Kubernetes

1)Deploy a Nginx pod

```
root@master-vm:/home/master/newtest# kubectl run nginx-pod --image=nginx --restart=Never
pod/nginx-pod created
root@master-vm:/home/master/newtest# kubectl get pods
NAME                                READY  STATUS   RESTARTS  AGE
nginx-deployment-7854ff8877-mkkwb   1/1    Running  0         117s
nginx-deployment-7854ff8877-v4tkc   1/1    Running  0         117s
nginx-deployment-7854ff8877-zgdtn   1/1    Running  0         117s
nginx-pod                           1/1    Running  0         12s
```
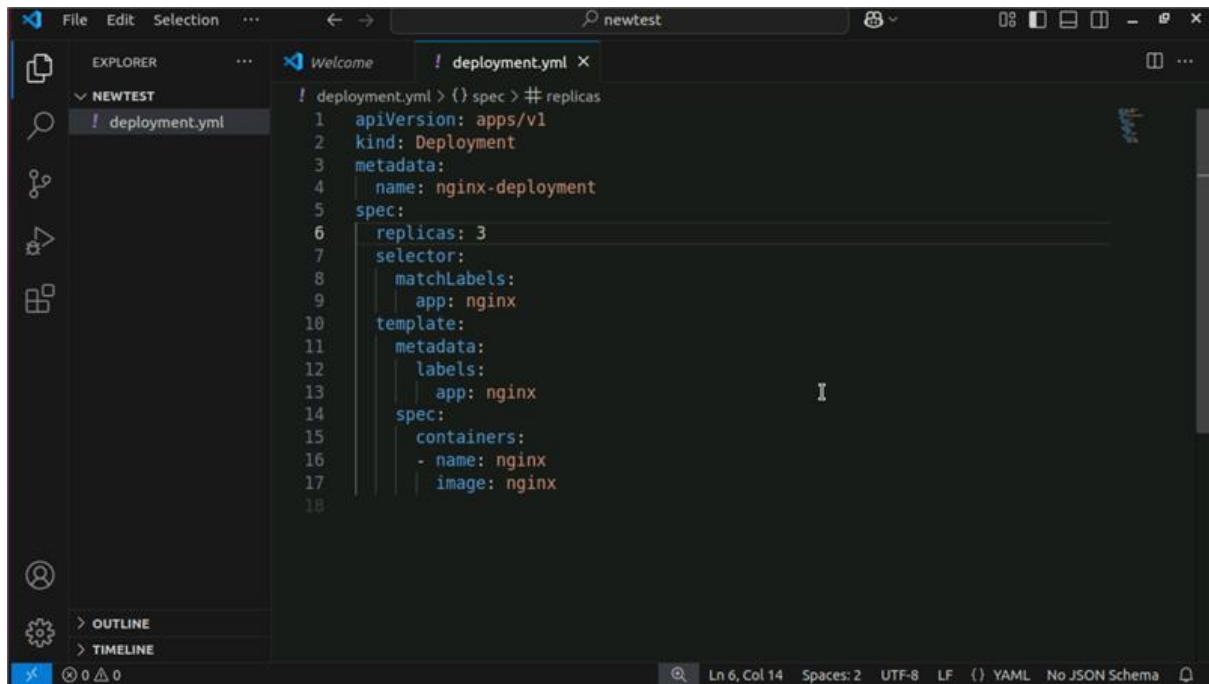
2)Now Forward the port to access Nginx

```
root@master-vm:/home/master/newtest# kubectl port-forward pod/nginx-pod 8080:80
Forwarding from 127.0.0.1:8080 -> 80
Forwarding from [::1]:8080 -> 80
```

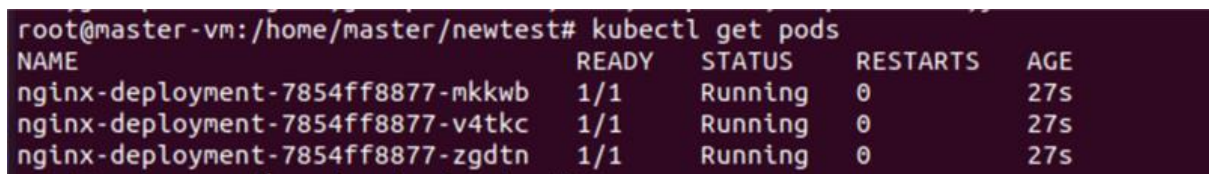**3)So the port is running successfully as we can see nginx default page**

localhost:8080

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.

Scale the Deployment

4)create deployment.yml file with replicas


```
root@master-vm:/home/master/newtest# kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
nginx-deployment-7854ff8877-mkkwb   1/1     Running   0          27s
nginx-deployment-7854ff8877-v4tkc   1/1     Running   0          27s
nginx-deployment-7854ff8877-zgdtn   1/1     Running   0          27s
```