RDO

Community OpenStack Packaging

Get started

Install CentOS, Fedora, or Red Hat Enterprise Linux first, then

```
$ sudo yum install -y
  http://rdo.fedorapeople.org/rdo-release.rpm
$ sudo yum install -y openstack-packstack
$ sudo packstack --allinone
```

And you're done!

Useful Links

RDO

- rdoproject.org
- @rdocommunity
- rdoproject.org/blog
- trystack.org

OpenStack

- www.openstack.org
- docs.openstack.org
- www.openstack.org
- ask.openstack.org
- planet.openstack.org

Icons: Font Awesome by Dave Gandy – fontawesome.io

Managing images

List available images:

```
$ openstack image list
```

Uploading a new image:

```
$ openstack image create <name> \
  --public --disk-format qcow2 \
  --container-format ovf \
  --file <qcow2 image file> \
  --property os_distro=[fedora|
ubuntu|...]
```

Creating a new QCOW2 image:

```
$ qemu-img create -f qcow2 <image>
<size>
```

Installing an image from an ISO:

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

Managing SSH keys

Creating a new key pair:

```
$ openstack keypair create mykey > mykey.pem
```

Uploading a pre-existing key:

```
$ openstack keypair create \
  -public-key mykey.pub mykey
```

List available SSH keys:

```
$ openstack keypair list
```

Managing users and projects

List projects/users/roles:

```
$ openstack {project,user,role} list
```

Add new user:

```
$ openstack user create <user-name> \
  --project <project> --password <user-password>
```

Grant role to user:

```
openstack role add --user <user> \
--project <project> <role>
```

Managing instances

Show running instances:

```
$ openstack server list
```

Start a new instance:

```
$ openstack server create <server-name> \
  --flavor <flavor> \
  --image <image> \
  --key-name <key-name>
```

List flavors:

```
$ openstack flavor list
```

Migrate an instance to a different host:

```
$ openstack server migrate <server-name> \
  --live <target>
```

Reboot instance:

```
$ openstack server reboot <server-name>
```

Destroy instance:

```
$ openstack server delete <server-name>
```

Managing volumes

Create bootable volume from an image:

```
$ openstack volume create <volume-name> \
  --image <image> --size <size in GB>
```

Create a snapshot:

```
$ openstack snapshot create <volume> \
  --name <snaphost-name>
```

List available volumes:

```
$ openstack volume list
```

Booting an instance from a volume:

```
$ openstack server create <server-name> \
  --flavor <flavor> --key-name <key-name> \
  --image <image> \
  --block-device-mapping \
    <device-name>=<volume ID>
```

Creating a new volume:

```
$ openstack volume create <name> \
  --size <size in GB>
```

Attach a volume to an instance:

```
$ openstack server add volume \
  <server-name> <volume-name> \
  <volume ID> <device-name>
```

Managing networks

Create network:

```
$ openstack network create \
  [--prefix PREFIX] [--enable | --disable]
  [--share | --no-share] <network-name>
```

Delete network:

```
$ openstack network delete <network>
```

List networks:

```
$ openstack network list
```

Show network:

```
$ openstack network show <network>
```

Got Questions?

Join us on #rdo, on the Freenode IRC network!

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