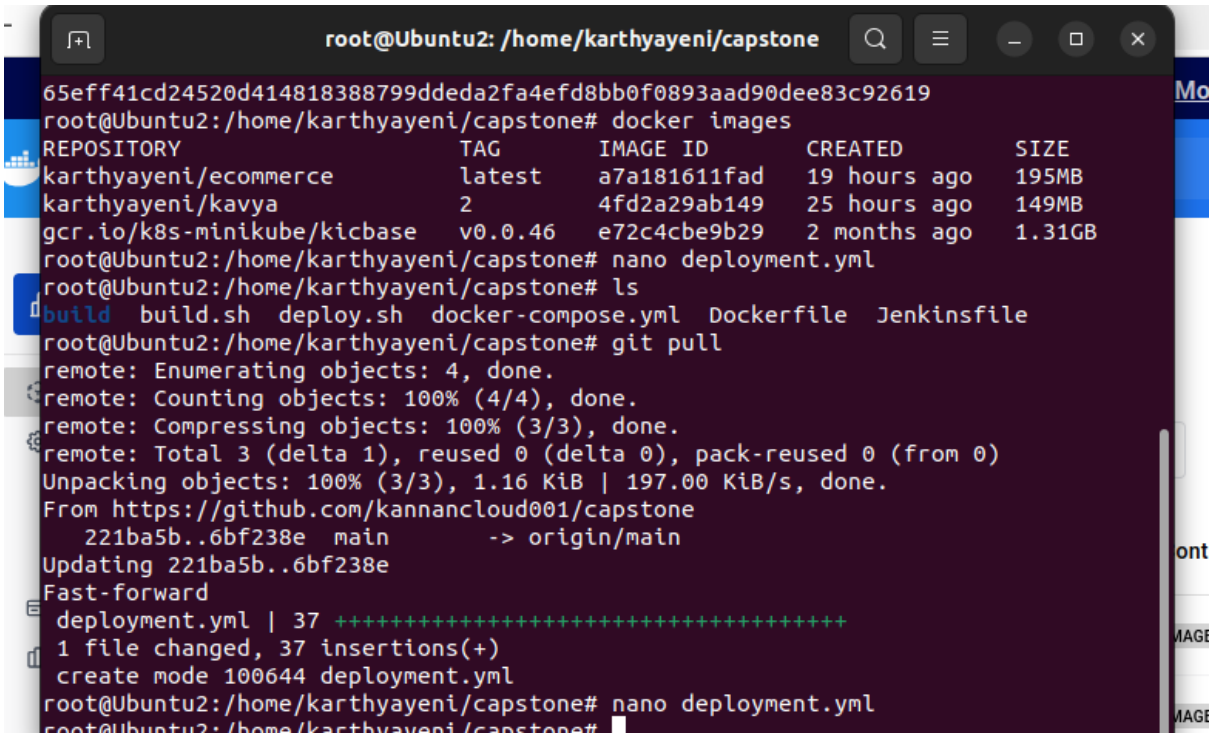
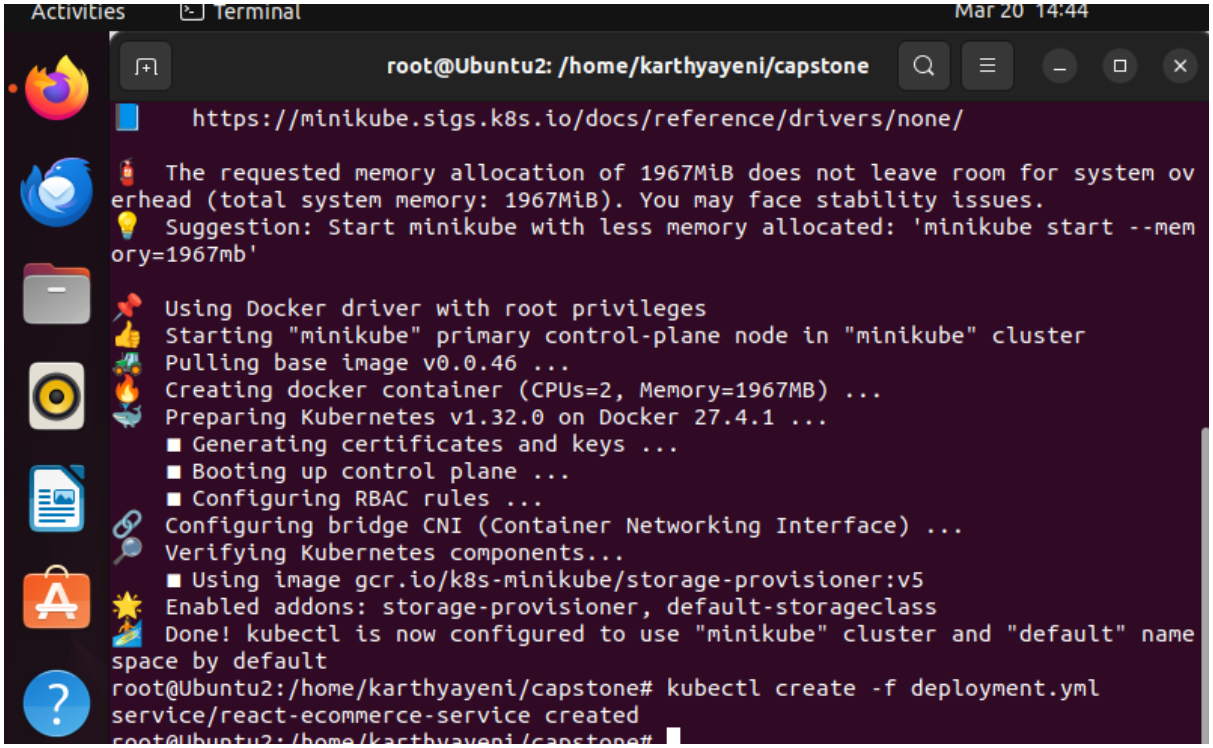
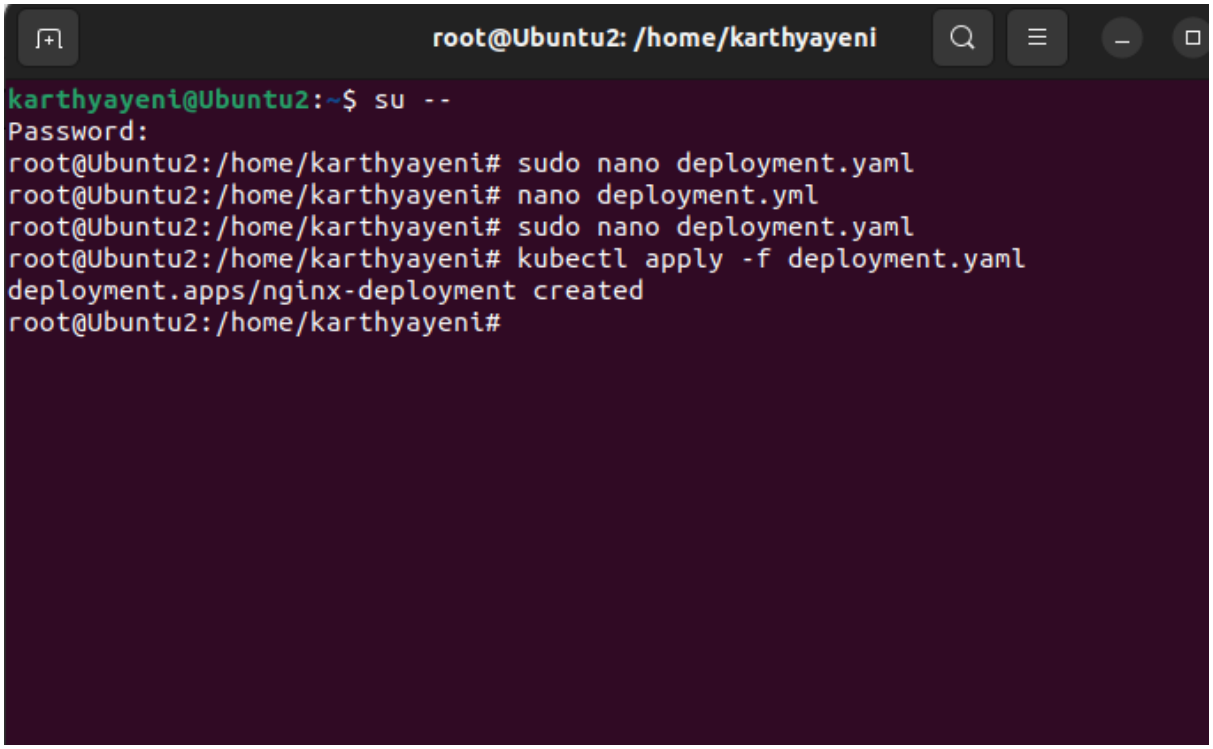
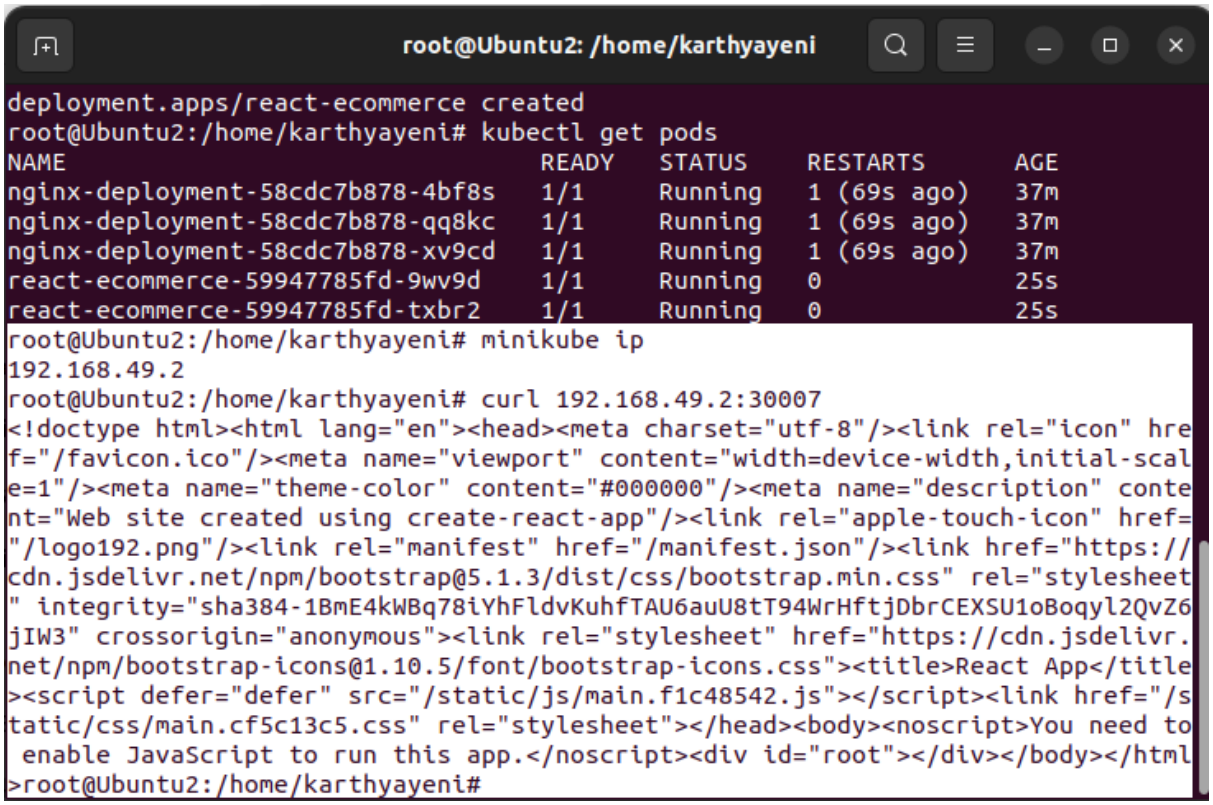
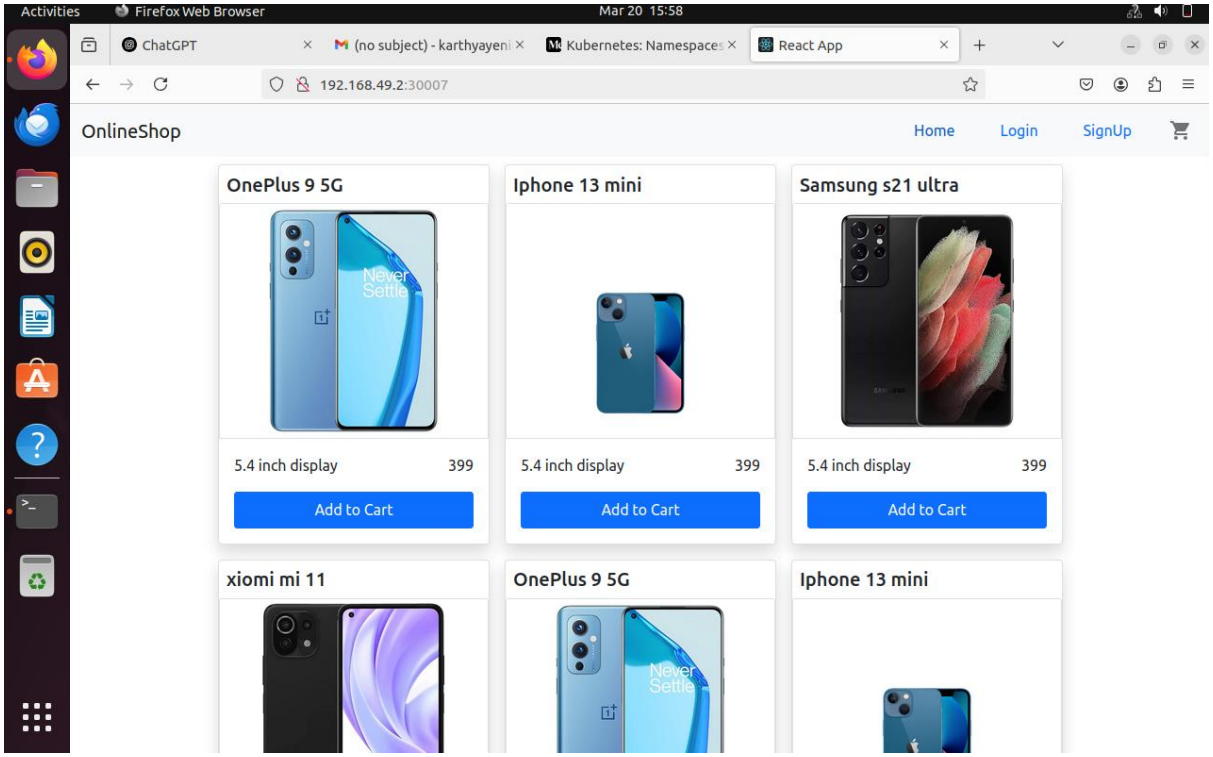
DEVOPS TASK – 4



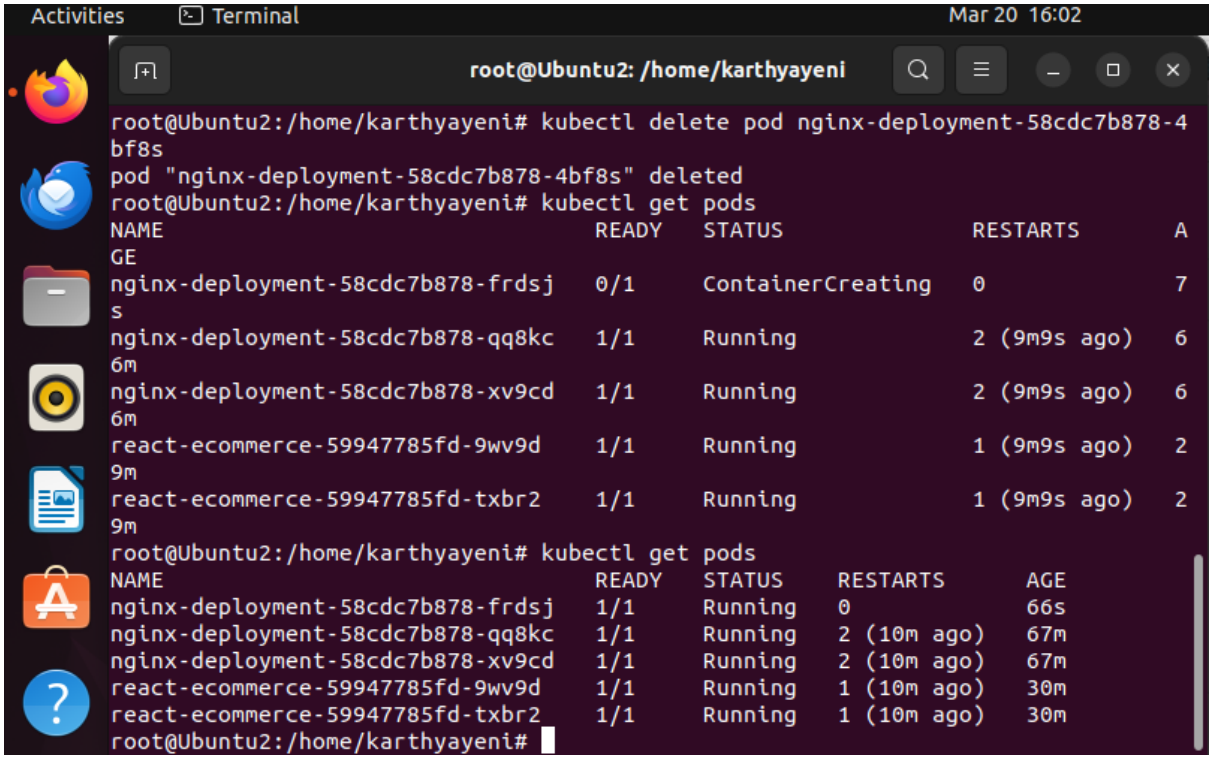


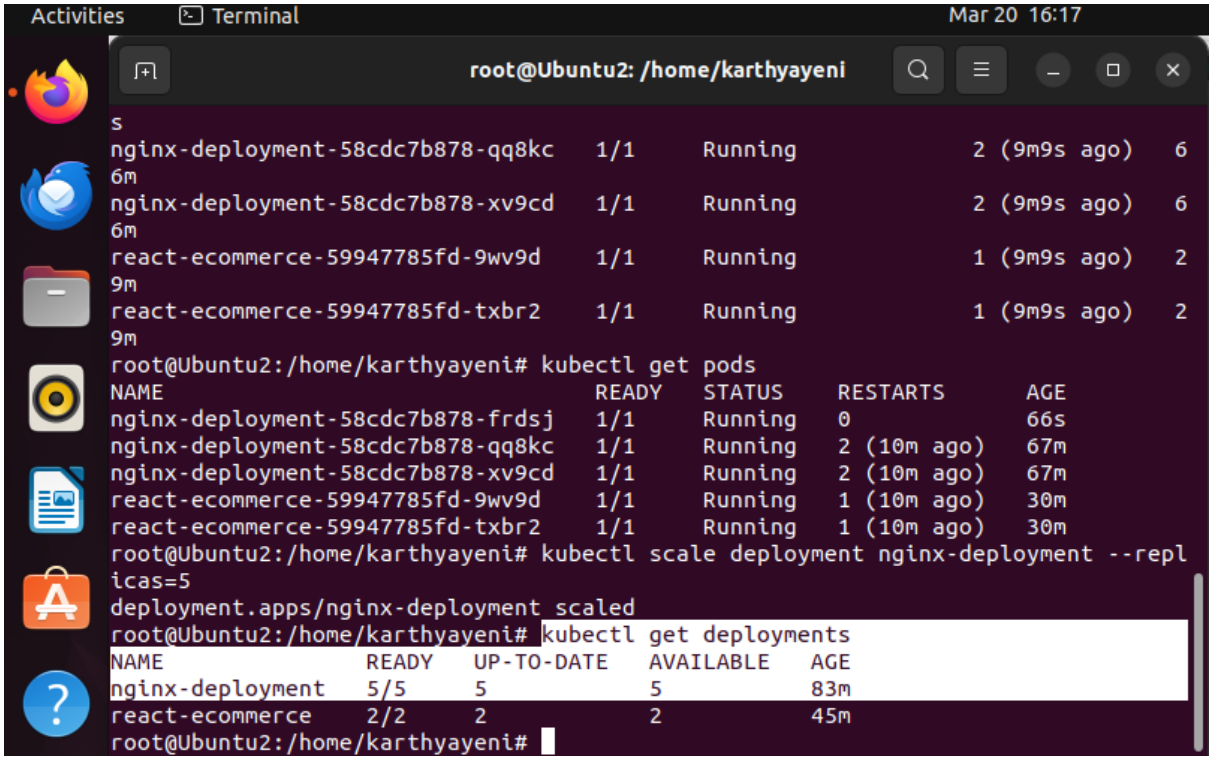

root@Ubuntu2: /home/karthyayeni
karthyayeni@Ubuntu2:~$ su --
Password:
root@Ubuntu2:/home/karthyayeni# sudo nano deployment.yaml
root@Ubuntu2:/home/karthyayeni# nano deployment.yml
root@Ubuntu2:/home/karthyayeni# sudo nano deployment.yaml
root@Ubuntu2:/home/karthyayeni# kubectl apply -f deployment.yaml
deployment.apps/nginx-deployment created
root@Ubuntu2:/home/karthyayeni#

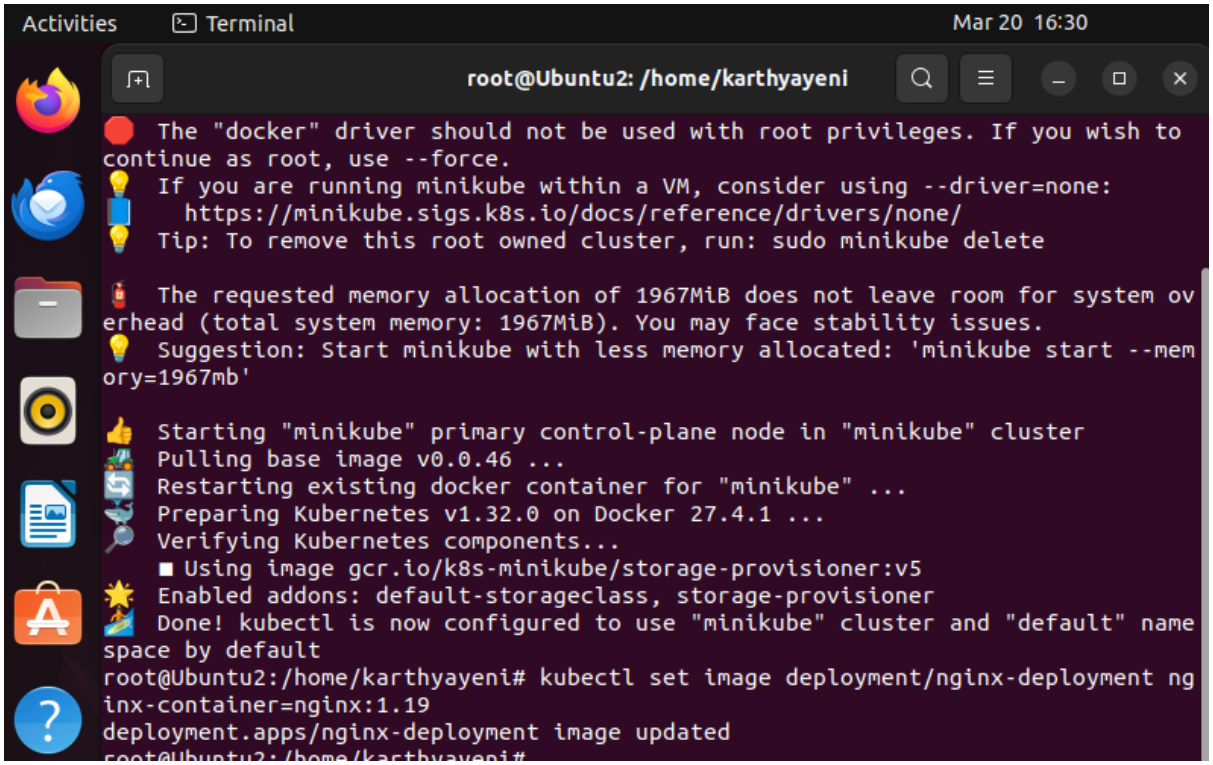

root@Ubuntu2: /home/karthyayeni
deployment.apps/react-ecommerce created
root@Ubuntu2:/home/karthyayeni# kubectl get pods
NAME READY STATUS RESTARTS AGE
nginx-deployment-58cdc7b878-4bf8s 1/1 Running 1 (69s ago) 37m
nginx-deployment-58cdc7b878-qq8kc 1/1 Running 1 (69s ago) 37m
nginx-deployment-58cdc7b878-xv9cd 1/1 Running 1 (69s ago) 37m
react-ecommerce-59947785fd-9wv9d 1/1 Running 0 25s
react-ecommerce-59947785fd-txbr2 1/1 Running 0 25s
root@Ubuntu2:/home/karthyayeni# minikube ip
192.168.49.2
root@Ubuntu2:/home/karthyayeni# curl 192.168.49.2:30007
<!doctype html><html lang="en"><head><meta charset="utf-8"/><link rel="icon" hre
f="/favicon.ico"/><meta name="viewport" content="width=device-width,initial-scal
e=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" href="/manifest.json"/><link href="https://
cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet
" integrity="sha384-1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6
jIW3" crossorigin="anonymous"><link rel="stylesheet" href="https://cdn.jsdelivr.
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="/s
tatic/css/main.cf5c13c5.css" rel="stylesheet"></head><body><noscript>You need to
enable JavaScript to run this app.</noscript> </body></html
>root@Ubuntu2:/home/karthyayeni#

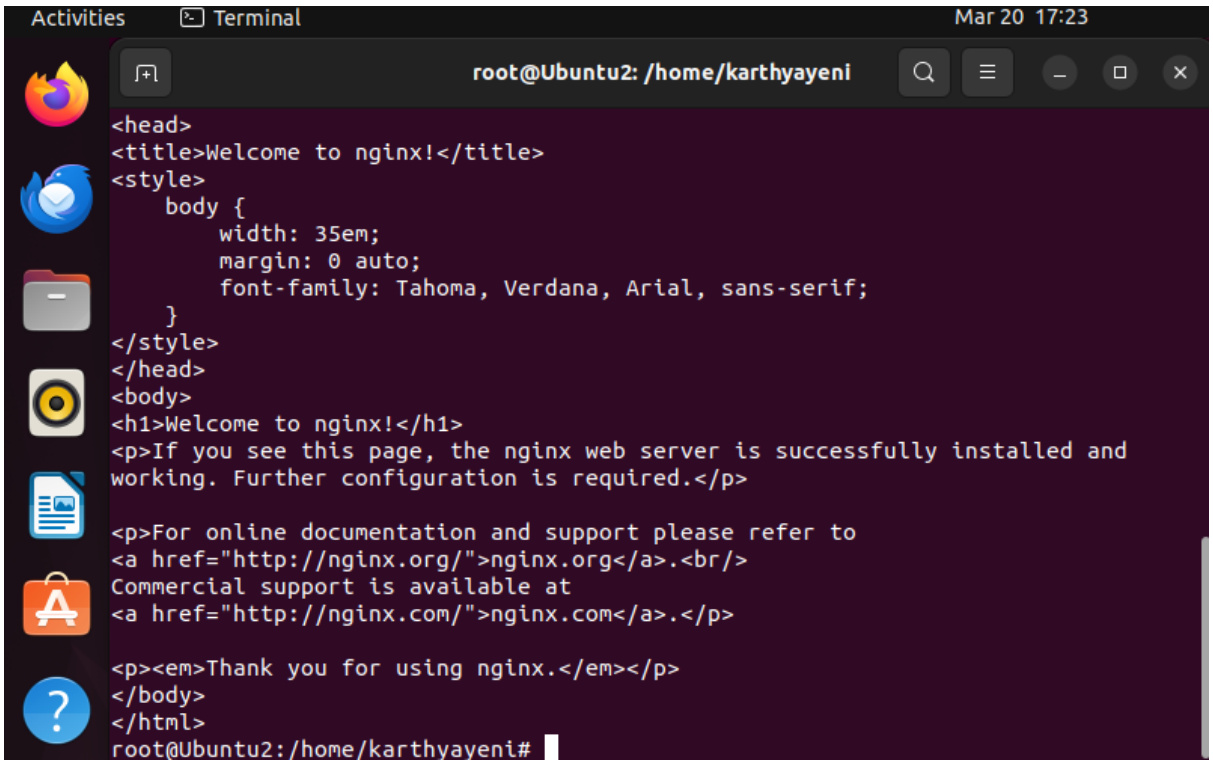


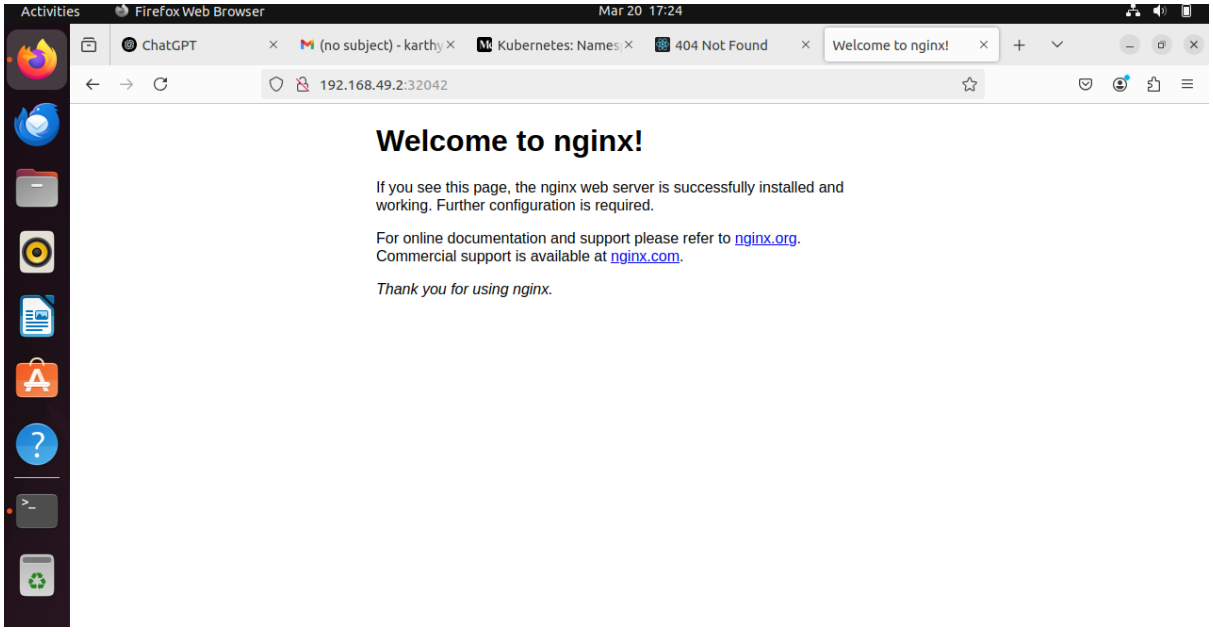

```
root@Ubuntu2: /home/karthyayeni
erhead (total system memory: 1967MiB). You may face stability issues.
💡  Suggestion: Start minikube with less memory allocated: 'minikube start --mem
ory=1967mb'

👍  Starting "minikube" primary control-plane node in "minikube" cluster
🚜  Pulling base image v0.0.46 ...
🔄  Restarting existing docker container for "minikube" ...
🐳  Preparing 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" name
space by default
root@Ubuntu2:/home/karthyayeni# kubectl create deployment react-ecommerce --imag
e=karthyayeni/ecommerce:latest --replicas=2
deployment.apps/react-ecommerce created
root@Ubuntu2:/home/karthyayeni# kubectl get pods
NAME                                READY   STATUS    RESTARTS      AGE
nginx-deployment-58cdc7b878-4bf8s   1/1     Running   1 (69s ago)   37m
nginx-deployment-58cdc7b878-qq8kc   1/1     Running   1 (69s ago)   37m
nginx-deployment-58cdc7b878-xv9cd   1/1     Running   1 (69s ago)   37m
react-ecommerce-59947785fd-9wv9d    1/1     Running   0             25s
react-ecommerce-59947785fd-txbr2    1/1     Running   0             25s
root@Ubuntu2:/home/karthyayeni#
```


Activities
Terminal
Mar 20 16:02
root@Ubuntu2: /home/karthyayeni
root@Ubuntu2:/home/karthyayeni# kubectl delete pod nginx-deployment-58cdc7b878-4bf8s
pod "nginx-deployment-58cdc7b878-4bf8s" deleted
root@Ubuntu2:/home/karthyayeni# kubectl get pods
NAME READY STATUS RESTARTS AGE
nginx-deployment-58cdc7b878-frdsj 0/1 ContainerCreating 0 7s
nginx-deployment-58cdc7b878-qq8kc 1/1 Running 2 (9m9s ago) 66m
nginx-deployment-58cdc7b878-xv9cd 1/1 Running 2 (9m9s ago) 66m
react-ecommerce-59947785fd-9wv9d 1/1 Running 1 (9m9s ago) 29m
react-ecommerce-59947785fd-txbr2 1/1 Running 1 (9m9s ago) 29m
root@Ubuntu2:/home/karthyayeni# kubectl get pods
NAME READY STATUS RESTARTS AGE
nginx-deployment-58cdc7b878-frdsj 1/1 Running 0 66s
nginx-deployment-58cdc7b878-qq8kc 1/1 Running 2 (10m ago) 67m
nginx-deployment-58cdc7b878-xv9cd 1/1 Running 2 (10m ago) 67m
react-ecommerce-59947785fd-9wv9d 1/1 Running 1 (10m ago) 30m
react-ecommerce-59947785fd-txbr2 1/1 Running 1 (10m ago) 30m
root@Ubuntu2:/home/karthyayeni#


Activities
Terminal
Mar 20 16:17
root@Ubuntu2: /home/karthyayeni
s
nginx-deployment-58cdc7b878-qq8kc 1/1 Running 2 (9m9s ago) 66m
nginx-deployment-58cdc7b878-xv9cd 1/1 Running 2 (9m9s ago) 66m
react-ecommerce-59947785fd-9wv9d 1/1 Running 1 (9m9s ago) 29m
react-ecommerce-59947785fd-txbr2 1/1 Running 1 (9m9s ago) 29m
root@Ubuntu2:/home/karthyayeni# kubectl get pods
NAME READY STATUS RESTARTS AGE
nginx-deployment-58cdc7b878-frdsj 1/1 Running 0 66s
nginx-deployment-58cdc7b878-qq8kc 1/1 Running 2 (10m ago) 67m
nginx-deployment-58cdc7b878-xv9cd 1/1 Running 2 (10m ago) 67m
react-ecommerce-59947785fd-9wv9d 1/1 Running 1 (10m ago) 30m
react-ecommerce-59947785fd-txbr2 1/1 Running 1 (10m ago) 30m
root@Ubuntu2:/home/karthyayeni# kubectl scale deployment nginx-deployment --replicas=5
deployment.apps/nginx-deployment scaled
root@Ubuntu2:/home/karthyayeni# kubectl get deployments
NAME READY UP-TO-DATE AVAILABLE AGE
nginx-deployment 5/5 5 5 83m
react-ecommerce 2/2 2 2 45m
root@Ubuntu2:/home/karthyayeni#


Activities
Terminal
Mar 20 16:30
root@Ubuntu2: /home/karthyayeni
The "docker" driver should not be used with root privileges. If you wish to continue as root, use --force.
If you are running minikube within a VM, consider using --driver=none:
https://minikube.sigs.k8s.io/docs/reference/drivers/none/
Tip: To remove this root owned cluster, run: sudo minikube delete
The requested memory allocation of 1967MiB does not leave room for system overhead (total system memory: 1967MiB). You may face stability issues.
Suggestion: Start minikube with less memory allocated: 'minikube start --memory=1967mb'
Starting "minikube" primary control-plane node in "minikube" cluster
Pulling base image v0.0.46 ...
Restarting existing docker container for "minikube" ...
Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...
Verifying Kubernetes components...
Using image gcr.io/k8s-minikube/storage-provisioner:v5
Enabled addons: default-storageclass, storage-provisioner
Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
root@Ubuntu2:/home/karthyayeni# kubectl set image deployment/nginx-deployment nginx-container=nginx:1.19
deployment.apps/nginx-deployment image updated


Activities
Terminal
Mar 20 17:23
root@Ubuntu2: /home/karthyayeni
<head>
<title>Welcome to nginx!</title>
<style>
body {
width: 35em;
margin: 0 auto;
font-family: Tahoma, Verdana, Arial, sans-serif;
}
</style>
</head>
<body>
<h1>Welcome to nginx!</h1>
If you see this page, the nginx web server is successfully installed and working. Further configuration is required.
For online documentation and support please refer to
<a href="http://nginx.org/">nginx.org</a>.
Commercial support is available at
<a href="http://nginx.com/">nginx.com</a>.
Thank you for using nginx.
</body>
</html>
root@Ubuntu2:/home/karthyayeni#


Activities
Firefox Web Browser
Mar 20 17:24
ChatGPT
(no subject) - karthy
Kubernetes: Names
404 Not Found
Welcome to nginx!
192.168.49.2:32042
Welcome to nginx!
If you see this page, the nginx web server is successfully installed and working. Further configuration is required.
For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.
Thank you for using nginx.