

Kubernetes master / worker node setup

08:45 PM

2cpu and 4gb

While creating machine enable traffic on all ports

*****COMMANDS FOR DEMO*****

```
sudo su
apt-get update
apt-get install apt-transport-https
```

```
apt install docker.io -y
docker --version
systemctl start docker
systemctl enable docker
```

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

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

Node 1 and master

```
nano /etc/apt/sources.list.d/kubernetes.list
```

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

Or

```
cat <<EOF >/etc/apt/sources.list.d/kubernetes.list
deb http://apt.kubernetes.io/ kubernetes-xenial main
EOF
```

```
apt-get update
```

```
apt-get install -y kubelet kubeadm kubectl kubernetes-cni
```

Above all commands will run on all vms

BOOTSTRAPPING THE MASTER NODE (IN MASTER)

```
kubeadm init
```

COPY THE COMMAND TO RUN IN NODES & SAVE IN NOTEPAD

```
mkdir -p $HOME/.kube  
cp -i /etc/kubernetes/admin.conf $HOME/.kube/config
```

```
chown $(id -u):$(id -g) $HOME/.kube/config
```

Need to check urls

```
kubectl apply -f  
https://raw.githubusercontent.com/coreos/flannel/master/Documentation/kube-flannel.yml
```

```
kubectl apply -f  
https://raw.githubusercontent.com/coreos/flannel/master/Documentation/k8s-manifests/kube-flannel-rbac.yml
```

CONFIGURE WORKER NODES (IN NODES)

COPY LONG CODE PROVIDED BY MASTER IN NODE NOW LIKE CODE GIVEN BELOW

```
e.g- kubeadm join 172.31.6.165:6443 --token kl9fhu.co2n90v3rxtqllrs --discovery-token-ca-cert-hash  
sha256:b0f8003d23dbf445e0132a53d7aa1922bdef8d553d9eca06e65c928322b3e7c0
```

GO TO MASTER AND RUN THIS COMMAND

```
kubectl get nodes
```

```
*****END*****
```