LAB 5

A. create resources:

1. NameSpace:

```
salmamyoussef@salmamyoussef-Satellite-C55-B:~/Documents/ITI-devops/Kubernetes/la
bs_solutions$ kubectl create namespace lab3
namespace/lab3 created
salmamyoussef@salmamyoussef-Satellite-C55-B:~/Documents/ITI-devops/Kubernetes/la
bs_solutions$ kubectl get namespaces
NAME
                 STATUS AGE
default
                 Active 7d12h
kube-node-lease Active 7d12h
kube-public
                Active 7d12h
                 Active 7d12h
kube-system
lab3
                 Active
                          12s
salmamyoussef@salmamyoussef-Satellite-C55-B:~/Documents/ITI-devops/Kubernetes/la
bs_solutions$
```

2. Deployment

```
♥ lab5.md 9+, U
                   ! nginx-deployment.yaml 1, U X
! nginx-deployment.yaml > {} metadata > • namespace
       io.k8s.api.apps.v1.Deployment (v1@deployment.json)
       apiVersion: apps/v1
       kind: Deployment
       metadata:
         name: nginx-deployment
         namespace: lab3
  5
         labels:
         replicas: 3
         selector:
 10
            matchLabels:
 11
 12
 13
         template:
           metadata:
              labels:
 15
 17
              containers:
 19
              - name: nginx
                image: nginx:1.14.2
 20
           ports:
 21
            - containerPort: 80
salmamyoussef@salmamyoussef-Satellite-C55-B:~/Documents/ITI-devops/Kubernetes/lab1$ kubectl apply
  -f nginx-deployment.yaml
deployment.apps/nginx-deployment created
salmamyoussef@salmamyoussef-Satellite-C55-B:~/Documents/ITI-devops/Kubernetes/lab1$ kubectl qet de
ployments --namespace=lab3
                   READY
                          UP-TO-DATE
                                       AVAILABLE
NAME
                                                  AGE
nginx-deployment
```

3. Expose the deployment:

```
amyoussef@salmamyoussef-Satellite-C55-B:~/Documents/ITI-devops/Kubernetes/lab1$ kubectl expose deployment nginx-de
ployment --type NodePort --port 80 --target-port=80 --name=my-service2 --namespace=lab3
salmamyoussef@salmamyoussef-Satellite-C55-B:~/Documents/ITI-devops/Kubernetes/lab1$ kubectl describe svc my-service2 -
-namespace=lab3
                              my-service2
lab3
Namespace:
Labels:
Annotations:
                              app=nginx
                               <none>
                              app=nginx
NodePort
IP Family Policy: IP Families:
                               SingleStack
                               IPv4
                              10.99.163.29
10.99.163.29
<unset> 80/TCP
IPs:
TargetPort:
                              80/TCP
                              cunset> 32610/TCP
172.17.0.20:80,172.17.0.21:80,172.17.0.22:80
NodePort:
Endpoints:
Session Affinity:
                               None
External Traffic Policy:
Events: <none>
salmamyoussef@salmamyoussef-Satellite-C55-B:~/Documents/ITI-devops/Kubernetes/lab1$
```

B. Cronjob: