OPENSTACK KILO INSTALLATION USING RDO:

SINGLE NODE:

1. Install epel repo
yum install http://dl.fedoraproject.org/pub/epel/7/x86_64/e/epel-release-7-5.noarch.rpm

2. Install rdo kilo rpm.
yum install http://rdo.fedorapeople.org/openstack-kilo/rdo-release-kilo.rpm

3. Upgrade repos.
yum upgrade

4. Install rdo release rpm.
yum install -y https://rdoproject.org/repos/rdo-release.rpm

5. Install packstack
yum install -y openstack-packstack

6. Configure network device properly
vi /etc/sysconfig/network-scripts/ifcfg-<interface_name>
DEVICE="<interface_name>"

7. Update sysctl.conf file to allow ip forwarding
setenforce 0
sed -i -e "s/^net.bridge.bridge-nf-call-ip6tables = 0/net.bridge.bridge-nf-call-ip6tables = 1/" /etc/sysctl.conf
sed -i -e "s/^net.bridge.bridge-nf-call-iptables = 0/net.bridge.bridge-nf-call-iptables = 1/" /etc/sysctl.conf
sed -i -e "s/^net.bridge.bridge-nf-call-arptables = 0/net.bridge.bridge-nf-call-arptables = 1/" /etc/sysctl.conf

8. Set selinux permissions to permissive
sed -i "s/SELINUX=.*/SELINUX=permissive/" /etc/selinux/config

9. Run below command to install openstack single node installation
packstack --allinone

3 NODE(Controller, Network and Compute):

1. Prepare 3 hosts or 3 Virtual machines with at least 2 GB ram and 40 GB HDD for controller, network and compute nodes

2. For network host add 2 more network interfaces, totally 3 network interfaces for network host.

3. For compute host add 1 more interface, totally 2 network interfaces for compute host.

Steps to be executed on **Controller host:**

4. Configure network device properly
vi /etc/sysconfig/network-scripts/ifcfg-<interface_name>
DEVICE="<interface_name>"

5. Update sysctl.conf file to allow ip forwarding
setenforce 0
sed -i -e "s/^net.bridge.bridge-nf-call-ip6tables = 0/net.bridge.bridge-nf-call-ip6tables = 1/"
/etc/sysctl.conf
sed -i -e "s/^net.bridge.bridge-nf-call-iptables = 0/net.bridge.bridge-nf-call-iptables = 1/"
/etc/sysctl.conf
sed -i -e "s/^net.bridge.bridge-nf-call-arptables = 0/net.bridge.bridge-nf-call-arptables = 1/"
/etc/sysctl.conf

6. Set selinux permissions to permissive
sed -i "s/SELINUX=.*/SELINUX=permissive/" /etc/selinux/config

7. Install rdo kilo rpm.
yum install http://rdo.fedorapeople.org/openstack-kilo/rdo-release-kilo.rpm

8. Upgrade repos.
yum upgrade

9. Install rdo release rpm.
yum install -y https://rdoproject.org/repos/rdo-release.rpm

10. Install packstack
yum install -y openstack-packstack

Steps to be executed on **Network host**:

11. Configure all 3 network interfaces properly.
vi /etc/sysconfig/network-scripts/ifcfg-<interface_name>
DEVICE="<interface_name>"

12. Update sysctl.conf file to allow ip forwarding
setenforce 0
sed -i -e "s/^net.bridge.bridge-nf-call-ip6tables = 0/net.bridge.bridge-nf-call-ip6tables = 1/"
/etc/sysctl.conf
sed -i -e "s/^net.bridge.bridge-nf-call-iptables = 0/net.bridge.bridge-nf-call-iptables = 1/"
/etc/sysctl.conf
sed -i -e "s/^net.b

13. Set selinux permissions to permissive
sed -i "s/SELINUX=.*/SELINUX=permissive/" /etc/selinux/config

Steps to be executed on **Compute host**:

14. Configure all 2 network interfaces properly.
vi /etc/sysconfig/network-scripts/ifcfg-<interface_name>
DEVICE="<interface_name>"

15. Update sysctl.conf file to allow ip forwarding
setenforce 0
sed -i -e "s/^net.bridge.bridge-nf-call-ip6tables = 0/net.bridge.bridge-nf-call-ip6tables = 1/"
/etc/sysctl.conf
sed -i -e "s/^net.bridge.bridge-nf-call-iptables = 0/net.bridge.bridge-nf-call-iptables = 1/"
/etc/sysctl.conf
sed -i -e "s/^net.b

16. Set selinux permissions to permissive
sed -i "s/SELINUX=.*/SELINUX=permissive/" /etc/selinux/config

Steps to be executed on **Controller host**:

17. Generate answer file
packstack --gen-answer-file answer.txt

18. Edit the answer file as per your requirement for Openstack components.
a. CONFIG_NETWORK_HOSTS=<network host ip/host name>
b. CONFIG_COMPUTE_HOSTS=<compute host ip/host name>
c. CONFIG_CONTROLLER_HOST=<controller host ip/host name>

19. Execute packstack command with answer file
packstack --answer-file answer.txt

NOTE: Require RHEL 7 or CentOS 7 or Fedora21
If using RHEL 7 then disable NetworkManager and enable network.
systemctl stop NetworkManager
systemctl disable NetworkManager
systemctl enable network