Kubernetes Service Kode kloud Practice

How many Services exist on the system?

In the current(default) namespace

- 0
- 3
- 1 ✓
- 2
- 4

Terminal 1

```
Welcome to the KodeKloud Hands-On lab

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controlplane ~ ➔ kubectl get svc
NAME          TYPE        CLUSTER-IP    EXTERNAL-IP   PORT(S)    AGE
kubernetes    ClusterIP   10.43.0.1     <none>        443/TCP    16m

controlplane ~ ➔ []
```

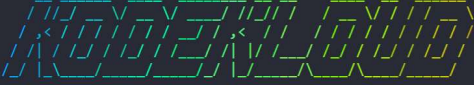Terminal 1

```
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controlplane ~ ➔ kubectl get svc
NAME          TYPE        CLUSTER-IP    EXTERNAL-IP   PORT(S)    AGE
kubernetes    ClusterIP   10.43.0.1     <none>        443/TCP    16m

controlplane ~ ➔ []
```

Screenshot 1

kodekloud.com/topic/labs-services-3/?utm_source=udemy&utm_medium=labs&utm_campaign=kubernetes

Managed bookmarks · Practice Exams | A...

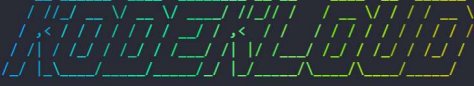**Keep Cyber Monday going! Get 45% Off. Offer expires:** 4 :05:28:38 Days Hrs Mins Secs | **Click here** ✕

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```
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controlplane ~ →  kubectl get svc
NAME         TYPE        CLUSTER-IP    EXTERNAL-IP    PORT(S)    AGE
kubernetes   ClusterIP   10.43.0.1     <none>         443/TCP    16m

controlplane ~ →  []
```

1 2 3 4 5 6 7 8 9 10 11

What is the type of the default kubernetes service?

External

LoadBalancer

ClusterIP ✓

NodePort

15:01
06-12-2023

Screenshot 2

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```
controlplane ~ →  kubectl get svc
NAME         TYPE        CLUSTER-IP    EXTERNAL-IP    PORT(S)    AGE
kubernetes   ClusterIP   10.43.0.1     <none>         443/TCP    19m

controlplane ~ →  kubectl describe svc
Name:              kubernetes
Namespace:         default
Labels:            component=apiserver
                   provider=kubernetes
Annotations:       <none>
Selector:          <none>
Type:              ClusterIP
IP Family Policy:  SingleStack
IP Families:       IPv4
IP:                10.43.0.1
IPs:               10.43.0.1
Port:              https  443/TCP
TargetPort:        6443/TCP
Endpoints:         192.17.63.9:6443
Session Affinity:  None
Events:            <none>

controlplane ~ →  []
```

1 2 3 4 5 6 7 8 9 10 11

What is the targetPort configured on the kubernetes service?

10.96.0.1

443 ✕

6443 ⟳

8080

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1 2 3 4 5 6 7 8 9 10 11

How many labels are configured on the `kubernetes` service?

- 0
- 3
- 2
- 1

```
NAME         TYPE        CLUSTER-IP    EXTERNAL-IP   PORT(S)    AGE
kubernetes   ClusterIP   10.43.0.1     <none>        443/TCP    19m

controlplane ~ ➜ kubectl describe svc
Name:              kubernetes
Namespace:         default
Labels:            component=apiserver
                   provider=kubernetes
Annotations:       <none>
Selector:          <none>
Type:              ClusterIP
IP Family Policy:  SingleStack
IP Families:       IPv4
IP:                10.43.0.1
IPs:               10.43.0.1
Port:              https  443/TCP
TargetPort:        6443/TCP
Endpoints:         192.17.63.9:6443
Session Affinity:  None
Events:            <none>

controlplane ~ ➜
```

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06-12-2023

---

1 2 3 4 5 6 7 8 9 10 11

How many Endpoints are attached on the `kubernetes` service?

- 1
- 3
- 0
- 2

```
NAME         TYPE        CLUSTER-IP    EXTERNAL-IP   PORT(S)    AGE
kubernetes   ClusterIP   10.43.0.1     <none>        443/TCP    19m

controlplane ~ ➜ kubectl describe svc
Name:              kubernetes
Namespace:         default
Labels:            component=apiserver
                   provider=kubernetes
Annotations:       <none>
Selector:          <none>
Type:              ClusterIP
IP Family Policy:  SingleStack
IP Families:       IPv4
IP:                10.43.0.1
IPs:               10.43.0.1
Port:              https  443/TCP
TargetPort:        6443/TCP
Endpoints:         192.17.63.9:6443
Session Affinity:  None
Events:            <none>

controlplane ~ ➜
```

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1 2 3 4 5 6 7 8 9 10 11 ▶|

How many Deployments exist on the system now?

In the current(default) namespace

2

4

0

1

```
Labels:                   component=apiserver
                          provider=kubernetes
Annotations:              <none>
Selector:                 <none>
Type:                     ClusterIP
IP Family Policy:         SingleStack
IP Families:              IPv4
IP:                       10.43.0.1
IPs:                      10.43.0.1
Port:                     https   443/TCP
TargetPort:               6443/TCP
Endpoints:                192.17.63.9:6443
Session Affinity:         None
Events:                   <none>

controlplane ~ ➜ kubectl get deployment
NAME                        READY   UP-TO-DATE   AVAILABLE   AGE
simple-webapp-deployment    4/4     4            4           79s

controlplane ~ ➜ []
```

Feedback

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1 2 3 4 5 6 7 8 9 10 11 ▶|

What is the image used to create the pods in the deployment?

kodekloud/simple-webapp:red

BUSYBOX-POD

BUSYBOX-CONTAINER

BUSYBOX777

NGINX

```
Annotations:      <none>
Status:           Running
IP:               10.42.0.10
IPs:
  IP:             10.42.0.10
Controlled By:    ReplicaSet/simple-webapp-deployment-7b4d799f4d
Containers:
  simple-webapp:
    Container ID:   containerd://bc4bb7a07fa2e95eef1f5c75c59454a1f8191c5cee16fdf
83bb21ff4c5c15e3d
    Image:          kodekloud/simple-webapp:red
    Image ID:       docker.io/kodekloud/simple-webapp@sha256:175ba08b8986076df14
c40db45c4cc1fbbb16ffff031a646d6bc98f20fb5d902
    Port:           8080/TCP
    Host Port:      0/TCP
    State:          Running
      Started:      Wed, 06 Dec 2023 09:35:07 +0000
    Ready:          True
    Restart Count:  0
    Environment:    <none>
    Mounts:
      /var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-2b6ct (
```

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Task 38:52

Terminal 1 + 🖥 simple-webapp-ui

1 2 3 4 5 6 7 8 **9** 10 11

Are you able to accesss the Web App UI?

Try to access the Web Application UI using the tab `simple-webapp-ui` above the terminal.

YES

NO ✓

```
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controlplane ~ ➜ kubectl get deployment
NAME                       READY   UP-TO-DATE   AVAILABLE   AGE
simple-webapp-deployment   4/4     4            4           4m29s

controlplane ~ ➜ kubectl describe pod simple-webapp-deployment
Name:              simple-webapp-deployment-7b4d799f4d-b8npz
Namespace:         default
Priority:          0
Service Account:   default
Node:              controlplane/192.17.63.9
```

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Task   Hint   Solution   28:52

Terminal 1 + 🖥 simple-webapp-ui

Create a new service to access the web application using the `service-definition-1.yaml` file.

Name: webapp-service

Type: NodePort

targetPort: 8080

port: 8080

nodePort: 30080

selector:

name: simple-webapp

```
controlplane ~ ➜ vi service-definition-1.yaml

controlplane ~ ➜ kubectl create -f service-definition-1.yaml
service/webapp-service created

controlplane ~ ➜
```

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| Task | Hint | Solution | 28:43 ⏰ ⛶ |

Terminal 1 ⊕ | simple-webapp-ui ≡

```
nodeport:  30080

selector:

  name:  simple-webapp
```

| Complete ✓ | Next |

✓ Is service created?

✓ Is it type nodeport?

✓ Is the port set?

✓ Is the target port set?

✓ Is the node port set?

✓ Is the selector set?

```
controlplane ~ ➜ vi service-definition-1.yaml

controlplane ~ ➜ kubectl create -f service-definition-1.yaml
service/webapp-service created

controlplane ~ ➜ []
```

Feedback

Search

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Task 28:00 ⏰ ⛶

Terminal 1 +

```
controlplane ~ ➜ vi service-definition-1.yaml

controlplane ~ ➜ kubectl create -f service-definition-1.yaml
service/webapp-service created

controlplane ~ ➜ []
```

Feedback

CONGRATULATIONS!!!!

You have successfully completed the challenge.

🏁 **End Lab session**