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## Kubernetes Debian 10

Configure `/etc/hosts`:

```
192.168.122.136 k8smaster
192.168.122.98 k8sworker1
192.168.122.27 k8sworker2
```

On three nodes:

```
apt-get update
apt-get upgrade
apt-get install apt-transport-https ca-certificates curl gnupg2 software-
properties-common
curl -fsSL https://download.docker.com/linux/debian/gpg | apt-key add -
add-apt-repository \
    "deb [arch=amd64] https://download.docker.com/linux/debian \
    $(lsb_release -cs) \
    stable"
apt-get update
apt-get install docker-ce docker-ce-cli containerd.io
curl -s https://packages.cloud.google.com/apt/doc/apt-key.gpg | apt-key add
-
cat <<EOF | tee /etc/apt/sources.list.d/kubernetes.list
deb https://apt.kubernetes.io/ kubernetes-xenial main
EOF
apt-get update
apt-get install -y kubelet kubeadm kubectl
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
swapoff -a
sed -e '/swap/ s/^#*/#/' -i /etc/fstab
```

On master:

```
kubeadm init --pod-network-cidr=10.244.10.0/16 --apiserver-advertise-
address=192.168.122.136
su - emonge
```

```
mkdir -p $HOME/.kube
sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config
sudo chown $(id -u):$(id -g) $HOME/.kube/config
kubectl apply -f
https://raw.githubusercontent.com/coreos/flannel/master/Documentation/kube-flannel.yml
```

On nodes:

```
kubeadm join 192.168.122.136:6443 --token qegj29.yjrkqi01jwrji3m0 \
--discovery-token-ca-cert-hash
sha256:119dd2951ba386bbaae80af67bf52d1db559bdb937a96225522e3ea4a7074d5d
```

Check:

```
kubectl get pods --all-namespaces
kubectl get nodes
```

## References

- <https://docs.docker.com/install/linux/docker-ce/debian/>
- <https://www.howtoforge.com/tutorial/how-to-install-kubernetes-on-ubuntu/>
- <https://kubernetes.io/docs/setup/production-environment/tools/kubeadm/install-kubeadm/>
- <https://kubernetes.io/docs/setup/production-environment/container-runtimes/>

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