

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

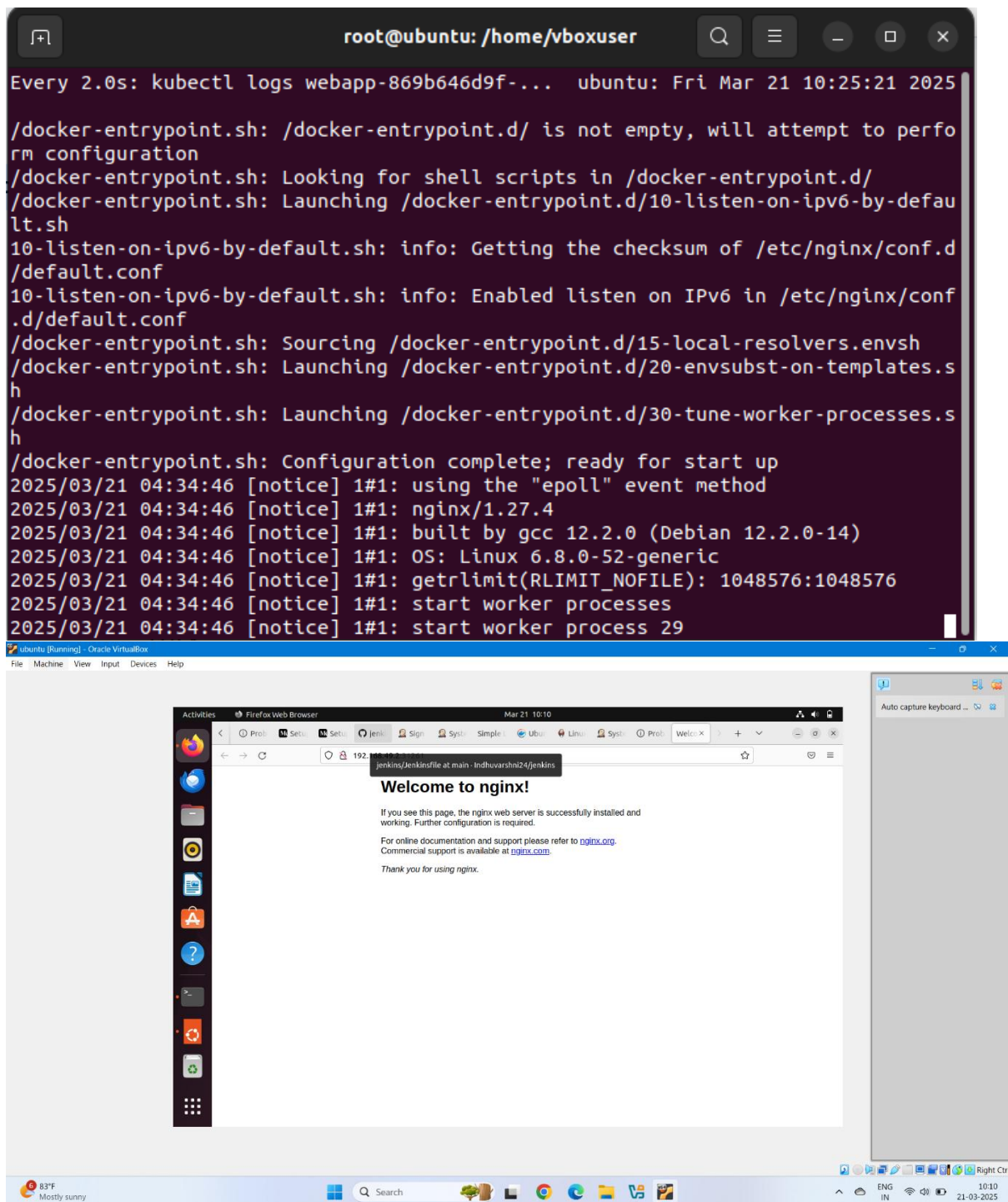
```
curl http://192.168.49.2:32172
```

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 10:11:54 2025
```

NAME	READY	STATUS	RESTARTS	AGE
my-nginx	1/1	Running	1 (8m10s ago)	20h
mydeploy-74c4c48f4d-2w94h	1/1	Running	1 (8m10s ago)	20h
mydeploy-74c4c48f4d-rpvqz	1/1	Running	1 (8m9s ago)	20h
nginx-deploy-5c477b75b8-pg68p	1/1	Running	1 (8m9s ago)	20h
webapp-869b646d9f-s9zf6	1/1	Running	0	7m13s