

A Simple Guideline to your OpenStack Installation

1. #setting up the hostname and files

hostname

vi /etc/hostname

```
openstack-controller.bdren.net.bd
```

vi /etc/hosts

```
103.28.121.6  openstack-controller.bdren.net.bd  openstack-controller
103.28.121.8  openstack- compute.bdren.net.bd  openstack-compute
103.28.121.15 openstack-network.bdren.net.bd  openstack- network
```

2. #Check Hostname

hostname -f

3. #Updating the whole System

yum update -y

4. #make sure your /etc/environment is populated

vi /etc/environment

```
LANG=en_US.utf-8
LC_ALL=en_US.utf-8
```

5. # SHOW REPOLIST

yum repolist

6. #Install utils for openstack-selinux

yum -y install openstack-utils openstack-selinux

7. #Status of firewall

systemctl status firewalld

8. #disable and stop firewall

systemctl stop firewalld

systemctl disable firewalld

9. #Install iptables-services

```
yum install iptables-services.x86_64 -y
```

10. #Start iptables-services

```
systemctl enable iptables
```

```
systemctl start iptables
```

11. >>>>>> #NTP Config for Controller Node as NTP Server

```
vi /etc/ntp.conf
```

```
#first disable/comment-out the 3 "restrict" lines
```

```
restrict -4 default kod notrap nomodify
```

```
restrict -6 default kod notrap nomodify
```

12. Start and enable ntpd

```
systemctl enable ntpd
```

```
systemctl start ntpd
```

```
systemctl status ntpd
```

13. #Configure IPTABLES to accept ntp server.

```
vi /etc/sysconfig/iptables
```

```
-A INPUT -p udp -m udp --dport 123 -j ACCEPT #put in the input section
```

```
systemctl restart iptables
```

```
iptables -L #to check that it's accepting the ntp
```

14. >>>>>> #NTP Config for Other 2 Node as NTP Client

```
vi /etc/ntp.conf
```

```
#first disable/comment-out the 4 "server" lines
```

```
server openstack-controller.bdren.net.bd iburst
```

```
systemctl enable ntpd
```

```
systemctl restart ntpd
```

```
systemctl status ntpd
```

```
ntpq -p #check what ntp server it listens to
```


20. #Genrate the answer file

```
packstack --gen-answer-file ~/answer.txt
```

```
ls -ltr #list files to check answer file
```

21. #Edit answer file

```
vi answer.txt
```

```
#changes in files :/ means search for the part of the file and then edit it
```

```
:/HEAT=y
```

```
:/CONFIG_COMPUTE_HOSTS=COMPUTE_NODE_IP #put other nodes as well
```

```
:/COMPUTE_MARIADB=bdren@OpenStack
```

```
:/ADMIN_USERNAME=
```

```
:/ADMIN_PW=
```

```
:/CONFIG_CINDER_VOLUMES_CREATE=n
```

```
:/LBAAS=y
```

```
:/FWAAS=y
```

```
:/ML2_TYPE_DRIVERS=vlan
```

```
:/ML2_TENANT_NETWORK_TYPES=vlan
```

```
:/CONFIG_NEUTRON_ML2_VLAN_RANGES=physnet1:1:1000
```

```
:/OVS_BRIDGE_MAPPINGS= physnet1: br-eth0
```

```
:/OVS_BRIDGE_IFACES=br-eth0:ens160 #ens160 interface name
```

```
:/CONFIG_PROVISION_DEMO=n
```

```
:/HORIZON_SSL=y
```

22. #install openstack with answer file

```
packstack --answer-file ~/answer.txt
```

```
#you will face an error here! Run the following command to solve it
```

```
yum downgrade leatherman
```

Now wait for your installation to get finished.