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Openstack CLI Command

Identity (Keystone)

```
#
$ keystone user-list

# ID
$ keystone catalog

# keystone endpoint
$ keystone discover

#
$ keystone service-list

#
$ keystone user-create --name --tenant-id --pass --email --enabled

#
$ keystone tenant-create --name --description --enabled
```

Images (glance)

```
# 가
$ glance image-list

#
$ glance image-delete <image>

#
$ glance image-show <image>

#
$ glance image-update <image>

#
$ glance image-create --name "cirros-threepart-kernel" --disk-format aki --
container-format aki --is-public False --file ~/images/cirros-0.3.1~pre4-
x86_64-vmlinuz

# RAM
$ glance image-create --name "cirros-threepart-ramdisk" --disk-format ari --
container-format ari --is-public False --file ~/images/cirros-0.3.1~pre4-
x86_64-initrd

# three-part
```

```
$ glance image-create --name "cirros-threepart" --disk-format ami --
container-format ami --is-public False --property kernel_id=$KID-property
ramdisk_id=$RID --file ~/images/cirros-0.3.1~pre4-x86_64-blank.img

# RAW
$ glance image-create --name "cirros-qcow2" --disk-format qcow2 --container-
format bare --is-public False --file ~/images/cirros-0.3.1~pre4-x86_64-
disk.img
```

Compute (Nova)

```
#
$ nova list

#
$ nova image-list

# flavor
$ nova flavor-list

# flavor
$ nova boot --image <image> --flavor <flavor_instance_name>
$ nova boot --image cirros-0.3.1-x86_64-uec --flavor m1.tiny MyFirstInstance

#
$ ip netns
$ ip netns exec ssh <user@server or use a key>
$ ip netns exec qdhcp-6021a3b4-8587-4f9c-8064-0103885dfba2 ssh
cirros@10.0.0.2

#
$ nova show <name>
$ nova show <id>

#
$ nova console-log <name>

#
$ nova meta <image_name> set newmeta='my meta data'

#
$ nova image-create volumeTwoImage snapshotOfVolumeImage
$ nova image-show snapshotOfVolumeImage

#          (pause)
$ nova pause <name>
$ nova pause volumeTwoImage

#
$ nova unpause <name>
```

```
# (Suspend)
$ nova suspend <name>

# (Stop)
$ nova stop <name>

# (Start)
$ nova start <name>

# (Rescue)
$ nova rescue <name>
$ nova rescue <name --rescue_image_ref <rescue_image>

# (Resize)
$ nova resize <name> <flavor>
$ nova resize my-pem-server m1.small
$ nova resize-confirm my-pem-server1

# (Rebuild)
$ nova rebuild <name> <image>
$ nova rebuild newtinny cirros-qcow2

# (Reboot)
$ nova reboot <name>
$ nova reboot newtinny

#
$ nova boot --user-data <file> <instance>
$ nova boot --user-data userdata.txt --image cirros-qcow2 --flavor m1.tiny
MyUserDataInstance2

#
$ nova keypair-add test > test.pem
$ chmod 600 test.pem

# (Boot)
$ nova boot --image cirros-0.3.0-x86_64 --flavor m1.small --key_name test
MyFirstServer

# SSH
$ ip netns exec qdhcp-98f09f1e-64c4-4301-a897-5067ee6d544f ssh -i test.pem
cirros@10.0.0.4

#
$ nova secgroup-add-group-rule default default icmp -1 -1
$ nova secgroup-add-group-rule default default tcp 22 22
```

Networking (Neutron)

```
#
$ neutron net-create <name>

#
$ neutron subnet-create NETWORK_NAME CIDR
$ neutron subnet-create my-network 10.0.0.0/29

#
$ neutron net-list
$ neutron subnet-list
```

Block Storage (Cinder)

```
#
$ cinder create <size_in_GB> --display-name <NAME>
$ cinder create 10 --display-name MyFirstVolume

#
$ nova boot --image cirros-qcow2 --flavor m1.tiny MyVolumeInstance

#
$ cinder list

#
$ nova volume-attach <INSTANCE_ID> <VOLUME_ID> auto
$ nova volume-attach MyVolumeInstance /dev/vdb auto
```

Object Storage (Swift)

```
#
$ swift stat
$ swift stat <ACCOUNT>
$ swift stat <CONTAINER>
$ swift stat <OBJECT>

#
$ swift list

#
$ swift post mycontainer

#
$ swift upload <container_name> <file_name>
$ swift upload mycontainer myfile.txt

#
$ swift list container

#
```

```
$ swift download <container_name> <object_name>
```

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