

Kubernetes Networking

Adfinis**sy**Group

Be smart. Think open source.

Kubernetes Networking

Hands-on with what's happening in the background

Create a service

```
apiVersion: v1
kind: Service
metadata:
  labels:
    app: hello-world
  name: apache-hello-world
  namespace: example
spec:
  ports:
  - name: http
    port: 80
    protocol: TCP
    targetPort: 80
  selector:
    app: hello-world
```

Create a service

```
$ kubectl create -f 02_service.yaml  
service/apache-hello-world created
```

Describe the service

```
$ kubectl describe service/apache-hello-world
Name:         apache-hello-world
Namespace:    example
Labels:       app=hello-world
Annotations:  <none>
Selector:     app=hello-world
Type:         ClusterIP
IP:           172.16.4.19
Port:         http 80/TCP
TargetPort:   80/TCP
Endpoints:    172.24.137.45
Session Affinity: None
Events:       <none>
```

Look for you service in iptables

```
$ iptables | grep 'example/apache-hello-world'  
-A KUBE-SEP-6LAKM6QVW4IKLDQJ -s 172.16.4.19/32 [...] -j KUBE-MARK-MASQ  
-A KUBE-SEP-6LAKM6QVW4IKLDQJ -p tcp [...] -m tcp -j DNAT --to-destination 172.16.4.19:80  
-A KUBE-SERVICES -d 172.16.4.19/32 -p tcp [...] -m tcp --dport 80 -j KUBE-SVC-33Y4WN6EIX3LNYJ  
-A KUBE-SVC-33Y4WN6EIX3LNYJ [...] -j KUBE-SEP-6LAKM6QVW4IKLDQJ
```

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