

kubernetes

```
# Setup daemon.
cat > /etc/docker/daemon.json <<EOF
{
  "exec-opts": ["native.cgroupdriver=systemd"],
  "log-driver": "json-file",
  "log-opts": {
    "max-size": "100m"
  },
  "storage-driver": "overlay2"
}
EOF
```

```
mkdir -p /etc/systemd/system/docker.service.d
```

```
systemctl daemon-reload
```

```
systemctl restart docker
```

```
systemctl enable docker
```

```
curl -s https://packages.cloud.google.com/apt/doc/apt-key.gpg | sudo apt-key add
```

```
apt-add-repository "deb http://apt.kubernetes.io/ kubernetes-xenial main"
```

```
apt install kubeadm -y
```

```
kubeadm version
```

```
swapoff -a
```

```
[WARNING IsDockerSystemdCheck]: detected "cgroupfs" as the Docker cgroup driver. The
recommended driver is "systemd". Please follow the guide at
https://kubernetes.io/docs/setup/cri/
[WARNING SystemVerification]: this Docker version is not on the list of validated versions:
19.03.5. Latest validated version: 18.09
```

Your Kubernetes control-plane has initialized successfully!

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 should now deploy a pod network to the cluster.

Run "kubectl apply -f [podnetwork].yaml" with one of the options listed at:

<https://kubernetes.io/docs/concepts/cluster-administration/addons/>

Then you can join any number of worker nodes by running the following on each as root:

```
kubeadm join 10.80.0.3:6443 --token z2thcd.6703vccqh3nh3cb7 \
--discovery-token-ca-cert-hash
sha256:7205d50008d1a75e005c57bc3df4a56f2135a0e85e7ef9d6e31987cc63bc7d05
```

kubeadm init --pod-network-cidr=10.80.0.0/24

```
cloud@apu03:~$ mkdir -p $HOME/.kube
cloud@apu03:~$ sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config
[sudo] password for cloud:
Sorry, try again.
[sudo] password for cloud:
Sorry, try again.
[sudo] password for cloud:
sudo: 2 incorrect password attempts
cloud@apu03:~$ passwd
Changing password for cloud.
(current) UNIX password:
passwd: Authentication token manipulation error
passwd: password unchanged
cloud@apu03:~$ sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config
[sudo] password for cloud:
cloud@apu03:~$ sudo chown $(id -u):$(id -g) $HOME/.kube/config
cloud@apu03:~$ kubectl get nodes
```

NAME	STATUS	ROLES	AGE	VERSION
apu03	NotReady	master	3m16s	v1.16.3

Install Dashboard

```
kubectl apply -f https://raw.githubusercontent.com/kubernetes/dashboard/v2.0.0-beta6/aio/deploy/recommended.yaml
```

```
kubectl proxy
```

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