# LAB 4

# Q1:

```
salmamyoussef@salmamyoussef-Satellite-C55-B:-/Documents/TTI-devops/Kubernates/lab1$ kubectl get services

NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 3d18h
```

## **Q2**:

```
salmamyoussefgsalmamyoussef-Satellite-CSS-B:-/Documents/ITI-devops/Kubernates/lab1$ kubectl get service kubernetes -o yaml apiVersion: v1 kind: Service metadata: creationTimestamp: "2023-01-18T18:01:422" labels: component: apiserver provider: kubernetes name: kubernetes name: kubernetes name: kubernetes name: kubernetes name: kubernetes name: v194" u101: 78ccb882-7aef-4e22-803d-afe6129afe19 spec: clusterIP: 10.96.0.1 clusterIP: 10.96.0.1 internalTrafficPolicy: Cluster ipFamilies: 10.96.0.1 internalTrafficPolicy: Cluster ipFamilies: IPv4 ipFamilyPolicy: SingleStack ports: name: https port: 443 protocol: TCP targetPort: 8443 sessionAffinity: None type: ClusterIP status: loadBalancer: {}
```

## Q3:

```
salmamyoussefgsalmamyoussef-Satellite-C55-B:-/Documents/ITI-devops/Kubernates/lab1$ kubectl get service kubernetes -o yaml
apiVersion: vi
kind: Service
metadata:
    creationTimestamp: "2023-01-18T18:01:42Z"
labels:
    component: apiserver
    provider: kubernetes
    name: kubernetes
    namespace: default
    resourceVersion: "194"
    uid: 78ccb882-7aef-4e22-803d-afe6129afe19
    spec:
    clusterIPp: 10.96.0.1
    clusterIPp:
        10.96.0.1
    internalTrafficPolicy: Cluster
    ipfamilips:
        - IPV4
        ipfamilyPolicy: SingleStack
    ports:
        name: https
        port: 443
        protocol: TCP
        targetPort: 8443
        sessionAffinity: None
    type: ClusterIP
status:
    loadBalancer: {}
```

## **Q4**:

## **Q5**:

```
salmamyoussef@salmamyoussef-Satellite-C55-B:-/Documents/ITI-devops/Kubernates/labi$ kubectl get endpoints
NAME ENDPOINTS AGE
kubernetes 192.168.59.100:8443 3d18h
```

#### **Q6**:

salmamyoussef@salmamyoussef-Satellite-C55-B:-/Documents/ITI-devops/Kubernates/labi\$ kubectl apply -f webapp-dep.yaml
deployment.apps/simple-webapp-deployment created

### **Q7**:

kodekloud/simple-webapp:red

#### **Q8**:

```
! webapp.yaml 1, U
                      ♥ lab5.md 9+, U
                                          ! webapp-service.yaml U X
 ! webapp-service.yaml > { } spec > { } selector > ••• name
       io.k8s.api.core.v1.Service (v1@service.json)
       apiVersion: v1
       kind: Service
       metadata:
       name: webapp-service
       spec:
          type: NodePort
          ports:
            - nodePort: 30080
              port: 8080
              targetPort: 8080
 11
          selector:
            name: simple-webapp
 12
```

```
salmamyoussef@salmamyoussef-Satellite-C55-B:~/Documents/ITI-devops/Kubernetes/lab1$ kubectl create f webapp-service.yaml
service/webapp-service created
salmamyoussef@salmamyoussef-Satellite-C55-B:~/Documents/ITI-devops/Kubernetes/lab1$ kubectl get serv
ices
                                                             PORT(S)
NAME
                                              EXTERNAL-IP
                 TYPE
                             CLUSTER-IP
                                                                               AGE
                 ClusterIP
kubernetes
                             10.96.0.1
                                                             443/TCP
                                                                               7d6h
                                              <none>
                             10.111.157.233 <none>
                                                             8080:30080/TCP
webapp-service NodePort
                                                                              10s
salmamyoussef@salmamyoussef-Satellite-C55-B:~/Documents/ITI-devops/Kubernetes/lab1$
```