

## COMMON

**show help for command**  
nova help [command]  
neutron help [command]  
etc.

## INSTANCE

**list instances**  
nova list

**show instance details**  
nova show [instanceID]

**create instance**  
nova boot --image [imageID] --flavor [flavorID]

**create instance snapshot**  
nova image-create [instance-ID] [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 resize-confirm [instanceID]  
nova reboot [instanceID]  
nova reset-state [instanceID]

## SECURITY-GROUP

**list security groups**  
neutron security-group-list

**show security group details**  
neutron security-group-show [securitygroupID]

**create a security group**  
neutron security-group-create [securitygroupname]

**create a security group rule**  
neutron security-group-rule-create [SecuritygroupID]

**delete a security group**  
neutron security-group-delete [securitygroupID]

**delete a security group rule**  
neutron security-group-rule-delete [securitygroup-ruleID]

**update a security group**  
neutron security-group-update [securitygroupID]

## NETWORK

**list networks and subnets**  
neutron net-list  
neutron subnet-list

**show network and subnet details**  
neutron net-show [networkID]  
neutron subnet-show [subnetID]

**create a network**  
neutron net-create [network-name]  
neutron subnet-create [subnet-name][CIDR]

**delete a network**  
neutron net-delete [networkID]  
neutron subnet-delete[subnetID]

**update information of network**  
neutron net-update [subnetID]

## ROUTER

**list routers**  
neutron router-list

**show router details**  
neutron router-show [subnetID]

**create a neutron router**  
neutron router-create [router-name]

**delete a neutron router**  
neutron router-delete [routerID]

**update router's information**  
neutron router-update [routerID]

## USER

**list all user**  
keystone user-list

**show user details**  
keystone user-get [username]

**create new user**  
keystone user-create [--name[username]][--tenant-id[tenantID]][--pass[pass]] [--email[email]][--enabled[boolean]]

**delete use**  
keystone user-delete [username]

**update user's information**  
keystone user-update[--name[username]] [--email[email]][--enabled[boolean]][user]

## TENANT

**list all tenants**  
keystone tenant-list

**show tenant details**  
keystone tenant-get [tenantID]

**create new tenant**  
keystone tenant-create [--name[tenant-name]][--description [tenant-description]][--enabled [boolean]]

**delete a tenant**  
keystone tenant-delete [tenantID]

**update tenant's information**  
keystone tenant-update [--name [tenantname]][--description [tenant-description]][--enabled [boolean]] [tenant]

## IMAGE

**list glance images**  
glance image-list

**show image details**  
glance image-show [imageID]

**create glance image**  
glance image-create [--name [image-name]][--is-public [boolean]][--container-format [[container-format]][--disk-format [disk-format]][--copy-from [URI]]

**delete an image**  
glance image-delete [imageID]

**update an image**  
glance image-update [imageID]

**download an image**  
glance image-download [imageID]

## VOLUME

**list all volumes**  
nova volume-list

**show volume details**  
nova volume-show [volumeID]

**create a new volume**  
nova volume-create [size\_inGB]

**delete a volume**  
nova volume-delete [volumeID]

**attach a volume to an instance**  
nova volume-attach [instanceID][volumeID][device]

**detach a volume from an instance**  
nova volume-detach [instanceID][attachmentID]

**update volume attachment**  
nova volume-update [instanceID][attachmentID][volumeID]

**list all snapshots**  
nova volume-snapshot-list

**show details about a snapshot**  
nova volume-snapshot-show [snapshotID]

**add a new volume**  
nova volume-snapshot-create [volumeID]

**delete a snapshot**  
nova volume-snapshot-delete [snapshotID]

## FLAVOR

**list flavors**  
nova flavor-list

**show flavor details**  
nova flavor-show [flavorID]

## FLOATING-IP

**list floatingIP for this tenant**  
nova floating-ip-list

**list all floatingIP pools**  
nova floating-ip-pool-list

**allocating a new floatingIP**  
nova floating-ip-create [floatingIP-pool]

**deallocate a floatingIP**  
nova floating-ip-delete [IP]

**associate a floating IP with an instance**  
nova floating-ip-associate [instanceID][IP]

**disassociate a floatingIP from an instance**  
nova floating-ip-disassociate [instanceID][IP]

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