

Module 7: Kubernetes Assignment - 3

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Course Offered: -Advanced Cloud Computing and Devops

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Tasks To Be Performed:

1. Use the previous deployment
2. Change the replicas to 5 for the deployment

1. Use the previous deployment

```
ubuntu@ip-172-31-30-75:~$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
nginx-deployment-576c6b7b6-jh55k    1/1     Running   0           22m
nginx-deployment-576c6b7b6-qwq7d    1/1     Running   0           22m
nginx-deployment-576c6b7b6-vql56    1/1     Running   0           22m
ubuntu@ip-172-31-30-75:~$ kubectl get svc
NAME          TYPE          CLUSTER-IP      EXTERNAL-IP   PORT(S)          AGE
kubernetes   ClusterIP    10.96.0.1       <none>        443/TCP          41m
my-service    NodePort     10.103.231.121 <none>        80:30007/TCP    13m
ubuntu@ip-172-31-30-75:~$
```

2. Change the replicas to 5 for the deployment

In this we can do many ways but I want to do through yaml file

So I go to assignment1.yaml that time was we have created the nginx deployment with replica 3.

```
ubuntu@ip-172-31-30-75:~$ cat assignment1.yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-deployment
  labels:
    app: nginx
spec:
  replicas: 3
  selector:
    matchLabels:
      app: nginx
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
      - name: nginx
        image: nginx:latest
        ports:
        - containerPort: 80
ubuntu@ip-172-31-30-75:~$
```

Now I use sudo nano assignment1.yaml

```
GNU nano 7.2
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-deployment
  labels:
    app: nginx
spec:
  replicas: 3
  selector:
    matchLabels:
      app: nginx
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
      - name: nginx
        image: nginx:latest
        ports:
        - containerPort: 80
```

So I changed 3 to 5 replicas

```
GNU nano 7.2 assignment1.yaml *
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-deployment
  labels:
    app: nginx
spec:
  replicas: 5
  selector:
    matchLabels:
      app: nginx
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
      - name: nginx
        image: nginx:latest
        ports:
        - containerPort: 80
```

And used command `ctrl + s` and exit from nano

Now I run this command **`kubectl apply -f assignment1.yaml`**

```
ubuntu@ip-172-31-30-75:~$ sudo nano assignment1.yaml
ubuntu@ip-172-31-30-75:~$ kubectl apply -f assignment1.yaml
deployment.apps/nginx-deployment configured
ubuntu@ip-172-31-30-75:~$ █
```

Now I need to verify the things

Successfully created the replicas as per task.

```
ubuntu@ip-172-31-30-75:~$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
nginx-deployment-576c6b7b6-8shmj    1/1     Running   0           39s
nginx-deployment-576c6b7b6-hmqhj    1/1     Running   0           39s
nginx-deployment-576c6b7b6-jh55k    1/1     Running   0           29m
nginx-deployment-576c6b7b6-qwq7d    1/1     Running   0           29m
nginx-deployment-576c6b7b6-vql56    1/1     Running   0           29m
ubuntu@ip-172-31-30-75:~$ █
```