**Create a EC2 instance on AWS(Ubuntu,number of instances:3)**

Download key and open cmd from that location

Select the instance and in the SSH section copy the command and paste in cmd

**As you get connected,execute:**

sudo apt-get update

sudo apt-get install docker.io

docker –version

sudo systemctl enable docker

sudo systemctl status docker

sudo systemctl start docker

Use the url: <https://kubernetes.io/docs/setup/production-environment/tools/kubeadm/install-kubeadm/> ,scroll down and follow the following steps given there:

sudo apt-get update

sudo apt-get install -y apt-transport-https ca-certificates curl gpg

curl -fsSL https://pkgs.k8s.io/core:/stable:/v1.31/deb/Release.key | sudo gpg --dearmor -o /etc/apt/keyrings/kubernetes-apt-keyring.gpg

echo 'deb [signed-by=/etc/apt/keyrings/kubernetes-apt-keyring.gpg] https://pkgs.k8s.io/core:/stable:/v1.31/deb/ /' | sudo tee /etc/apt/sources.list.d/kubernetes.list

sudo apt-get update

sudo apt-get install -y kubelet kubeadm kubectl

sudo apt-mark hold kubelet kubeadm kubectl

sudo systemctl enable --now kubelet

kubeadm version

**Repeat the above step for all 3 instances**

sudo swapoff –a

**Then assign names for the 3 instances :**

sudo hostnamectl set-hostname master-node

sudo hostnamectl set-hostname worker-node1

sudo hostnamectl set-hostname worker-node2

**On master node :**

sudo kubeadm init --pod-network-cidr=10.244.0.0/16

An error message will be Displayed,end the process.