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 start [instanceID]
nova stop [instanceID]
nova rescue [instanceID]
nova resize [instanceID][flavorID]
nova resize-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]][--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]
```

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 [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]
```

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-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]
```