INSTALL KUBERNETES WITH KUBEADM

This COMMAND will apply on all worker nodes including Master or Control-plane
sudo apt update
sudo apt upgrade -y
sudo apt-get install -y ca-certificates curl
sudo apt-get install -y apt-transport-https
sudo apt install docker.io -y
sudo systemctl start docker
sudo systemctl enable docker

Download the Google Cloud public signing key:
 curl -fsSL https://packages.cloud.google.com/apt/doc/apt-key.gpg | sudo gpg --dearmor -o /etc/apt/keyrings/kubernetes-archive-keyring.gpg

Note: In releases older than Debian 12 and Ubuntu 22.04, /etc/apt/keyrings does not exist by default. You can create this directory if you need to, making it world-readable but writeable only by admins.

Add the Kubernetes apt repository:
 echo "deb [signed-by=/etc/apt/keyrings/kubernetes-archive-keyring.gpg] https://apt.kubernetes.io/ kubernetes-xenial main" | sudo tee /etc/apt/sources.list.d/kubernetes.list

Update apt package index, install kubelet, kubeadm and kubectl, and pin their version:
sudo apt-get update
sudo apt-get install -y kubelet kubeadm kubectl
sudo apt-mark hold kubelet kubeadm kubectl

sudo swapoff -a

PASTE THE KUBEADM JOIN.... KEY ON ALL WORKER NODES

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THIS COMMANDS WILL APPLY ONLY ON MASTER OR CONTROL-PLANE

Initialize the Kubernetes cluster by running the following command:
  kubeadm init --pod-network-cidr=192.168.0.0/16
       OR
  sudo kubeadm init

Configure kubectl for your regular user by running the following commands:

  mkdir -p $HOME/.kube
  sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config
  sudo chown $(id -u):$(id -g) $HOME/.kube/config

also copy kubeadm join key for future use.

```
kubectl create -f https://raw.githubusercontent.com/projectcalico/calico/v3.26.0/manifests/tigera-operator.yaml

kubectl create -f https://raw.githubusercontent.com/projectcalico/calico/v3.26.0/manifests/custom-resources.yaml
```

OR

```
{{{
 curl https://raw.githubusercontent.com/projectcalico/calico/v3.26.0/manifests/custom-resources.yaml -O
  ls
  kubectl create -f filename or custom-resources.yaml
}}}
```

Check the status of the control plane components:

```
kubectl get nodes

kubectl get pods -n kube-system

kubectl get pods -A
```