Master Node

1 yum install -y -q yum-utils device-mapper-persistent-data lvm2 > /dev/null 2>&1

2 yum-config-manager --add-repo https://download.docker.com/linux/centos/docker-ce.repo > /dev/null 2>&1

3 yum install -y -q docker-ce > /dev/null 2>&1

5 systemctl enable docker

6 systemctl start docker

7 systemctl status docker

9 setenforce 0

10 sed -i --follow-symlinks 's/^SELINIX=enforcing/SELINUX=disabled/' /etc/sysconfig/selinux

11 systemctl disable firewalld

13 systemctl stop firewalld

14 sed -i '/swap/d' /etc/fstab

15 swapoff -a

16 cat <<EOF | sudo tee /etc/sysctl.d/k8s.conf

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

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

EOF

17 sudo sysctl --system

18 cat <<EOF | sudo tee /etc/yum.repos.d/kubernetes.repo

[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

exclude=kubelet kubeadm kubectl

EOF

19 yum install -y kubeadm-1.15.6.0.x86\_64 kubelet-1.15.6.0.x86\_64 kubectl-1.15.6.0.x86\_64

systemctl enable kubelet (or)

23 sudo yum install -y kubelet kubeadm kubectl --disableexcludes=kubernetes

24 systemctl enable kubelet

25 systemctl start kubelet

26 kubeadm init --apiserver-advertise-address=172.31.4.245 --pod-network-cidr=192.168.0.0/16

27 useradd kubeadmin

28 mkdir /home/kubeadmin/.kube

29 cp /etc/kubernetes/admin.conf /home/kubeadmin/.kube/config

30 chown -R kubeadmin:kubeadmin /home/kubeadmin/.kube/

31 sudo su - kubeadmin

32 history

[root@ip-172-31-4-245 ~]# sudo su - kubeadmin

Last login: Wed Jan 20 07:45:24 UTC 2021 on pts/0

[kubeadmin@ip-172-31-4-245 ~]$ history

1 kubectl create -f <https://docs.projectcalico.org.v3.9/manifests/calico.yml>  
 (or)

3 kubectl create -f https://docs.projectcalico.org/manifests/calico.yaml

4 kube token create --print-join-command

Worker Node  
 1 yum install -y -q yum-utils device-mapper-persistent-data lvm2 > /dev/null 2>&1

2 yum-config-manager --add-repo https://download.docker.com/linux/centos/docker-ce.repo > /dev/null 2>&1

3 yum install -y -q docker-ce > /dev/null 2>&1

4 systemctl enable docker

5 systemctl start docker

6 systemctl status docker

7 setenforce 0

8 sed -i --follow-symlinks 's/^SELINIX=enforcing/SELINUX=disabled/' /etc/sysconfig/selinux

9 systemctl disable firewalld

10 systemctl stop firewalld

11 sed -i '/swap/d' /etc/fstab

12 swapoff -a

13 cat <<EOF | sudo tee /etc/sysctl.d/k8s.conf

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

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

EOF

17 sudo sysctl --system

18 cat <<EOF | sudo tee /etc/yum.repos.d/kubernetes.repo

[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

exclude=kubelet kubeadm kubectl

EOF

19 sudo yum install -y kubelet kubeadm kubectl --disableexcludes=kubernetes

20 systemctl enable kubelet

21 systemctl start kubelet

22 kubeadm token create --print-join-command

23 kubeadm join 172.31.4.245:6443 --token 853mn9.vn2aqts66fvanodd --discovery-token-ca-cert-hash sha256:98708b97a12810a67dd632361837af37207427b406cf685ee51baccdfe6c14a0