

DevOps

#####

K8s

Ansible

Jenkins

Ravi

Azure DevOps

K8s

Environment setup k8s

Deployment

Pods

Services

Deployments

Through vms

Using kubeadm

K8S

Cluster

No. pods

Distribute pods

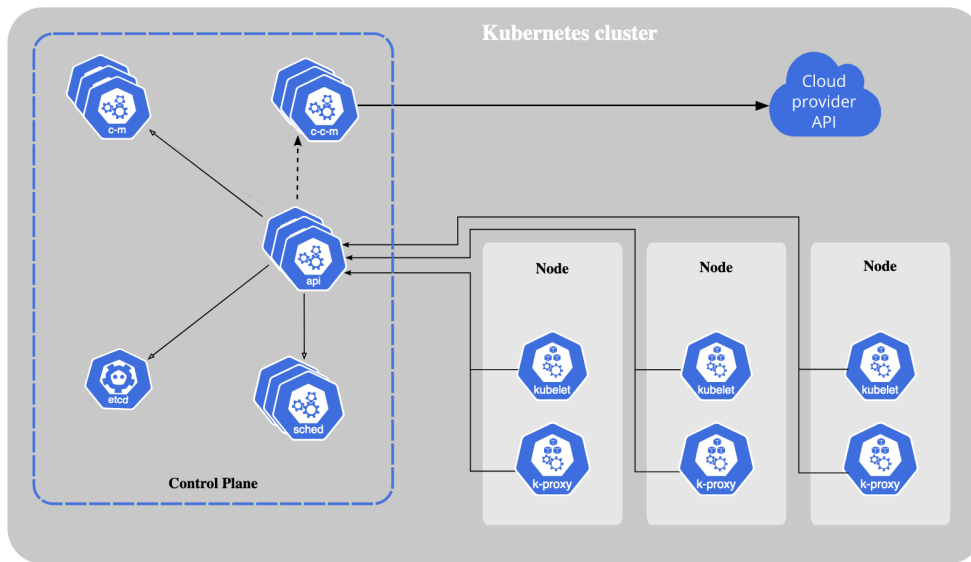
micro services orchestration

100 microservices

K8s Client

K8s master

K8s node



Opensource

Kubeadm

Kops

kubespray

Enterprise:

Eks

Aks

Gke

Openshift

Client

⇒ kubeconfig

Microservice

<https://github.com/qfitsolutions/k8s/blob/master/kubeadm-setup-ubuntu20>

<https://www.fosstechnix.com/how-to-install-kubernetes-cluster-on-ubuntu/>

<https://kubernetes.io/docs/concepts/cluster-administration/addons/>

```
kubectl run n1 --image=nginx --port=80
kubectl expose pod n1 --port=80 --target-port=80 --name=n1s
--type=NodePort
```

```
Kubectl create ns dev
kubectl run n1 --image=jenkins/jenkins:its --port=8080 -n dev
kubectl expose pod n1 --port=8080 --target-port=8080 --name=n1s
--type=NodePort -n dev
```

Yml

Pod

Service

Deploy

Cm

Volume

<https://kubernetes.io/docs/concepts/workloads/controllers/replicationcontroller/>

<https://github.com/qf-devops/k8s-microservices/tree/master/kubernetes>

Configmap

Persistent volume

Pvc

Storageclass

Job

Cronjob

Daemonset
Statefulset

Dashboard