

TASK 4

Step 1: Start Minikube

```
minikube start --driver=docker --force
```

Step 2: Create a Deployment

```
kubectl create deployment webapp --image=nginx --port=80
```

Step 3: Expose the Deployment as a Service

```
kubectl expose deployment webapp --type=NodePort --port=80 --target-port=80
```

Step 4: Verify the Running Pods

```
kubectl get pod
```

Step 5: Verify the Service

```
kubectl get svc
```

Step 6: Open the Service in a Web Browser

```
minikube service webapp
```

Step 7: Test the Service Using curl

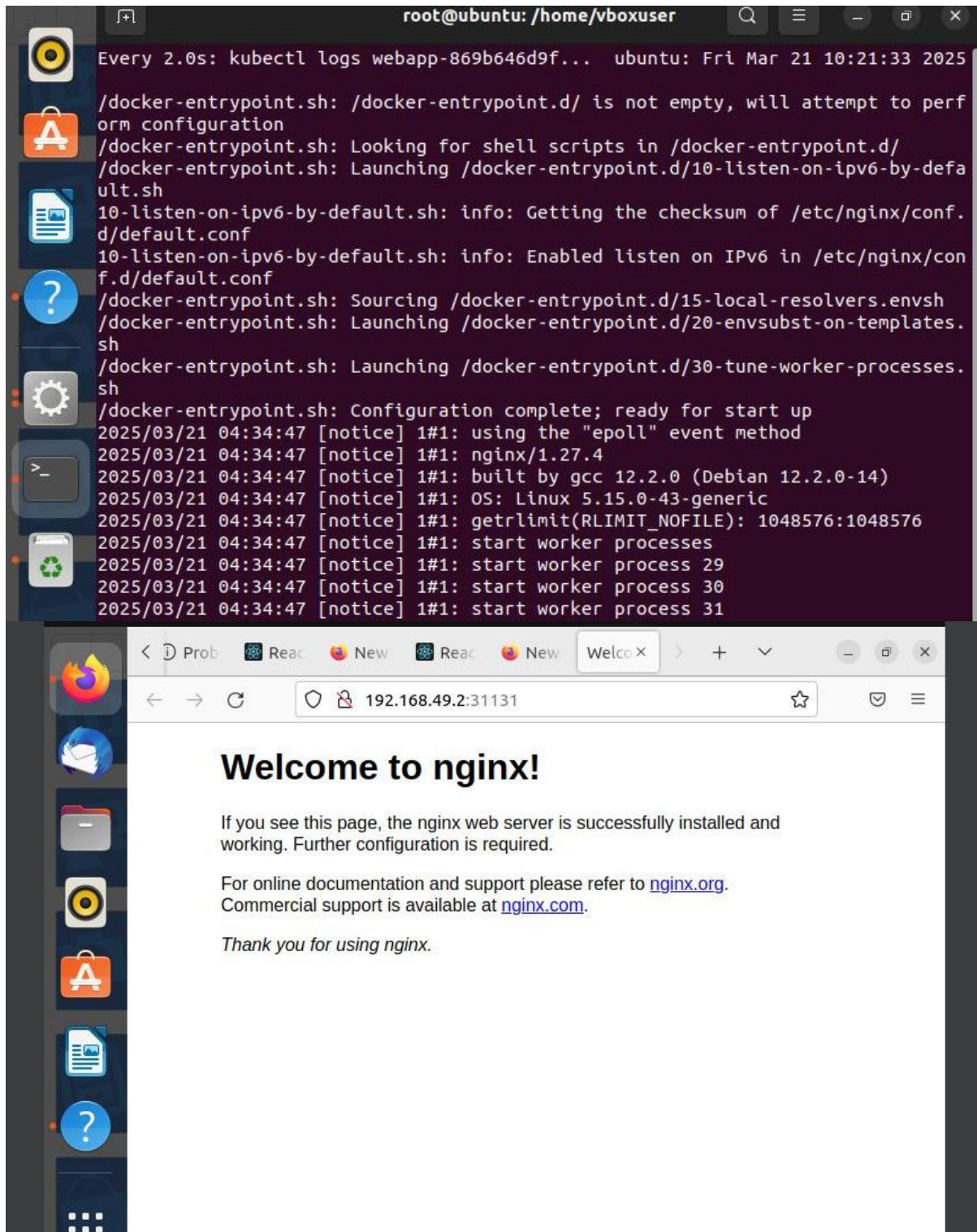
```
curl http://192.168.49.2:32172
```

Step 8: Continuously Monitor the Pods

```
watch kubectl get pod
```

Step 9: Continuously Monitor Pod Logs

```
watch kubectl logs webapp-869b646d9f-5nlp5
```



```
root@ubuntu: /home/vboxuser
Every 2.0s: kubectl get pod                                ubuntu: Fri Mar 21 10:11:49 2025
```

NAME	READY	STATUS	RESTARTS
my-nginx	1/1	Running	1 (8m4s ago)
mydeploy-6dcd977c84-5tqhn	1/1	Running	1 (8m4s ago)
mydeploy-6dcd977c84-ktbvf	1/1	Running	1 (8m4s ago)
nginx-deploy-dfdd84f74-skp2v	1/1	Running	1 (8m4s ago)
react-ecommerce-deployment-849768b4c6-6gqpk	1/1	Running	1 (8m5s ago)
react-ecommerce-deployment-849768b4c6-vj6lp	1/1	Running	1 (8m4s ago)
webapp-869b646d9f-z88wr	1/1	Running	0