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POD Lab 4:

Q-1 What is the command to create a deployment of a specific image?

kubectl create deployment <deployment-name> --image=<image-name>

```
PS C:\Users\bharg> kubectl create deployment nginx-deployment --image=nginx
deployment.apps/nginx-deployment created
```

Q-2 What is the command to scale a given deployment to have 5 replicas?

kubectl scale deployment nginx-deployment --replicas=5

```
PS C:\Users\bharg> kubectl scale deployment nginx-deployment --replicas=5
deployment.apps/nginx-deployment scaled
```

Q-3 What is the command to delete a pod?

kubectl delete pod <podname>

```
PS C:\Users\bharg> kubectl delete pod nginx-deployment-55888b446c-t7bbb
pod "nginx-deployment-55888b446c-t7bbb" deleted
```

Q-4 What is the command to get a list of deployment(s)?

kubectl get deploy

```
PS C:\Users\bharg> kubectl get deploy
NAME                READY   UP-TO-DATE   AVAILABLE   AGE
nginx-deployment    5/5     5             5           5m13s
```

Q-5 What is the command to get a list of pod(s)?

kubectl get pods

```
          kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
nginx-deployment-55888b446c-4q55j  1/1     Running   0           5m13s
nginx-deployment-55888b446c-6g24h  1/1     Running   0           5m13s
nginx-deployment-55888b446c-8s2pf  1/1     Running   0           6m47s
nginx-deployment-55888b446c-mzkpn  1/1     Running   0           5m13s
nginx-deployment-55888b446c-rjs4b  1/1     Running   0           2m27s
nginx-pod                          1/1     Running   0           14m
```

Q-6 What is the command to expose a deployment using NodePort Service?

expose deployment nginx-deployment --type=NodePort --port=8080 --target-port=80

```
PS C:\Users\bharg> kubectl expose deployment nginx-deployment --type=NodePort --port=8080 --target-port=80
service/nginx-deployment exposed
```

Q-7 What is the command to get a list of services?

The the command to get a list of services :

kubectl get services

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
kubernetes	ClusterIP	10.96.0.1	<none>	443/TCP	21m
nginx-deployment	NodePort	10.108.251.26	<none>	8080:31941/TCP	57s

Q-8 What is the command to create a namespace?

kubectl create namespace <namespace-name>

```
PS C:\Users\bharg> kubectl create namespace oracle0
namespace/oracle0 created
```

Q-9 What is the command to delete a namespace?

The command to delete a namespace is :

```
PS C:\Users\bharg> kubectl delete namespace oracle0
namespace "oracle0" deleted
```

kubectl delete namespace <namespace-name>

Q-10 What is the command to change namespace?

The command to change namespace is :

kubectl config set-context --current --namespace=my-namespace

```
PS C:\Users\bharg> kubectl config set-context --current --namespace=oracle0
Context "minikube" modified.
```

Q-11 What is the command to get a list of pod(s) running in a certain Namespace?

The command to get a list of pod(s) running in a certain Namespace is :

kubectl get pods -n <namespace-name>

```
kubectl get pods -n nginx
No resources found in nginx namespace.
```

Q-12 What is the command to delete a deployment?

The command to delete a deployment

kubectl delete deployment my-deployment

```
PS C:\Users\bharg> kubectl delete deployment nginx-deployment
deployment.apps "nginx-deployment" deleted
```

Q-13 What is the command to delete a service?

The command to delete a service is :

`kubectl delete service my-service`

```
PS C:\Users\bharg> kubectl delete service nginx-deployment
service "nginx-deployment" deleted
```

Q-14 What is the command to delete all pods, deployments and services at once?

The command to delete all pods, deployments and services at Once is :

`kubectl delete all --all`

```
PS C:\Users\bharg> kubectl delete all --all
pod "nginx-748c667d99-kxc67" deleted
pod "nginx-pod" deleted
service "kubernetes" deleted
deployment.apps "nginx" deleted
replicaset.apps "nginx-748c667d99" deleted
```