

Version: 2.0

Last modified: 6 Oct 2013

1. Nova

1.1 Management

Services status:

\$ sudo nova-manage service list

Enable/disable a service:

Add a new network:

```
$ sudo nova-manage network create --label vlan1
     --fixed_range_v4 10.0.1.0/24 --num_networks 1
     --network size 256 --vlan 1
```

Remove a network, first disassociate it to a project:

```
$ sudo nova-manage project scrub projectname
$ sudo nova-manage network delete [cidr]
```

List networks:

\$ sudo nova-manage network list

Add a floating IPs address range:

```
$ sudo nova-manage floating create --pool [my-pool]
    --ip range 172.17.1.32/27
```

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Add a floating to your tenant (you will get a floating IP address, but unused):

\$ nova floating-ip-create [my-pool]

Associate IP to an instance (specific tenant, according to your credentials)

\$ nova add-floating-ip [my-instance] [ip]

Check the status of the floating IPs (tenant related):

\$ nova floating-ip-list

List all instances running on every compute node:

\$ sudo nova-manage vm list | column -t

1.2 Common

Add a new security group:

\$ nova secgroup-create web-server "Web server running"

Add rule to this group:

\$ nova secgroup-add-rule web-server tcp 80 80 0.0.0.0/0

Add a security rules, allow ping and ssh:

- \$ nova secgroup-add-rule web-server icmp -1 -1 0.0.0.0/0
- \$ nova secgroup-add-rule web-server tcp 22 22 0.0.0.0/0



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Create credential:

```
$ nova keypair-add my_key > mey_key.pem
$ chmod 600 *.pem
```

List instances from the tenant in your credential:

\$ nova list

Boot a new instance:

Delete an instance:

\$ nova delete [INSTANCE_ID]

Take a snapshot from an instance but first commit the buffer cache to disk:

```
my-instance:~$ sync
my-instance:~$ sudo echo 3 | sudo tee /proc/sys/vm/drop_caches
$ nova image-create [instance-id] [snapshot-name]
```

Get precise information about a specific instance:

\$ nova show [instance-name]

Perform a block_migration:

```
$ nova live-migration --block migrate [INSTANCE ID] [TARGET SERVER]
```

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2. Glance

Add an image to glance (public):

Check the glance backend:

\$ glance index

Same with nova-common:

\$ nova image-list

Set an image to public:

\$ glance update [image-id] is_public=true

3. Keystone

List all the tenants:

\$ keystone tenant-list

List all users:

\$ keystone user-list

Create a new user:

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4. Cinder

Create new volume:

\$ cinder create --display-name myvol 1

List cinder volume:

\$ cinder list

List cinder volume using nova-management:

\$ nova volume-list

Attach volume to instance:

\$ nova volume-attach [instance-id] [vol-name] /dev/vdc

5. Neutron

List floating ip:

\$ neutron floatingip-list

Create router:

\$ neutron router-list

List all router:

\$ neutron router-list

List all subnet:

\$ neutron subnet-list



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Load Balance as a Service:

6. Heat

Create a new stack:

```
$ heat stack-create [stack name] -f [template-file]
-P "InstanceType=m1.medium; KeyName=silent; LinuxDistribution=F17"
```

List all resources from your stack:

\$ heat resource-list [stack name]

7. Ceilometer

List all alarm:

\$ ceilometer alarm list