$ sudo yum install -y yum-utils
$ sudo yum install -y device-mapper-persistent-data lvm2
$ sudo yum-config-manager --add-repo https://download.docker.com/linux/centos/docker-ce.repo
$ sudo yum install -y docker-ce
$ sudo systemctl enable docker && sudo systemctl start docker
$ sudo docker version

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

$ sudo yum update
$ sudo setenforce 0

$ sudo yum install -y kubelet kubeadm

$ sudo systemctl start docker
$ sudo docker version

$ sudo vi /etc/sysctl.conf

```
net.bridge.bridge-nf-call-ip6tables = 1
net.bridge.bridge-nf-call-iptables = 1
net.ipv6.conf.default.router_solicitations = 0
net.ipv6.conf.default.accept_ra_rtr_pref = 0
net.ipv6.conf.default.accept_ra_pinfo = 0
net.ipv6.conf.default.accept_ra_defrtr = 0
net.ipv6.conf.default.autoconf = 0
net.ipv6.conf.default.dad_transmits = 0
net.ipv6.conf.default.max_addresses = 1
```

$ sudo vi /etc/systemd/system/kubelet.service.d/10-kubeadm.conf

```
Environment="KUBELET_CGROUP_ARGS=--cgroup-driver=cgroupfs"
```

```
$ sudo systemctl enable kubelet && sudo systemctl start kubelet
$ sudo systemctl status kubelet
$ sudo journalctl -xeu kubelet

$ sudo kubeadm init
$ sudo systemctl status kubelet
```

To start using your cluster, you need to run the following as a regular user:

```
$ mkdir -p $HOME/.kube
$ sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config
$ sudo chown $(id -u):$(id -g) $HOME/.kube/config
```

You can now join any number of machines by running the following on each node as root:

```
$ kubeadm join 10.142.0.14:6443 --token lm77ey.eg1bgrw68s5htt2w --discovery-token-ca-cert-hash sha256:d9693fc402c0e09a0f3b91738cc830c96c44e893663c7e6fc8ca44907715a53b
```