Get started

0) Install RHEL, CentOS, Scientific Linux or Fedora

1) sudo vum install -v http://rdo.fedorapeople.org/rdo-release.rpm

sudo yum install -y openstack-packstack

sudo packstack –allinone

And you're done! Useful URLs

Try RDO online:

RDO: openstack.redhat.com RDO blog: openstack.redhat.com/blog

Twitter: @rdocommunity OpenStack www.openstack.org Ask OpenStack:

ask.openstack.org Red Hat OpenStack: redhat.com/openstack

trystack.org

Project codenames

Ceilometer

Codename

Nova Glance Image storage

Swift Object storage Cinder Block storage Kevstone

Horizon Dashboard Neutron

Heat Service orchestration

Service

Compute services

Identity service

Network service

Data collection and Metering

Command line cheat sheet

Managing images List available images: glance-image-list

glance details Uploading a new image:

glance image-create --name <name> \ --is-public True --disk-format gcow2 \ --container-format ovf \

--file <qcow2 image file> --property os_distro=[fedora|ubuntu|...]

Creating a new QCOW2 image: gemu-img create -f gcow2 <image> <size> Installing an image from an ISO:

qemu -m 1024 -hda <image> -cdrom <iso> \ -kernel-kgemu -boot d -net nic -net user



Command line cheat sheet (cont.)

Managing SSH keys

Creating a new key pair:

nova keypair-add mykey > mykey.pem

Uploading a pre-existing key:

nova keypair-add --pub-key mykey.pub mykey

List available SSH keys: nova kevpair-list

Managing users and tenants

List tenants/users/roles:

keystone tenant-list / user-list / role-list

Add new user:

keystone user-create --name <user> \
 --tenant-id <tenant ID> --pass <passwd>

Grant role to user:

keystone user-role-add --user-id <user ID \
--role-id <role ID> --tenant-id <tenant ID>

Managing instances

Show available services:

nova-manage service list Show running instances:

nova list

Start a new instance:

nova boot <instance name> \
--flavor <flavor type> \
--image <image name/ID> \
--key-name <ssh key>

List flavours:

nova flavor-list

Migrate an instance to a different host:

nova live-migration <instance id> <dest>

Reboot instance:

nova reboot <instance name/ID>

Destroy instance:

nova delete <instance name/ID>

Managing volumes

Create bootable volume from an image:

cinder create --image-id <image ID> \
 --display-name <volume name> <size in GB>
Create a snapshot:

cinder snapshot-create <volume ID>

List available volumes: nova volume-list / cinder list

Booting an instance from a volume:

nova boot <instance name>
 --flavor <flavor_type> --key-name <ssh key> \

--block_device_mapping \
 <dev_name>=<volume ID>:[snap]::0 <name>

Creating a new volume:

cinder create --display-name <name> <size in GB>
Attach a volume to an instance:

nova volume-attach <instance ID> <volume ID> <dev_name>