## **DEVOPS**

## **ASSIGNMENT 4**

## **STEPS:**

Step 1: Start Minikube minikube start --driver=docker --force Step 2: Create a
Deployment kubectl create deployment webapp --image=nginx --port=80 Step
3: Expose the Deployment as a Service kubectl expose deployment webapp --

type=NodePort --port=80 --target-port=80 Step 4: Verify the Running Pods

kubectl get pod

Step 5: Verify the Service kubectl

get svc

Step 6: Open the Service in a Web Browser

minikube service webapp Step 7: Test the

Service Using curl curl

http://192.168.49.2:31432 Step 8:

Continuously Monitor the Pods watch

kubectl get pod

Step 9: Continuously Monitor Pod Logs watch

kubectl logs webapp-869b646d9f-b4hgr

## **OUTPUT:**

```
pragalya@Pragalya: $ minikube start --driver=docker --force
minikube v1.35.0 on Ubuntu 22.04 (amd64)

| minikube skips various validations when --force is supplied; this may lead to unexpected behavior
| Using the docker driver based on existing profile
| Starting "minikube" primary control-plane node in "minikube" cluster
| Pulling base image v0.0.46 ...
| Updating the running docker "minikube" container ...
| Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...
| Verifying Kubernetes v1.32.0 on Docker 27.4.1 ...
| Verifying kubernetes components...
| Using image gcr.io/k8s-minikube/storage-provisioner:v5
| Enabled addons: storage-provisioner, default-storageclass
| Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default pragalya@Pragalya: $ minikube status
| minikube | type: Control Plane
  type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured
 pragalya@Pragalya: $ Kubectt Created
deployment.apps/webapp created
pragalya@Pragalya: $ kubectl get deployments
READY UP-TO-DATE AVAILABLE
             alya@Pragalya:-$ kubectl create deployment webapp --image=nginx --port=80
                                                                                                                                                            AGE
                                                                          2/2
0/1
                                                                                                                                                              9m28s
11s
  react-ecommerce-deployment
                                                                                                                                2
0
  webapp
                  ya@Pragalya:-$ kubectl get deployments
READY UP-TO-DATE
                                                                                                                                AVAILABLE
                                                                       2/2
1/1
  react-ecommerce-deployment
webapp
                                                                                                                                                               10m
     ragalya@Pragalya:~$ kubectl get pods
  NAME
                                                                                                                     READY
                                                                                                                                          STATUS
                                                                                                                                                                   RESTARTS
  react-ecommerce-deployment-845959cf77-8dww8 1/1 Running 1 (6m47s ago) 12m
react-ecommerce-deployment-845959cf77-f28hs 1/1 Running 1 (6m47s ago) 12m
webapp-869b646d9f-5rfbj 1/1 Running 0 3m31s
pragalya@Pragalya: $ kubectl expose deployment webapp --type=NodePort --port=80 --target-port=80
service/webapp exposed
      ragalya@Pragalya:~$ kubectl get svc
                                                                                                      👯 Q Search 🥢 🔎 🕠 🐧 📜 🧖 🗓 🥰 💆 🔀
```



