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

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

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

apt-get update

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

**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

kubectl apply -f https://raw.githubusercontent.com/cor...

kubectl apply -f https://raw.githubusercontent.com/cor...

**CONFIGURE 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

**GO TO MASTER AND RUN THIS COMMAND**

kubectl get nodes

sudo su

**Now install docker**

sudo apt update && apt -y install docker.io

install Kubectl

curl -LO https://storage.googleapis.com/kubern... -s https://storage.googleapis.com/kubern... && chmod +x ./kubectl && sudo mv ./kubectl /usr/local/bin/kubectl

install Minikube

curl -Lo minikube https://storage.googleapis.com/miniku... && chmod +x minikube && sudo mv minikube /usr/local/bin/

apt install Conntrack

minikubr start –vm-driver=none //next time minikube start only

minikube status

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kind: Pod

apiVersion: v1

metadata:

name: testpod

spec:

containers:

name: c00

image: ubuntu

command: ["/bin/bash", "-c", "while true; do echo Hello-Bhupinder; sleep 5 ; done"]

restartPolicy: Never # Defaults to Always

kubectl apply -f pod1.yml

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**MULTI CONTAINER POD ENVIRONMENT**

kind: Pod

apiVersion: v1

metadata:

name: testpod3

spec:

containers:

name: c00

image: ubuntu

command: ["/bin/bash", "-c", "while true; do echo Technical-Guftgu; sleep 5 ; done"]

name: c01

image: ubuntu

command: ["/bin/bash", "-c", "while true; do echo Hello-Bhupinder; sleep 5 ; done"]

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**POD ENVIRONMENT VARIABLES**

kind: Pod

apiVersion: v1

metadata:

name: environments

spec:

containers:

name: c00

image: ubuntu

command: ["/bin/bash", "-c", "while true; do echo Hello-Bhupinder; sleep 5 ; done"]

env: # List of environment variables to be used inside the pod

name: MYNAME

value: BHUPINDER

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**POD WITH PORTS**

kind: Pod

apiVersion: v1

metadata:

name: testpod4

spec:

containers:

name: c00

image: httpd

ports:

containerPort: 80