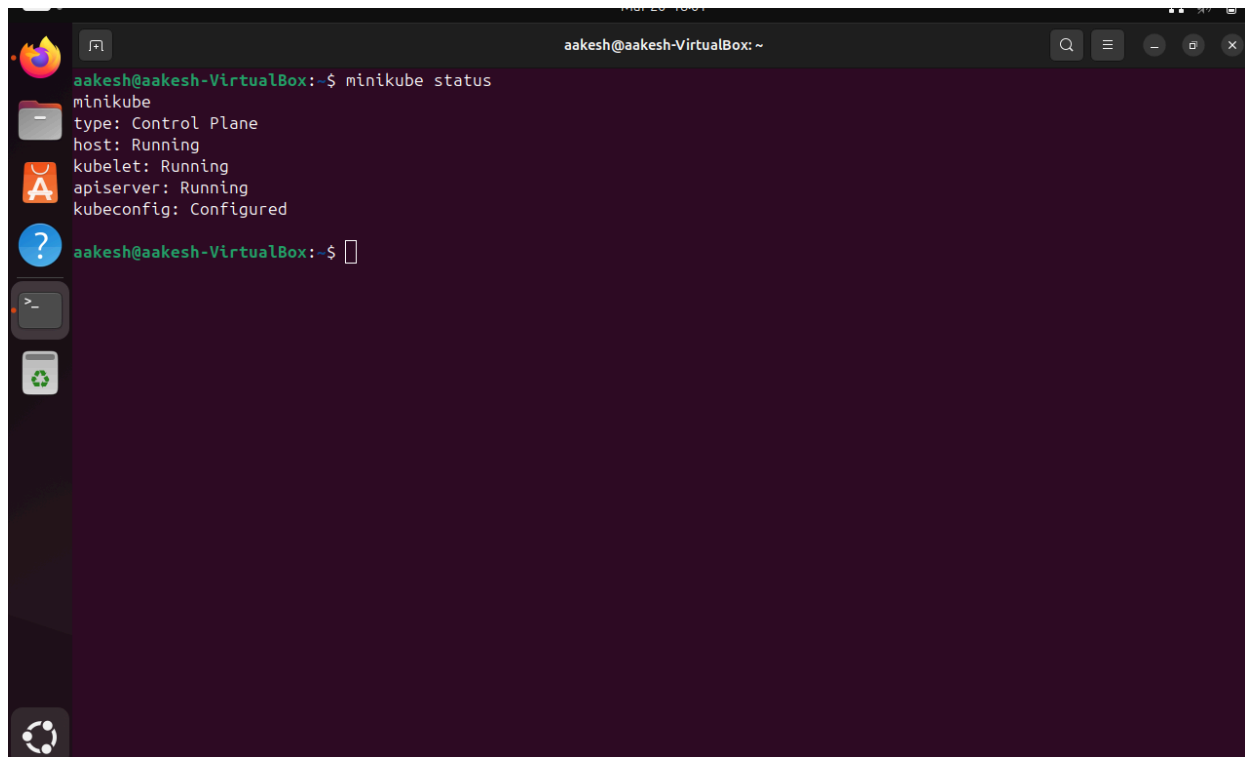


Installed Minikube for using kubernetes:

A terminal window titled 'aakesh@aakesh-VirtualBox: ~' with standard window controls. The terminal shows the command 'minikube status' and its output. On the left side of the terminal, there is a vertical sidebar with several icons: a terminal icon, a folder icon, an application icon, a question mark icon, a terminal icon, and a refresh icon. The output of the command is as follows:

```
aakesh@aakesh-VirtualBox:~$ minikube status
minikube
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured
aakesh@aakesh-VirtualBox:~$
```

Deployment.yml for react ecoommerce application:

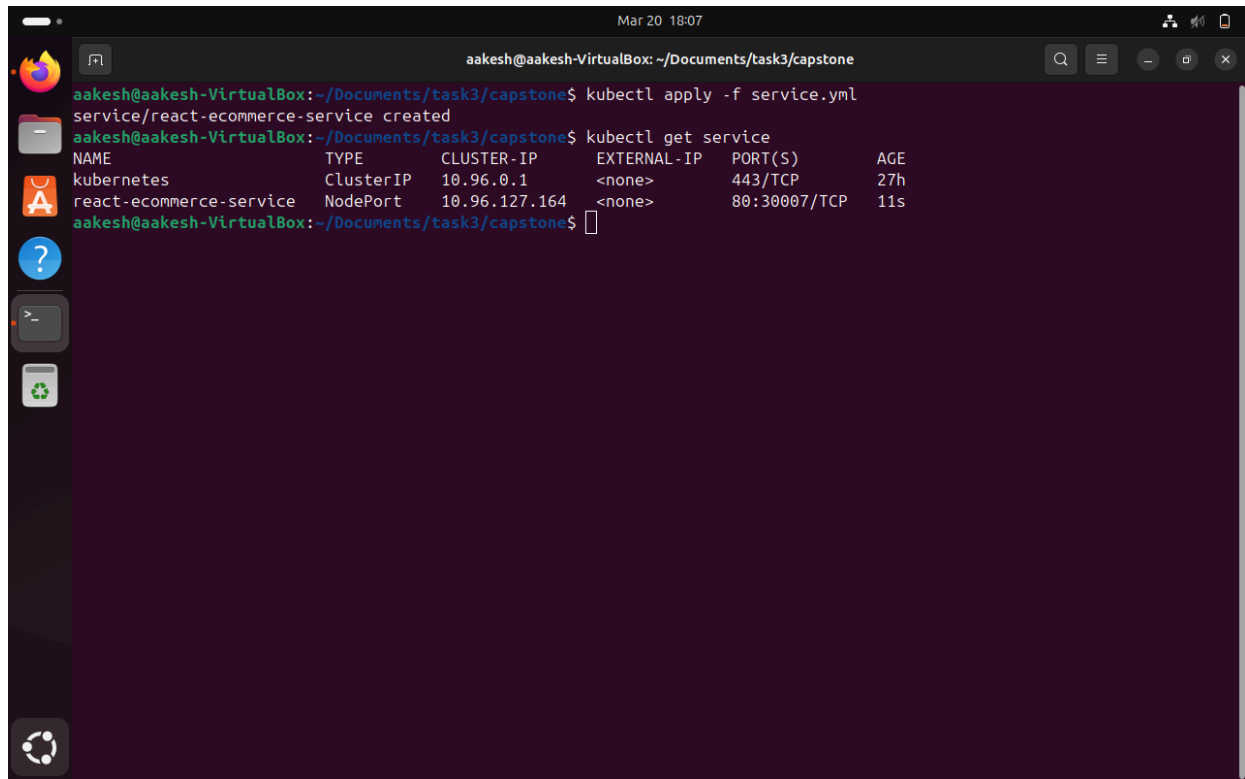
```
Mar 20 18:04
aakesh@aakesh-VirtualBox: ~/Documents/task3/capstone
aakesh@aakesh-VirtualBox:~/Documents/task3/capstone$ cat deployment.yml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: react-ecommerce-deployment
  labels:
    app: react-ecommerce
spec:
  replicas: 2
  selector:
    matchLabels:
      app: react-ecommerce
  template:
    metadata:
      labels:
        app: react-ecommerce
    spec:
      containers:
        - name: react-ecommerce1
          image: aakeshraj/ecommerce:latest
          ports:
            - containerPort: 80

aakesh@aakesh-VirtualBox:~/Documents/task3/capstone$
```

Created deployment and checked for pods:

```
Mar 20 18:05
aakesh@aakesh-VirtualBox: ~/Documents/task3/capstone
aakesh@aakesh-VirtualBox:~/Documents/task3/capstone$ kubectl get deployment
NAME                                READY  UP-TO-DATE  AVAILABLE  AGE
react-ecommerce-deployment         2/2    2            2           29s
aakesh@aakesh-VirtualBox:~/Documents/task3/capstone$ kubectl get pod
NAME                                READY  STATUS      RESTARTS  AGE
react-ecommerce-deployment-b584d7d4c-kp2xv  1/1    Running    0          38s
react-ecommerce-deployment-b584d7d4c-vvl2t  1/1    Running    0          38s
aakesh@aakesh-VirtualBox:~/Documents/task3/capstone$
```

Created service and exposed the port:



The image shows a terminal window titled "aakesh@aakesh-VirtualBox: ~/Documents/task3/capstone" with a timestamp of "Mar 20 18:07". The terminal displays the following commands and output:

```
aakesh@aakesh-VirtualBox:~/Documents/task3/capstone$ kubectl apply -f service.yml
service/react-ecommerce-service created
aakesh@aakesh-VirtualBox:~/Documents/task3/capstone$ kubectl get service
```

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
kubernetes	ClusterIP	10.96.0.1	<none>	443/TCP	27h
react-ecommerce-service	NodePort	10.96.127.164	<none>	80:30007/TCP	11s

```
aakesh@aakesh-VirtualBox:~/Documents/task3/capstone$
```

Checked for the deployment and it is running:

```
Mar 20 18:09
aakesh@aakesh-VirtualBox: ~/Documents/task3/capstone

aakesh@aakesh-VirtualBox:~/Documents/task3/capstone$ kubectl apply -f service.yml
service/react-ecommerce-service created
aakesh@aakesh-VirtualBox:~/Documents/task3/capstone$ kubectl get service
NAME                TYPE        CLUSTER-IP    EXTERNAL-IP    PORT(S)          AGE
kubernetes           ClusterIP   10.96.0.1     <none>         443/TCP          27h
react-ecommerce-service NodePort    10.96.127.164 <none>         80:30007/TCP    11s
aakesh@aakesh-VirtualBox:~/Documents/task3/capstone$ minikube ip
192.168.49.2
aakesh@aakesh-VirtualBox:~/Documents/task3/capstone$ curl 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" conte
nt="Web site created using create-react-app"/><link rel="apple-touch-icon" href="/logo192.png"/><link rel="manifest" hre
f="/manifest.json"/><link href="https://cdn.jsdelivrivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet
" integrity="sha384-1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3" crossorigin="anonymous"><link rel=
"stylesheet" href="https://cdn.jsdelivrivr.net/npm/bootstrap-icons@1.10.5/font/bootstrap-icons.css"><title>React App</title
><script defer="defer" src="/static/js/main.f1c48542.js"></script><link href="/static/css/main.cf5c13c5.css" rel="styles
heet"></head><body><noscript>You need to enable JavaScript to run this app.</noscript><div id="root"></div></body></html>
aakesh@aakesh-VirtualBox:~/Documents/task3/capstone$
```