OpenStack and VM setup - Dell Server

Here Packstack installation on CentOS is shown as an example of installation

1. Download packstack/openstack on the server OS using wget commands

```
yum install -y https://www.rdoproject.org/repos/rdo-release.rpm
[root@localhost ~]# yum install -y https://www.rdoproject.org/repos/rdo-release.
Loaded plugins: fastestmirror
                                            6.4 kB
rdo-release.rpm
                                                      00:00
Examining /var/tmp/yum-root-dunjke/rdo-release.rpm: rdo-release-stein-3.noarch
Marking /var/tmp/yum-root-dunjke/rdo-release.rpm to be installed
Resolving Dependencies
--> Running transaction check
---> Package rdo-release.noarch 0:stein-3 will be installed
--> Finished Dependency Resolution
Dependencies Resolved
___________
Package Arch Version Repository
Installing:
rdo-release noarch stein-3 /rdo-release 3.1 k
Transaction Summary
Install 1 Package
Total size: 3.1 k
Installed size: 3.1 k
Downloading packages:
```

2. Update all the packages and repositories on the Server OS

```
yum update -y
```

```
[root@localhost ~]# yum update -y
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
* base: mirrors.tummy.com
* extras: mirrors.tummy.com
* openstack-stein: mirrors.tummy.com
* rdo-qemu-ev: mirrors.tummy.com
* updates: mirrors.tummy.com
openstack-stein
                                                          2.9 kB
                                                                      00:00
rdo-gemu-ev
                                                           2.9 kB
                                                                      00:00
(1/2): rdo-qemu-ev/x86_64/primary_db
                                                             73 kB
                                                                      00:00
(2/2): openstack-stein/x86_64/primary_db
                                                            1.0 MB
                                                                      00:00
Resolving Dependencies
--> Running transaction check
---> Package NetworkManager.x86_64 1:1.18.0-5.el7 will be updated
---> Package NetworkManager.x86 64 1:1.18.0-5.el7 7.1 will be an update
---> Package NetworkManager-libnm.x86_64 1:1.18.0-5.el7 will be updated
---> Package NetworkManager-libnm.x86_64 1:1.18.0-5.el7_7.1 will be an update
---> Package NetworkManager-team.x86_64 1:1.18.0-5.el7 will be updated
```

3. Install openstack/packstack from the downloaded file

```
vum install -v openstack-packstack
```

```
Complete!
[root@localhost ~]# yum install -y openstack-packstack
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
* base: mirrors.tummy.com
* extras: mirrors.tummy.com
* openstack-stein: mirrors.syringanetworks.net
* rdo-qemu-ev: mirror.fileplanet.com
* updates: mirrors.tummy.com
Resolving Dependencies
--> Running transaction check
---> Package openstack-packstack.noarch 1:14.0.0-1.el7 will be installed
--> Processing Dependency: openstack-packstack-puppet = 1:14.0.0-1.el7 for package: 1:openstack-packstack-14.0.0-1.el7.noarch
--> Processing Dependency: python2-pyOpenSSL >= 16.2.0 for package: 1:openstack-
packstack-14.0.0-1.el7.noarch
--> Processing Dependency: python2-setuptools for package: 1:openstack-packstack
-14.0.0-1.el7.noarch
--> Processing Dependency: python2-pbr for package: 1:openstack-packstack-14.0.0
-1.el7.noarch
--> Processing Dependency: python2-netaddr for package: 1:openstack-packstack-14
.0.0-1.el7.noarch
--> Processing Dependency: python-netifaces for package: 1:openstack-packstack-1
4.0.0-1.el7.noarch
```

4. Run and install everything related to packstack using all-in-one command:

```
packstack -allinone
```

```
[root@localhost ~]# packstack --allinone
Welcome to the Packstack setup utility
The installation log file is available at: /var/tmp/packstack/20200204-002411-19
CN3i/openstack-setup.log
Packstack changed given value to required value /root/.ssh/id_rsa.pub
Installing:
Clean Up
Discovering ip protocol version
Setting up ssh keys
```

5. Final setup output will look like this:

* A new answerfile was created in: /root/packstack-answers-20200204-002413.txt

* Time synchronization installation was skipped. Please note that unsynchronized time on server instances might be problem for some OpenStack components.

* Warning: Network/Manager is active on 10.0.2.15. OpenStack networking currently does not work on systems that have the Network Manager service enabled.

* File /root/keyStonerc_admin has been created on OpenStack client host 10.0.2.15. To use the command line tools you need to source the file.

* To access the OpenStack Dashboard browse to http://10.0.2.15/dashboard .

lease, find your login credentials stored in the keystonerc_admin in your home directory.

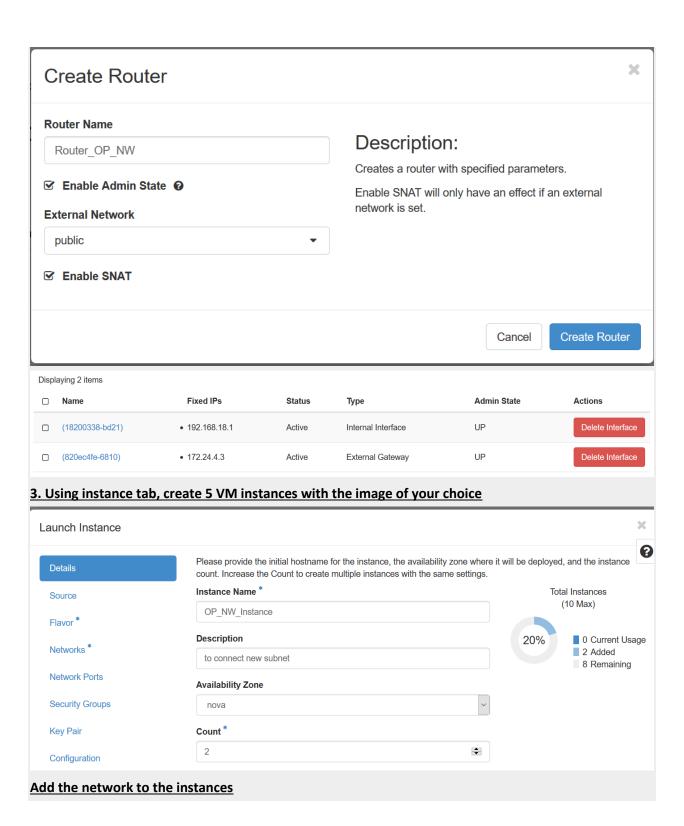
root@localhost ~]# |

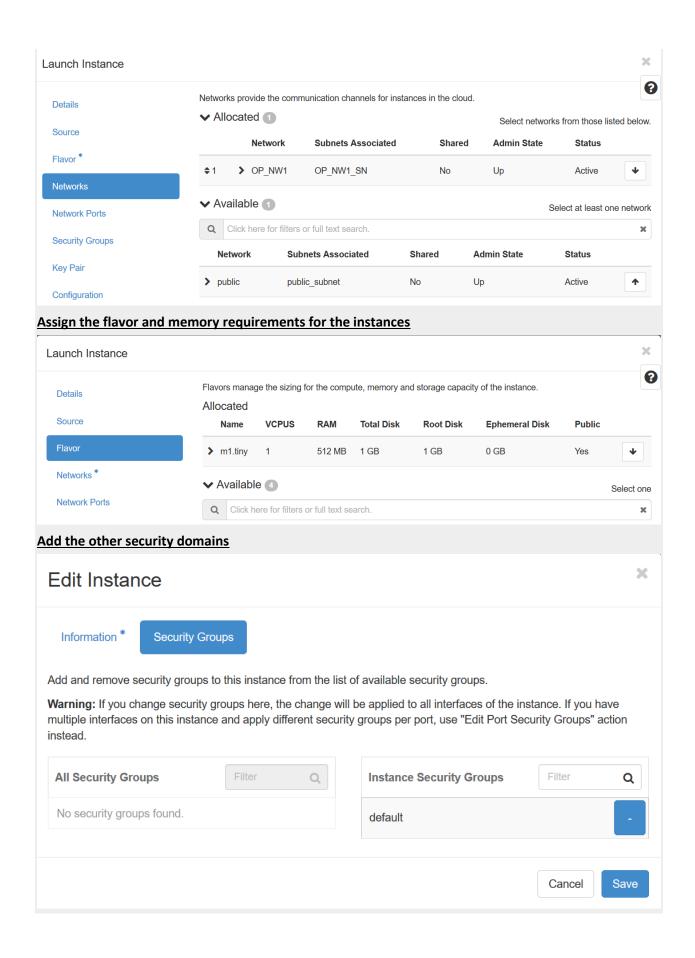
VM Installation on OpenStack

1. Create Network instances for VM connectivity using OpenStack dashboard:

Name OP NW1 SN ID 9c0899bc-bd11-4a1d-8224-64a047d644bb **Project ID** 0a364f8faedd44afa51f2c52d7a10663 Network Name OP NW1 Network ID d71a9a93-5913-4206-81c0-4d8f6d236f0f Subnet Pool None IP Version IPv4 CIDR 192.168.18.0/26 **IP Allocation Pools** Start 192.168.18.2 - End 192.168.18.32 Gateway IP 192.168.18.1 **DHCP Enabled** Yes Additional Routes None DNS Name Servers 8.8.8.8

2. Create a router instance and connect the created networks to the router interface for intra-domain and internet connectivity





Displaying 2 items												
	Instance Name	lmage Name	IP Address	Flavor	Key Pair	Status		Availability Zone	Task	Power State	Age	Actions
	TestVM-2	cirros	192.168.18.28	m1.tiny	manesh	Active		nova	None	Running	1 minute	Create Snapshot ▼
	TestVM-1	cirros	192.168.18.29	m1.tiny	manesh	Active		nova	None	Running	1 minute	Create Snapshot ▼
Displa	aying 2 items											