**Master Node**

Step 1 : # Initialize Kubernetes cluster (only on master node)

git clone https://github.com/anilbidari/python-kubernetes.git

cd python-kubernetes/

cat kubeadm.sh

chmod +x kubeadm.sh

./kubeadm.sh

kubeadm init

**Step 2 : # Configure kubectl for the default user**

mkdir -p $HOME/.kube

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

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

kubectl get pods -n kube-system

**Step 3 : # Install Calico network plugin**

kubectl apply -f https://raw.githubusercontent.com/projectcalico/calico/v3.26.0/manifests/calico.yaml

**Step 4 : # generate join command**

kubeadm token create --print-join-command

**Step 5 : # check your master node is active**

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AI-generated content may be incorrect.

Login to Slave Node 1

Step 1 : # Join the salve node

git clone https://github.com/anilbidari/python-kubernetes.git

cd python-kubernetes/

cat kubeadm.sh

chmod +x kubeadm.sh

./kubeadm.sh

**Step 2: execute Join command received in master node**

( replace master generated command)

Login to Slave Node 2

Step 1 : # Join the salve node

git clone https://github.com/anilbidari/python-kubernetes.git

cd python-kubernetes/

cat kubeadm.sh

chmod +x kubeadm.sh

./kubeadm.sh

**Step 2: execute Join command received in master node**

( replace master generated command)

**On Master Node**

Step 3 : check nodes ready state (only on master node)

kubectl get nodes

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AI-generated content may be incorrect.