**Ways to install k8s**

**Kubeadm**

**Minikube**

**Kops**

**K8s in gcp**

**Step1:**

**On Master & worker node**

**sudo su**

**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 update**

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

**Step2:**

**On Master:**

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

**>Copy the token and paste it into the worker node.**

**Step3:**

**On Master:**

**exit**

**mkdir -p $HOME/.kube**

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

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

**step4:**

**On Master:**

**kubectl apply -f** [**https://docs.projectcalico.org/manifests/calico.yaml**](https://docs.projectcalico.org/manifests/calico.yaml)

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

**kubectl apply -f calico.yaml**

**kubectl apply -f https://raw.githubusercontent.com/kubernetes/ingress-nginx/controller-v0.49.0/deploy/static/provider/baremetal/deploy.yaml**

**Our Kubernetes installation and configuration are complete**