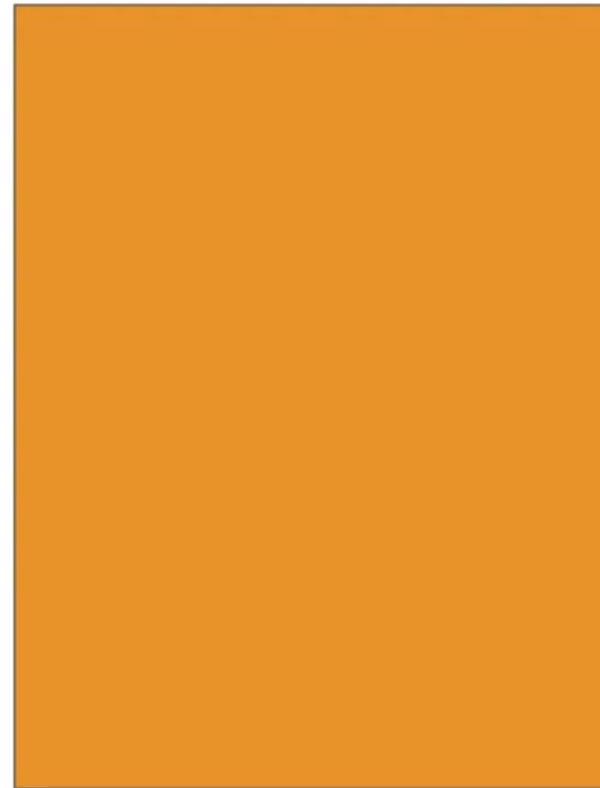


Node - 1



Node - 2

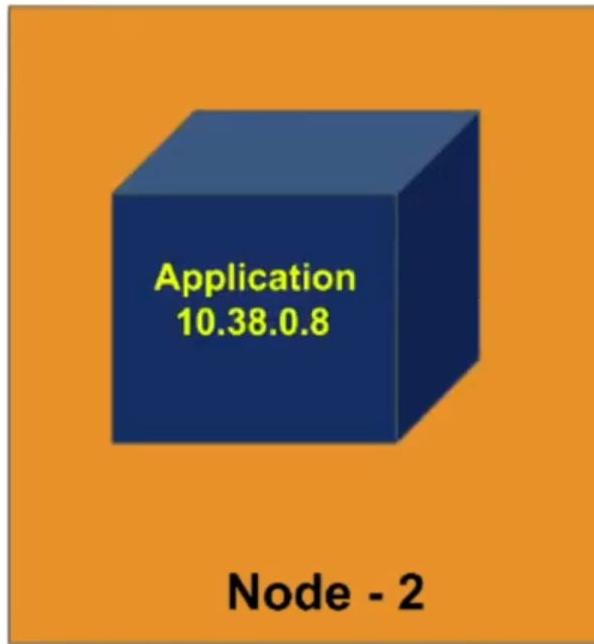
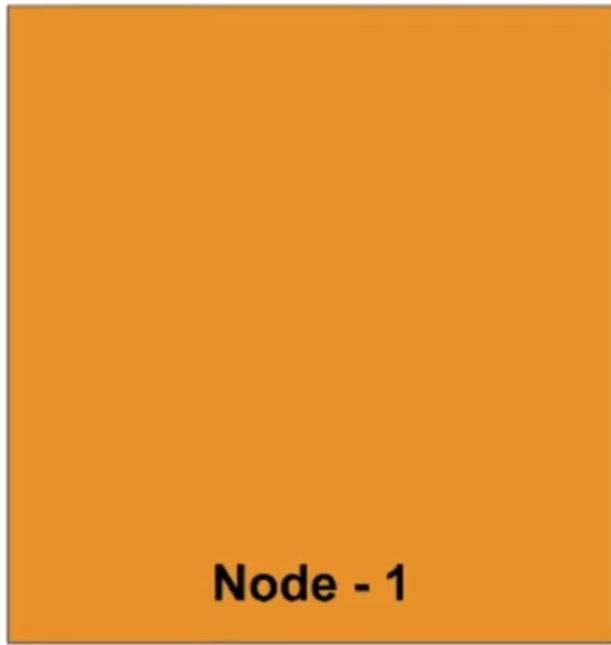


Node - 1



Node - 2



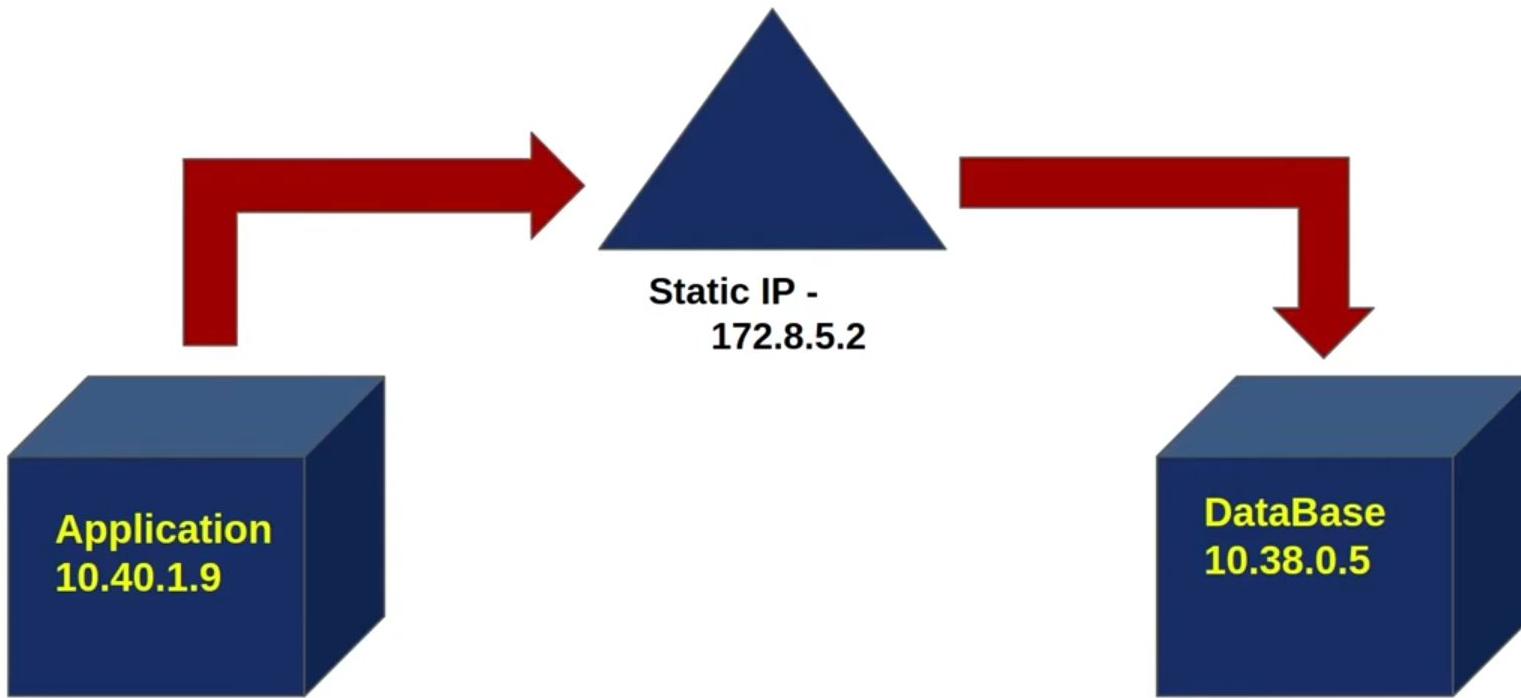


How to access the application running in the pod?



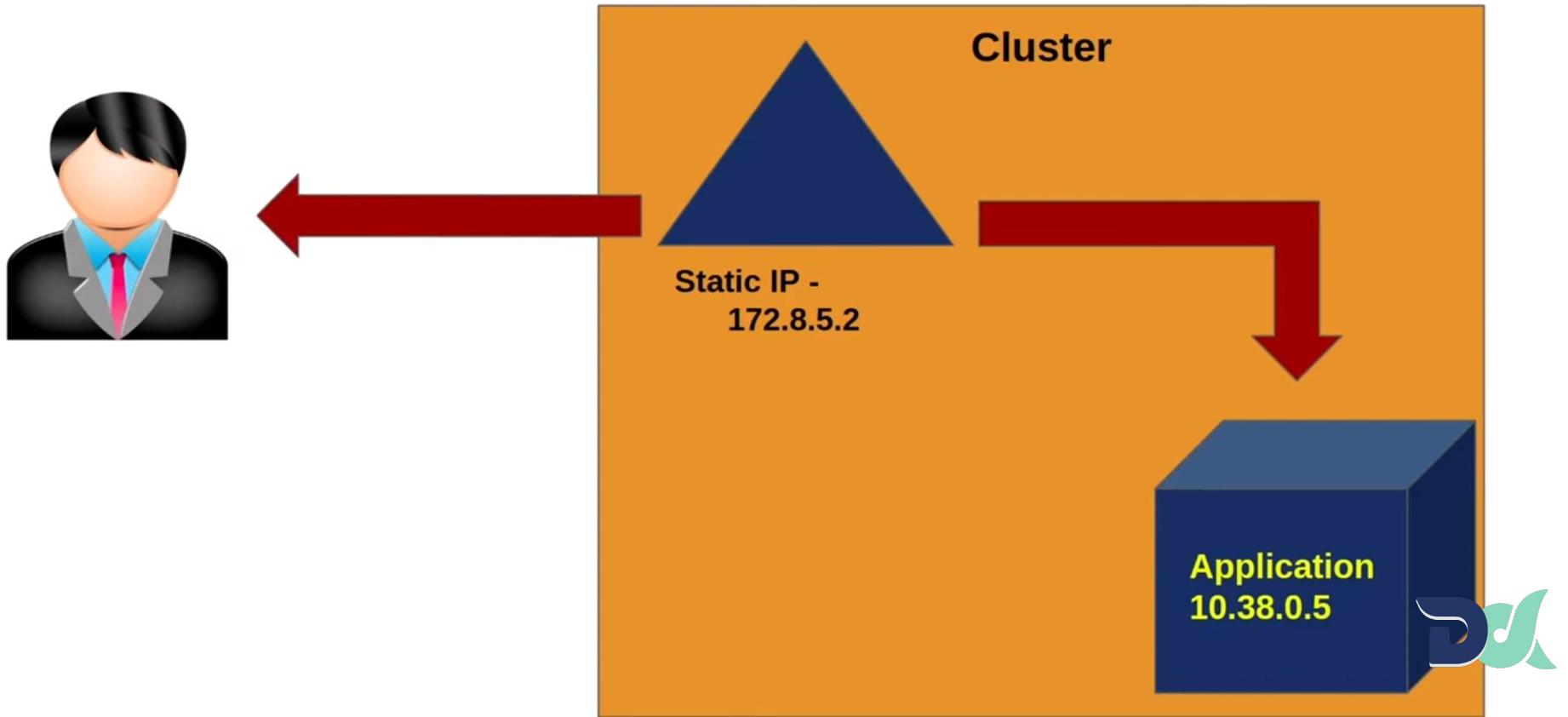
Service

Help to communicate



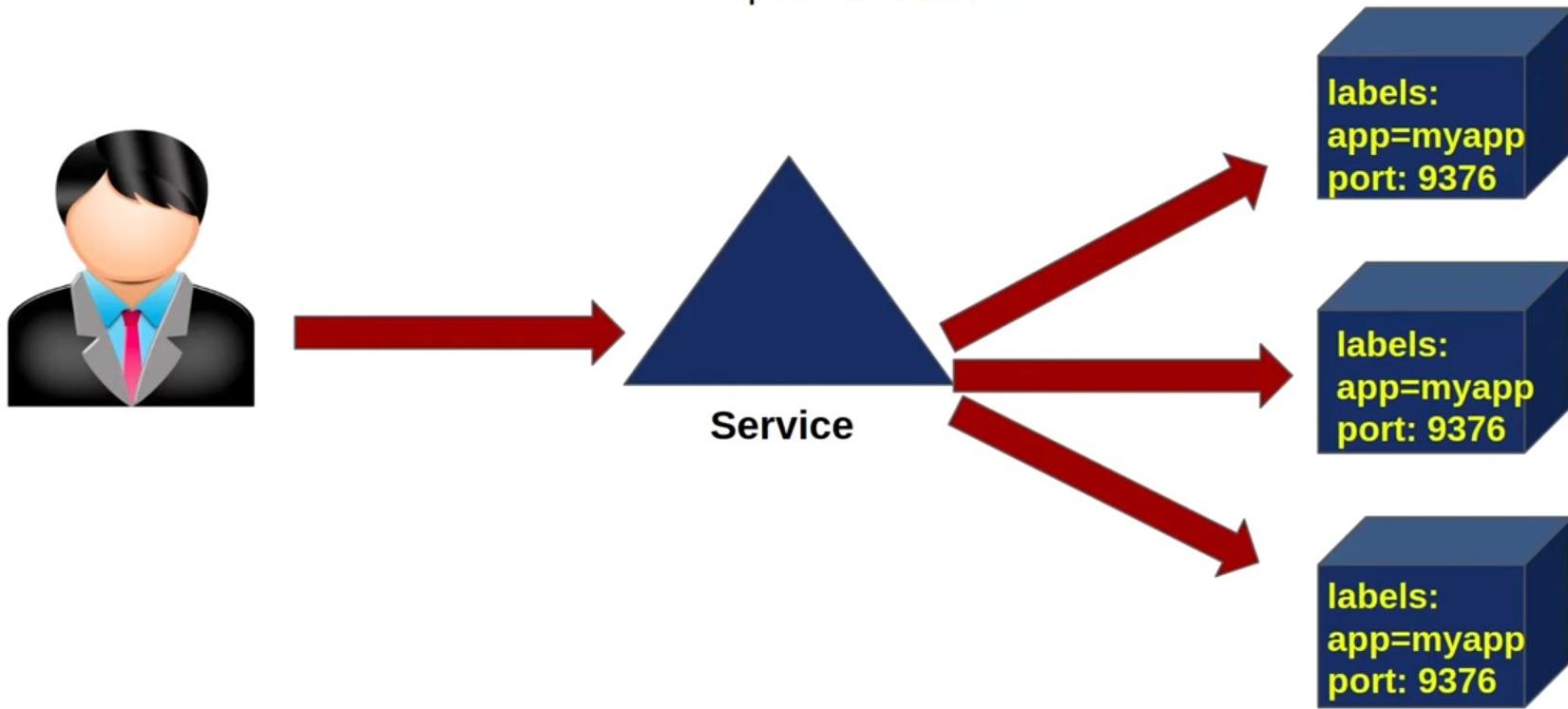
Service

Accessing application outside the cluster



Concept Of Service

Equal Distribution



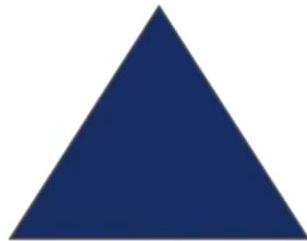
Types Of Services



NodePort



ClusterIP



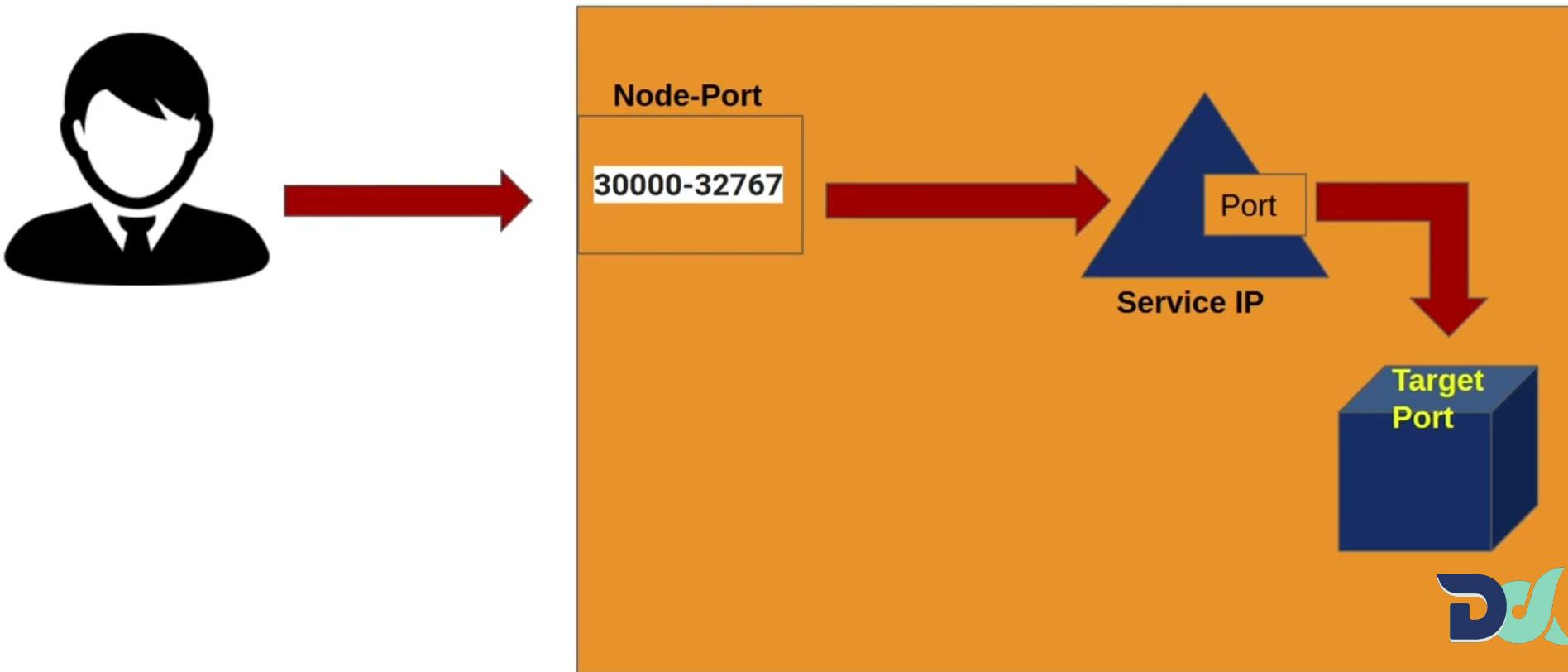
Load-Balancer



ExternalName

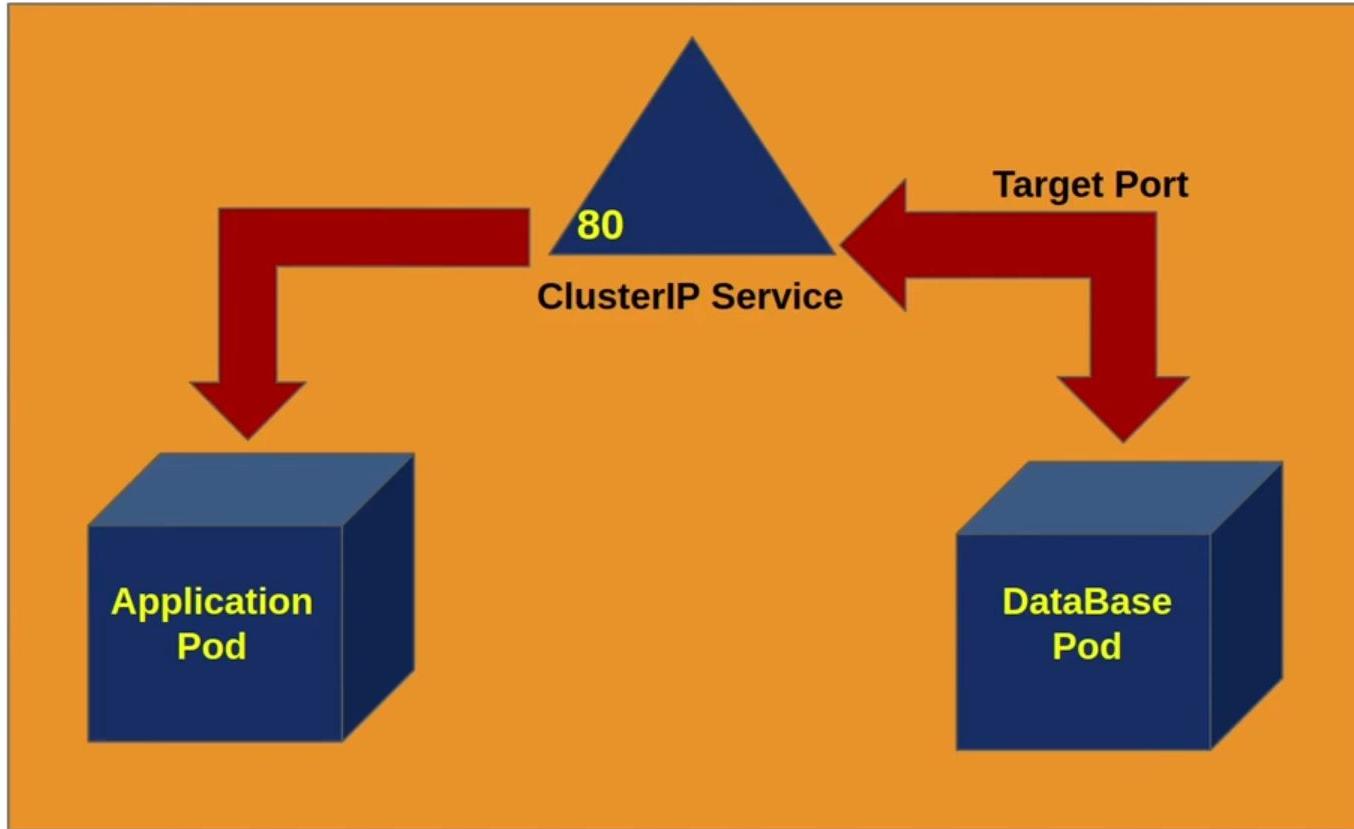
NodePort Service

Accessible from the outside but only in same network



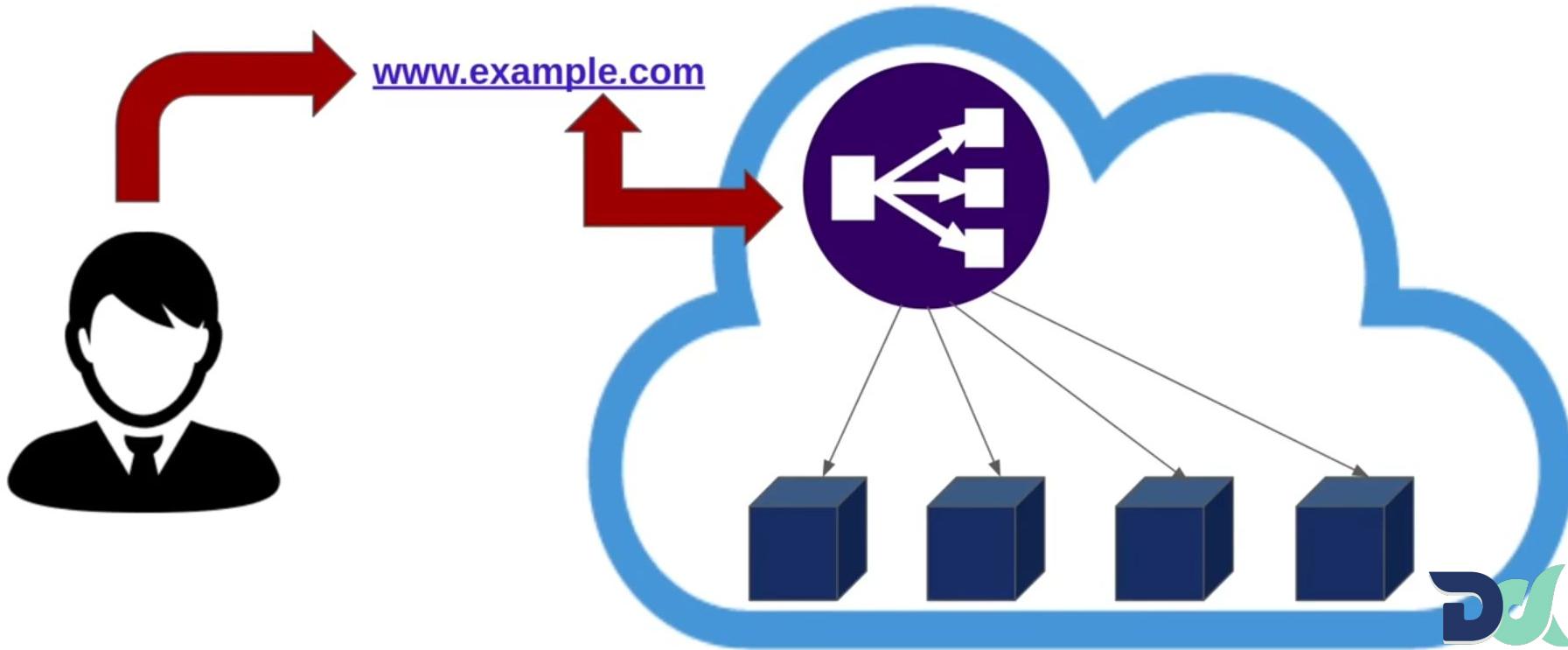
ClusterIP Service

Only Accessible within the Cluster



Load Balancer Service

- On cloud providers which support external load balancers
- Have to Provision a Load Balancer



ExternalName Service

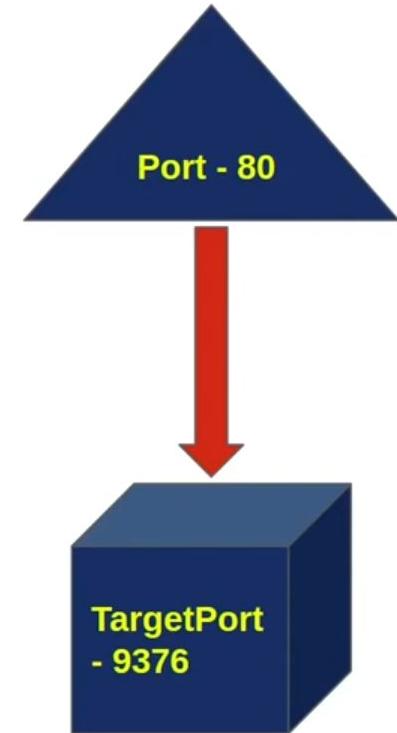
Services of type External Name map a Service to a DNS name

```
apiVersion: v1
kind: Service
metadata:
  name: my-service
  namespace: prod
spec:
  type: ExternalName
  externalName: my.database.example.com
```



Service File

```
apiVersion: v1
kind: Service
metadata:
  name: my-service
spec:
  selector:
    app: MyApp
  ports:
    - protocol: TCP
      port: 80
      targetPort: 9376
```



How to Create Service?

Declarative Way

```
apiVersion: v1
kind: Service
metadata:
  name: my-service
spec:
  type: NodePort
  selector:
    app: MyApp
  ports:
    - port: 80
      targetPort: 80
      nodePort: 30007
```

Imperative Way

Using **Expose** Keyword



Questions

1. Create two pods named blue and red with image nginx and expose 80 port for blue pod.
2. Create a NodePort service for the blue pod.
3. Create a ClusterIp service for red pod.
4. Delete the nodeport service of blue pod.
5. Again create a nodeport service for blue pod and use-
 - a. Port - 8080
 - b. NodePort - 32711
 - c. Target Port - 80

