

DEVOPS TASK 3

Step 1 : Install ubuntu wsl in windows as the virtual box is slow.

Step 2 : Install docker, kubernetes, jenkins in wsl shell.

Step 3 : In ubuntu , clone this repository using git clone <url> ,
url: <https://github.com/Jervinjeno/E-Commerce.git>

Step 4 : Execute the below commands.

```
root@AnusriCSD: /home/anusri/E-Commerce
-> [internal] load metadata for docker.io/library/nginx:latest 2.2s
-> [internal] load dockerignore 0.0s
-> => transferring context: 2B 0.0s
-> [internal] load build context 0.0s
-> => transferring context: 837B 0.0s
-> [1/2] FROM docker.io/library/nginx:latest@sha256:124b44bfc9ccd1f3ce 0.0s
-> CACHED [2/2] COPY build/ /usr/share/nginx/html 0.0s
-> exporting to image 0.0s
-> => exporting layers 0.0s
-> => writing image sha256:a492a6831b1d4b19222bb4a84428a69ef26a9c245348 0.0s
-> => naming to docker.io/library/e-commerce:latest 0.0s
root@AnusriCSD: /home/anusri/E-Commerce# kubectl apply -f deployment.yml
deployment.apps/react-e-commerce-deployment created
root@AnusriCSD: /home/anusri/E-Commerce# kubectl get deployments
NAME READY UP-TO-DATE AVAILABLE AGE
react-e-commerce-deployment 0/2 2 0 23s
root@AnusriCSD: /home/anusri/E-Commerce# kubectl get pods
NAME READY STATUS RESTARTS AGE
react-e-commerce-deployment-849768b4c6-wz7wr 0/1 ErrImageNeverPull 0 99s
react-e-commerce-deployment-849768b4c6-x25qv 0/1 ErrImageNeverPull 0 99s
root@AnusriCSD: /home/anusri/E-Commerce# minikube image load e-commerce:latest
root@AnusriCSD: /home/anusri/E-Commerce# kubectl get pods
NAME READY STATUS RESTARTS AGE
react-e-commerce-deployment-849768b4c6-wz7wr 1/1 Running 0 3m5s
react-e-commerce-deployment-849768b4c6-x25qv 1/1 Running 0 3m5s
root@AnusriCSD: /home/anusri/E-Commerce# minikube image load e-commerce:latest
root@AnusriCSD: /home/anusri/E-Commerce# kubectl apply -f deployment.yml
deployment.apps/react-e-commerce-deployment unchanged
root@AnusriCSD: /home/anusri/E-Commerce# kubectl get pods
NAME READY STATUS RESTARTS AGE
react-e-commerce-deployment-849768b4c6-wz7wr 1/1 Running 0 4m53s
react-e-commerce-deployment-849768b4c6-x25qv 1/1 Running 0 4m53s
root@AnusriCSD: /home/anusri/E-Commerce# minikube service react-e-commerce-service
B Exiting due to SVC_NOT_FOUND: Service 'react-e-commerce-service' was not found in 'default' namespace.
You may select another namespace by using 'minikube service react-e-commerce-service -n <namespace>'. Or list out all the services using 'minikube service list'
root@AnusriCSD: /home/anusri/E-Commerce# kubectl apply -f Nodeport.yml
service/react-e-commerce-service created
root@AnusriCSD: /home/anusri/E-Commerce# minikube service react-e-commerce-service
|-----|
root@AnusriCSD: /home/anusri/E-Commerce#
```

```
root@AnusriCSD: /home/anusri/E-Commerce
68 curl -s https://packages.cloud.google.com/apt/doc/apt-key.gpg | sudo apt-key add
69 echo "deb https://apt.kubernetes.io/ kubernetes-xenial main" | sudo tee /etc/apt/sources.list.d/kubernetes.list
70 sudo snap install kubectl --classic
71 kubectl version --client
72 minikube version
73 curl -LO https://storage.googleapis.com/minikube/releases/latest/minikube-linux-amd64
74 sudo install minikube-linux-amd64 /usr/local/bin/minikube
75 minikube version
76 minikube start --driver=docker
77 minikube start --driver=docker --force
78 minikube status
79 kubectl cluster-info
80 cd E-Commerce
81 ls
82 ls /
83 find / -type d -name "etc" 2>/dev/null
84 find / -type d -name "E-Commerce" 2>/dev/null
85 cd anusri
86 history
87 cd /home/anusri/E-Commerce
88 ls
89 cd Dockerfile
90 cat Dockerfile
91 docker build -t e-commerce:latest .
92 kubectl apply -f deployment.yml
93 kubectl get deployments
94 kubectl get pods
95 minikube image load e-commerce:latest
96 kubectl get pods
97 minikube image load e-commerce:latest
98 kubectl apply -f deployment.yml
99 kubectl get pods
100 minikube service react-e-commerce-service
101 kubectl apply -f Nodeport.yml
102 minikube service react-e-commerce-service
103 minikube services react-e-commerce-service
104 minikube services react-e-commerce-service
105 curl http://192.168.49.2:30007
106 HISTORY
107 history
root@AnusriCSD: /home/anusri/E-Commerce#
```

Step 5: Since I am working in wsl shell, I was not able to open the website , instead I got the code in the terminal.

```
root@AnusriCSD: /home/anusri/E-Commerce
root@AnusriCSD:/home/anusri/E-Commerce# kubectl get pods
NAME                                READY    STATUS    RESTARTS   AGE
react-ecommerce-deployment-849768b4c6-vz7wr    1/1      Running   0           4m53s
react-ecommerce-deployment-849768b4c6-x25qy    1/1      Running   0           4m53s
root@AnusriCSD:/home/anusri/E-Commerce# minikube service react-ecommerce-service

⚠ Exiting due to SVC_NOT_FOUND: Service 'react-ecommerce-service' was not found in 'default' namespace.
You may select another namespace by using 'minikube service react-ecommerce-service -n <namespace>'. Or list out all the services using 'minikube service list'

root@AnusriCSD:/home/anusri/E-Commerce# kubectl apply -f Nodeport.yaml
service/react-ecommerce-service created
root@AnusriCSD:/home/anusri/E-Commerce# minikube service react-ecommerce-service
-----
| NAMESPACE | NAME           | TARGET PORT | URL                               |
|-----|-----|-----|-----|
| default   | react-ecommerce-service | 80          | http://192.168.49.2:30007       |
|-----|-----|-----|-----|
⚠ Opening service default/react-ecommerce-service in default browser...
⚠ http://192.168.49.2:30007
root@AnusriCSD:/home/anusri/E-Commerce# minikube services react-ecommerce-service
Command 'minikube' not found, did you mean:
  command 'minitube' from deb minitube (3.9.3-2)
Try: apt install <deb name>
root@AnusriCSD:/home/anusri/E-Commerce# minikube services react-ecommerce-service
Error: unknown command "services" for "minikube"

Did you mean this?
  service

Run 'minikube --help' for usage.
root@AnusriCSD:/home/anusri/E-Commerce# curl http://192.168.49.2:30007
<!doctype html><html lang="en"><head><meta charset="utf-8"><link rel="icon" href="/favicon.ico"><meta name="viewport" content="width=device-width,initial-scale=1"><meta
name="theme-color" content="#000000"><meta name="description" content="Web site created using create-react-app"><link rel="apple-touch-icon" href="/logo192.png"><link re
l="manifest" href="/manifest.json"><link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-16m4k6h781VhF1
dVukh7PAu5d641948WF32b0C8Sutobog2lQ26jD3" crossorigin="anonymous"><link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.6.5/font/bootstrap-ic
ons.css"><title>React App</title><script defer="defer" src="/static/js/main.f1c48542.js"></script><link href="/static/css/main.cf5c13c5.css" rel="stylesheet"></head><body><
root@AnusriCSD:/home/anusri/E-Commerce#
```