DevOps-Module7-Kubernetes-Assignment-2 COMPLETED by Nagesha KS
Please check the following screenshots for each question.

Tasks To Be Performed:

1. Use the previous deployment
2. Create a service of type NodePort for NGINX deployment
3. Check the NodePort service on a browser to verify

us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-04207cbd1842bc541&osUser=ubuntu&region=us-east-1&sshPort=22#/

aws   ::: Services   Q Search   [Alt+S]   N. Virginia ▼   Nagesha ▼

```
  GNU nano 7.2                                        assign2.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:
        ports:
```

```
^G Help        ^O Write Out    ^W Where Is    ^K Cut        ^T Execute    ^C Location    M-U Undo    M-A Set Mark    M-] To Bracket
^X Exit        ^R Read File    ^\ Replace     ^U Paste      ^J Justify    ^/ Go To Line  M-E Redo    M-6 Copy        ^Q Where Was
```

i-04207cbd1842bc541 (Nagesha-Kubernetes-Master)   ×

PublicIPs: 54.209.150.253   PrivateIPs: 172.31.90.191

Activate Windows
Go to Settings to activate Windows

16:31
12-09-2024

Instances | EC2 | ×   EC2 Instance Co ×   EC2 Instance Co ×   EC2 Instance Co ×   Deployments | ×   Deployments | ×   Ingress | Kubern ×   +

← → C   kubernetes.io/docs/concepts/workloads/controllers/deployment/   ☆   N   ⋮

kubernetes

Documentation   Kubernetes Blog   Training   Partners   Community   Case Studies   Versions ▾   English ▾

controllers/nginx-deployment.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:1.14.2
        ports:
        - containerPort: 80
```

Q manifest

▾ workloads
  ▶ Pods
  ▾ Workload
    Management
    Deployments
    ReplicaSet
    StatefulSets
    DaemonSet
    Jobs
    Automatic
    Cleanup for
    Finished Jobs
    CronJob
    ReplicationCont
  Autoscaling
  Workloads

</> Deployment API reference
☑ Edit this page
☑ Create child page
⌥ Create documentation issue
🖶 Print entire section

Use Case
Creating a Deployment
 Pod-template-hash label
Updating a Deployment
 Rollover (aka multiple updates in-flight)
 Label selector updates
Rolling Back a Deployment
 Checking Rollout History of a
 Deployment
 Rolling Back to a Previous Revision
Scaling a Deployment

Activate Windows
Go to Settings to activate Windows.

17:04
12-09-2024

Kubernetes Commands

goto document of k8s

to get nodeport for Assignment-2

https://kubernetes.io/docs/concepts/workloads/controllers/deployment/

goto master

sudo nano assign2.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:
        ports:
        - containerPort: 30008
```

edit remove myapp and enter ngnix

app:nginx

edit nodeport to 30008 -- to access nginx

goto master
kubectl apply -f assign2.yaml
service/my-service created

kubectl get svc

browser link: publi ip of master and add port :30008
goto browser and refresh and now you will see Welcome to nginx!
check same for Slave1 and Slave2 copy public ip of Slave1 and Slave2