

Day-6.

- Read the caption for installation guide of minikube and make sure minikube and kubectl are installed in the laptop.

- Run below Commands to Confirm:

minikube version.

kubectl version.

1) Info about pods.

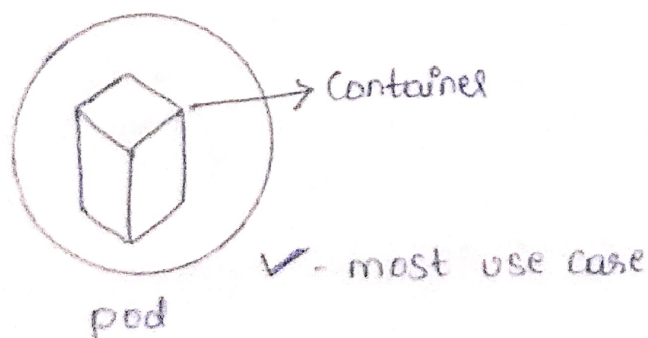
2) Basic kubectl commands.

3) Running a test pod and Accessing.

1) pod :-

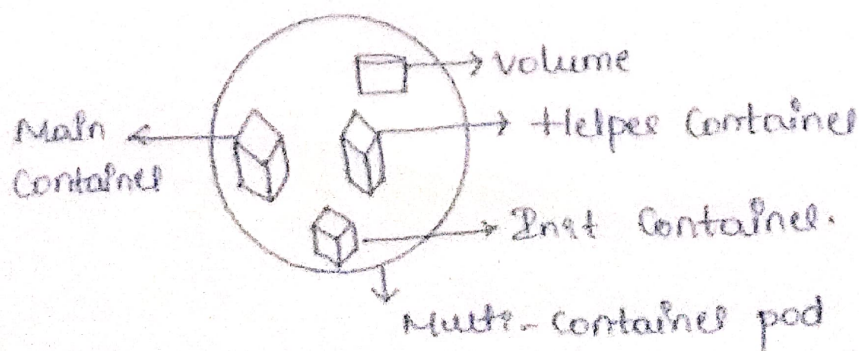
It is the basic unit of kubernetes cluster. pod represents a process running in the cluster.

- one pod - one container is the most common use-case.



- pod is an extra layer to container.

- kubernetes manages the pod rather than container.



- These containers are tightly-coupled.
- To avail hqg availability horizontal pod scaling.

2) Basic kubectl commands:

kubectl create -f <definition-file>.yaml

kubectl get pods.

kubectl get nodes

kubectl get svc

kubectl get all --all

kubectl get ns

kubectl describe pod <pod-name>

kubectl get pod <pod-name> -o yaml

kubectl get pod -o wide

kubectl logs <pod-name>

kubectl run <pod-name> --image=nginx

kubectl apply -f <updated-def-file>.yaml

Now follow the below steps to test minikube cluster.

1) Step 1 - Start minikube cluster.

2) create a deployment using below Command.

- `kubectl create deployment hello-minikube --image=kicbase/echo-servel:1.0`

- `kubectl expose deployment hello-minikube --type=Nodeport --port=8080`

Apply followed Command to expose nodeport to access URL.

`http:// <node-ip> : Nodeport`

3) To find the nodeport, run the below Command checkout the below Command.

- `kubectl describe SVC hello-minikube`

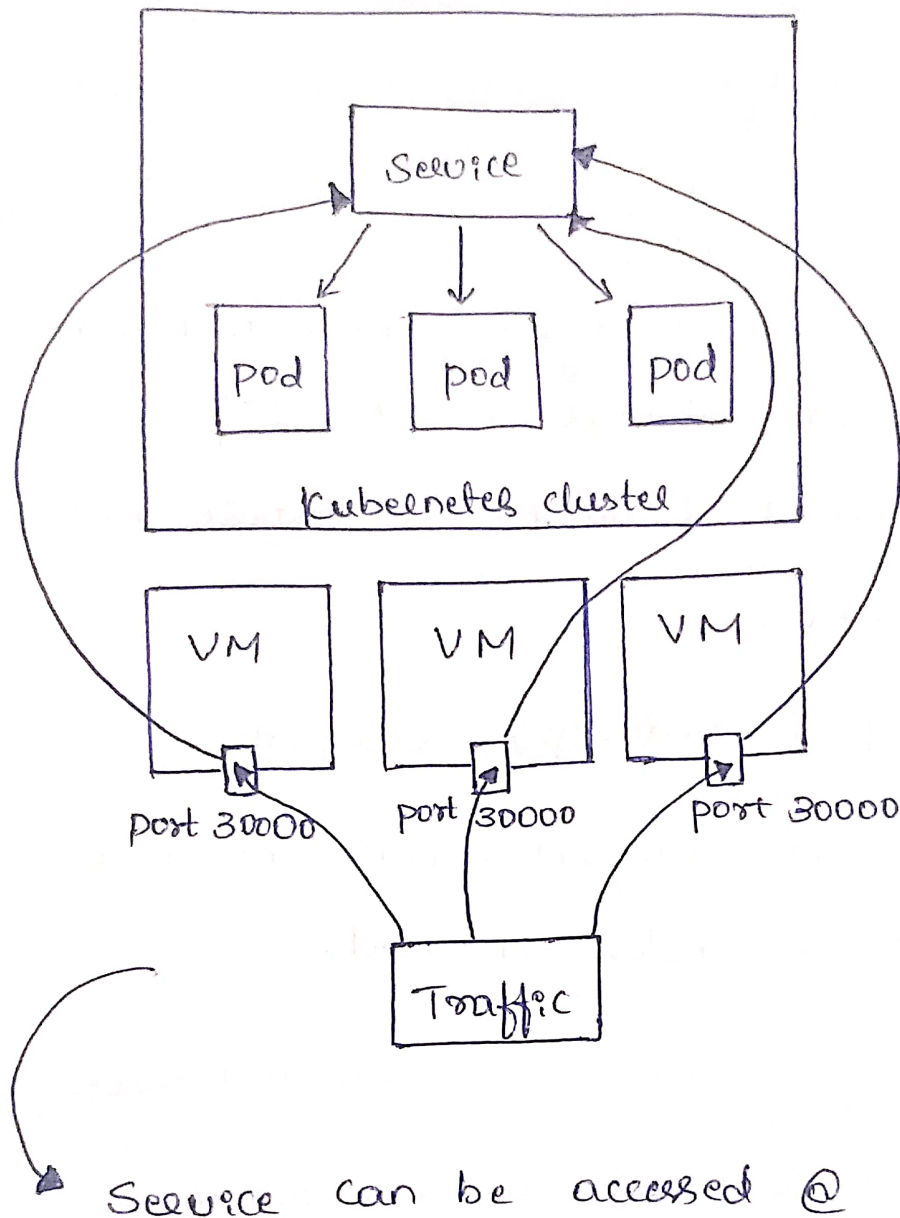
4) Now try to access the page using.

`http:// <node-ip> : Nodeport`

5) Validation is Successful now cleanup the all resource using below Command.

- `minikube delete -all`

- Nodeport Working:



⇒ Any NodeIp : 30000

This is similar to docker networking.
Nodeport is one of 3 Services of Kubernetes.