

Common**show help for command**

```
nova help [command]
neutron help [command]
etc.
```

Instances**list instances**

```
nova list
```

show instance details

```
nova show [instanceID]
```

create instance

```
nova boot image [imageID] flavor [flavorID]
```

create instance snapshot

```
nova imagecreate [instanceID] [snapshotID]
```

delete instance

```
nova delete [instanceID]
```

control an instance

```
nova pause [instanceID] nova unpause [instanceID] nova
suspend [instanceID]
```

```
nova resume [instanceID]
```

```
nova start [instanceID]
```

```
nova stop [instanceID]
```

```
nova rescue [instanceID]
```

```
nova resize [instanceID] [flavorID]
```

```
nova resizeconfirm [instanceID]
```

```
nova reboot [instanceID]
```

```
nova resetstate [instanceID]
```

Security-Groups**list security groups**

```
neutron securitygroup-list
```

show security group details

```
neutron securitygroupshow [securitygroupID]
```

create a security group

```
neutron securitygroupcreate [securitygroupname]
```

create a security group rule

```
neutron securitygrouprulecreate [SecuritygroupID]
```

delete a security group

```
neutron securitygroupdelete [securitygroupID]
```

delete a security group rule

```
neutron securitygroupruledelete [securitygroupruleID]
```

update a security group

```
neutron securitygroupupdate [securitygroupID]
```

Network**list networks and subnets**

```
neutron netlist neutron subnetlist
```

show network and subnet details

```
neutron netshow [networkID]
```

```
neutron subnetshow [subnetID]
```

create a network

```
neutron netcreate [networkname]
```

```
neutron subnetcreate [subnetname][CIDR]
```

delete a network

```
neutron netdelete [networkID]
```

```
neutron subnetdelete [subnetID]
```

update information of network

```
neutron netupdate [subnetID]
```

Router**list routers**

```
neutron routerlist
```

show router details

```
neutron routershow [subnetID]
```

create a neutron router

```
neutron routercreate [routername]
```

delete a neutron router

```
neutron routerdelete [routerID]
```

update router's information

```
neutron routerupdate [routerID]
```

User**list all user**

```
keystone userlist
```

show user details

```
keystone userget [username]
```

create new user

```
keystone usercreate [name[username]][tenant
id[tenantID]][pass[pass]] [email[email]][
enabled[boolean]]
```

delete use

```
keystone userdelete [username]
```

update user's information

```
keystone userupdate [name[username]] [-email[email]][
enabled[boolean]][user]
```

Tenants**list all tenants**

```
keystone tenantlist
```

show tenant details

```
keystone tenantget [tenantID]
```

create new tenant

```
keystone tenantcreate [name[tenantname]][description
[tenantdescription]][enabled [boolean]]
```

delete a tenant

```
keystone tenantdelete [tenantID]
```

update tenant's information

```
keystone tenantupdate [name [tenantname]][description
[tenantdescription]][enabled [boolean]] [tenant]
```

Images**list glance images**

```
glance imagelist
```

show image details

```
glance imageshow [imageID]
```

create glance image**delete an image**

```
glance imagedelete [imageID]
```

update an image

```
glance imageupdate [imageID]
```

download an image

```
glance imagedownload [imageID]
```

Volumes**list all volumes**

```
nova volumelist
```

show volume details

```
nova volumeshow [volumeID]
```

create a new volume

```
nova volumecreate [size_inGB]
```

delete a volume

```
nova volumedelete [volumeID]
```

attach a volume to an instance

```
nova volumeattach [instanceID][volumeID][device]
```

detach a volume from an instance

```
nova volumedetach [instanceID][attachmentID]
```

update volume attachment

```
nova volumeupdate [instanceID][attachmentID][volumeID]
```

list all snapshots

```
nova volumesnapshotlist
```

show details about a snapshot

```
nova volumesnapshotshow [snapshotID]
```

add a new volume

```
nova volumesnapshotcreate [volumeID]
```

delete a snapshot

```
nova volumesnapshotdelete [snapshotID]
```

Flavors**list flavors**

```
nova flavorlist
```

show flavor details

```
nova flavorshow [flavorID]
```

FloatingIP**list floatingIP for this tenant**

```
nova floatingiplist
```

list all floatingIP pools

```
nova floatingippoollist
```

allocating a new floatingIP

```
nova floatingipcreate [floatingIPpool]
```

deallocate a floatingIP

```
nova floatingipdelete [IP]
```

associate a floating IP with an instance

```
nova floatingipassociate [instanceID][[IP]
```

disassociate a floatingIP from an instance

```
nova floatingipdisassociate [instanceID][IP]
```