### Perform the below step on node1

Step 0: IP and Hostname

nmcli connection modify ens33 ipv4.method manual ipv4.addresses 192.168.32.135/24 ipv4.gateway 192.168.32.2 ipv4.dns 8.8.8.8 ipv6.method ignore

nmcli connection up ens33

hostnamectl set-hostname node1

cat >> /etc/hosts <<EOF

192.168.32.134 manager

192.168.32.135 node1

192.168.32.136 node2

EOF

Step 1: Disable SELinux & setup firewall rules

sed -i --follow-symlinks 's/SELINUX=enforcing/SELINUX=disabled/g' /etc/sysconfig/selinux

setenforce 0

firewall-cmd --permanent --add-port=10250/tcp

firewall-cmd --permanent --add-port=10255/tcp

firewall-cmd --permanent --add-port=30000-32767/tcp

firewall-cmd --permanent --add-port=6783/tcp

firewall-cmd --reload

Step 2: Enable and start NTP

systemctl enable chronyd

systemctl start chronyd

systemctl status chronyd

chronyc sources

Step 3: Load Bridge Module

modprobe br\_netfilter

echo '1' > /proc/sys/net/bridge/bridge-nf-call-iptables

cat > /etc/sysctl.d/k8s.conf <<EOF

net.bridge.bridge-nf-call-ip6tables = 1

net.bridge.bridge-nf-call-iptables = 1

EOF

sysctl --system

Step 4: Turn swap off

swapoff -a

sed -e '/swap/ s/^#\*/#/' -i /etc/fstab

Step 5: Install base Packages and update the server with latest packages

yum -y install wget git net-tools bind-utils bridge-utils bash-completion kexec-tools

yum update -y

reboot

Step 6: Configure Kubernetes Repository

cat > /etc/yum.repos.d/kubernetes.repo <<EOF

[kubernetes]

name=Kubernetes

baseurl=https://packages.cloud.google.com/yum/repos/kubernetes-el7-\$basearch

enabled=1

gpgcheck=1

repo\_gpgcheck=1

gpgkey=https://packages.cloud.google.com/yum/doc/yum-key.gpg https://packages.cloud.google.com/yum/doc/rpm-package-key.gpg

EOF

Step 7: Install Kubeadm and Docker

yum install kubeadm docker -y

systemctl restart docker && systemctl enable docker

systemctl restart kubelet && systemctl enable kubelet

Step 8: Now Join worker nodes to master node

kubeadm join