Krishtechtrainings

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**INSTALLING KUBERNETES**

**Steps for Both Master and Slave**

**Step 1:** Run the following commands for installing kubeadm as root

$sudo su

$ apt-get update

apt-get install apt-transport-https

apt install docker.io -y

docker --version

systemctl start docker

systemctl enable docker

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

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

deb [http://apt.kubernetes.io/](https://www.youtube.com/redirect?event=video_description&redir_token=QUFFLUhqbHBUOV8yMWxmd29SV0xNRlpHc3dmRUd4cUpEUXxBQ3Jtc0tsMmVxb1JrYlY2a0xmQmQ5OWxUR2J3TzlLMzB4T09qUGFUVjlSbVl0bFIwVndFaTBXWTFnSlk1ZmlCQ1NFR0Z3ZTVhOFJGZkN2NWNwY1Y1TXVTU1ljWE0yMHV2d01BdUhzM19oWFpyV040T1Z4bmg0OA&q=http%3A%2F%2Fapt.kubernetes.io%2F) kubernetes-xenial main

apt-get update

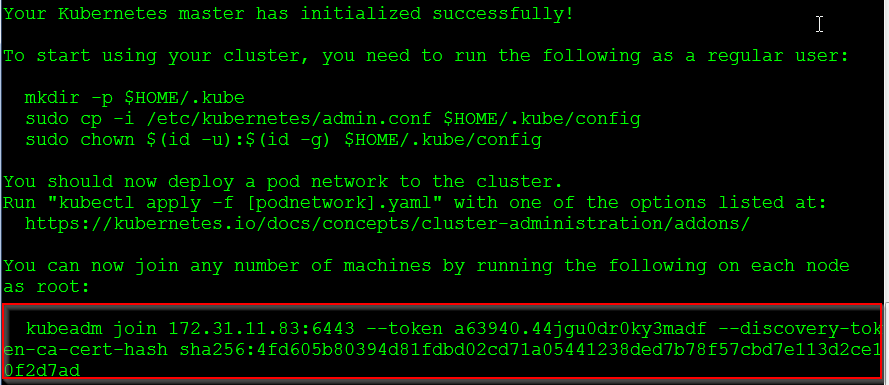
apt-get install -y kubelet kubeadm kubectl kubernetes-cni

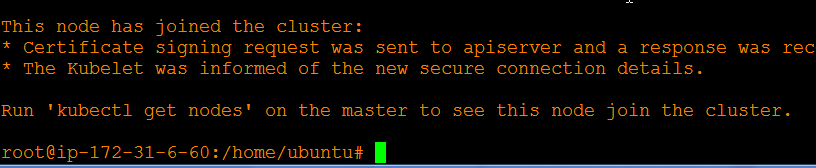
**Steps for Kubernetes Master**

**Step 1:** Initialize kubeadm using the following command:

kubeadm init

**Step 2:** In the output of the previous command, you will get a command, take this command and run it in the slave





**Step 3:** On the master, exit to the normal user, and execute the following commands:

$ mkdir -p $HOME/.kube

$ sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config

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

**Step 4:** Next, let’s install the network plugin. Execute the following commands:

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

ONFIGURE WORKER NODES (IN NODES) COPY LONG CODE PROVIDED MY 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

Step 5: The previous command will take some time to take effect. After 4-5 mins, try the following command, if both the nodes are in the ready state, Installation is successful!

$ kubectl get nodes

