LAB 4

Q1:

```
salmamyoussef@salmamyoussef-Satellite-C55-B:~/Documents/ITI-devops/Kubernetes/lab1$ kubectl get services
NAME          TYPE        CLUSTER-IP    EXTERNAL-IP   PORT(S)    AGE
kubernetes    ClusterIP   10.96.0.1     <none>        443/TCP    3d18h
```

Q2:

```
salmamyoussef@salmamyoussef-Satellite-C55-B:~/Documents/ITI-devops/Kubernetes/lab1$ kubectl get service kubernetes -o yaml
apiVersion: v1
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:
  clusterIP: 10.96.0.1
  clusterIPs:
  - 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:

```
salmamyoussef@salmamyoussef-Satellite-C55-B:~/Documents/ITI-devops/Kubernetes/lab1$ kubectl get service kubernetes -o yaml
apiVersion: v1
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:
  clusterIP: 10.96.0.1
  clusterIPs:
  - 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: {}
```

Q4:

```
salmamyoussef@salmamyoussef-Satellite-C55-B:~/Documents/ITI-devops/Kubernetes/lab1$ kubectl get service kubernetes -o yaml
apiVersion: v1
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:
  clusterIP: 10.96.0.1
  clusterIPs:
  - 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: {}
```

Q5:

```
salmamyoussef@salmamyoussef-Satellite-C55-B:~/Documents/ITI-devops/Kubernetes/lab1$ kubectl get endpoints
NAME         ENDPOINTS              AGE
kubernetes   192.168.59.100:8443   3d18h
```

Q6:

```
salmamyoussef@salmamyoussef-Satellite-C55-B:~/Documents/ITI-devops/Kubernetes/lab1$ kubectl apply -f webapp-dep.yaml
deployment.apps/simple-webapp-deployment created
```

Q7:

```
kodekloud/simple-webapp:red
```

Q8:

```yaml
apiVersion: v1
kind: Service
metadata:
  name: webapp-service
spec:
  type: NodePort
  ports:
    - nodePort: 30080
      port: 8080
      targetPort: 8080
  selector:
    name: simple-webapp
```

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