule create [-h]
                                          [-f
```

```
{json,shell,table,value,yaml}]

<integer>]

PREFIX] -a
```
```
[-c COLUMN] [--max-width

[--noindent] [--prefix

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

14.9. GNOCCHI ARCHIVE-POLICY-RULE DELETE

```
usage: gnocchi archive-policy-rule delete [-h] name
```

Delete an archive policy rule

Positional arguments

name

Name of the archive policy rule

Optional arguments

-h, --help

    show this help message and exit

14.10. GNOCCHI ARCHIVE-POLICY-RULE LIST

```
usage: gnocchi archive-policy-rule list [-h] [-f
{csv,json,table,value,yaml}]
                                        [-c COLUMN] [--max-width
<integer>]
                                        [--noindent]
                                        [--quote
{all,minimal,none,nonnumeric}]
```

List archive policy rules

Optional arguments

-h, --help

    show this help message and exit

14.11. GNOCCHI ARCHIVE-POLICY-RULE SHOW

```
usage: gnocchi archive-policy-rule show [-h]
                                        [-f
{json,shell,table,value,yaml}]
                                        [-c COLUMN] [--max-width
<integer>]
                                        [--noindent] [--prefix
PREFIX]
                                        name
```

Show an archive policy rule

Positional arguments

name

    Name of the archive policy rule

Optional arguments

-h, --help

show this help message and exit

14.12. GNOCCHI BENCHMARK MEASURES ADD

```
usage: gnocchi benchmark measures add [-h] [--resource-id RESOURCE_ID]
                                      [-f
{json,shell,table,value,yaml}]
                                      [-c COLUMN] [--max-width
<integer>]
                                      [--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

14.13. GNOCCHI BENCHMARK MEASURES SHOW

```
usage: gnocchi benchmark measures show [-h] [-f
{json,shell,table,value,yaml}]
                                       [-c COLUMN] [--max-width
<integer>]
                                       [--noindent] [--prefix
PREFIX]
                                       [--resource-id RESOURCE_ID]
                                       [--aggregation AGGREGATION]
                                       [--start START] [--stop STOP]
                                       [--granularity GRANULARITY]
[--refresh]
                                       [--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 (in seconds)

--refresh

force aggregation of all known measures

--workers WORKERS, -w WORKERS

Number of workers to use

--count COUNT, -n COUNT

Number of total measures to send

14.14. GNOCCHI BENCHMARK METRIC CREATE

```
usage: gnocchi benchmark metric create [-h] [--resource-id RESOURCE_ID]
                                       [-f
{json,shell,table,value,yaml}]
                                       [-c COLUMN] [--max-width
<integer>]
                                       [--noindent] [--prefix
PREFIX]
                                       [--archive-policy-name
ARCHIVE_POLICY_NAME]
                                       [--workers WORKERS] --count
COUNT
                                       [--keep]
```

Do benchmark testing of metric creation

Optional arguments

-h, --help

show this help message and exit

--resource-id RESOURCE_ID, -r RESOURCE_ID

ID of the resource

--archive-policy-name ARCHIVE_POLICY_NAME, -a ARCHIVE_POLICY_NAME

name of the archive policy

--workers WORKERS, -w WORKERS

Number of workers to use

--count COUNT, -n COUNT

Number of metrics to create

--keep, -k

Keep created metrics

14.15. GNOCCHI BENCHMARK METRIC SHOW

```
usage: gnocchi benchmark metric show [-h] [--resource-id RESOURCE_ID]
                                     [-f
{json,shell,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
                                     [--noindent] [--prefix PREFIX]
                                     [--workers WORKERS] --count
COUNT
                                     metric [metric ...]
```

Do benchmark testing of metric show

Positional arguments

metric

ID or name of the metrics

Optional arguments

-h, --help

show this help message and exit

--resource-id RESOURCE_ID, -r RESOURCE_ID

ID of the resource

--workers WORKERS, -w WORKERS

Number of workers to use

--count COUNT, -n COUNT

Number of metrics to get

14.16. GNOCCHI CAPABILITIES LIST

```
usage: gnocchi capabilities list [-h] [-f
{json,shell,table,value,yaml}]
                                 [-c COLUMN] [--max-width <integer>]
                                 [--noindent] [--prefix PREFIX]
```

List capabilities

Optional arguments

`-h, --help`

show this help message and exit

14.17. 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 '@'

14.18. GNOCCHI MEASURES AGGREGATION

```
usage: gnocchi measures aggregation [-h] [-f
{csv,json,table,value,yaml}]
                                    [-c COLUMN] [--max-width
<integer>]
                                    [--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]
```

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 (in seconds)

`--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, ∨,
>=, <=, !=, >, <, =, ==, 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

14.19. 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

14.20. GNOCCHI MEASURES BATCH-RESOURCES-METRICS

```
usage: gnocchi measures batch-resources-metrics [-h] file
```

Positional arguments

file

File containing measurements to batch or - for stdin (see
Gnocchi REST API docs for the format

Optional arguments

-h, --help

show this help message and exit

14.21. GNOCCHI MEASURES SHOW

```
usage: gnocchi measures show [-h] [-f {csv,json,table,value,yaml}] [-c
COLUMN]
                                  [--max-width <integer>] [--noindent]
                                  [--quote {all,minimal,none,nonnumeric}]
                                  [--resource-id RESOURCE_ID]
                                  [--aggregation AGGREGATION] [--start
START]
                                  [--stop STOP] [--granularity
GRANULARITY]
                                  [--refresh]
                                  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 (in seconds)

`--refresh`

force aggregation of all known measures

14.22. GNOCCHI METRIC CREATE

```
usage: gnocchi metric create [-h] [--resource-id RESOURCE_ID]
                             [-f {json,shell,table,value,yaml}] [-c
COLUMN]
                             [--max-width <integer>] [--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

14.23. 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

14.24. GNOCCHI METRIC LIST

```
usage: gnocchi metric list [-h] [-f {csv,json,table,value,yaml}] [-c
COLUMN]
                            [--max-width <integer>] [--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

14.25. GNOCCHI METRIC SHOW

```
usage: gnocchi metric show [-h] [-f {json,shell,table,value,yaml}] [-c
COLUMN]
                                [--max-width <integer>] [--noindent]
                                [--prefix PREFIX] [--resource-id
RESOURCE_ID]
                                metric
```

Show a metric

Positional arguments

metric

ID or name of the metric

Optional arguments

-h, --help

show this help message and exit

--resource-id RESOURCE_ID, -r RESOURCE_ID

ID of the resource

14.26. GNOCCHI RESOURCE CREATE

```
usage: gnocchi resource create [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--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

14.27. 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

14.28. GNOCCHI RESOURCE HISTORY

```
usage: gnocchi resource history [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent]
                                [--quote
{all,minimal,none,nonnumeric}]
                                [--details] [--limit <LIMIT>]
                                [--marker <MARKER>] [--sort <SORT>]
                                [--type RESOURCE_TYPE]
                                resource_id
```

Show the history of a resource

Positional arguments

resource_id

> ID of a resource

Optional arguments

-h, --help

> show this help message and exit

--details

> Show all attributes of generic resources

--limit <LIMIT>

> Number of resources to return (Default is server
> default)

--marker <MARKER>

> Last item of the previous listing. Return the next
> results after this value

--sort <SORT>

> Sort of resource attribute (example: user_id:desc-
> nullslast

--type RESOURCE_TYPE, -t RESOURCE_TYPE

Type of resource

14.29. GNOCCHI RESOURCE LIST

```
usage: gnocchi resource list [-h] [-f {csv,json,table,value,yaml}] [-c
COLUMN]
                                [--max-width <integer>] [--noindent]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--details] [--history] [--limit
<LIMIT>]
                                [--marker <MARKER>] [--sort <SORT>]
                                [--type RESOURCE_TYPE]
```

List resources

Optional arguments

-h, --help

show this help message and exit

--details

Show all attributes of generic resources

--history

Show history of the resources

--limit <LIMIT>

Number of resources to return (Default is server
default)

--marker <MARKER>

Last item of the previous listing. Return the next
results after this value

--sort <SORT>

Sort of resource attribute (example: user_id:desc-nullslast

--type RESOURCE_TYPE, -t RESOURCE_TYPE

Type of resource

14.30. GNOCCHI RESOURCE SEARCH

```
usage: gnocchi resource search [-h] [-f {csv,json,table,value,yaml}]
                               [-c COLUMN] [--max-width <integer>]
                               [--noindent]
                               [--quote
{all,minimal,none,nonnumeric}]
                               [--details] [--history] [--limit
<LIMIT>]
                               [--marker <MARKER>] [--sort <SORT>]
                               [--type RESOURCE_TYPE]
                               query
```

Search resources with specified query rules

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, ∨, >=, <=, !=, >, <, =, ==, eq, ne, lt, gt, ge, le, in, like, ≠, ≥, ≤, like, in.

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

14.31. GNOCCHI RESOURCE SHOW

```
usage: gnocchi resource show [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX] [--type RESOURCE_TYPE]
                             resource_id
```

Show a resource

Positional arguments

resource_id

ID of a resource

Optional arguments

-h, --help

show this help message and exit

--type RESOURCE_TYPE, -t RESOURCE_TYPE

Type of resource

14.32. GNOCCHI RESOURCE UPDATE

```
usage: gnocchi resource update [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--max-width <integer>]
                               [--noindent] [--prefix PREFIX]
                               [--type RESOURCE_TYPE] [-a ATTRIBUTE]
                               [-m ADD_METRIC] [-n CREATE_METRIC]
                               [-d DELETE_METRIC]
                               resource_id
```

Update a resource

Positional arguments

resource_id

ID of the resource

Optional arguments

-h, --help

show this help message and exit

--type RESOURCE_TYPE, -t RESOURCE_TYPE

Type of resource

-a ATTRIBUTE, --attribute ATTRIBUTE

name and value of 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

14.33. GNOCCHI RESOURCE-TYPE CREATE

```
usage: gnocchi resource-type create [-h] [-f
{json,shell,table,value,yaml}]
                                    [-c COLUMN] [--max-width
<integer>]
                                    [--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

14.34. 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

14.35. GNOCCHI RESOURCE-TYPE LIST

```
usage: gnocchi resource-type list [-h] [-f {csv,json,table,value,yaml}]
                                  [-c COLUMN] [--max-width <integer>]
                                  [--noindent]
                                  [--quote
{all,minimal,none,nonnumeric}]
```

List resource types

Optional arguments

-h, --help

show this help message and exit

14.36. GNOCCHI RESOURCE-TYPE SHOW

```
usage: gnocchi resource-type show [-h] [-f
{json,shell,table,value,yaml}]
                                  [-c COLUMN] [--max-width <integer>]
                                  [--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

14.37. GNOCCHI STATUS

```
usage: gnocchi status [-h] [-f {json,shell,table,value,yaml}] [-c
COLUMN]
                      [--max-width <integer>] [--noindent] [--prefix
PREFIX]
```

Show the status of measurements processing

Optional arguments

-h, --help

show this help message and exit

CHAPTER 15. DNS SERVICE COMMAND-LINE CLIENT

The **designate** client is the command-line interface (CLI) for the DNS service API and its extensions. This chapter documents **designate** version **2.3.0**.

For help on a specific **designate** command, enter:

```
$ designate help COMMAND
```

15.1. DESIGNATE USAGE

```
usage: designate [--version] [-v | -q] [--log-file LOG_FILE] [-h] [--
debug]
                 [--os-username OS_USERNAME] [--os-user-id OS_USER_ID]
                 [--os-user-domain-id OS_USER_DOMAIN_ID]
                 [--os-user-domain-name OS_USER_DOMAIN_NAME]
                 [--os-password OS_PASSWORD] [--os-tenant-name
OS_TENANT_NAME]
                 [--os-tenant-id OS_TENANT_ID]
                 [--os-project-name OS_PROJECT_NAME]
                 [--os-domain-name OS_DOMAIN_NAME]
                 [--os-domain-id OS_DOMAIN_ID] [--os-project-id
OS_PROJECT_ID]
                 [--os-project-domain-id OS_PROJECT_DOMAIN_ID]
                 [--os-project-domain-name OS_PROJECT_DOMAIN_NAME]
                 [--os-auth-url OS_AUTH_URL] [--os-region-name
OS_REGION_NAME]
                 [--os-token OS_TOKEN] [--os-endpoint OS_ENDPOINT]
                 [--os-endpoint-type OS_ENDPOINT_TYPE]
                 [--os-service-type OS_SERVICE_TYPE] [--os-cacert
OS_CACERT]
                 [--insecure] [--all-tenants] [--edit-managed]
```

15.2. DESIGNATE OPTIONAL ARGUMENTS

--version

       show program's version number and exit

-v, --verbose

       Increase verbosity of output. Can be repeated.

-q, --quiet

Suppress output except warnings and errors.

`--log-file LOG_FILE`

Specify a file to log output. Disabled by default.

`-h, --help`

Show help message and exit.

`--debug`

Show tracebacks on errors.

`--os-username OS_USERNAME`

Name used for authentication with the OpenStack
Identity service. Defaults to **`env[OS_USERNAME]`**.

`--os-user-id OS_USER_ID`

User ID used for authentication with the OpenStack
Identity service. Defaults to **`env[OS_USER_ID]`**.

`--os-user-domain-id OS_USER_DOMAIN_ID`

Defaults to **`env[OS_USER_DOMAIN_ID]`**.

`--os-user-domain-name OS_USER_DOMAIN_NAME`

Defaults to **`env[OS_USER_DOMAIN_NAME]`**.

`--os-password OS_PASSWORD`

Password used for authentication with the OpenStack
Identity service. Defaults to **`env[OS_PASSWORD]`**.

`--os-tenant-name OS_TENANT_NAME`

Tenant to request authorization on. Defaults to
env[OS_TENANT_NAME].

--os-tenant-id OS_TENANT_ID

Tenant to request authorization on. Defaults to
env[OS_TENANT_ID].

--os-project-name OS_PROJECT_NAME

Project to request authorization on. Defaults to
env[OS_PROJECT_NAME].

--os-domain-name OS_DOMAIN_NAME

Project to request authorization on. Defaults to
env[OS_DOMAIN_NAME].

--os-domain-id OS_DOMAIN_ID

Defaults to **env[OS_DOMAIN_ID]**.

--os-project-id OS_PROJECT_ID

Project to request authorization on. Defaults to
env[OS_PROJECT_ID].

--os-project-domain-id OS_PROJECT_DOMAIN_ID

Defaults to **env[OS_PROJECT_DOMAIN_ID]**.

--os-project-domain-name OS_PROJECT_DOMAIN_NAME

Defaults to **env[OS_PROJECT_DOMAIN_NAME]**.

--os-auth-url OS_AUTH_URL

Specify the Identity endpoint to use for
authentication. Defaults to **env[OS_AUTH_URL]**.

--os-region-name OS_REGION_NAME

Specify the region to use. Defaults to
env[OS_REGION_NAME].

--os-token OS_TOKEN

Specify an existing token to use instead of retrieving
one via authentication (e.g. with username &
password). Defaults to **env[OS_SERVICE_TOKEN]**.

--os-endpoint OS_ENDPOINT

Specify an endpoint to use instead of retrieving one
from the service catalog (via authentication).
Defaults to **env[OS_DNS_ENDPOINT]**.

--os-endpoint-type OS_ENDPOINT_TYPE

Defaults to **env[OS_ENDPOINT_TYPE]**.

--os-service-type OS_SERVICE_TYPE

Defaults to **env[OS_DNS_SERVICE_TYPE]**, or 'dns'.

--os-cacert OS_CACERT

CA certificate bundle file. Defaults to
env[OS_CACERT].

--insecure

Explicitly allow 'insecure' SSL requests.

--all-tenants

Allows to list all domains from all tenants.

--edit-managed

Allows to edit records that are marked as managed.

15.3. DESIGNATE DIAGNOSTICS-PING

```
usage: designate diagnostics-ping [-h] [-f
{json,shell,table,value,yaml}]
                                  [-c COLUMN] [--max-width <integer>]
                                  [--noindent] [--prefix PREFIX] --
service
                                  SERVICE --host HOST
```

Ping a service on a given host

Optional arguments

-h, --help

show this help message and exit

--service SERVICE

Service name (e.g. central)

--host HOST

Hostname

15.4. DESIGNATE DOMAIN-CREATE

```
usage: designate domain-create [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--max-width <integer>]
                               [--noindent] [--prefix PREFIX] --name
NAME
                               --email EMAIL [--ttl TTL]
                               [--description DESCRIPTION]
```

Create Domain

Optional arguments

-h, --help

show this help message and exit

--name NAME

Domain name.

--email EMAIL

Domain email.

--ttl TTL

Time to live (seconds).

--description DESCRIPTION

Description.

15.5. DESIGNATE DOMAIN-DELETE

```
usage: designate domain-delete [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--max-width <integer>]
                               [--noindent] [--prefix PREFIX]
                               id
```

Delete Domain

Positional arguments

id

Domain ID or name.

Optional arguments

-h, --help

show this help message and exit

15.6. DESIGNATE DOMAIN-GET

```
usage: designate domain-get [-h] [-f {json,shell,table,value,yaml}]
                            [-c COLUMN] [--max-width <integer>] [--
noindent]
                            [--prefix PREFIX]
                            id
```

Get Domain

Positional arguments

id

Domain ID or name.

Optional arguments

-h, --help

show this help message and exit

15.7. DESIGNATE DOMAIN-LIST

```
usage: designate domain-list [-h] [-f {csv,json,table,value,yaml}] [-c
COLUMN]
                             [--max-width <integer>] [--noindent]
                             [--quote {all,minimal,none,nonnumeric}]
```

List Domains

Optional arguments

-h, --help

show this help message and exit

15.8. DESIGNATE DOMAIN-SERVERS-LIST

```
usage: designate domain-servers-list [-h] [-f
{csv,json,table,value,yaml}]
                                     [-c COLUMN] [--max-width
<integer>]
```

```
                                        [--noindent]
                                        [--quote
{all,minimal,none,nonnumeric}]
                                        id
```

List Domain Servers

Positional arguments

id

Domain ID or name.

Optional arguments

-h, --help

show this help message and exit

15.9. DESIGNATE DOMAIN-UPDATE

```
usage: designate domain-update [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--max-width <integer>]
                               [--noindent] [--prefix PREFIX] [--name
NAME]
                               [--email EMAIL] [--ttl TTL]
                               [--description DESCRIPTION | --no-
description]
                               id
```

Update Domain

Positional arguments

id

Domain ID or name.

Optional arguments

-h, --help

show this help message and exit

`--name NAME`

Domain name.

`--email EMAIL`

Domain email.

`--ttl TTL`

Time to live (seconds).

`--description DESCRIPTION`

Description.

`--no-description`

15.10. DESIGNATE QUOTA-GET

```
usage: designate quota-get [-h] [-f {json,shell,table,value,yaml}] [-c
COLUMN]
                               [--max-width <integer>] [--noindent]
                               [--prefix PREFIX]
                               tenant_id
```

Get Quota

Positional arguments

`tenant_id`

Tenant ID

Optional arguments

`-h, --help`

show this help message and exit

15.11. DESIGNATE QUOTA-RESET

```
usage: designate quota-reset [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX]
                             tenant_id
```

Reset Quota

Positional arguments

tenant_id

Tenant ID.

Optional arguments

-h, --help

show this help message and exit

15.12. DESIGNATE QUOTA-UPDATE

```
usage: designate quota-update [-h] [-f {json,shell,table,value,yaml}]
                              [-c COLUMN] [--max-width <integer>] [--
noindent]
                              [--prefix PREFIX] [--domains DOMAINS]
                              [--domain-recordsets DOMAIN_RECORDSETS]
                              [--recordset-records RECORDSET_RECORDS]
                              [--domain-records DOMAIN_RECORDS]
                              [--api-export-size API_EXPORT_SIZE]
                              tenant_id
```

Update Quota

Positional arguments

tenant_id

Tenant ID.

Optional arguments

-h, --help

show this help message and exit

--domains DOMAINS

Allowed domains.

--domain-recordsets DOMAIN_RECORDSETS

Allowed domain records.

--recordset-records RECORDSET_RECORDS

Allowed recordset records.

--domain-records DOMAIN_RECORDS

Allowed domain records.

--api-export-size API_EXPORT_SIZE

Allowed zone export recordsets.

15.13. DESIGNATE RECORD-CREATE

```
usage: designate record-create [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--max-width <integer>]
                               [--noindent] [--prefix PREFIX] --name
NAME
                               --type TYPE --data DATA [--ttl TTL]
                               [--priority PRIORITY]
                               [--description DESCRIPTION]
                               domain_id
```

Create Record

Positional arguments

domain_id

Domain ID or name.

Optional arguments

-h, --help

>   show this help message and exit

--name NAME

>   Record (relative|absolute) name.

--type TYPE

>   Record type.

--data DATA

>   Record data.

--ttl TTL

>   Record TTL.

--priority PRIORITY

>   Record priority.

--description DESCRIPTION

>   Description.

15.14. DESIGNATE RECORD-DELETE

```
usage: designate record-delete [-h] [-f {json,shell,table,value,yaml}]
                                  [-c COLUMN] [--max-width <integer>]
                                  [--noindent] [--prefix PREFIX]
                                  domain_id id
```

Delete Record

Positional arguments

domain_id

Domain ID or name.

id

Record ID.

Optional arguments

-h, --help

show this help message and exit

15.15. DESIGNATE RECORD-GET

```
usage: designate record-get [-h] [-f {json,shell,table,value,yaml}]
                                 [-c COLUMN] [--max-width <integer>] [--
noindent]
                                 [--prefix PREFIX]
                                 domain_id id
```

Get Record

Positional arguments

domain_id

Domain ID or name.

id

Record ID.

Optional arguments

-h, --help

show this help message and exit

15.16. DESIGNATE RECORD-LIST

```
usage: designate record-list [-h] [-f {csv,json,table,value,yaml}] [-c
```

```
COLUMN]
                                [--max-width <integer>] [--noindent]
                                [--quote {all,minimal,none,nonnumeric}]
                                domain_id
```

List Records

Positional arguments

domain_id

Domain ID or name.

Optional arguments

-h, --help

show this help message and exit

15.17. DESIGNATE RECORD-UPDATE

```
usage: designate record-update [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent] [--prefix PREFIX] [--name
NAME]
                                [--type TYPE] [--data DATA]
                                [--description DESCRIPTION | --no-
description]
                                [--ttl TTL | --no-ttl]
                                [--priority PRIORITY | --no-priority]
                                domain_id id
```

Update Record

Positional arguments

domain_id

Domain ID or name.

id

Record ID.

Optional arguments

`-h, --help`

show this help message and exit

`--name NAME`

Record name.

`--type TYPE`

Record type.

`--data DATA`

Record data.

`--description DESCRIPTION`

Description.

`--no-description`

`--ttl TTL`

Record time to live (seconds).

`--no-ttl`

`--priority PRIORITY`

Record priority.

`--no-priority`

15.18. DESIGNATE REPORT-COUNT-ALL

```
usage: designate report-count-all [-h] [-f
{json,shell,table,value,yaml}]
                                        [-c COLUMN] [--max-width <integer>]
                                        [--noindent] [--prefix PREFIX]
```

Get count totals for all tenants, domains and records

Optional arguments

-h, --help

show this help message and exit

15.19. DESIGNATE REPORT-COUNT-DOMAINS

```
usage: designate report-count-domains [-h] [-f
{json,shell,table,value,yaml}]
                                        [-c COLUMN] [--max-width
<integer>]
                                        [--noindent] [--prefix PREFIX]
```

Get counts for total domains

Optional arguments

-h, --help

show this help message and exit

15.20. DESIGNATE REPORT-COUNT-RECORDS

```
usage: designate report-count-records [-h] [-f
{json,shell,table,value,yaml}]
                                        [-c COLUMN] [--max-width
<integer>]
                                        [--noindent] [--prefix PREFIX]
```

Get counts for total records

Optional arguments

-h, --help

show this help message and exit

15.21. DESIGNATE REPORT-COUNT-TENANTS

```
usage: designate report-count-tenants [-h] [-f
{json,shell,table,value,yaml}]
                                        [-c COLUMN] [--max-width
<integer>]
                                        [--noindent] [--prefix PREFIX]
```

Get counts for total tenants

Optional arguments

-h, --help

show this help message and exit

15.22. DESIGNATE REPORT-TENANT-DOMAINS

```
usage: designate report-tenant-domains [-h] [-f
{csv,json,table,value,yaml}]
                                        [-c COLUMN] [--max-width
<integer>]
                                        [--noindent]
                                        [--quote
{all,minimal,none,nonnumeric}]
                                        --report-tenant-id
REPORT_TENANT_ID
```

Get a list of domains for given tenant

Optional arguments

-h, --help

show this help message and exit

--report-tenant-id REPORT_TENANT_ID

The tenant_id being reported on.

15.23. DESIGNATE REPORT-TENANTS-ALL

```
usage: designate report-tenants-all [-h] [-f
{csv,json,table,value,yaml}]
                                        [-c COLUMN] [--max-width
<integer>]

                                        [--noindent]
                                        [--quote
{all,minimal,none,nonnumeric}]
```

Get list of tenants and domain count for each

Optional arguments

-h, --help

show this help message and exit

15.24. DESIGNATE SERVER-CREATE

```
usage: designate server-create [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--max-width <integer>]
                               [--noindent] [--prefix PREFIX] --name
NAME
```

Create Server

Optional arguments

-h, --help

show this help message and exit

--name NAME

Server name.

15.25. DESIGNATE SERVER-DELETE

```
usage: designate server-delete [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--max-width <integer>]
                               [--noindent] [--prefix PREFIX]
                               id
```

Delete Server

Positional arguments

id

Server ID.

Optional arguments

-h, --help

show this help message and exit

15.26. DESIGNATE SERVER-GET

```
usage: designate server-get [-h] [-f {json,shell,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>] [--
noindent]
                                [--prefix PREFIX]
                                id
```

Get Server

Positional arguments

id

Server ID.

Optional arguments

-h, --help

show this help message and exit

15.27. DESIGNATE SERVER-LIST

```
usage: designate server-list [-h] [-f {csv,json,table,value,yaml}] [-c
COLUMN]
                                [--max-width <integer>] [--noindent]
                                [--quote {all,minimal,none,nonnumeric}]
```

List Servers

Optional arguments

-h, --help

> show this help message and exit

15.28. DESIGNATE SERVER-UPDATE

```
usage: designate server-update [-h] [-f {json,shell,table,value,yaml}]
                               [-c COLUMN] [--max-width <integer>]
                               [--noindent] [--prefix PREFIX] [--name
NAME]
                               id
```

Update Server

Positional arguments

id

> Server ID.

Optional arguments

-h, --help

> show this help message and exit

--name NAME

> Server name.

15.29. DESIGNATE SYNC-ALL

```
usage: designate sync-all [-h] [-f {json,shell,table,value,yaml}] [-c
COLUMN]
                          [--max-width <integer>] [--noindent]
                          [--prefix PREFIX]
```

Sync Everything

Optional arguments

-h, --help

show this help message and exit

15.30. DESIGNATE SYNC-DOMAIN

```
usage: designate sync-domain [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX]
                             domain_id
```

Sync a single Domain

Positional arguments

domain_id

Domain ID

Optional arguments

-h, --help

show this help message and exit

15.31. DESIGNATE SYNC-RECORD

```
usage: designate sync-record [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX]
                             domain_id record_id
```

Sync a single Record

Positional arguments

domain_id

Domain ID

record_id

Record ID

Optional arguments

-h, --help

show this help message and exit

15.32. DESIGNATE TOUCH-DOMAIN

```
usage: designate touch-domain [-h] [-f {json,shell,table,value,yaml}]
                              [-c COLUMN] [--max-width <integer>] [--
noindent]
                              [--prefix PREFIX]
                              domain_id
```

Touch a single Domain

Positional arguments

domain_id

Domain ID

Optional arguments

-h, --help

show this help message and exit

CHAPTER 16. KEY MANAGER SERVICE COMMAND-LINE CLIENT (TECHNOLOGY PREVIEW)

Note

The OpenStack Key Manager service is available in this release as a *Technology Preview*, and therefore is not fully supported by Red Hat. It should only be used for testing, and should not be deployed in a production environment. For more information about Technology Preview features, see Scope of Coverage Details.

The **barbican** client is the command-line interface (CLI) for the Key Manager API and its extensions. This chapter documents **barbican** version **4.1.0**.

For help on a specific **barbican** command, enter:

```
$ barbican help COMMAND
```

16.1. BARBICAN USAGE

```
usage: barbican [--version] [-v | -q] [--log-file LOG_FILE] [-h] [--
debug]
                [--no-auth] [--os-identity-api-version <identity-api-
version>]
                [--os-auth-url <auth-url>] [--os-username <auth-user-
name>]
                [--os-user-id <auth-user-id>] [--os-password <auth-
password>]
                [--os-user-domain-id <auth-user-domain-id>]
                [--os-user-domain-name <auth-user-domain-name>]
                [--os-tenant-name <auth-tenant-name>]
                [--os-tenant-id <tenant-id>]
                [--os-project-id <auth-project-id>]
                [--os-project-name <auth-project-name>]
                [--os-project-domain-id <auth-project-domain-id>]
                [--os-project-domain-name <auth-project-domain-name>]
                [--os-auth-token <auth-token>] [--endpoint <barbican-
url>]
                [--interface <barbican-interface>]
                [--service-type <barbican-service-type>]
                [--service-name <barbican-service-name>]
                [--region-name <barbican-region-name>]
                [--barbican-api-version <barbican-api-version>] [--
insecure]
                [--os-cacert <ca-certificate>] [--os-cert
<certificate>]
                [--os-key <key>] [--timeout <seconds>]
```

16.2. BARBICAN OPTIONAL ARGUMENTS

--version

> show program's version number and exit

-v, --verbose

> Increase verbosity of output. Can be repeated.

-q, --quiet

> Suppress output except warnings and errors.

--log-file LOG_FILE

> Specify a file to log output. Disabled by default.

-h, --help

> Show help message and exit.

--debug

> Show tracebacks on errors.

--no-auth, -N

> Do not use authentication.

--os-identity-api-version <identity-api-version>

> Specify Identity API version to use. Defaults to **env[OS_IDENTITY_API_VERSION]** or 3.

--os-auth-url <auth-url>, -A <auth-url>

> Defaults to **env[OS_AUTH_URL]**.

--os-username <auth-user-name>, -U <auth-user-name>

Defaults to **env[OS_USERNAME]**.

--os-user-id <auth-user-id>

Defaults to **env[OS_USER_ID]**.

--os-password <auth-password>, -P <auth-password>

Defaults to **env[OS_PASSWORD]**.

--os-user-domain-id <auth-user-domain-id>

Defaults to **env[OS_USER_DOMAIN_ID]**.

--os-user-domain-name <auth-user-domain-name>

Defaults to **env[OS_USER_DOMAIN_NAME]**.

--os-tenant-name <auth-tenant-name>, -T <auth-tenant-name>

Defaults to **env[OS_TENANT_NAME]**.

--os-tenant-id <tenant-id>, -I <tenant-id>

Defaults to **env[OS_TENANT_ID]**.

--os-project-id <auth-project-id>

Another way to specify tenant ID. This option is
mutually exclusive with --os-tenant-id. Defaults to
env[OS_PROJECT_ID].

--os-project-name <auth-project-name>

Another way to specify tenant name. This option is
mutually exclusive with --os-tenant-name. Defaults to
env[OS_PROJECT_NAME].

--os-project-domain-id <auth-project-domain-id>

Defaults to **env[OS_PROJECT_DOMAIN_ID]**.

--os-project-domain-name <auth-project-domain-name>

Defaults to **env[OS_PROJECT_DOMAIN_NAME]**.

--os-auth-token <auth-token>

Defaults to **env[OS_AUTH_TOKEN]**.

--endpoint <barbican-url>, -E <barbican-url>

Defaults to **env[BARBICAN_ENDPOINT]**.

--interface <barbican-interface>

Defaults to **env[BARBICAN_INTERFACE]**.

--service-type <barbican-service-type>

Defaults to **env[BARBICAN_SERVICE_TYPE]**.

--service-name <barbican-service-name>

Defaults to **env[BARBICAN_SERVICE_NAME]**.

--region-name <barbican-region-name>

Defaults to **env[BARBICAN_REGION_NAME]**.

--barbican-api-version <barbican-api-version>

Defaults to **env[BARBICAN_API_VERSION]**.

--insecure

Explicitly allow client to perform "insecure" TLS (https) requests. The server's certificate will not be verified against any certificate authorities. This

option should be used with caution.

--os-cacert <ca-certificate>

Specify a CA bundle file to use in verifying a TLS (https) server certificate. Defaults to **env[OS_CACERT]**.

--os-cert <certificate>

Defaults to **env[OS_CERT]**.

--os-key <key>

Defaults to **env[OS_KEY]**.

--timeout <seconds>

Set request timeout (in seconds).

16.3. BARBICAN ACL DELETE

```
usage: barbican acl delete [-h] URI
```

Delete ACLs for a secret or container as identified by its href.

Positional arguments

URI

The URI reference for the secret or container.

Optional arguments

-h, --help

show this help message and exit

16.4. BARBICAN ACL GET

```
usage: barbican acl get [-h] [-f {csv,json,table,value,yaml}] [-c
```

```
COLUMN]
                        [--max-width <integer>] [--noindent]
                        [--quote {all,minimal,none,nonnumeric}]
                        URI
```

Retrieve ACLs for a secret or container by providing its href.

Positional arguments

URI

The URI reference for the secret or container.

Optional arguments

-h, --help

show this help message and exit

16.5. BARBICAN ACL SUBMIT

```
usage: barbican acl submit [-h] [-f {csv,json,table,value,yaml}] [-c
COLUMN]
                           [--max-width <integer>] [--noindent]
                           [--quote {all,minimal,none,nonnumeric}]
                           [--user [USERS]]
                           [--project-access | --no-project-access]
                           [--operation-type {read}]
                           URI
```

Submit ACL on a secret or container as identified by its href.

Positional arguments

URI

The URI reference for the secret or container.

Optional arguments

-h, --help

show this help message and exit

--user [USERS], -u [USERS]

Keystone userid(s) for ACL.

--project-access

Flag to enable project access behavior.

--no-project-access

Flag to disable project access behavior.

--operation-type {read}, -o {read}

Type of Barbican operation ACL is set for

16.6. BARBICAN ACL USER ADD

```
usage: barbican acl user add [-h] [-f {csv,json,table,value,yaml}] [-c
COLUMN]
                                [--max-width <integer>] [--noindent]
                                [--quote {all,minimal,none,nonnumeric}]
                                [--user [USERS]]
                                [--project-access | --no-project-access]
                                [--operation-type {read}]
                                URI
```

Add ACL users to a secret or container as identified by its href.

Positional arguments

URI

The URI reference for the secret or container.

Optional arguments

-h, --help

show this help message and exit

--user [USERS], -u [USERS]

Keystone userid(s) for ACL.

--project-access

Flag to enable project access behavior.

--no-project-access

Flag to disable project access behavior.

--operation-type {read}, -o {read}

Type of Barbican operation ACL is set for

16.7. BARBICAN ACL USER REMOVE

```
usage: barbican acl user remove [-h] [-f {csv,json,table,value,yaml}]
                                [-c COLUMN] [--max-width <integer>]
                                [--noindent]
                                [--quote
{all,minimal,none,nonnumeric}]
                                [--user [USERS]]
                                [--project-access | --no-project-
access]
                                [--operation-type {read}]
                                URI
```

Remove ACL users from a secret or container as identified by its href.

Positional arguments

URI

The URI reference for the secret or container.

Optional arguments

-h, --help

show this help message and exit

--user [USERS], -u [USERS]

Keystone userid(s) for ACL.

--project-access

Flag to enable project access behavior.

--no-project-access

Flag to disable project access behavior.

--operation-type {read}, -o {read}

Type of Barbican operation ACL is set for

16.8. BARBICAN CA GET

```
usage: barbican ca get [-h] [-f {json,shell,table,value,yaml}] [-c
COLUMN]
                              [--max-width <integer>] [--noindent] [--prefix
PREFIX]
                              URI
```

Retrieve a CA by providing its URI.

Positional arguments

URI

The URI reference for the CA.

Optional arguments

-h, --help

show this help message and exit

16.9. BARBICAN CA LIST

```
usage: barbican ca list [-h] [-f {csv,json,table,value,yaml}] [-c
COLUMN]
                              [--max-width <integer>] [--noindent]
                              [--quote {all,minimal,none,nonnumeric}]
```

```
                                        [--limit LIMIT] [--offset OFFSET] [--name
  NAME]
```

List cas.

Optional arguments

-h, --help

show this help message and exit

--limit LIMIT, -l LIMIT

specify the limit to the number of items to list per
page (default: 10; maximum: 100)

--offset OFFSET, -o OFFSET

specify the page offset (default: 0)

--name NAME, -n NAME

specify the secret name (default: None)

16.10. BARBICAN SECRET CONTAINER CREATE

```
usage: barbican secret container create [-h]
                                        [-f
{json,shell,table,value,yaml}]

                                        [-c COLUMN] [--max-width
<integer>]

                                        [--noindent] [--prefix
PREFIX]

                                        [--name NAME] [--type TYPE]
                                        [--secret SECRET]
```

Store a container in Barbican.

Optional arguments

-h, --help

show this help message and exit

--name NAME, -n NAME

a human-friendly name.

--type TYPE

type of container to create (default: generic).

--secret SECRET, -s SECRET

one secret to store in a container (can be set
multiple times). Example: --secret
"private_key=https://url.test/v1/secrets/1-2-3-4"

16.11. BARBICAN SECRET CONTAINER DELETE

```
usage: barbican secret container delete [-h] URI
```

Delete a container by providing its href.

Positional arguments

URI

The URI reference for the container

Optional arguments

-h, --help

show this help message and exit

16.12. BARBICAN SECRET CONTAINER GET

```
usage: barbican secret container get [-h] [-f
{json,shell,table,value,yaml}]
                                              [-c COLUMN] [--max-width
<integer>]
                                              [--noindent] [--prefix PREFIX]
                                              URI
```

Retrieve a container by providing its URI.

Positional arguments

URI

The URI reference for the container.

Optional arguments

-h, --help

show this help message and exit

16.13. BARBICAN SECRET CONTAINER LIST

```
usage: barbican secret container list [-h] [-f
{csv,json,table,value,yaml}]
                                      [-c COLUMN] [--max-width
<integer>]
                                      [--noindent]
                                      [--quote
{all,minimal,none,nonnumeric}]
                                      [--limit LIMIT] [--offset
OFFSET]
                                      [--name NAME] [--type TYPE]
```

List containers.

Optional arguments

-h, --help

show this help message and exit

--limit LIMIT, -l LIMIT

specify the limit to the number of items to list per
page (default: 10; maximum: 100)

--offset OFFSET, -o OFFSET

specify the page offset (default: 0)

--name NAME, -n NAME

specify the container name (default: None)

--type TYPE, -t TYPE

specify the type filter for the list (default: None).

16.14. BARBICAN SECRET DELETE

```
usage: barbican secret delete [-h] URI
```

Delete a secret by providing its URI.

Positional arguments

URI

The URI reference for the secret

Optional arguments

-h, --help

show this help message and exit

16.15. BARBICAN SECRET GET

```
usage: barbican secret get [-h] [-f {json,shell,table,value,yaml}] [-c
COLUMN]
                                  [--max-width <integer>] [--noindent]
                                  [--prefix PREFIX] [--decrypt] [--payload]
                                  [--payload_content_type
PAYLOAD_CONTENT_TYPE]
                                  URI
```

Retrieve a secret by providing its URI.

Positional arguments

URI

The URI reference for the secret.

Optional arguments

-h, --help

show this help message and exit

--decrypt, -d

if specified, retrieve the unencrypted secret data;
the data type can be specified with --payload-content-
type.

--payload, -p

if specified, retrieve the unencrypted secret data;
the data type can be specified with --payload-content-
type. If the user wishes to only retrieve the value of
the payload they must add "-f value" to format
returning only the value of the payload

--payload_content_type PAYLOAD_CONTENT_TYPE, -t PAYLOAD_CONTENT_TYPE

the content type of the decrypted secret (default:
text/plain.

16.16. BARBICAN SECRET LIST

```
usage: barbican secret list [-h] [-f {csv,json,table,value,yaml}] [-c
COLUMN]
                                   [--max-width <integer>] [--noindent]
                                   [--quote {all,minimal,none,nonnumeric}]
                                   [--limit LIMIT] [--offset OFFSET] [--name
NAME]
                                   [--algorithm ALGORITHM] [--bit-length
BIT_LENGTH]
                                   [--mode MODE]
```

List secrets.

Optional arguments

-h, --help

show this help message and exit

--limit LIMIT, -l LIMIT

specify the limit to the number of items to list per
page (default: 10; maximum: 100)

--offset OFFSET, -o OFFSET

specify the page offset (default: 0)

--name NAME, -n NAME

specify the secret name (default: None)

--algorithm ALGORITHM, -a ALGORITHM

the algorithm filter for the list(default: None).

--bit-length BIT_LENGTH, -b BIT_LENGTH

the bit length filter for the list (default: 0).

--mode MODE, -m MODE

the algorithm mode filter for the list (default:
None).

16.17. BARBICAN SECRET ORDER CREATE

```
usage: barbican secret order create [-h] [-f
{json,shell,table,value,yaml}]
                                    [-c COLUMN] [--max-width
<integer>]
                                    [--noindent] [--prefix PREFIX]
                                    [--name NAME] [--algorithm
ALGORITHM]
                                    [--bit-length BIT_LENGTH] [--mode
MODE]
                                    [--payload-content-type
PAYLOAD_CONTENT_TYPE]
                                    [--expiration EXPIRATION]
                                    [--request-type REQUEST_TYPE]
                                    [--subject-dn SUBJECT_DN]
                                    [--source-container-ref
SOURCE_CONTAINER_REF]
```

```
                                               [--ca-id CA_ID] [--profile
  PROFILE]

                                               [--request-file REQUEST_FILE]
                                               type
```

Create a new order.

Positional arguments

`type`

>   the type of the order to create.

Optional arguments

`-h, --help`

>   show this help message and exit

`--name NAME, -n NAME`

>   a human-friendly name.

`--algorithm ALGORITHM, -a ALGORITHM`

>   the algorithm to be used with the requested key
>   (default: aes).

`--bit-length BIT_LENGTH, -b BIT_LENGTH`

>   the bit length of the requested secret key (default:
>   256).

`--mode MODE, -m MODE`

>   the algorithm mode to be used with the requested key
>   (default: cbc).

`--payload-content-type PAYLOAD_CONTENT_TYPE, -t PAYLOAD_CONTENT_TYPE`

>   the type/format of the secret to be generated
>   (default: application/octet-stream).

--expiration EXPIRATION, -x EXPIRATION

the expiration time for the secret in ISO 8601 format.

--request-type REQUEST_TYPE

the type of the certificate request.

--subject-dn SUBJECT_DN

the subject of the certificate.

--source-container-ref SOURCE_CONTAINER_REF

the source of the certificate when using stored-key requests.

--ca-id CA_ID

the identifier of the CA to use for the certificate request.

--profile PROFILE

the profile of certificate to use.

--request-file REQUEST_FILE

the file containing the CSR.

16.18. BARBICAN SECRET ORDER DELETE

```
usage: barbican secret order delete [-h] URI
```

Delete an order by providing its href.

Positional arguments

URI

The URI reference for the order

Optional arguments

-h, --help

show this help message and exit

16.19. BARBICAN SECRET ORDER GET

```
usage: barbican secret order get [-h] [-f
{json,shell,table,value,yaml}]
                                    [-c COLUMN] [--max-width <integer>]
                                    [--noindent] [--prefix PREFIX]
                                    URI
```

Retrieve an order by providing its URI.

Positional arguments

URI

The URI reference order.

Optional arguments

-h, --help

show this help message and exit

16.20. BARBICAN SECRET ORDER LIST

```
usage: barbican secret order list [-h] [-f {csv,json,table,value,yaml}]
                                    [-c COLUMN] [--max-width <integer>]
                                    [--noindent]
                                    [--quote
{all,minimal,none,nonnumeric}]
                                    [--limit LIMIT] [--offset OFFSET]
```

List orders.

Optional arguments

-h, --help

show this help message and exit

--limit LIMIT, -l LIMIT

specify the limit to the number of items to list per
page (default: 10; maximum: 100)

--offset OFFSET, -o OFFSET

specify the page offset (default: 0)

16.21. BARBICAN SECRET STORE

```
usage: barbican secret store [-h] [-f {json,shell,table,value,yaml}]
                             [-c COLUMN] [--max-width <integer>] [--
noindent]
                             [--prefix PREFIX] [--name NAME]
                             [--payload PAYLOAD] [--secret-type
SECRET_TYPE]
                             [--payload-content-type
PAYLOAD_CONTENT_TYPE]
                             [--payload-content-encoding
PAYLOAD_CONTENT_ENCODING]
                             [--algorithm ALGORITHM] [--bit-length
BIT_LENGTH]
                             [--mode MODE] [--expiration EXPIRATION]
```

Store a secret in Barbican.

Optional arguments

-h, --help

show this help message and exit

--name NAME, -n NAME

a human-friendly name.

--payload PAYLOAD, -p PAYLOAD

the unencrypted secret; if provided, you must also
provide a payload_content_type

`--secret-type SECRET_TYPE, -s SECRET_TYPE`

>   the secret type; must be one of symmetric, public,
>   private, certificate, passphrase, opaque (default)

`--payload-content-type PAYLOAD_CONTENT_TYPE, -t PAYLOAD_CONTENT_TYPE`

>   the type/format of the provided secret data;
>   "text/plain" is assumed to be UTF-8; required when
>   --payload is supplied.

`--payload-content-encoding PAYLOAD_CONTENT_ENCODING, -e`
`PAYLOAD_CONTENT_ENCODING`

>   required if --payload-content-type is "application
>   /octet-stream".

`--algorithm ALGORITHM, -a ALGORITHM`

>   the algorithm (default: aes).

`--bit-length BIT_LENGTH, -b BIT_LENGTH`

>   the bit length (default: 256).

`--mode MODE, -m MODE`

>   the algorithm mode; used only for reference (default:
>   cbc)

`--expiration EXPIRATION, -x EXPIRATION`

>   the expiration time for the secret in ISO 8601 format.

16.22. BARBICAN SECRET UPDATE

```
usage: barbican secret update [-h] URI payload
```

Update a secret with no payload in Barbican.

Positional arguments

URI

> The URI reference for the secret.

payload

> the unencrypted secret

Optional arguments

-h, --help

> show this help message and exit

CHAPTER 17. BENCHMARK SERVICE COMMAND-LINE CLIENT (TECHNOLOGY PREVIEW)

Note

The OpenStack Benchmark service is available in this release as a *Technology Preview*, and therefore is not fully supported by Red Hat. It should only be used for testing, and should not be deployed in a production environment. For more information about Technology Preview features, see Scope of Coverage Details.

The **rally** client is the command-line interface (CLI) for the Benchmark service API and its extensions. This chapter documents **rally** version **0.7.0**.

For help on a specific **rally** command, enter:

```
$ rally help COMMAND
```

17.1. RALLY USAGE

```
usage: rally [-h] [--config-dir DIR] [--config-file PATH] [--debug]
             [--log-config-append PATH] [--log-date-format
DATE_FORMAT]
             [--log-dir LOG_DIR] [--log-file PATH] [--nodebug]
             [--norally-debug] [--nouse-syslog] [--noverbose]
             [--nowatch-log-file] [--plugin-paths PLUGIN_PATHS]
             [--rally-debug] [--syslog-log-facility
SYSLOG_LOG_FACILITY]
             [--use-syslog] [--verbose] [--version] [--watch-log-file]
             {version,bash-
completion,show,task,plugin,verify,deployment} ...
```

17.2. RALLY OPTIONAL ARGUMENTS

-h, --help

> show this help message and exit

--config-dir DIR

> Path to a config directory to pull *.conf files from.
> This file set is sorted, so as to provide a
> predictable parse order if individual options are
> over-ridden. The set is parsed after the file(s)
> specified via previous --config-file, arguments hence
> over-ridden options in the directory take precedence.

`--config-file PATH`

Path to a config file to use. Multiple config files can be specified, with values in later files taking precedence. Defaults to None.

`--debug, -d`

If set to true, the logging level will be set to DEBUG instead of the default INFO level.

`--log-config-append PATH, --log_config PATH`

The name of a logging configuration file. This file is appended to any existing logging configuration files. For details about logging configuration files, see the Python logging module documentation. Note that when logging configuration files are used then all logging configuration is set in the configuration file and other logging configuration options are ignored (for example, logging_context_format_string).

`--log-date-format DATE_FORMAT`

Defines the format string for %(asctime)s in log records. Default: None . This option is ignored if log_config_append is set.

`--log-dir LOG_DIR, --logdir LOG_DIR`

(Optional) The base directory used for relative log_file paths. This option is ignored if log_config_append is set.

`--log-file PATH, --logfile PATH`

(Optional) Name of log file to send logging output to. If no default is set, logging will go to stderr as defined by use_stderr. This option is ignored if log_config_append is set.

`--nodebug`

The inverse of --debug

--norally-debug

> The inverse of --rally-debug

--nouse-syslog

> The inverse of --use-syslog

--noverbose

> The inverse of --verbose

--nowatch-log-file

> The inverse of --watch-log-file

--plugin-paths PLUGIN_PATHS

> Additional custom plugin locations. Multiple files or directories may be specified. All plugins in the specified directories and subdirectories will be imported. Plugins in /opt/rally/plugins and ~/.rally/plugins will always be imported.

--rally-debug

> Print debugging output only for Rally. Off-site components stay quiet.

--syslog-log-facility SYSLOG_LOG_FACILITY

> Syslog facility to receive log lines. This option is ignored if log_config_append is set.

--use-syslog

> Use syslog for logging. Existing syslog format is *DEPRECATED* and will be changed later to honor RFC5424. This option is ignored if log_config_append is set.

--verbose, -v

If set to false, the logging level will be set to
WARNING instead of the default INFO level.

`--version`

show program's version number and exit

`--watch-log-file`

Uses logging handler designed to watch file system.
When log file is moved or removed this handler will
open a new log file with specified path
instantaneously. It makes sense only if log_file
option is specified and Linux platform is used. This
option is ignored if log_config_append is set.

REVISION HISTORY

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