Module-9: Kubernetes Assignment - 1


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



```
ubuntu@master:~$ kubectl get nodes
NAME     STATUS     ROLES          AGE     VERSION
master   NotReady   control-plane  3m31s   v1.29.14
node1    Ready      <none>         86s     v1.29.14
node2    Ready      <none>         46s     v1.29.14
ubuntu@master:~$ kubectl get pods
No resources found in default namespace.
ubuntu@master:~$ kubectl get pods -o wide
No resources found in default namespace.
ubuntu@master:~$ nano sample.yml
ubuntu@master:~$ kubectl apply -f sample.yml
deployment.apps/nginx-deployment created
ubuntu@master:~$ kubectl get pods -o wide
NAME                                READY   STATUS             RESTARTS   AGE   IP               NODE    NOMINATED NODE   READINESS GATES
nginx-deployment-7c79c4bf97-7lzqp   0/1     ContainerCreating  0          5s    <none>           node2   <none>           <none>
nginx-deployment-7c79c4bf97-j88zw   0/1     ContainerCreating  0          5s    <none>           node1   <none>           <none>
nginx-deployment-7c79c4bf97-nlfdx   0/1     ContainerCreating  0          5s    <none>           node1   <none>           <none>
ubuntu@master:~$ kubectl get pods -o wide
NAME                                READY   STATUS    RESTARTS   AGE   IP                NODE    NOMINATED NODE   READINESS GATES
nginx-deployment-7c79c4bf97-7lzqp   1/1     Running   0          14s   192.168.104.4     node2   <none>           <none>
nginx-deployment-7c79c4bf97-j88zw   1/1     Running   0          14s   192.168.166.130   node1   <none>           <none>
nginx-deployment-7c79c4bf97-nlfdx   1/1     Running   0          14s   192.168.166.129   node1   <none>           <none>
ubuntu@master:~$
```