TASK - 4:

Objective: Deploy simple web application in k8s and expose with NodePort service. (tools: k8s, ubuntu vm)

STEP 1: Check whether Kubernetes and Docker are installed in Ubuntu

- ❖ kubectl version --client
- minikube version
- docker –version

STEP 2: Start minikube

- minikube start --driver=docker
- The above command won't work if we are a root user so switch to normal user using exit command.

STEP 3: Create a Deployment named webapp using nginx image

kubectl create deployment webapp --image=nginx --port=80

STEP 4: Expose the Deployment as a NodePort Service

kubectl expose deployment webapp --type=NodePort --port=80 -target-port=80

STEP 5: Verify the Deployment

- kubectl get pod
- ❖ kubectl get svc

STEP 6: Access the Web Application

minikube service webapp

STEP 7: Monitor Pod and Logs

- watch kubectl get pod
- ❖ watch kubectl logs webapp-869b64d6d9f-fb5xx











