

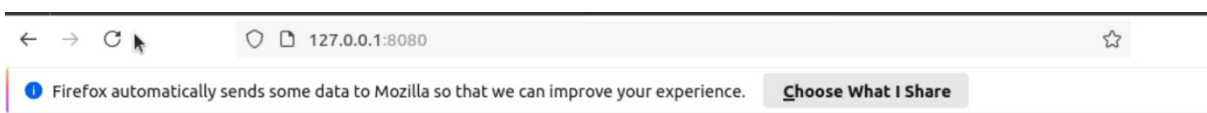
# Kubernetes Assignment – 1

## 1. Deploy and NGINX Pod

```
master@master-vm:~/Desktop$ kubectl run nginx2-pod --image=nginx --restart=Never
pod/nginx2-pod created
master@master-vm:~/Desktop$ kubectl get pods
NAME          READY   STATUS    RESTARTS   AGE
nginx-pod     1/1     Running   0           2m15s
nginx1-pod    1/1     Running   0           103s
nginx2-pod    1/1     Running   0           8s
nginxpod      0/1     Completed 0           19h
nginxx-pod    1/1     Running   0           2m7s
master@master-vm:~/Desktop$ kubectl port-forward nginx-pod 8080:80
Forwarding from 127.0.0.1:8080 -> 80
Forwarding from [::1]:8080 -> 80
Handling connection for 8080
Handling connection for 8080

^Cmaster@master-vm:~/Desktop$ kubectl port-forward nginx-pod 8080:80
Forwarding from 127.0.0.1:8080 -> 80
Forwarding from [::1]:8080 -> 80
Handling connection for 8080
Handling connection for 8080

^Cmaster@master-vm:~/Desktop$ kubectl delete pod nginx-pod
pod "nginx-pod" deleted
master@master-vm:~/Desktop$
```



## 2. Create a NGINX Deployment and Scale it

```
master@master-vm:~/Desktop$ kubectl create deployment nginx-deployment --image=nginx
deployment.apps/nginx-deployment created
master@master-vm:~/Desktop$ kubectl get deployments
NAME          READY   UP-TO-DATE   AVAILABLE   AGE
nginx-deployment 1/1     1             1           14s
master@master-vm:~/Desktop$ kubectl scale deployment nginx-deployment --replicas=3
deployment.apps/nginx-deployment scaled
master@master-vm:~/Desktop$ kubectl get pods -o wide
NAME          READY   STATUS    RESTARTS   AGE   IP            NODE          NOMINATED NODE   READINESS GATE
nginx-deployment-6cfb98644c-m4g47 1/1     Running   0           13s   10.244.0.21   minikube     <none>           <none>
nginx-deployment-6cfb98644c-mqrz5 1/1     Running   0           14s   10.244.0.20   minikube     <none>           <none>
nginx-deployment-6cfb98644c-vqp6s 1/1     Running   0           40s   10.244.0.19   minikube     <none>           <none>
nginx-pod      1/1     Running   1 (20m ago)  18h   10.244.0.14   minikube     <none>           <none>
nginxpod       0/1     Completed 0           18h   10.244.0.11   minikube     <none>           <none>
master@master-vm:~/Desktop$ kubectl delete deployment nginx-deployment
deployment.apps "nginx-deployment" deleted
master@master-vm:~/Desktop$
```