# OpenStack Cheat-Sheet

## 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 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 stop [instanceID]
  - nova rescue [instanceID]
  - nova resize [instanceID] [flavorID]
  - nova resume-confirm [instanceID]
  - nova reboot [instanceID]
  - nova reset-state [instanceID]

## Security-Groups

- 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]][--description [tenant-description]] [--enabled [boolean]]
- delete use  
  - keystone user-delete [username]
- update user's information  
  - keystone user-update [--name [username]] [--email [email]] [--enabled [boolean]] [user]

## Tenants

- 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]

## Images

- 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]

## Volumes

- 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-attachment [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]

## Flavors

- list flavors  
  - nova flavor-list
- show flavor details  
  - nova flavor-show [flavorID]
- 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]

## FloatingIP

- 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-allocate [floatingIP-pool]
- deallocate a floatingIP  
  - nova floating-ip-deallocate [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]

## Glance Images

- 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]