

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$
```

← → ↺ 📄 127.0.0.1:8080 ☆

📘 Firefox automatically sends some data to Mozilla so that we can improve your experience. [Choose What I Share](#)

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.

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$
```

