**master**

rsync /etc/hosts root@node1:/etc/hosts

rsync /etc/hosts root@node2:/etc/hosts

systemctl disable firewalld

# If you have SELinux in enforcing mode, turn it off or use Permissive mode

setenforce 0

sed -i 's/^SELINUX=.\*/SELINUX=permissive/g' /etc/selinux/config

#Turn off swap

swapoff -a

sed -i '/ swap / s/^\(.\*\)$/#\1/g' /etc/fstab

#Configure sysctl

modprobe overlay

modprobe br\_netfilter

tee /etc/sysctl.d/kubernetes.conf<<EOF

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

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

net.ipv4.ip\_forward = 1

EOF

sysctl --system

#Install kubelet, kubeadm and kubectl

tee /etc/yum.repos.d/kubernetes.repo<<EOF

[kubernetes]

name=Kubernetes

baseurl=https://packages.cloud.google.com/yum/repos/kubernetes-el7-x86\_64

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

#Installing packages

yum clean all && yum -y makecache

yum -y install epel-release git curl wget kubelet kubeadm kubectl --disableexcludes=kubernetes

systemctl start kubelet

systemctl enable kubelet

#CRI-O

OS=CentOS\_7

VERSION=1.22

curl -L -o /etc/yum.repos.d/devel:kubic:libcontainers:stable.repo <https://download.opensuse.org/repositories/devel:/kubic:/libcontainers:/stable/$OS/devel:kubic:libcontainers:stable.repo>

curl -L -o /etc/yum.repos.d/devel:kubic:libcontainers:stable:cri-o:$VERSION.repo <https://download.opensuse.org/repositories/devel:kubic:libcontainers:stable:cri-o:$VERSION/$OS/devel:kubic:libcontainers:stable:cri-o:$VERSION.repo>

#install CRI-O

yum remove docker-ce docker-ce-cli containerd.io

yum install cri-o -y

systemctl daemon-reload

systemctl start crio

systemctl enable crio

**#worker1**

ssh node1

systemctl disable firewalld

# If you have SELinux in enforcing mode, turn it off or use Permissive mode

setenforce 0

sed -i 's/^SELINUX=.\*/SELINUX=permissive/g' /etc/selinux/config

#Turn off swap

swapoff -a

sed -i '/ swap / s/^\(.\*\)$/#\1/g' /etc/fstab

#Configure sysctl

modprobe overlay

modprobe br\_netfilter

tee /etc/sysctl.d/kubernetes.conf<<EOF

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

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

net.ipv4.ip\_forward = 1

EOF

sysctl --system

#Install kubelet, kubeadm and kubectl

tee /etc/yum.repos.d/kubernetes.repo<<EOF

[kubernetes]

name=Kubernetes

baseurl=https://packages.cloud.google.com/yum/repos/kubernetes-el7-x86\_64

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

#Installing packages

yum clean all && yum -y makecache

yum -y install epel-release git curl wget kubelet kubeadm kubectl --disableexcludes=kubernetes

systemctl start kubelet

systemctl enable kubelet

#CRI-O

OS=CentOS\_7

VERSION=1.22

curl -L -o /etc/yum.repos.d/devel:kubic:libcontainers:stable.repo <https://download.opensuse.org/repositories/devel:/kubic:/libcontainers:/stable/$OS/devel:kubic:libcontainers:stable.repo>

curl -L -o /etc/yum.repos.d/devel:kubic:libcontainers:stable:cri-o:$VERSION.repo <https://download.opensuse.org/repositories/devel:kubic:libcontainers:stable:cri-o:$VERSION/$OS/devel:kubic:libcontainers:stable:cri-o:$VERSION.repo>

#install CRI-O

yum remove docker-ce docker-ce-cli containerd.io

yum install cri-o -y

systemctl daemon-reload

systemctl start crio

systemctl enable crio

exit

**#Worker2**

ssh node2

systemctl disable firewalld

# If you have SELinux in enforcing mode, turn it off or use Permissive mode

setenforce 0

sed -i 's/^SELINUX=.\*/SELINUX=permissive/g' /etc/selinux/config

#Turn off swap

swapoff -a

sed -i '/ swap / s/^\(.\*\)$/#\1/g' /etc/fstab

#Configure sysctl

modprobe overlay

modprobe br\_netfilter

tee /etc/sysctl.d/kubernetes.conf<<EOF

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

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

net.ipv4.ip\_forward = 1

EOF

sysctl --system

#Install kubelet, kubeadm and kubectl

tee /etc/yum.repos.d/kubernetes.repo<<EOF

[kubernetes]

name=Kubernetes

baseurl=https://packages.cloud.google.com/yum/repos/kubernetes-el7-x86\_64

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

#Installing packages

yum clean all && yum -y makecache

yum -y install epel-release git curl wget kubelet kubeadm kubectl --disableexcludes=kubernetes

systemctl start kubelet

systemctl enable kubelet

#CRI-O

OS=CentOS\_7

VERSION=1.22

curl -L -o /etc/yum.repos.d/devel:kubic:libcontainers:stable.repo <https://download.opensuse.org/repositories/devel:/kubic:/libcontainers:/stable/$OS/devel:kubic:libcontainers:stable.repo>

curl -L -o /etc/yum.repos.d/devel:kubic:libcontainers:stable:cri-o:$VERSION.repo <https://download.opensuse.org/repositories/devel:kubic:libcontainers:stable:cri-o:$VERSION/$OS/devel:kubic:libcontainers:stable:cri-o:$VERSION.repo>

#install CRI-O

yum remove docker-ce docker-ce-cli containerd.io

yum install cri-o -y

systemctl daemon-reload

systemctl start crio

systemctl enable crio

exit

#going back on master

lsmod | grep br\_netfilter

kubeadm config images pull

mkdir join-token

kubeadm init --pod-network-cidr=10.85.0.0/16 --upload-certs --control-plane-endpoint=master