Cloud Computing Lab 8 Report

1 Creating Kubernetes cluster using minikube

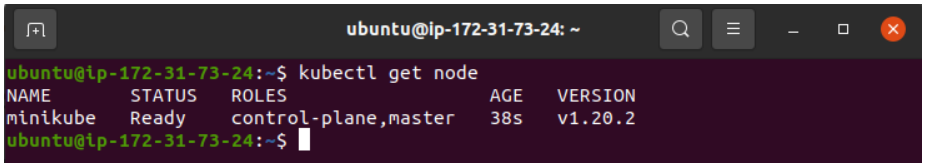

Figure 1: Output of kubectl get node

2 Creating Kubernetes Pod

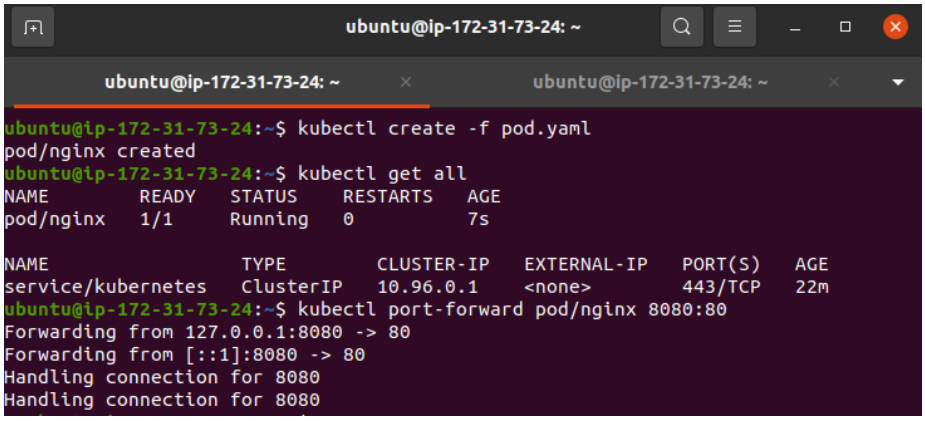

Figure 2: nginx pod is running and pot-forwarding

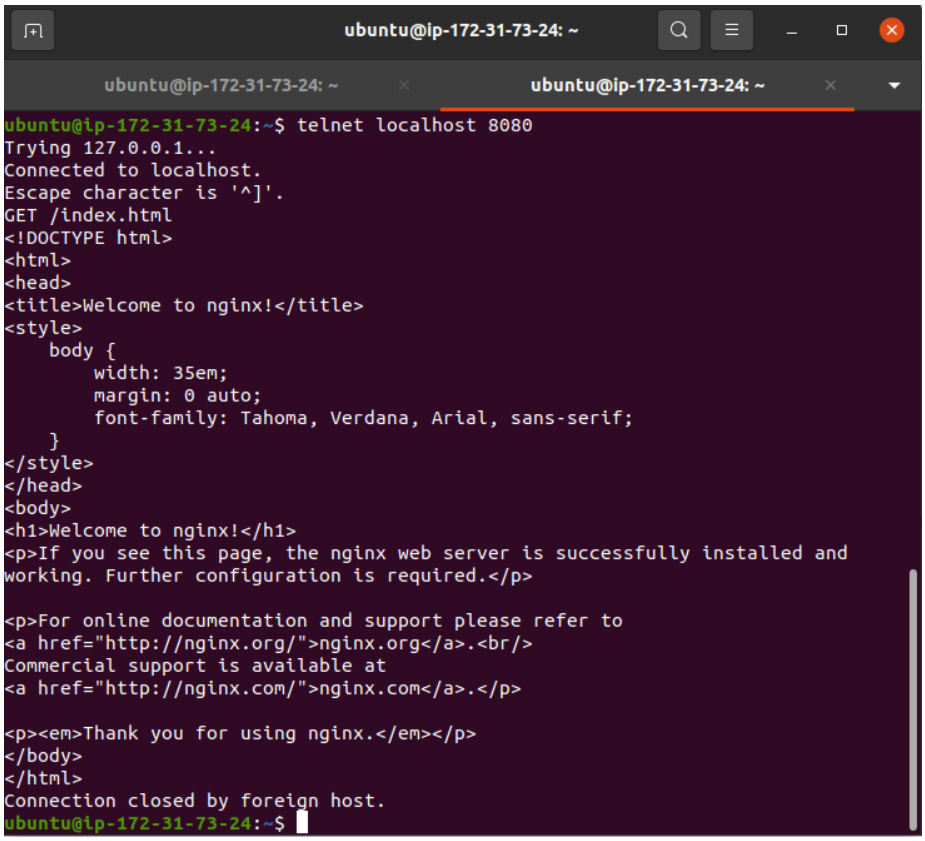

Figure 3: nginx homepage on localhost via telnet

Figure 4: nginx homepage on localhost via browser

3 Creating Kubernetes Deployment and a Load Balancing Service

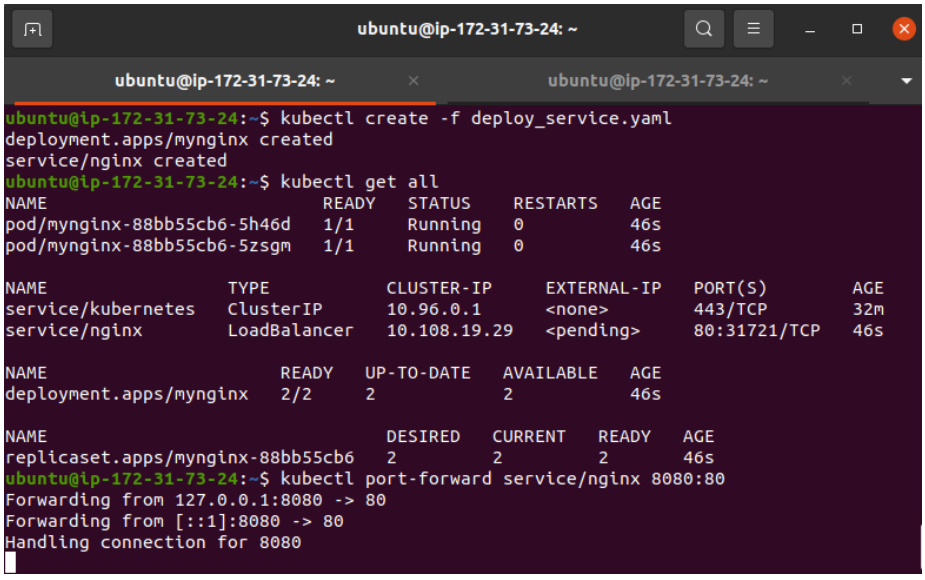

Figure 5: Deployment is running

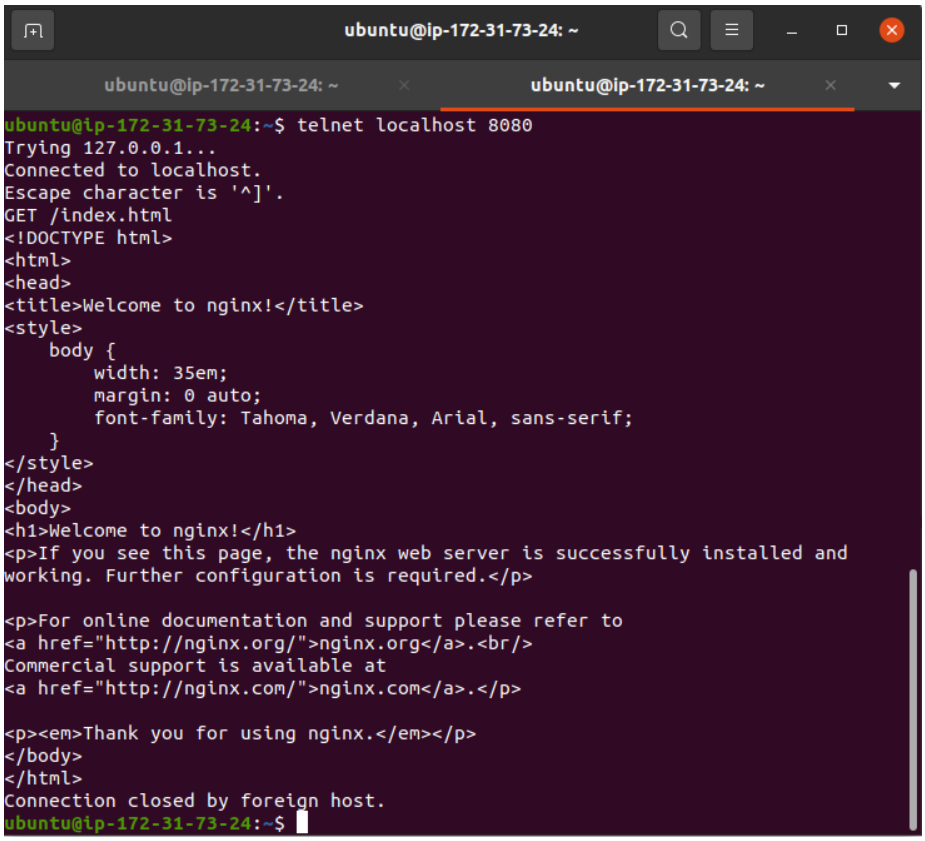

Figure 6: Port-forwarding of the Kubernetes service

Figure 7: nginx homepage on localhost via browser

4 Scaling Deployments

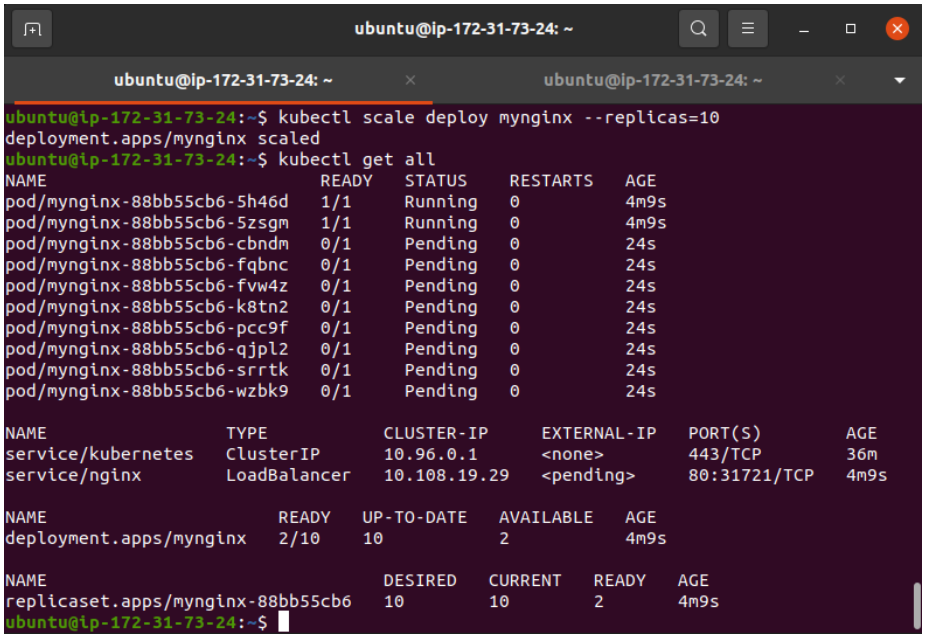

Figure 8: Scaling deployment to 10 pods