**Setup kubernetes 1 Master and 2 worker node on UBUNTU 20.04 (aamir)**

Go to AWS, create 3 instances on UBUNTU 20.04. 1 Master and 2 Node.

**Master = t2 medium Nodes = t2-micro**

**security group :**  SSH and All Traffic Anywhere.. lunch instance..

**Step 1 : BOTH Master & Worker nodes**

ubuntu@ip- # **sudo -i**

root@ MASTER -or- NODE-1 -or- NODE-2 # **hostnamectl set-hostname < give name >**

root@ MASTER -or- NODE-1 -or- NODE-2 #  **bash**

root@ MASTER -or- NODE-1 -or- NODE-2 # **nano install.sh**

apt-get update

apt-get install docker.io -y

service docker restart

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

echo "deb http://apt.kubernetes.io/ kubernetes-xenial main" >/etc/apt/sources.list.d/kubernetes.list

apt-get updatel

apt install kubeadm=1.20.0-00 kubectl=1.20.0-00 kubelet=1.20.0-00 -y

root@ MASTER -or- NODE-1 -or- NODE-2 # **sh install.sh**

**Step 2 : On Master:**

kubeadm init --pod-network-cidr=192.168.0.0/16

***>Copy the token and Paste it into the Worker node.* {NODE-1 OR NODE-2}**

**Step-3 : On Master:**

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 : On Master: install ‘calico’ kuberneteis Network Plugin**

kubectl get nodes master /node-1 NotReady control-plane,master

kubectl get pod -A < -------------------- check pods are not running master **NotReady**

curl https://raw.githubusercontent.com/projectcalico/calico/v3.25.0/manifests/calico.yaml -O

kubectl apply -f calico.yaml

kubectl get pod -A < -------------------- check pods are running master  **Ready**

kubectl get nodes master /node-1 Ready control-plane,master

kubectl get pods -n kube-system < ----------------- showing all default pods {all pods should be running }