You have just joined a startup Ventura Software as a DevOps Lead Engineer. The company relies on a monolithic architecture for its products. Recently, the senior management was hired. The new CTO insists on having a microservice architecture. The development team is working on breaking the monolith. Meanwhile, you have been asked to host a test application on Kubernetes to understand how it works. Following things have to be implemented:

1. Deploy an Apache2 deployment of 2 replicas

2. Sample code has been checked-in at the following GitHub repo: https://github.com/hshar/website.git You have to containerize this code, and push it to Docker Hub. Once done, deploy it on Kubernetes with 2 replicas.

sudo apt update

sudo nano a.sh

bash a.sh

minikube status

kubect1 get nodes

history

git clone https://github.com/hshar/website.git

ls

cd website/

ls

sudo nano Dockerfile

sudo docker build . -t anusha2k1/k8case15

sudo docker images

sudo docker login

sudo docker push anusha2k1/k8case15

history

git clone https://github.com/hshar/website.git

ls

cd website/

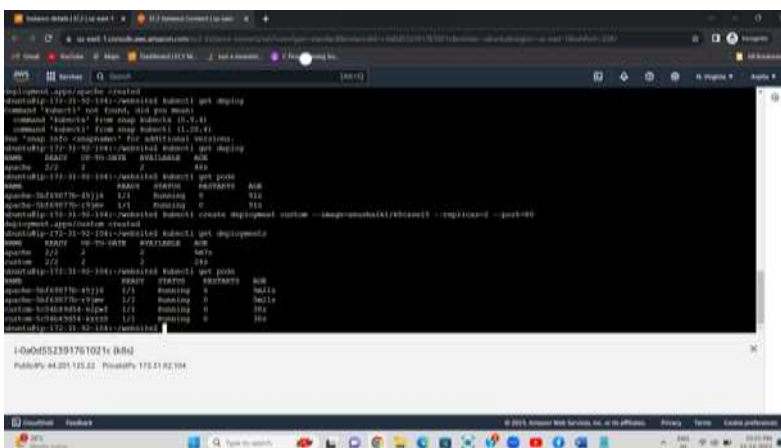kubectl create deployment apache --image=ubuntu/apache2 --replicas=2 --port=80

kubectl get deploy

kubectl get pods
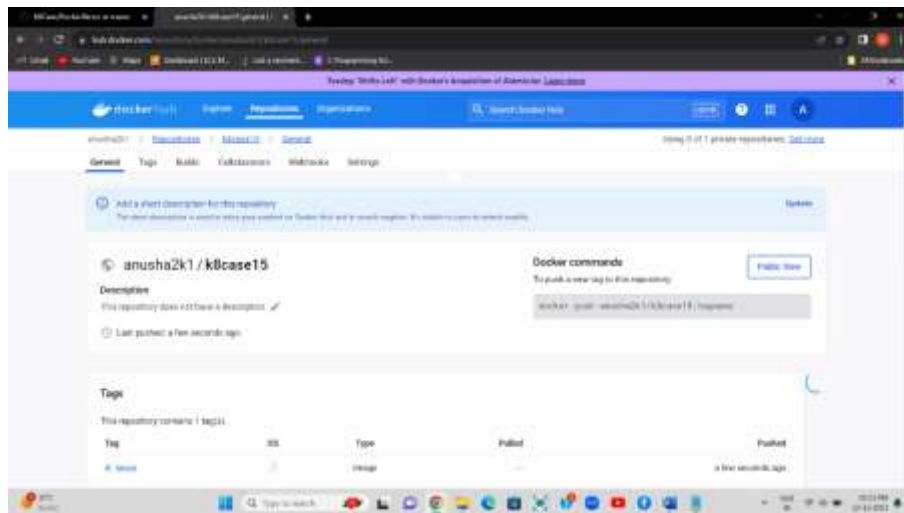
kubectl create deployment custom --image=anusha2k1/k8case15 --replicas=2 --port=80

kubectl get deployments

kubectl get pods

history

kubect1 get svc

kubectl get svc

kubectl get deploy

kubectl expose deploy apache --type=NodePort

kubectl get svc

kubectl expose deploy custom --type=NodePort

kubectl get svc

kubectl get svc -o wide

sudo nano ingress.yaml

rm -r ingress.yaml

sudo nano ingress.yaml

ls

kubectl create -f ingress.yaml

kubectl get ing

history

3. Deploy ingress with the following rules:

a. */apache* should point to the Apache pods

b. */custom* should point to the github application

Hello world!