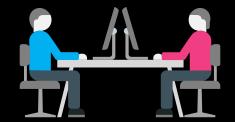


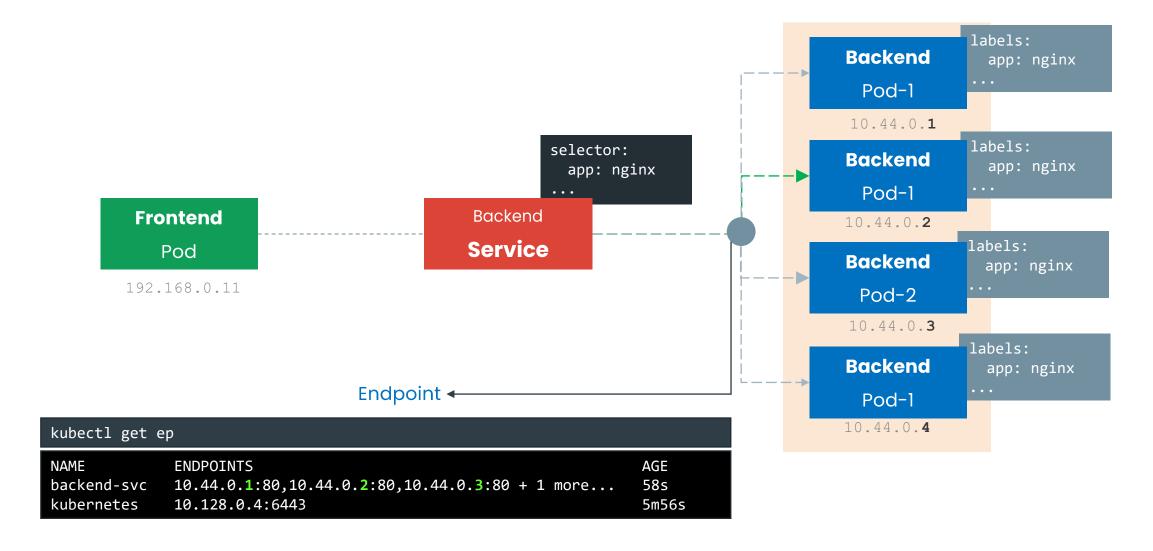


Endpoints





WHAT IS A Service Discovery?





EXAMPLE-1: CREATING ENDPOINT MANUALLY

Service

```
kind: Service
apiVersion: v1
metadata:
  name: external-web
spec:
  ports:
  - name: apache
    protocol: TCP
    port: 80
```

Endpoint

```
kind: Endpoints
apiVersion: v1
metadata:
  name: external-web
subsets:
  - addresses:
      - ip: 192.0.2.24 #The IP Address of the external web server
   ports:
     - port: 80
       name: apache
```



NETWORKING

Deployment (Backend)

```
apiVersion: apps/v1
kind: Deployment
metadata:
 name: backend-deploy
 labels:
   app: nginx
spec:
 replicas: 4
 |selector:
   matchLabels:
     app: backend-pod
 template:
   metadata:
     labels:
       app: backend-pod
   spec:
     containers:
     - name: nginx-container
       image: nginx
       ports:
       - containerPort: 80
```

Service (Backend) (This automatically creates the backend)

```
apiVersion: v1
kind: Service
metadata:
 name: backend-svc
spec:
  ports:
  - name: http
   port: 80
   targetPort: 80
   protocol: TCP
selector:
   app: backend-pod
```

NETWORKING

kubectl get svc								
NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE			
backend-svc	ClusterIP	10.103.79.239	<none></none>	80/TCP	8s			
kubernetes	ClusterIP	10.96.0.1	<none></none>	443/TCP	16m			

kubectl get ep						
NAME	ENDPOINTS	AGE				
backend-svc	10.44.0.1:80,10.44.0.2:80,10.44.0.3:80 + 1 more	58s				
kubernetes	10.128.0.4:6443	5m56s				

kubectl get pods -o wide									
backend-64989f475c-5x6g9 1/1 Running 0 70s 10.44.0.3 worker1 backend-64989f475c-7gmn7 1/1 Running 0 70s 10.44.0.1 worker2 backend-64989f475c-n8g6d 1/1 Running 0 70s 10.44.0.2 worker3 <	OMINATED NODE READINESS GATES <none> <none> <none> <none> <none> <none> <none> <none> <none></none></none></none></none></none></none></none></none></none>								

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