

Services

a method for exposing a network application that is running as one or more Pods in your cluster.

NodePort	ClusterIP	Load Balancer
Expose a service on specific port of each node in cluster.	Expose a service to other service in cluster by cluster internal IP (Not to outside world)	Expose service to outside world by a specific IP

```

apiVersion: v1
kind: Service
metadata:
  name: myapp-service
spec:
  type: NodePort
  ports:
    - targetPort: 80
      port: 80
      nodePort: 30080
  selector:
    name: MyApp
  
```

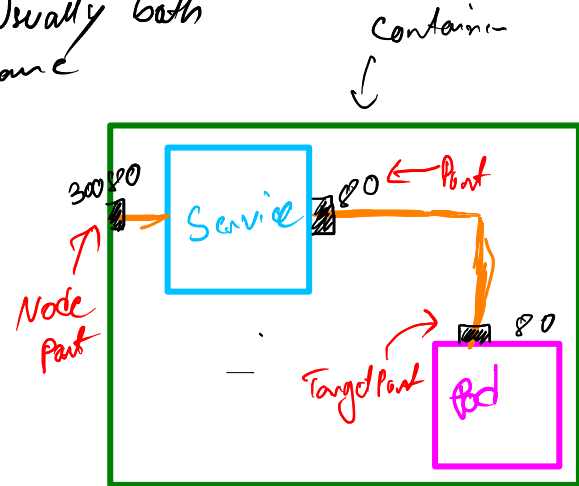
Selection for pods

Pod's Port
Pod connected to service to this port

Usually both same

Port that's exposed on Node

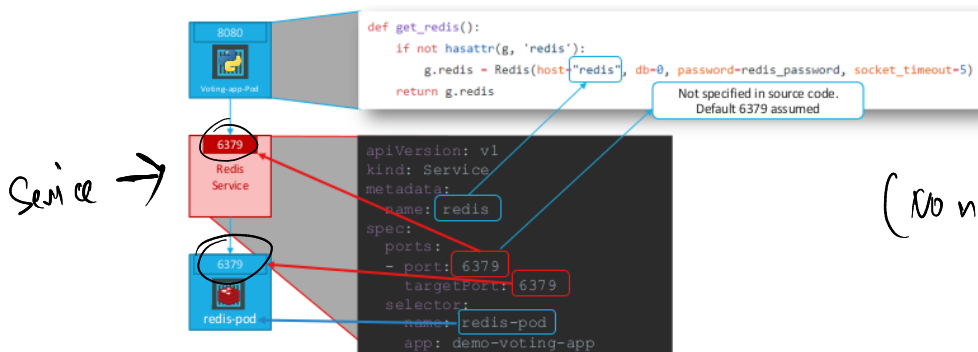
Access service via
`<node-ip> : <node-port>`



ClusterIP

→ (Type: ClusterIP)

→ We can access the service by its name



(no nodeport here!)

LoadBalancer

→ This mainly loadbalance between available
, resources

→ If there, is nodeport

- 10.0.0.1:80
- 10.0.0.2:80
- 10.0.0.3:80
- 10.0.0.4:80

→ Loadbalance
(Access via single IP)
192.168.0.1:80

```
apiVersion: v1
kind: Service
metadata:
  name: my-service
spec:
  selector:
    name: MyApp
  ports:
    - protocol: TCP
      port: 80
      targetPort: 9376
  clusterIP: 10.0.171.239
  type: LoadBalancer
status:
  loadBalancer:
    ingress:
      - ip: 192.0.2.127
```

→ NodePort not required, as it will create
some random

→ Cluster IP

→ this handle exposing Cluster IP to world