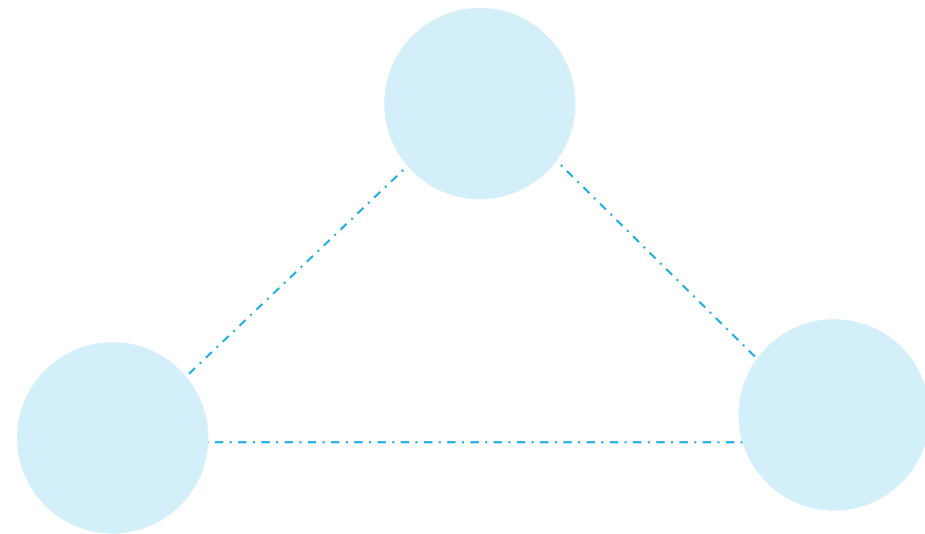
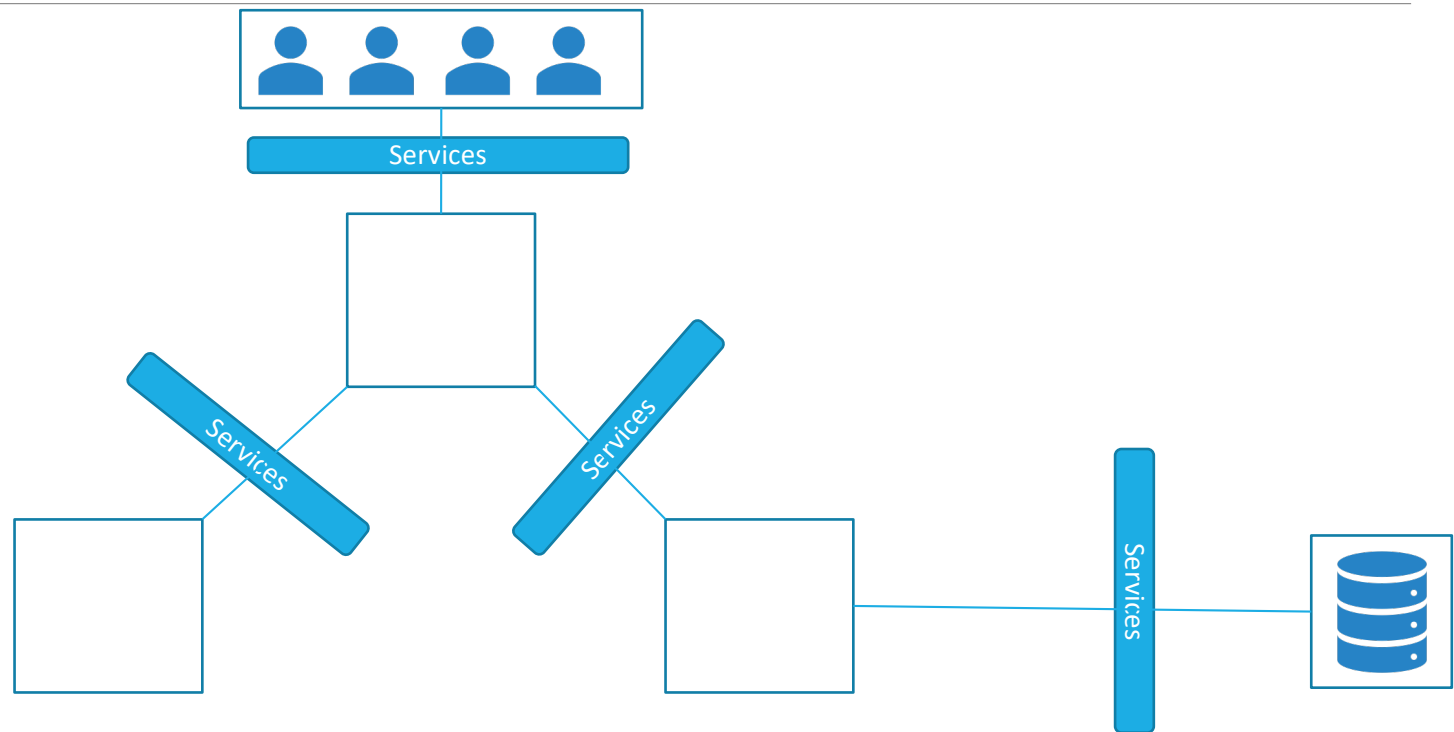


Services

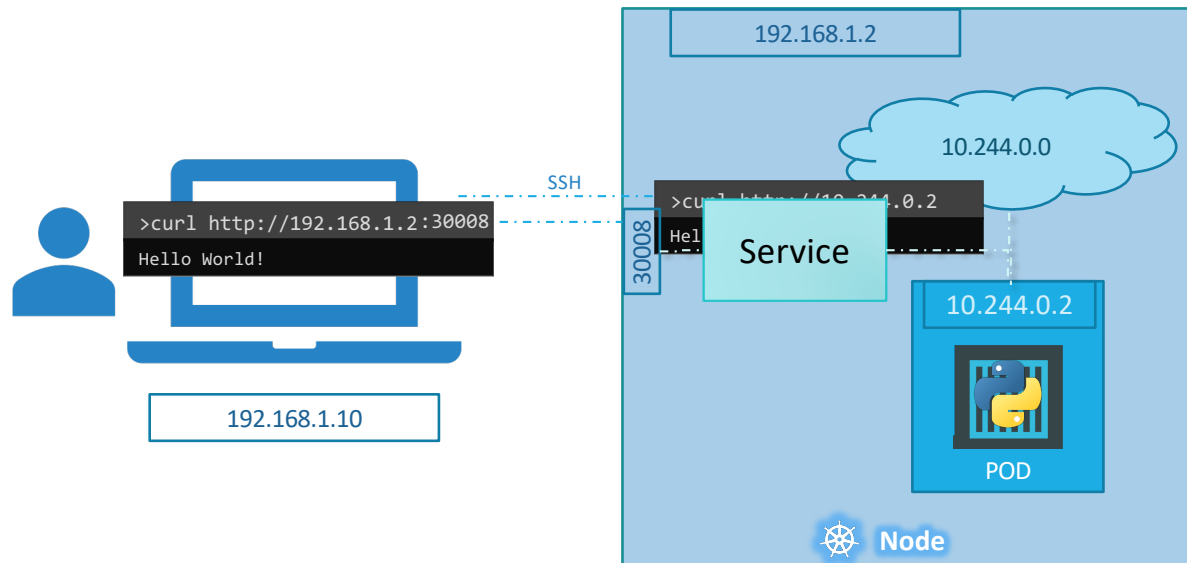


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# Services

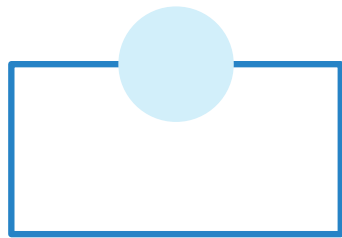


# Service

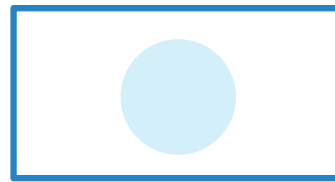


# Services Types

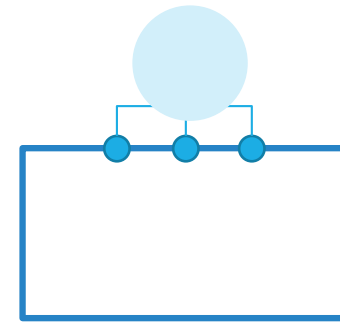
---



NodePort

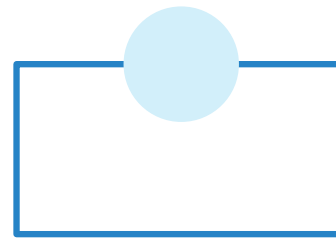


ClusterIP



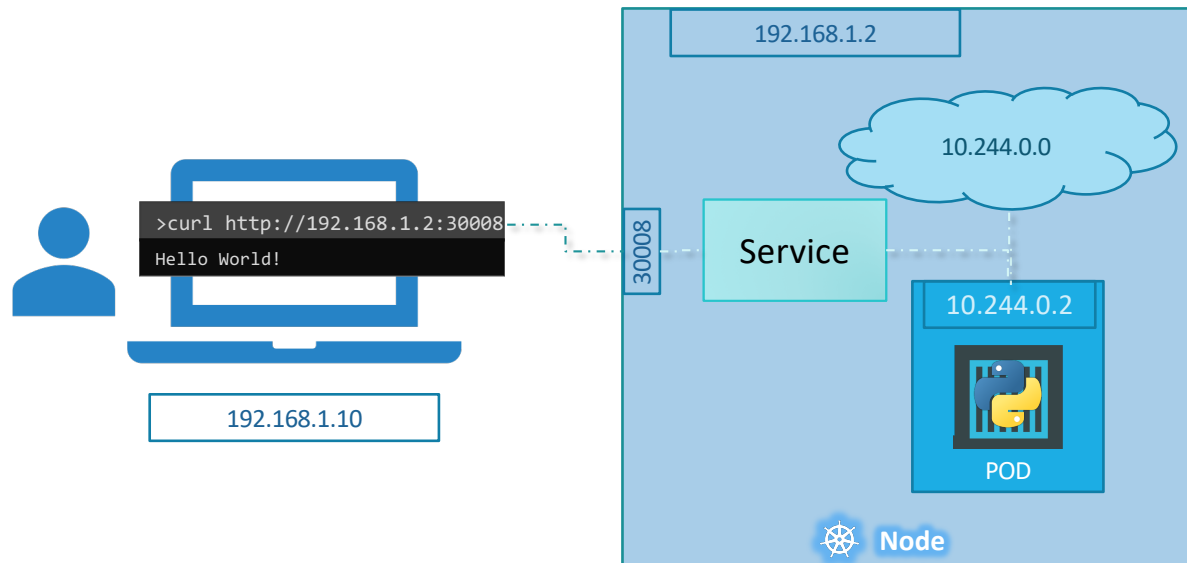
LoadBalancer

NodePort



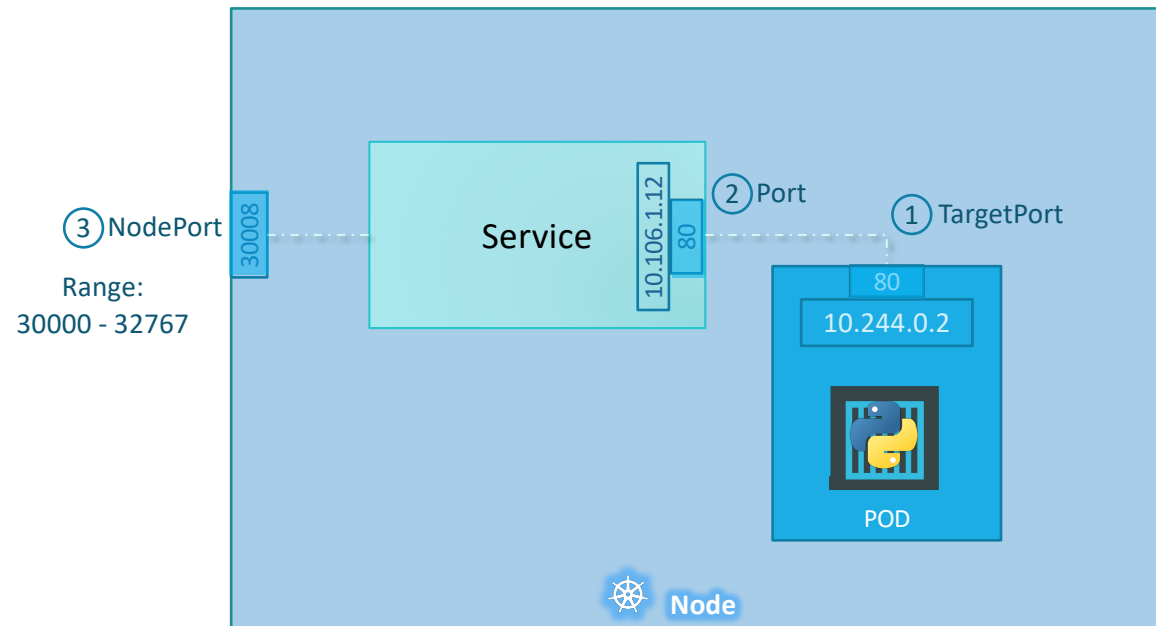
# Service - NodePort

---

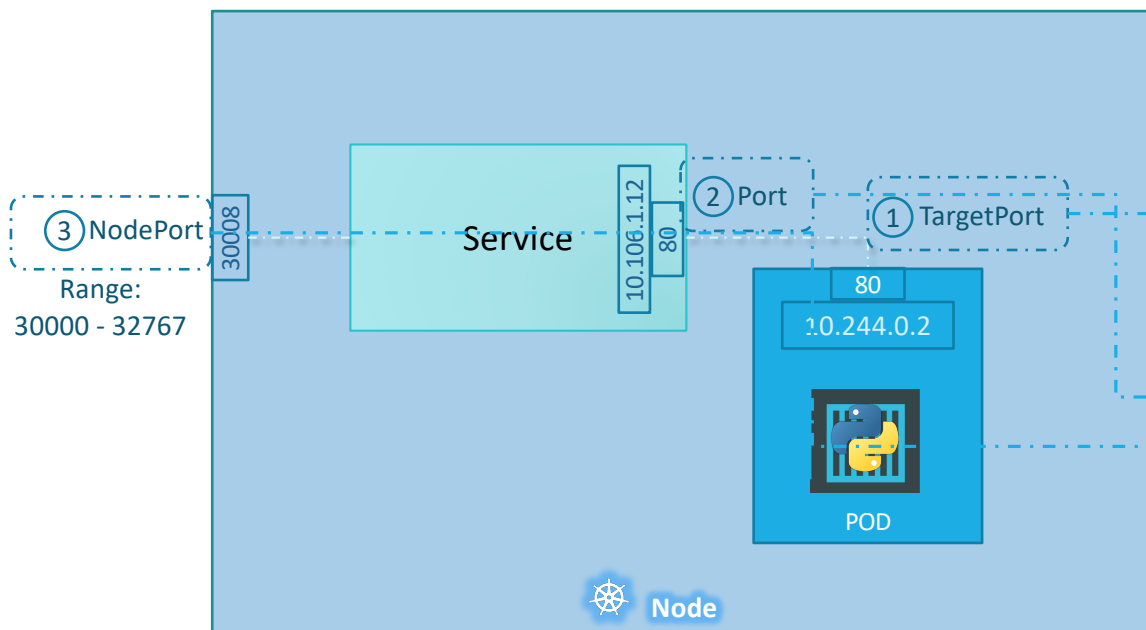


# Service - NodePort

---



# Service - NodePort



```
service-definition.yml

apiVersion: v1
kind: Service
metadata:
  name: myapp-service
spec:
  type: NodePort
  ports:
    - targetPort: 80
      *port: 80
      nodePort: 30008
```



# Service - NodePort

service-definition.yml

```
apiVersion: v1
kind: Service
metadata:
  name: myapp-service
spec:
  type: NodePort
  ports:
    - targetPort: 80
      port: 80
      nodePort: 30008
  selector:
```

pod-definition.yml

```
> kubectl create -f service-definition.yml
```

```
service "myapp-service" created
```

```
> kubectl get services
```

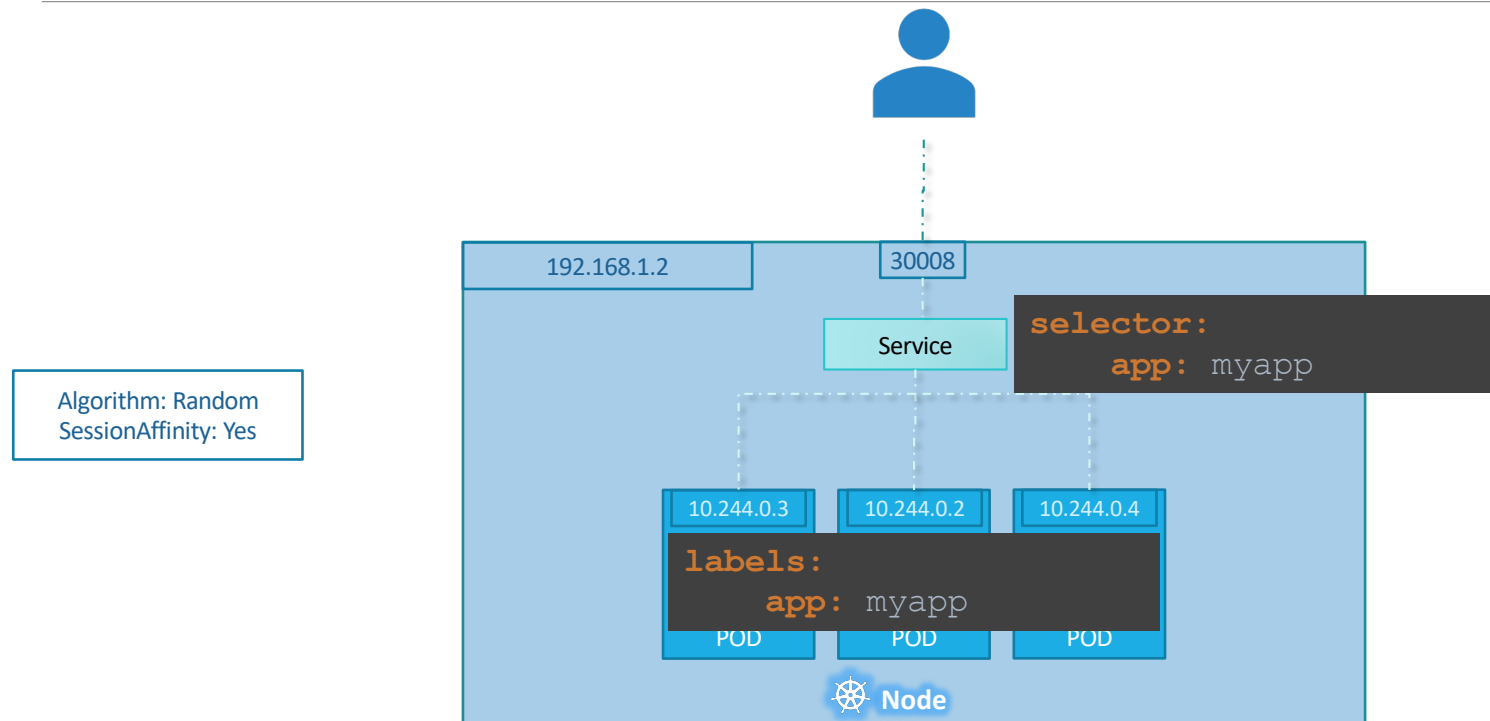
NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
kubernetes	ClusterIP	10.96.0.1	<none>	443/TCP	16d
myapp-service	NodePort	10.106.127.123	<none>	80:30008/TCP	5m

app: myapp

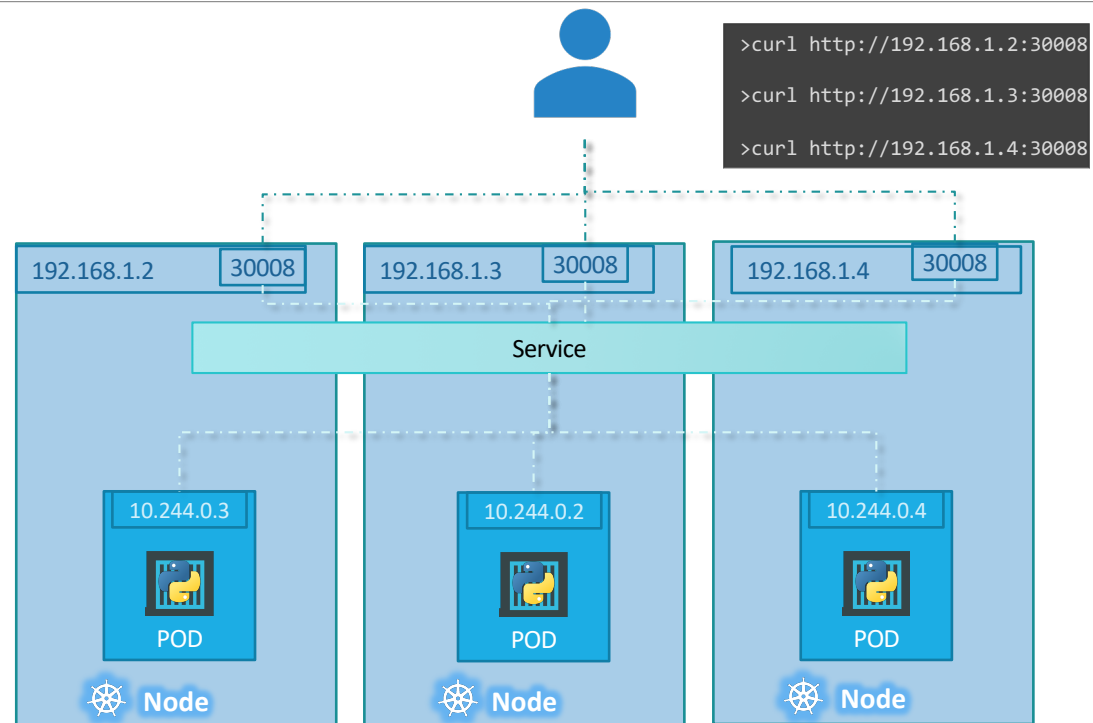
```
> curl http://192.168.1.2:30008
```

```
<html>
<head>
<title>Welcome to nginx!</title>
<style>
  body {
    width: 35em;
    margin: 0 auto;
    font-family: Tahoma, Verdana, Arial, sans-serif;
  }
</style>
</head>
<body>
```

# Service - NodePort



# Service - NodePort



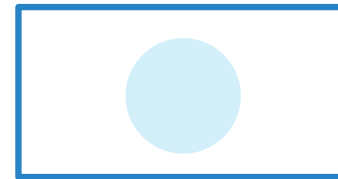
# Demo

---

Service - NodePort

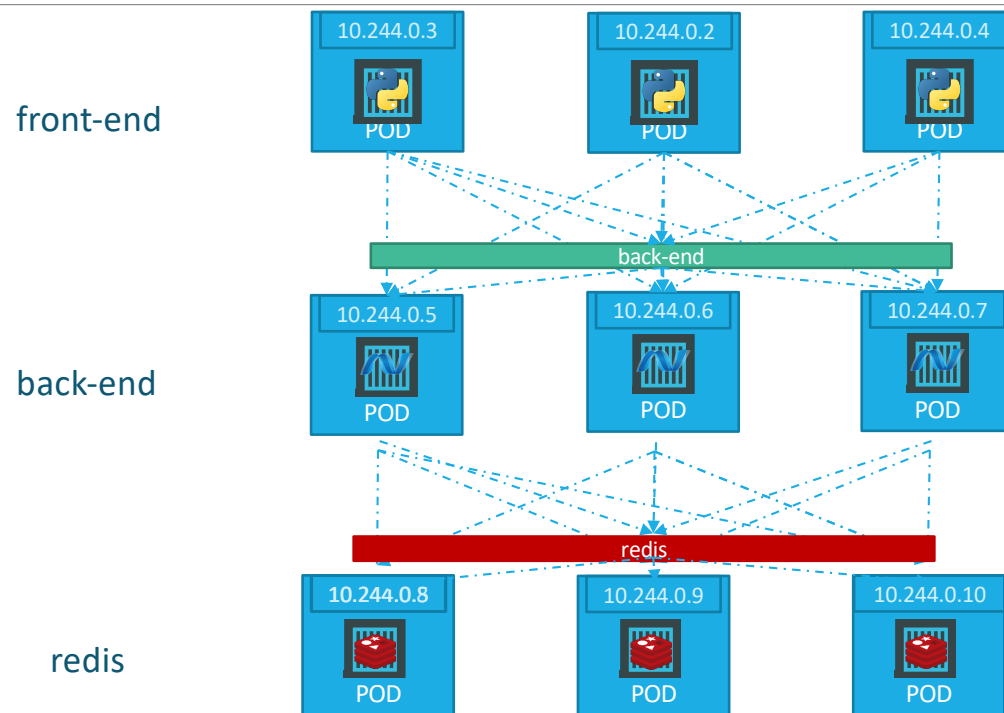


ClusterIP



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# ClusterIP



```
service-definition.yml
```

```
apiVersion: v1
kind: Service
metadata:
  name: back-end
spec:
  type: ClusterIP
  ports:
    - targetPort: 80
      port: 80
  selector:
```

```
pod-definition.yml
```

```
> kubectl create -f service-definition.yml
```

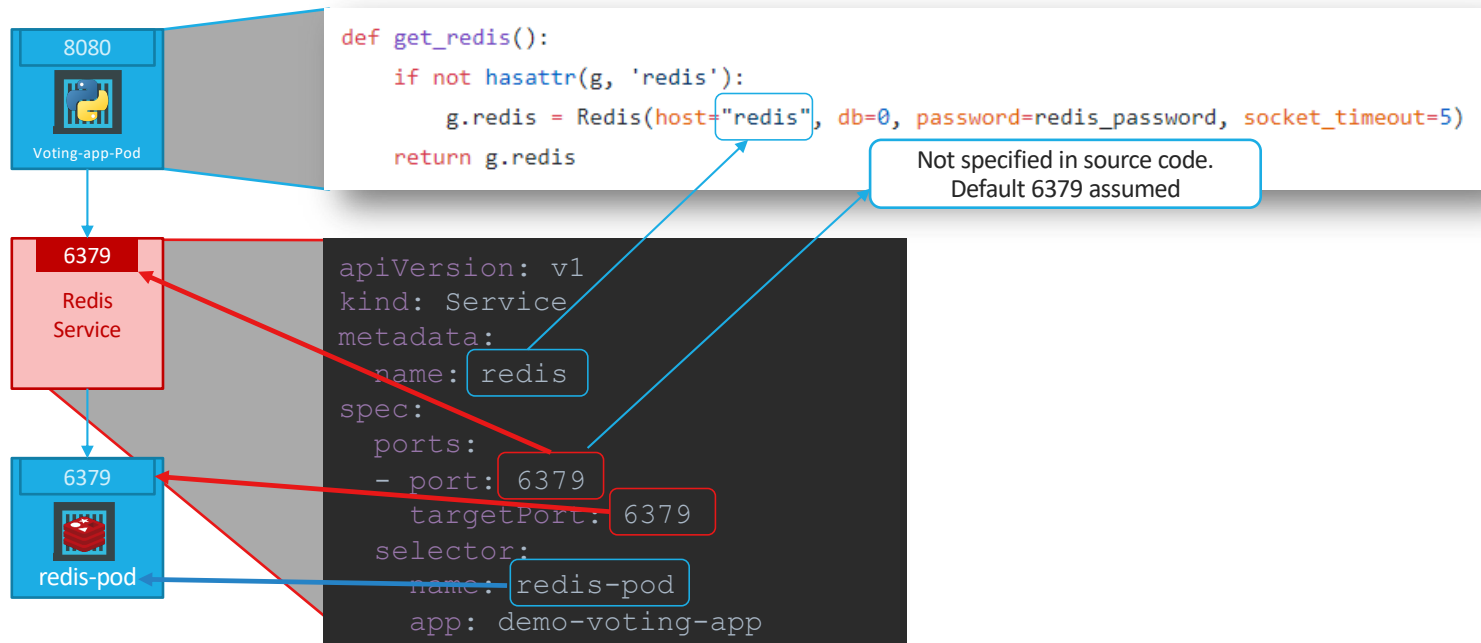
```
service "back-end" created
```

```
> kubectl get services
```

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
kubernetes	ClusterIP	10.96.0.1	<none>	443/TCP	16d
back-end	ClusterIP	10.106.127.123	<none>	80/TCP	2m

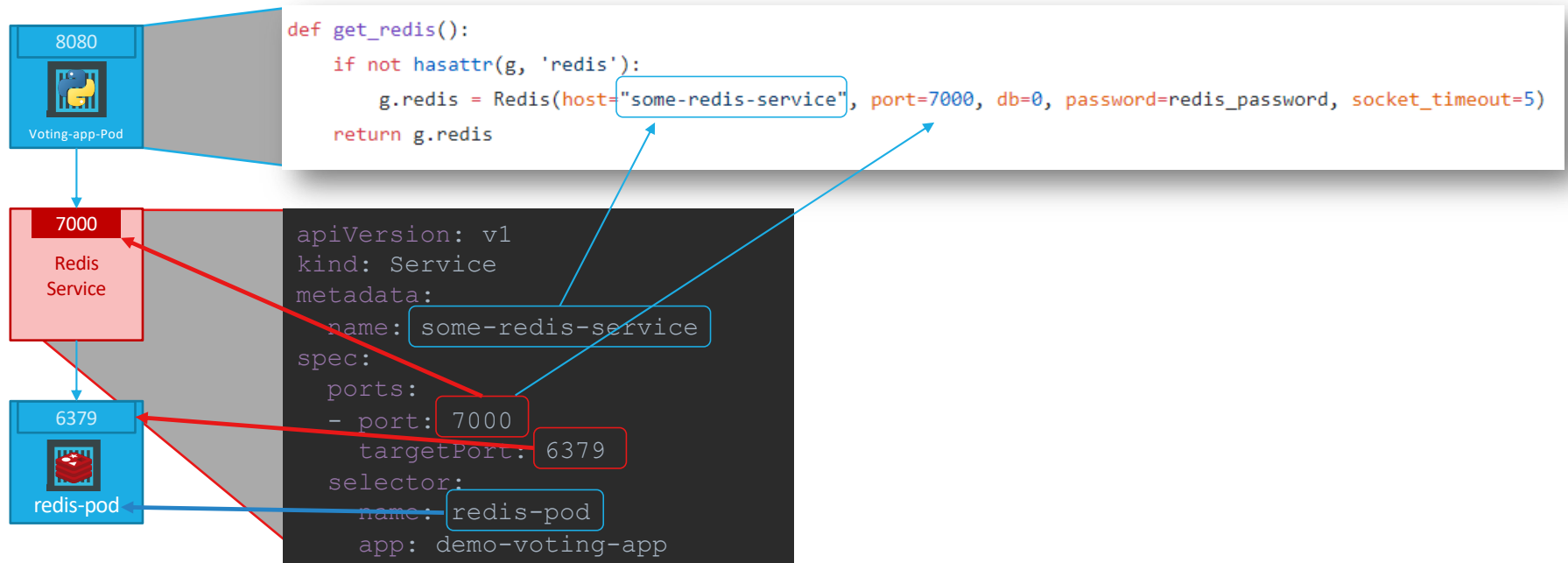
```
    app: myapp
    type: back-end
spec:
  containers:
    - name: nginx-container
      image: nginx
```

# Service





# Service



# Demo

---

Service - NodePort

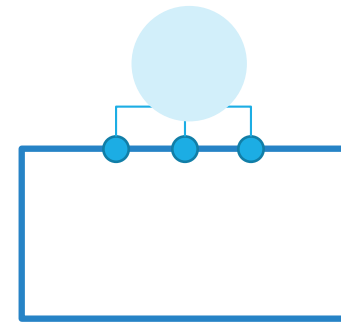


# References

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<https://kubernetes.io/docs/concepts/services-networking/dns-pod-service/>

Service -  
LoadBalancer



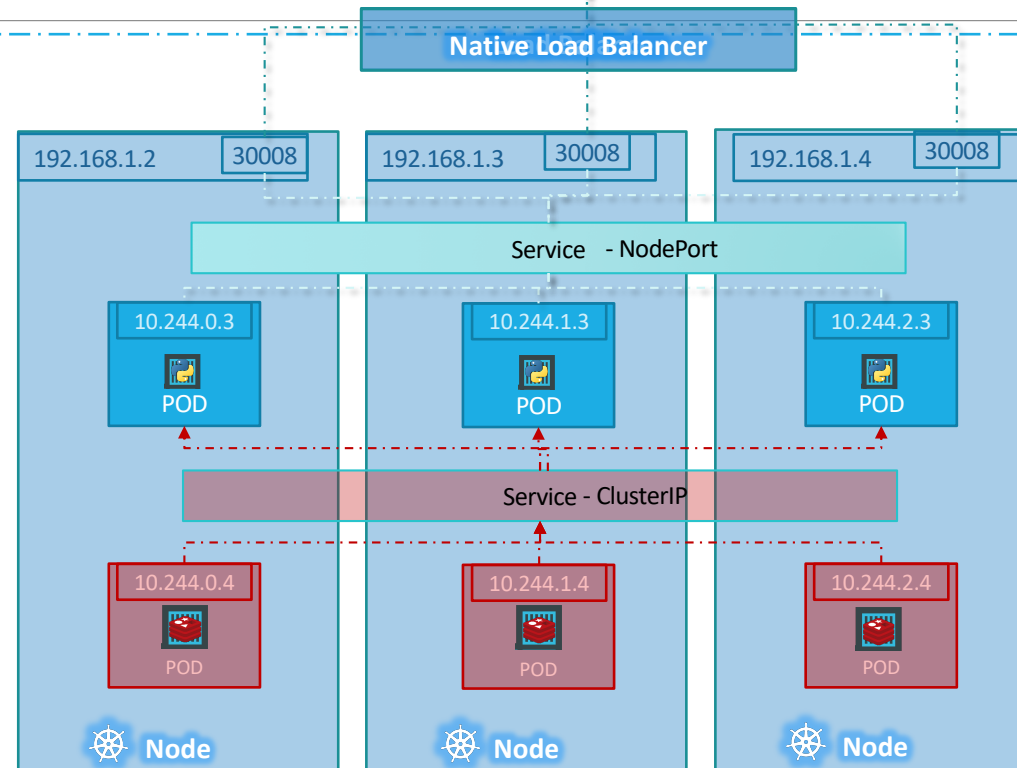
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# Services



```
>curl http://myapp.com
```

```
>curl http://192.168.1.2:30008  
>curl http://192.168.1.3:30008  
>curl http://192.168.1.4:30008
```



```
service-definition.yml
```

```
apiVersion: v1
kind: Service
metadata:
  name: front-end
spec:
  type: NodeBalancer
  ports:
    - targetPort: 80
      port: 80

  selector:
    app: myapp
    type: front-end
```

```
> kubectl create -f service-definition.yml
```

```
service "front-end" created
```

```
> kubectl get services
```

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
kubernetes	ClusterIP	10.96.0.1	<none>	443/TCP	16d
front-end	LoadBalancer	10.106.127.123	<Pending>	80/TCP	2m