TASK 3

KUBERNETES

Step 1: Install minikube for linux from its official website.

Use commands like,

 $curl\ -LO\ https://github.com/kubernetes/minikube/releases/latest/download/minikube-linux-amd 64$

sudo install minikube-linux-amd64 /usr/local/bin/minikube && rm minikube-linux-amd64

to install minikube in Ubuntu.

```
PS C:\WINDOWS\system32 wsl

PS C:\WINDOWS\system32 vsl

PS
```

Step 2: Start minikube and deploy docker hub image in pod.

```
sree_ubuntu@Sree:-$ kubectl version --client

Client Version: v1.30.2

Kustomize Version: v5.0.4-0.20230601165947-6ce0bf390ce3

sree_ubuntu@Sree:-$ kubectl create deployment kube-first --image=sreevadhani/ar --port 80

deployment.apps/kube-first created

sree_ubuntu@Sree:-$ kubectl get pods

NAME

READY STATUS RESTARTS AGE

kube-first-5b5fc7f47c-7wwp2 1/1 Running 0 53s
```

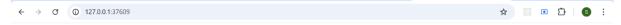
Step 3: Expose the pod to the slave node

```
sree_ubuntu@Sree:-$ kubectl expose deployment kube-first --type=NodePort --port=80
service/kube-first exposed
sree_ubuntu@Sree:-$ kubectl get svc
NAMME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
kube-first NodePort 10.105.110.224 <none> 80:30953/TCP 22s
kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 35m
```

Step 4: Tunneling the service



Step 5: Check whether it is running



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