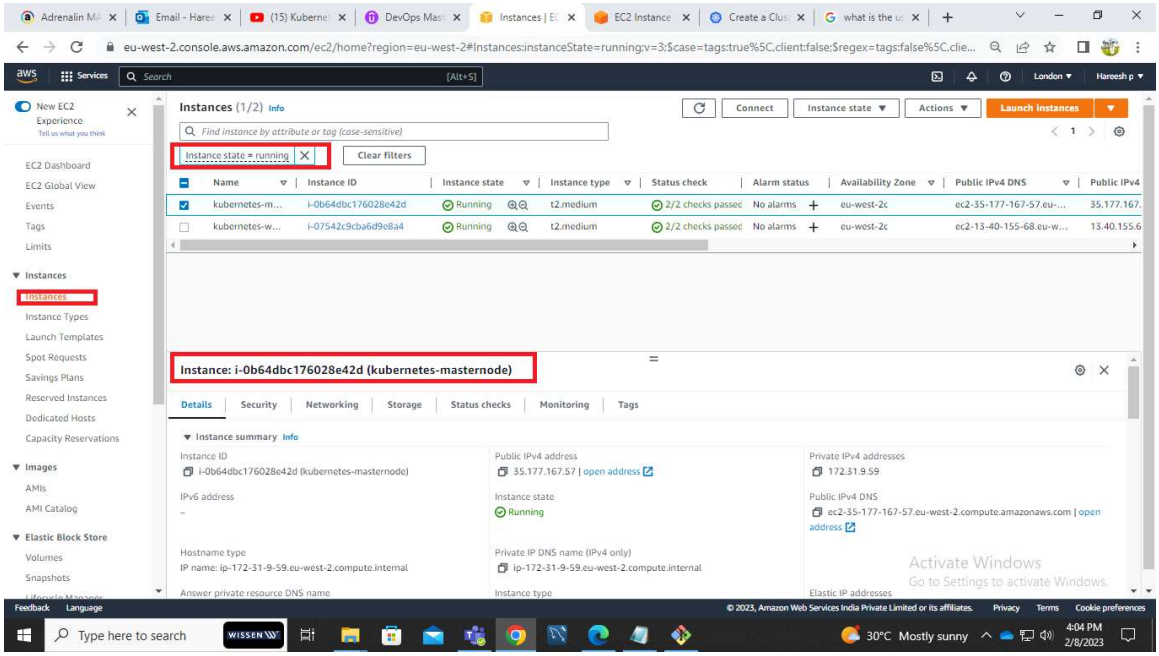
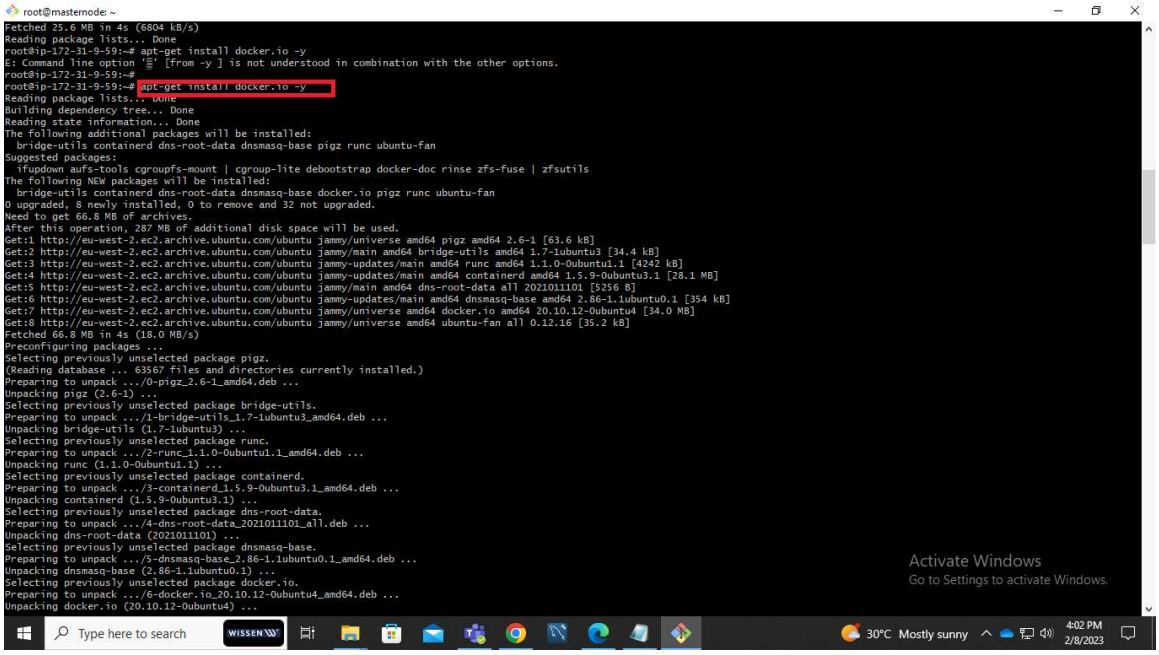
Setup Kubernetes master and node setup and able to establish the communication between master and node :

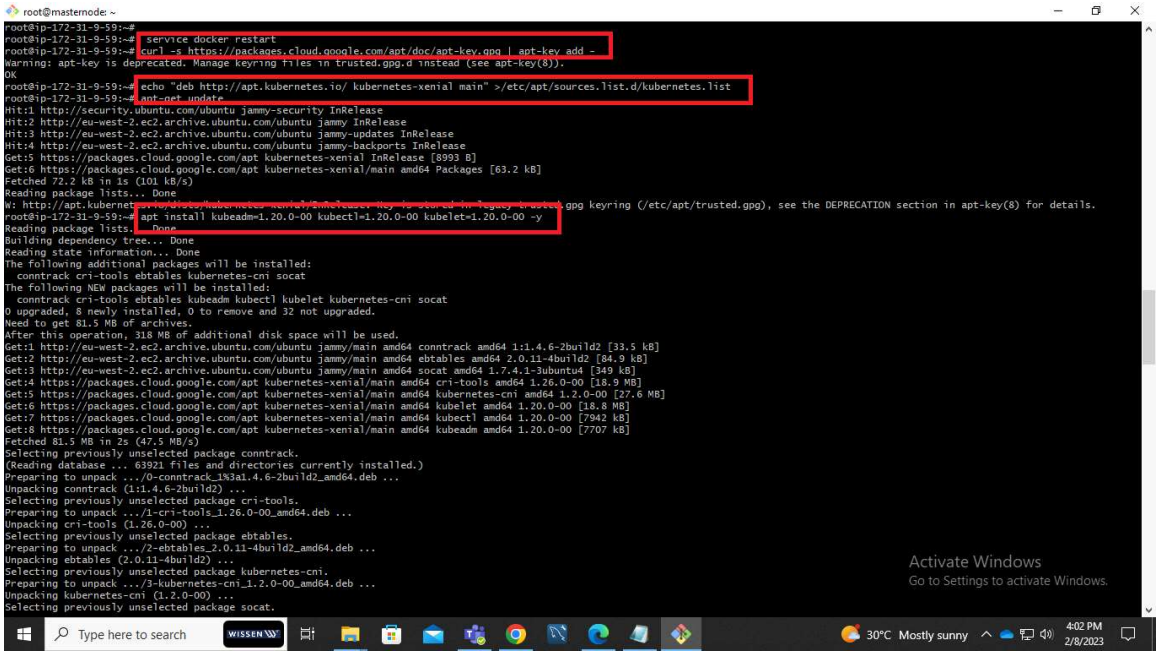
- login to aws console
- Navigate ec2 dashboard and launch the -2 instances



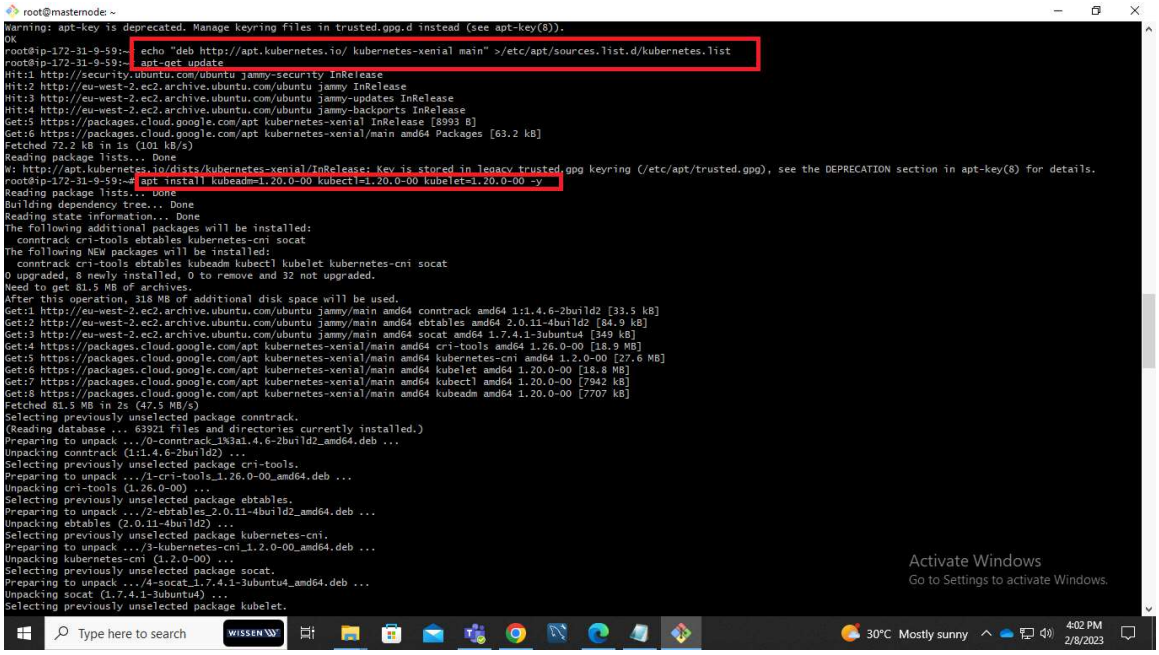
Instance-1 - (master) Apply the below commands:

- sudo su - (switch to root user).
- apt-get update (To keep all the packages up to date).
- apt-get install docker.io -y (Install docker)
- service docker restart (Start Docurl -s https://packages.cloud.google.com/apt/doc/apt-key.gpg | apt-key add - (To add the key to authenticate the software packages). cker daemon).

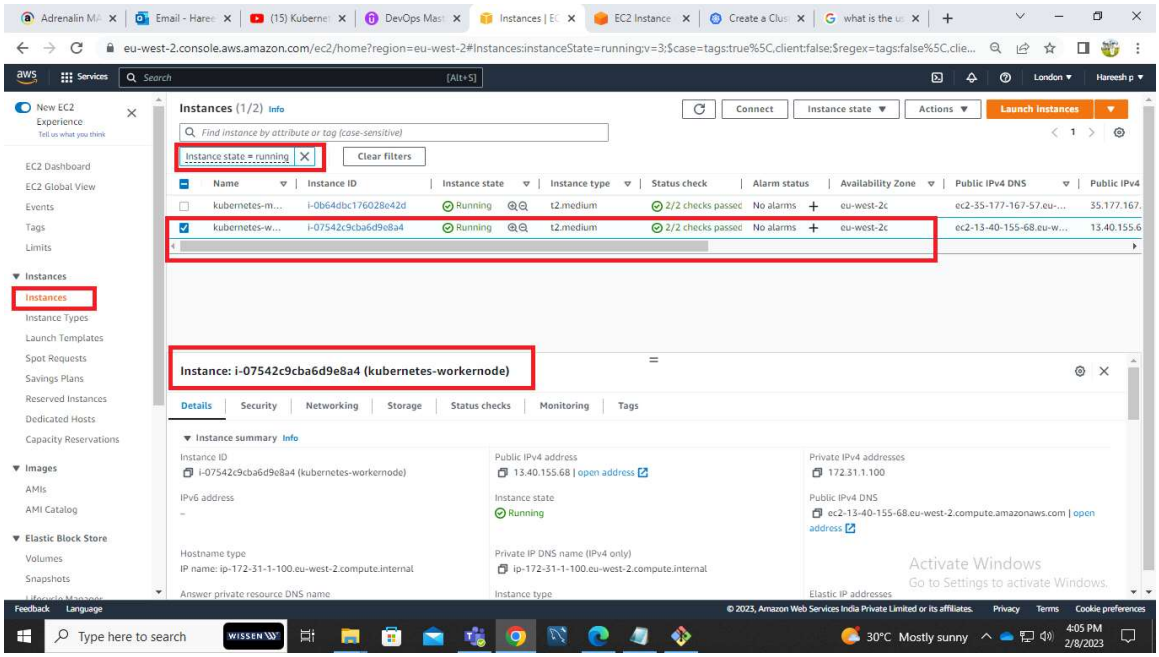




- echo "deb http://apt.kubernetes.io/ kubernetes-xenial main" >/etc/apt/sources.list.d/kubernetes.list (Add the Kubernetes apt reposito
- apt-get update
- apt install kubeadm=1.20.0-00 kubectl=1.20.0-00 kubelet=1.20.0-00 -y (Install kubeadm,kubectl kubelet).

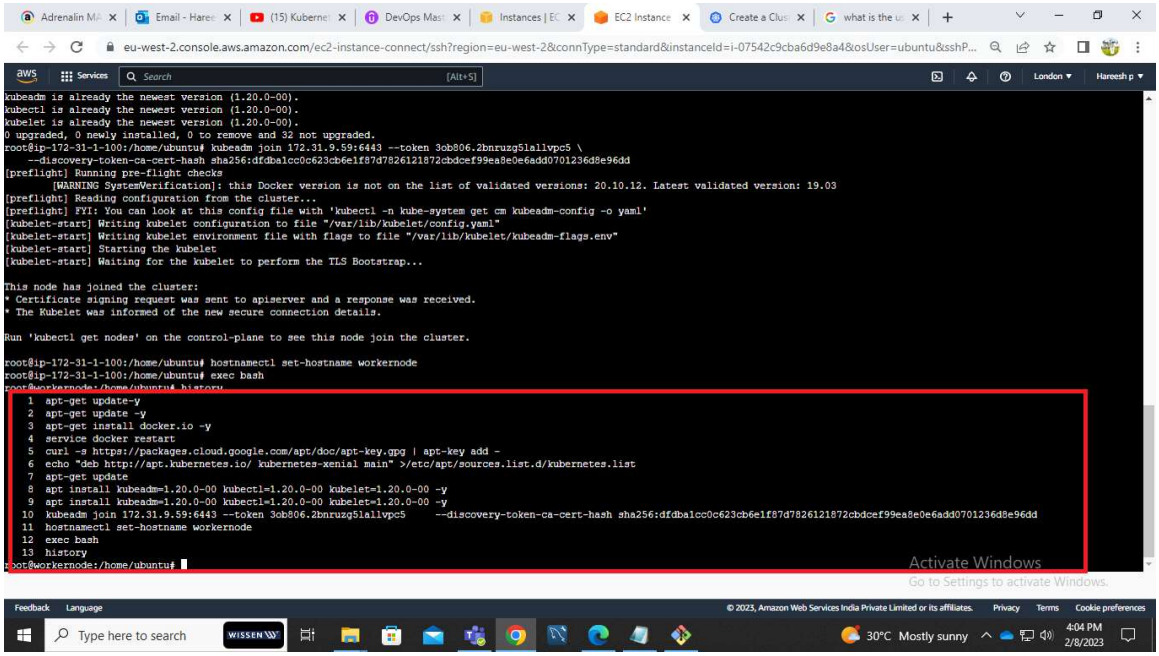


Instance-2 - (Workingnode)

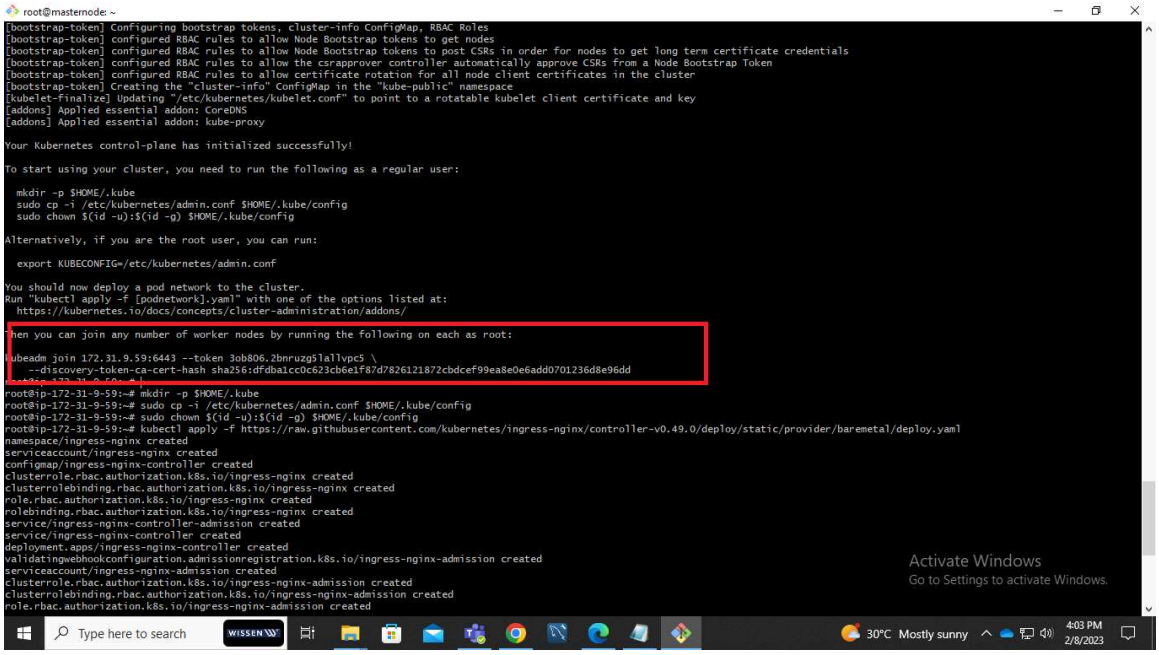


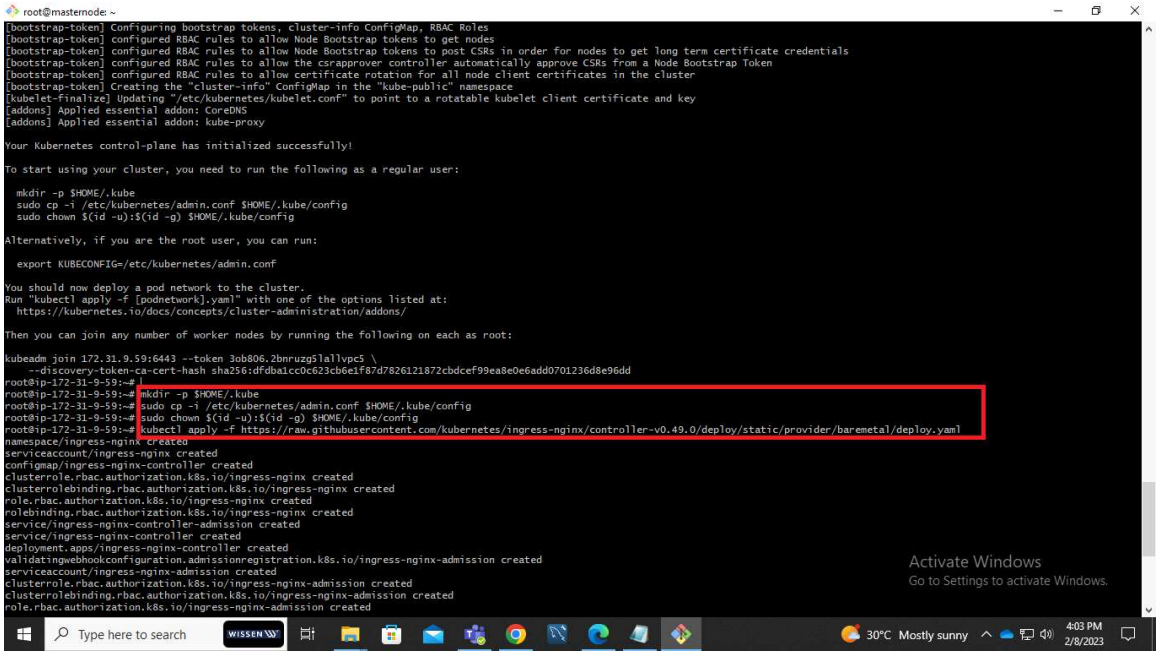
- Apply the below commands for working node also
- sudo su - (switch to root user).
- * apt-get update (To keep all the packages up to date).

- * apt-get install docker.io -y (Install docker)
- * service docker restart (Start Docker daemon).
- * curl -s https://packages.cloud.google.com/apt/doc/apt-key.gpg | apt-key add - (To add the key to authenticate the software packages).
- * echo "deb http://apt.kubernetes.io/ kubernetes-xenial main" >/etc/apt/sources.list.d/kubernetes.list (Add the Kubernetes apt repository)
- * apt-get update
- * apt install kubeadm=1.20.0-00 kubectl=1.20.0-00 kubelet=1.20.0-00 -y (Install kubeadm,kubectl kubelet).



- Apply the master token in worker node to establishing communication

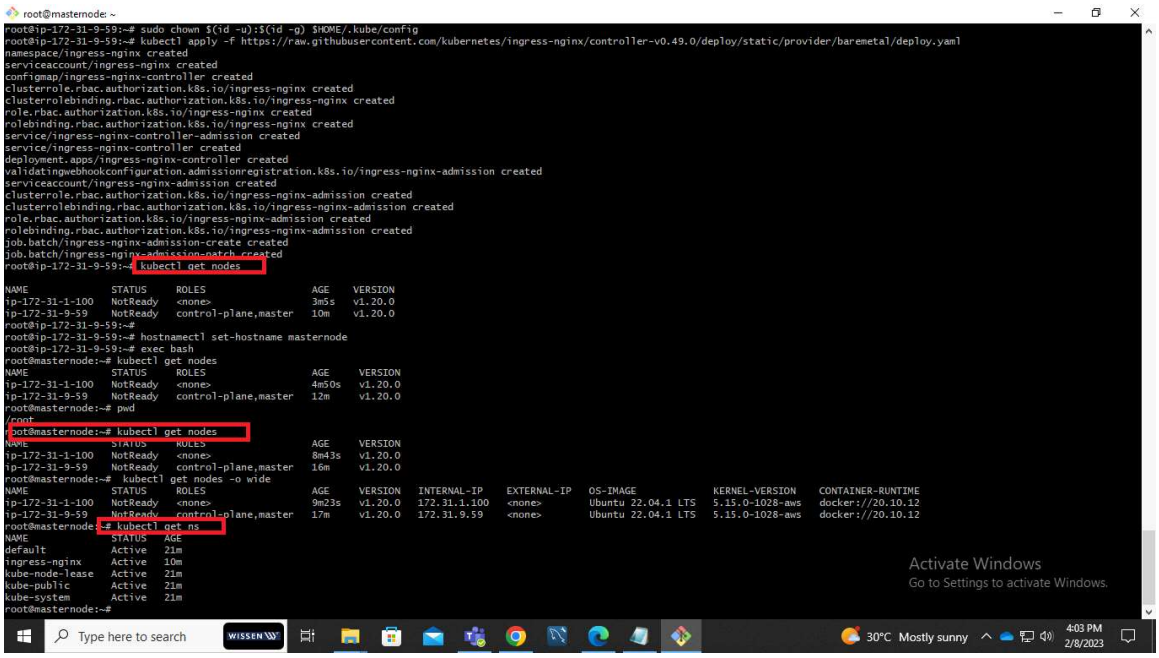


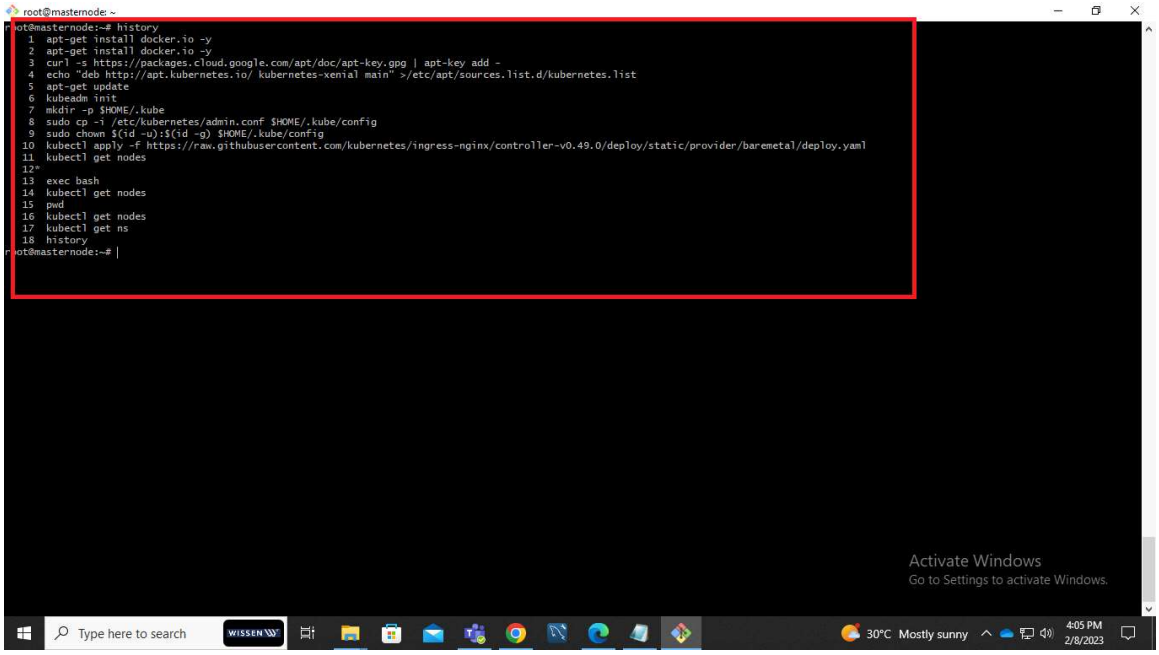


- In master
- apply - kubeadm init --pod-network-cidr=192.168.0.0/16 (Initialize kubadm and give the cidr).
- mkdir -p $HOME/.kube (To Create the .kube subdirectory in your home directory).
- * sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config (To Create a copy of

the Kubernetes admin.conf file in the .kube directory).

- * sudo chown $(id -u):$(id -g) $HOME/.kube/config (To change the permissions for the file).
- kubectl apply -f https://raw.githubusercontent.com/kubernetes/ingress-nginx/controller-v0.49.0/deploy/static/provider/baremetal/deploy.yaml
- * kubectl get nodes
- * kubectl get nodes -o wide
- * kubectl get ns




root@masternode: ~
root@masternode:~# history
1 apt-get install docker.io -y
2 apt-get install docker.io -y
3 curl -s https://packages.cloud.google.com/apt/doc/apt-key.gpg | apt-key add -
4 echo "deb http://apt.kubernetes.io/ kubernetes-xenial main" >/etc/apt/sources.list.d/kubernetes.list
5 apt-get update
6 kubeadm init
7 mkdir -p $HOME/.kube
8 sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config
9 sudo chown $(id -u):$(id -g) $HOME/.kube/config
10 kubectl apply -f https://raw.githubusercontent.com/kubernetes/ingress-nginx/controller-v0.49.0/deploy/static/provider/baremetal/deploy.yaml
11 kubectl get nodes
12*
13 exec bash
14 kubectl get nodes
15 pwd
16 kubectl get nodes
17 kubectl get ns
18 history
root@masternode:~#
Activate Windows
Go to Settings to activate Windows.
Type here to search
30°C Mostly sunny
4:05 PM
2/8/2023