#apt-get update && apt-get install -y apt-transport-https

#curl -s https://packages.cloud.google.com/apt/doc/apt-key.gpg | apt-key add -

#cat <<EOF >/etc/apt/sources.list.d/kubernetes.list

deb http://apt.kubernetes.io/ kubernetes-xenial main

EOF

#apt-get update

#apt-get install -y docker.io

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

----------------------------------------------------------------------------------------------------------------

kubeadm init

kubeadm init --pod-network-cidr=10.244.0.0/16 🡪Initialize the cluster using the IP range for Flannel.

Copy the kubeadmin join command.

Exit sudo and run the following:

mkdir -p $HOME/.kube

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

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

kubectl apply -f <https://raw.githubusercontent.com/coreos/flannel/master/Documentation/kube-flannel.yml> --> deploy flannel, create network overlay

kubectl get pods --all-namespaces -o wide🡪list all the pods in the cluster in detail

kubectl version

kubectl get nodes

kubectl get service

kubectl get namespace

Kubectl create namespace nginx --image=nginx / kubectl create namespace sock-shop

kubectl apply -n sock-shop -f "https://github.com/microservices-demo/microservices-demo/blob/master/deploy/kubernetes/complete-demo.yaml?raw=true" 🡪 apply to install all the component of Sock Shop

Kubectl scale deployment nginx --replicas=4

Kubectl get deployment nginx-deployment –o yaml

Kubectl describe pod nginx🡪all details about the pod naginx

kubectl get namespace🡪show all the namespace names

Vi ./pod-example.yaml

Kubectl create –f naginx.yaml

Kubectl delete pod nginx🡪 delete the pod