

## \* Write a first deployment :-

### ⇒ Terminal window :-

\$ sudo systemctl start docker

\$ docker ps

\$ minikube start

\$ kubectl get pods

\$ ls

\$ cd k8s-proj/ → change directory to k8s-proj

\$ touch deployment.yaml → create deployment.yaml file.

\$ code . → open VScode.

### ⇒ VS code window :-

→ ~~create~~ deployment.yaml is created.

→ write script.

1. apiVersion: apps/v1

17.

2 kind: Deployment

18.

3 metadata:

19.

4 name: nginx-deployment

5 spec:

6 selector:

7 matchLabels:

8 app: nginx-app

9 replicas: 2

10 template:

11 ~~metadata~~ metadata:

12 labels:

13 app: nginx-app

14 spec:

15 containers:

16 - name: nginx

17 image: nginx:1.14.2

image: nginx:1.14.2

ports:

- container  
port: 80

## → Terminal window :-

\$ kubectl apply -f deployment.yaml

\$ kubectl get pods

\$ kubectl describe pod

## → VS code window :-

→ create service.yaml file.

→ write script.

1 apiVersion: v1

2 kind: Service

3 metadata:

4     name: nginx-service

5 spec:

6     ~~node~~

7     type: NodePort

8     selector:

9         app: nginx-app

10     ports:

11         - protocol: TCP

12             port: 80

           targetPort: 80

Note: Nodeport will take by default b/w 30000 to 32767

## ⇒ Terminal window :-

\$ kubectl apply -f service.yaml

\$ kubectl get service

\$ kubectl get pod -o wide

\$ kubectl describe service

\$ minikube service nginx-~~app~~service

⇒ It will open web page - welcome nginx  
\$ It is successfully working.