p

**Setup Kubernetes Master and Worker Nodes on AWS Environment**

Run the below commands in all three nodes:

**Switch to root user**

• sudo su -

**Update the System**

• apt-get update

**Install http package**

• apt-get install apt-transport-https

**Docker Installation**

• apt install docker.io -y

• docker --version

• systemctl start docker

• systemctl enable docker

**Setup open GPG Key**

• curl -fsSL https://pkgs.k8s.io/core:/stable:/v1.28/deb/Release.key | sudo gpg --dearmor -o /etc/apt/keyrings/kubernetes-apt-keyring.gpg

**Edit source list file**

• echo 'deb [signed-by=/etc/apt/keyrings/kubernetes-apt-keyring.gpg] https://pkgs.k8s.io/core:/stable:/v1.28/deb/ /' | sudo tee /etc/apt/sources.list.d/kubernetes.list

**Install the Kubernetes packages**

• apt-get update

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

**BOOTSTRAPPING THE MASTER NODE (Only in MASTER Node)**

• kubeadm init

Copy the command to run in Nodes & Save it in a Notepad.

**Create both .kube and its parent directory (-p)**

• mkdir -p $HOME/.kube

**Copy configuration to kube directory (in config file)**

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

**Provide user permissions to config file**

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

Deploy flanner node network for its repository path. Fannel is going to place a binary in each node

• kubectl apply –https://raw.githubusercontent.com/coreos/flannel/master/Documentation/kube-flannel.yml

**Configure Worker Nodes**

COPY LONG CODE PROVIDED MY MASTER IN NODE NOW LIKE CODE GIVEN BELOW

kubeadm join 172.31.81.46:6443 --token 43n032.tla1o84c8uqf2n03 --discovery-token-ca-cert-hash sha256:eaf19977fe942e38b100b2bb08209730572f53f17213542889e9594176263888

GO TO MASTER AND RUN THIS COMMAND

kubectl get nodes