Module 7: Kubernetes Assignment - 4

Assignment Submitted By:-Hitesh Chauhan
Course Offered: -Advanced Cloud Computing and Devops
Assignment By: -Intellipaat
Trainer: -Kumar
Date Of Submission: -10/03/2025

Tasks To Be Performed:

1. Use the previous deployment
2. Change the service type to ClusterIP

1. Use the previous deployment

```
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:~$ kubectl get svc
NAME         TYPE        CLUSTER-IP       EXTERNAL-IP   PORT(S)        AGE
kubernetes   ClusterIP   10.96.0.1        <none>        443/TCP        49m
my-service   NodePort    10.103.231.121   <none>        80:30007/TCP   22m
ubuntu@ip-172-31-30-75:~$
```

2. Change the service type to ClusterIP

We have created service nodeport.now we can use service.yaml in previous deployment yaml file.

Go to master node
Sudo nano service.yaml.

```
ubuntu@ip-172-31-30-75:~$ sudo nano service.yml
ubuntu@ip-172-31-30-75:~$ kubectl apply -f service.yml
service/my-service configured
ubuntu@ip-172-31-30-75:~$
```

```
apiVersion: v1
kind: Service
metadata:
  name: my-service
spec:
  type: ClusterIP
  selector:
    app.kubernetes.io/name: MyApp
  ports:
    - port: 80
      # By default and for convenience, the `targetPort` is set to
      # the same value as the `port` field.
      targetPort: 80
      # Optional field
      # By default and for convenience, the Kubernetes control plane
      # will allocate a port from a range (default: 30000-32767)
      nodePort: 30007
```

save this file and run kubectl apply -f service.yaml.

Now Service got created.

Now The Clusterip has been successfully deployed.