





# INTRODUCTION TO KUBERNETES





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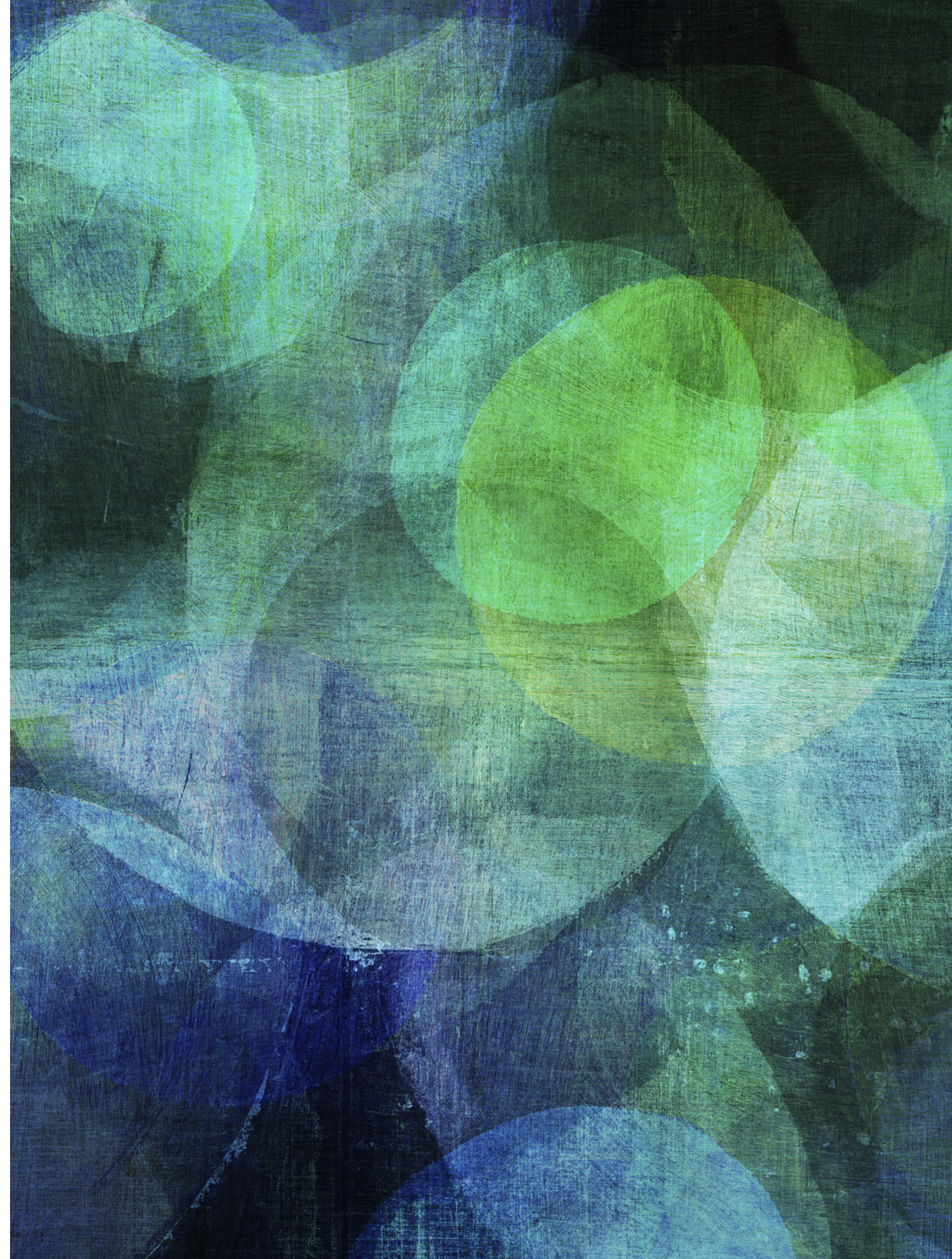
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Kubernetes Services



# AGENDA

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# AGENDA

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– What/Why Service





# AGENDA

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- What/Why Service
- Cluster IP





# AGENDA

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- What/Why Service
  - Cluster IP
- Headless Service





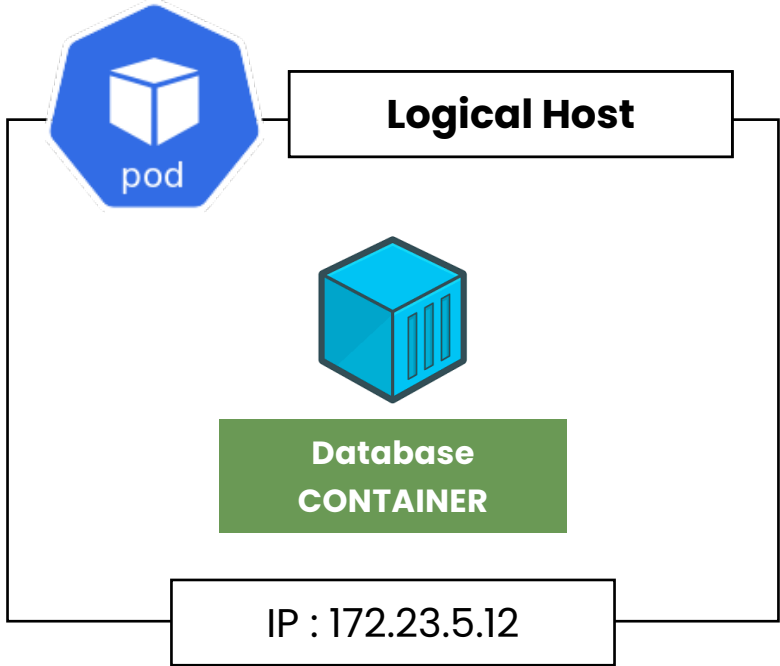
# WHAT/WHY SERVICE

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# SERVICE – STABLE IP

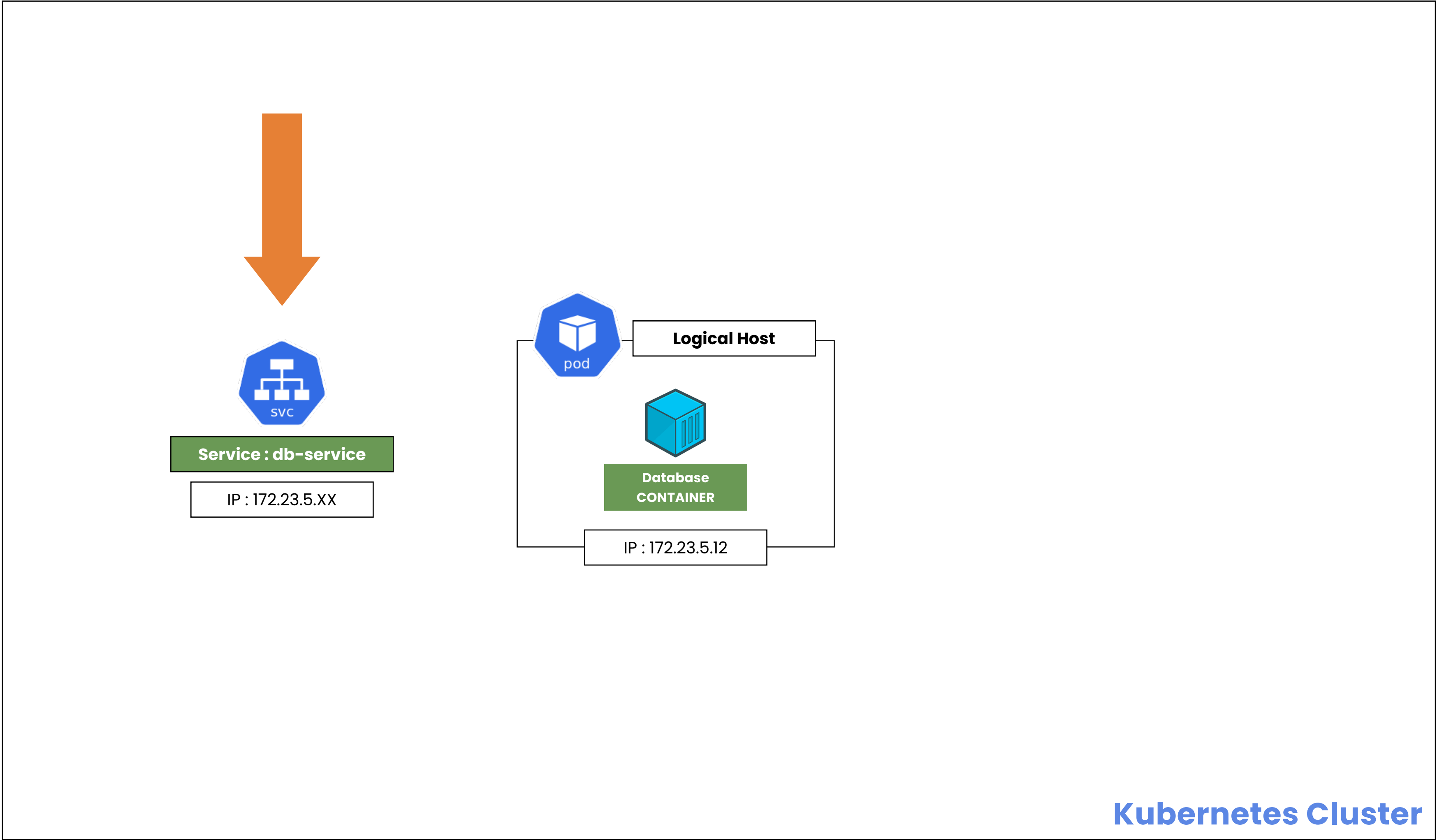
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Kubernetes Cluster

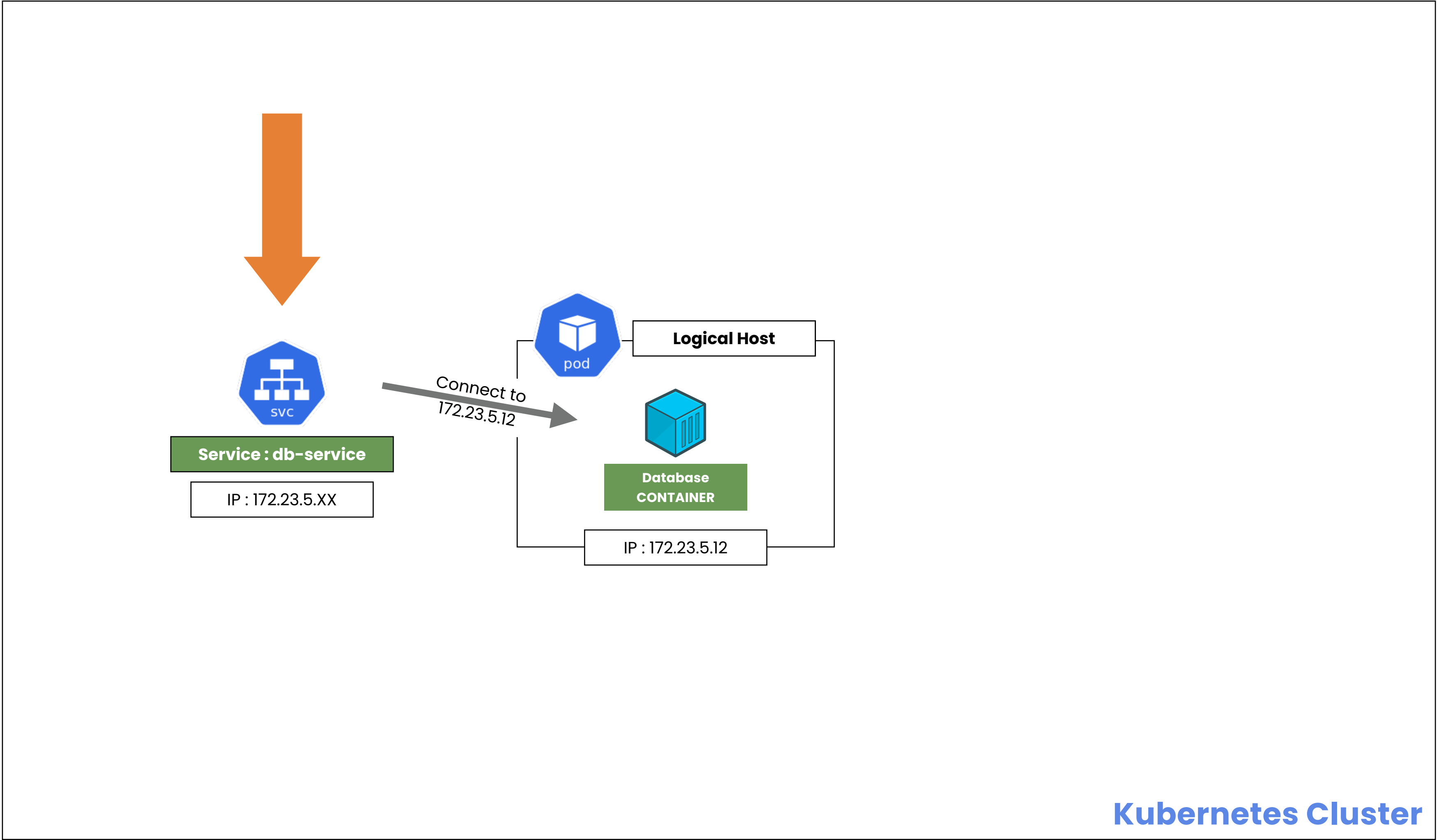


# SERVICE – STABLE IP





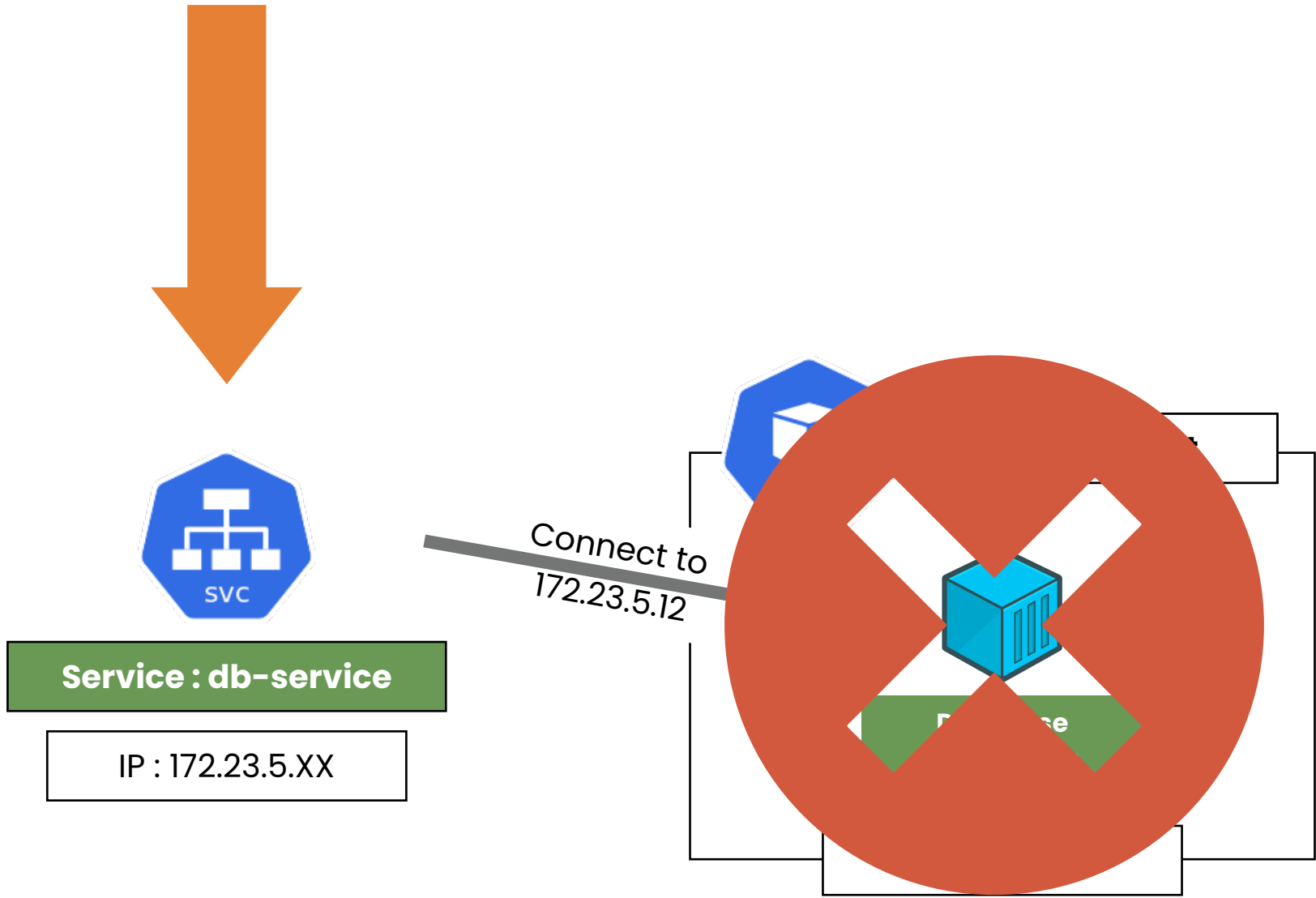
# SERVICE – STABLE IP





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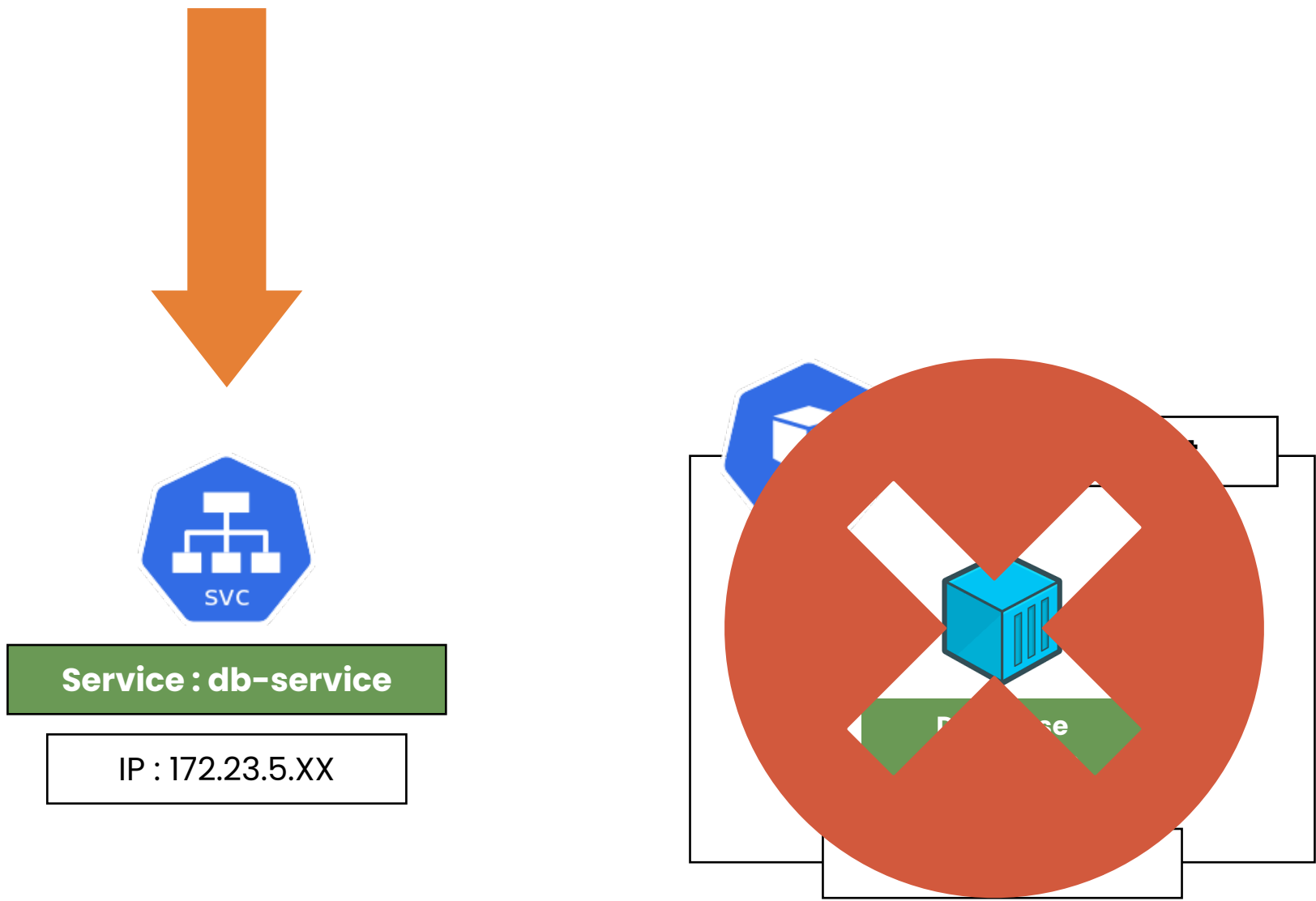
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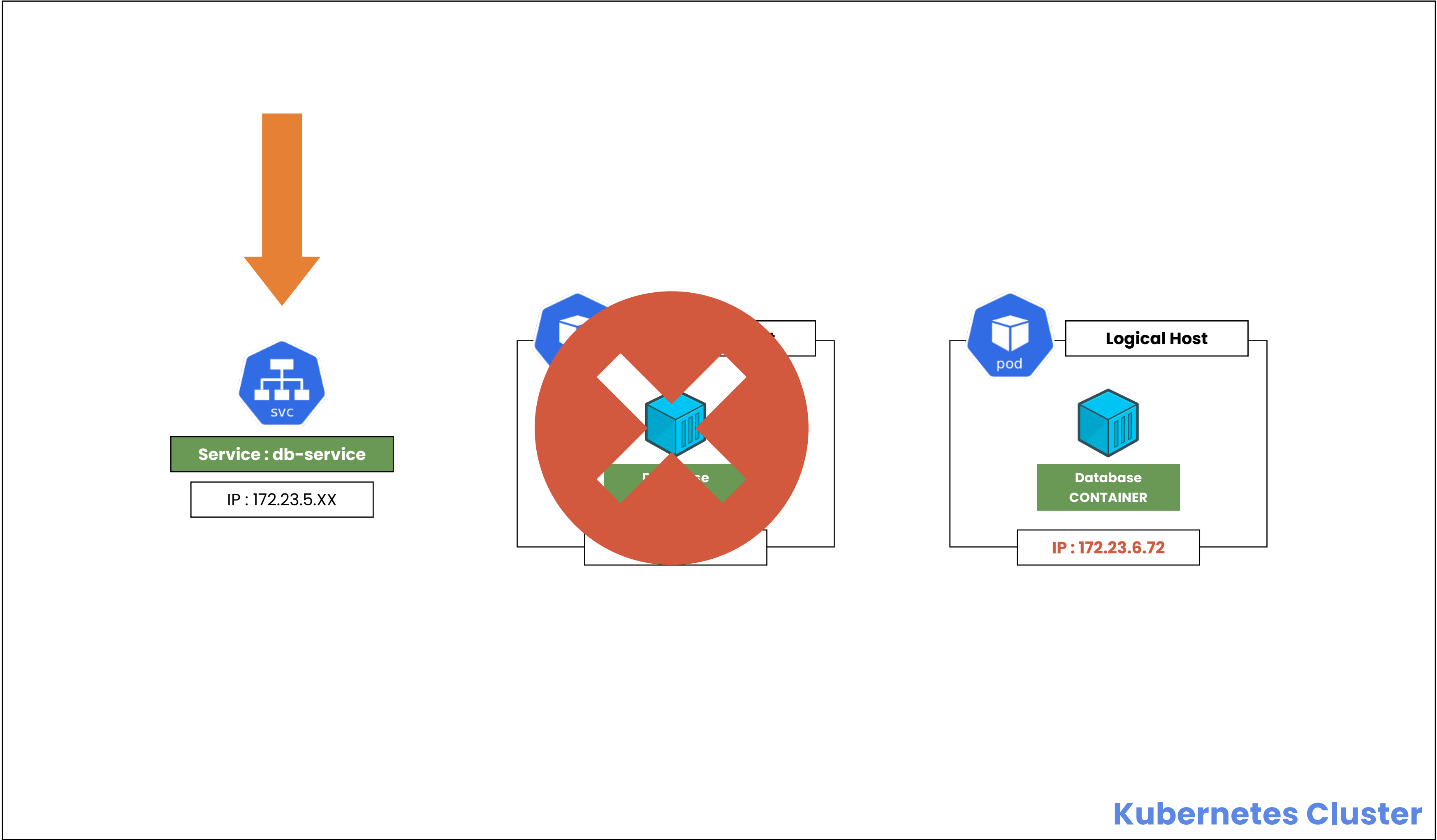
# SERVICE – STABLE IP

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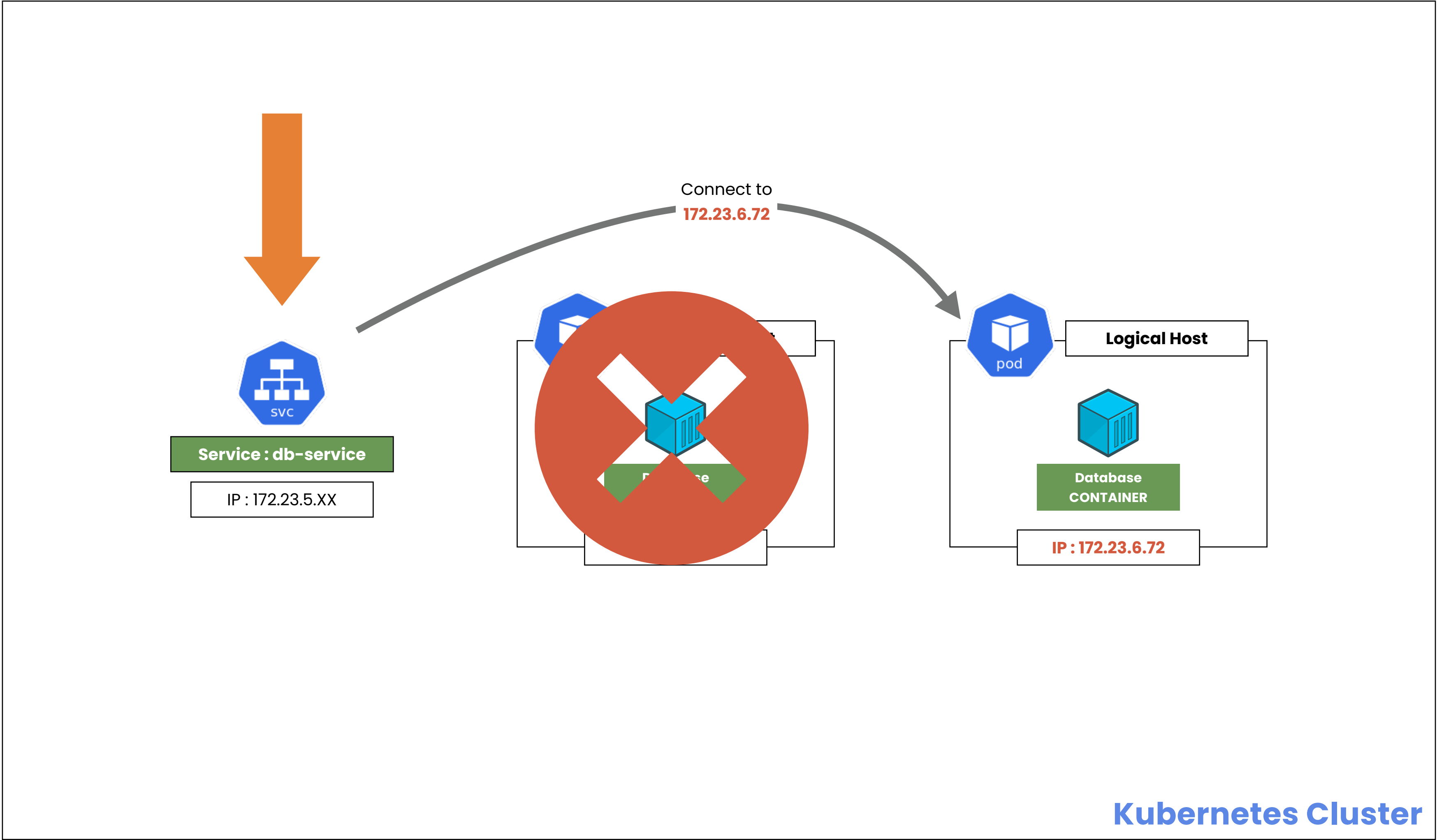


# SERVICE – STABLE IP



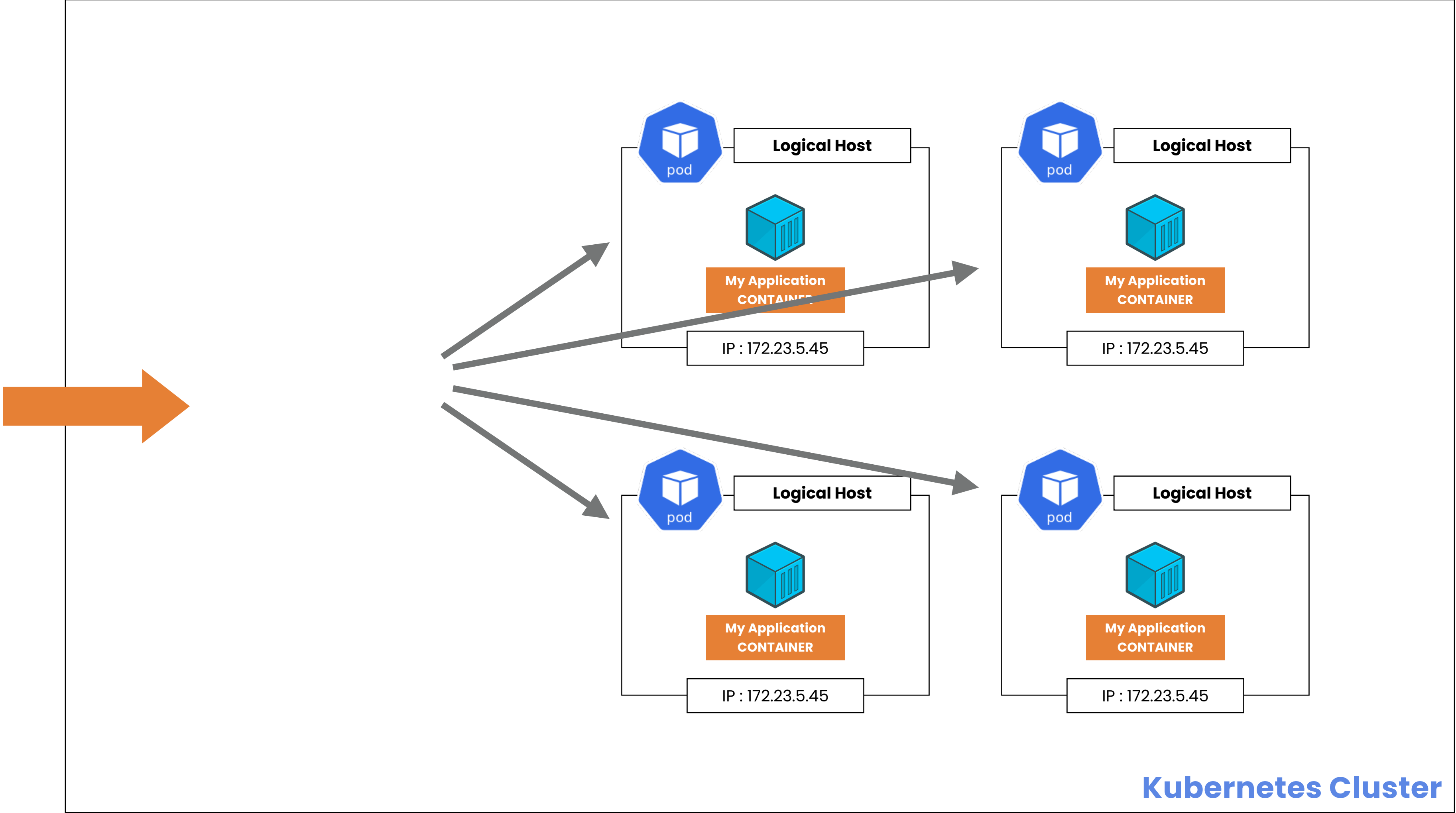


# SERVICE – STABLE IP



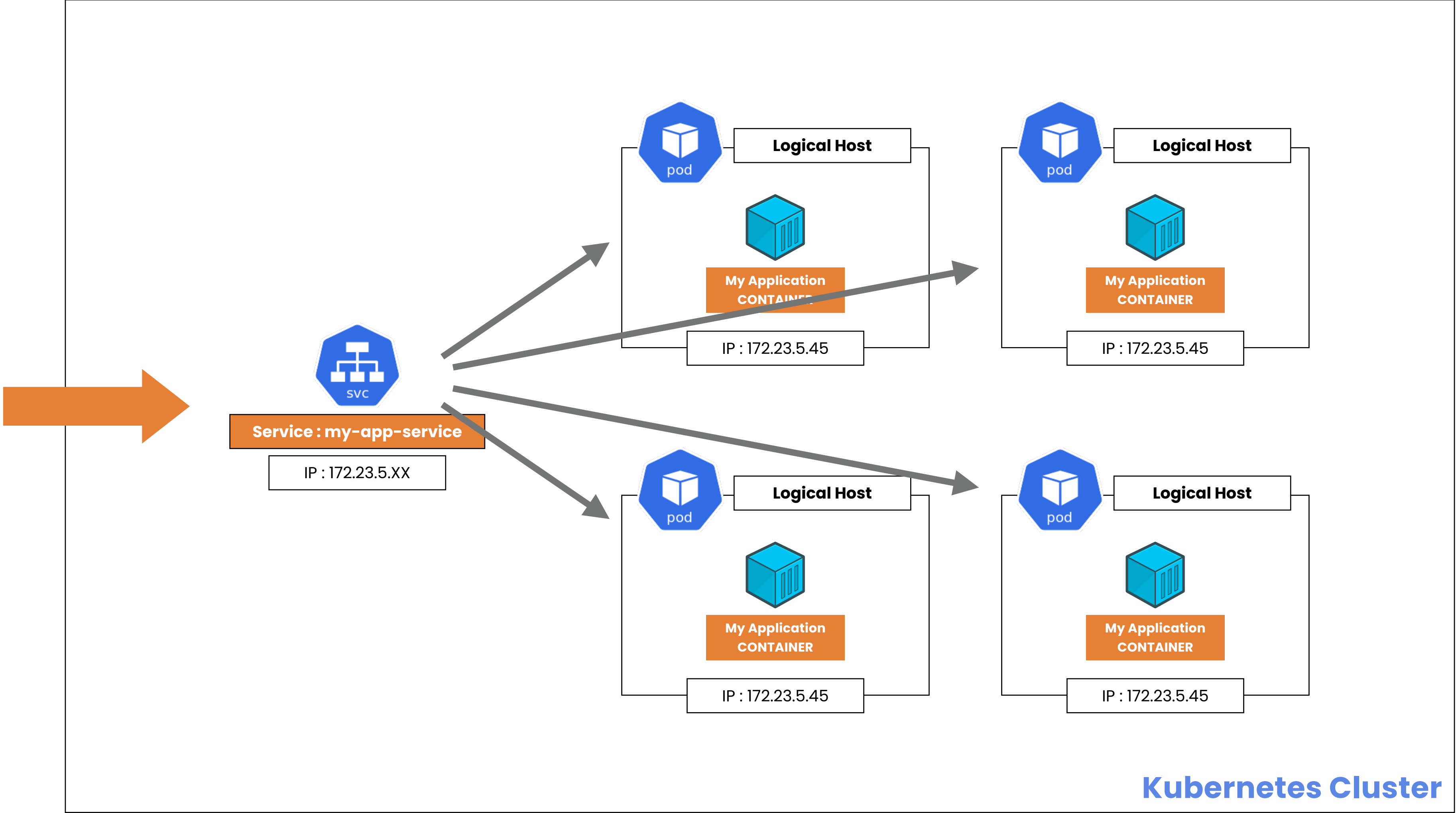


# SERVICE – LOADBALANCER





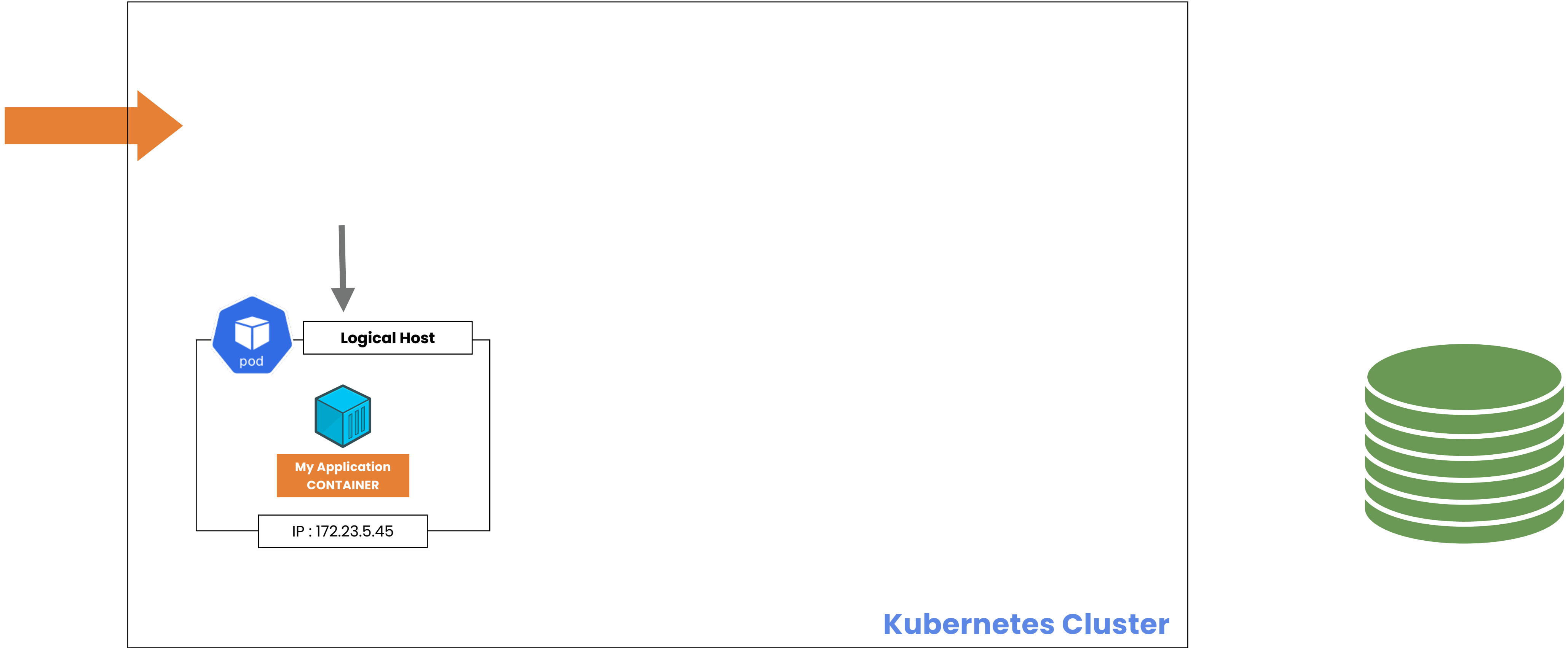
# SERVICE – LOADBALANCER





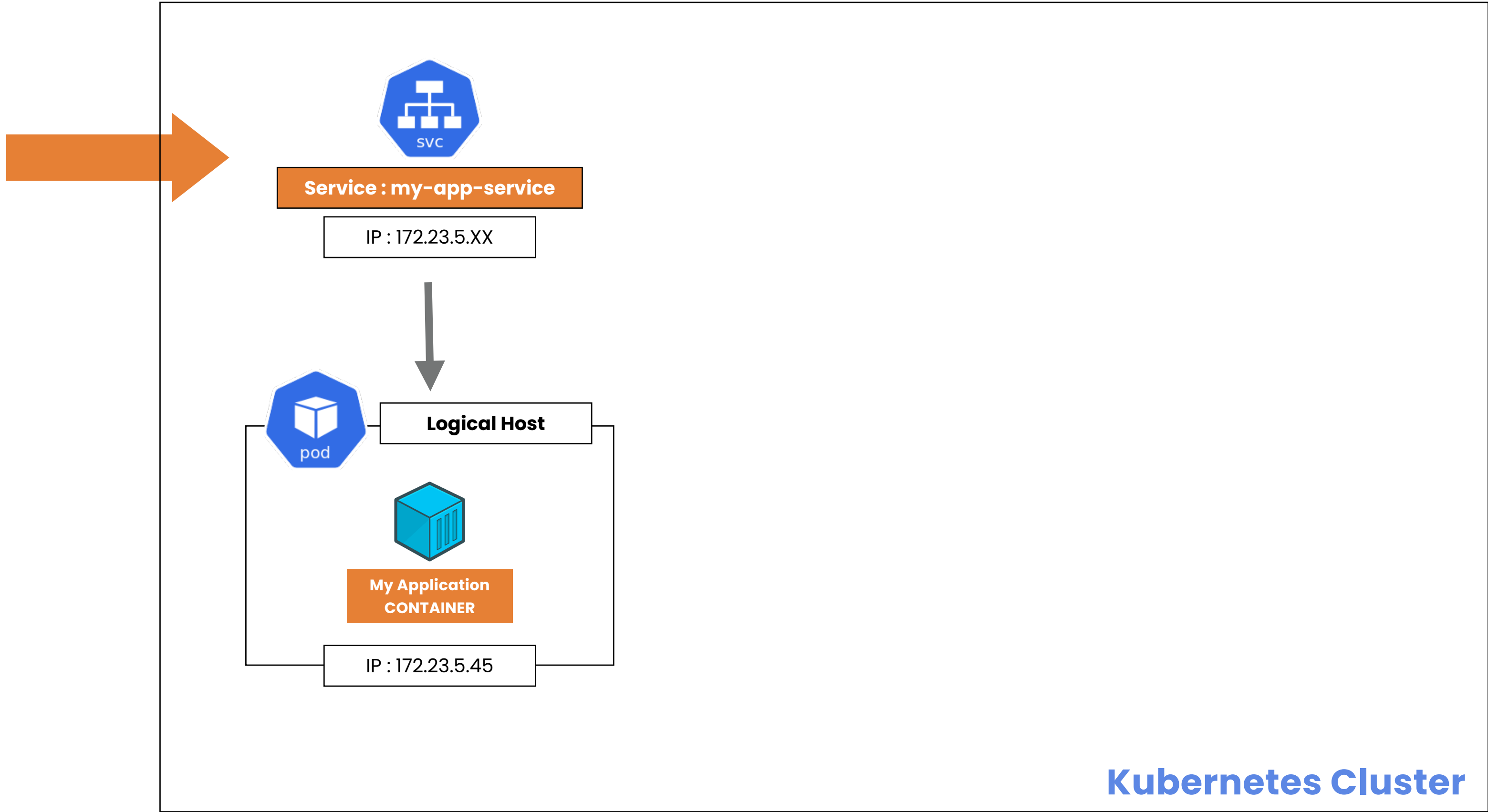
# SERVICE – USING FOR INSIDE AND OUTSIDE OF CLUSTER

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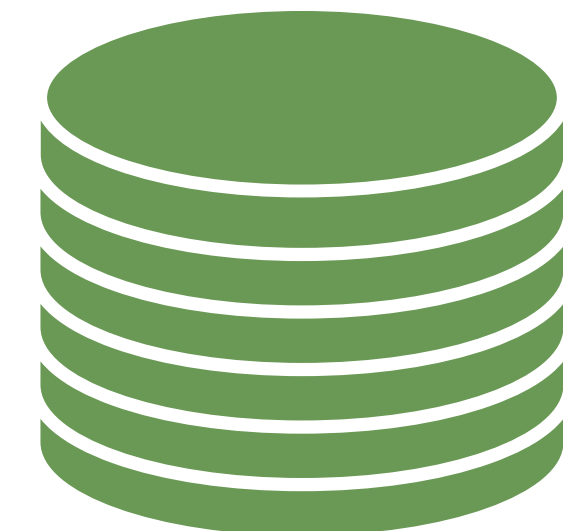
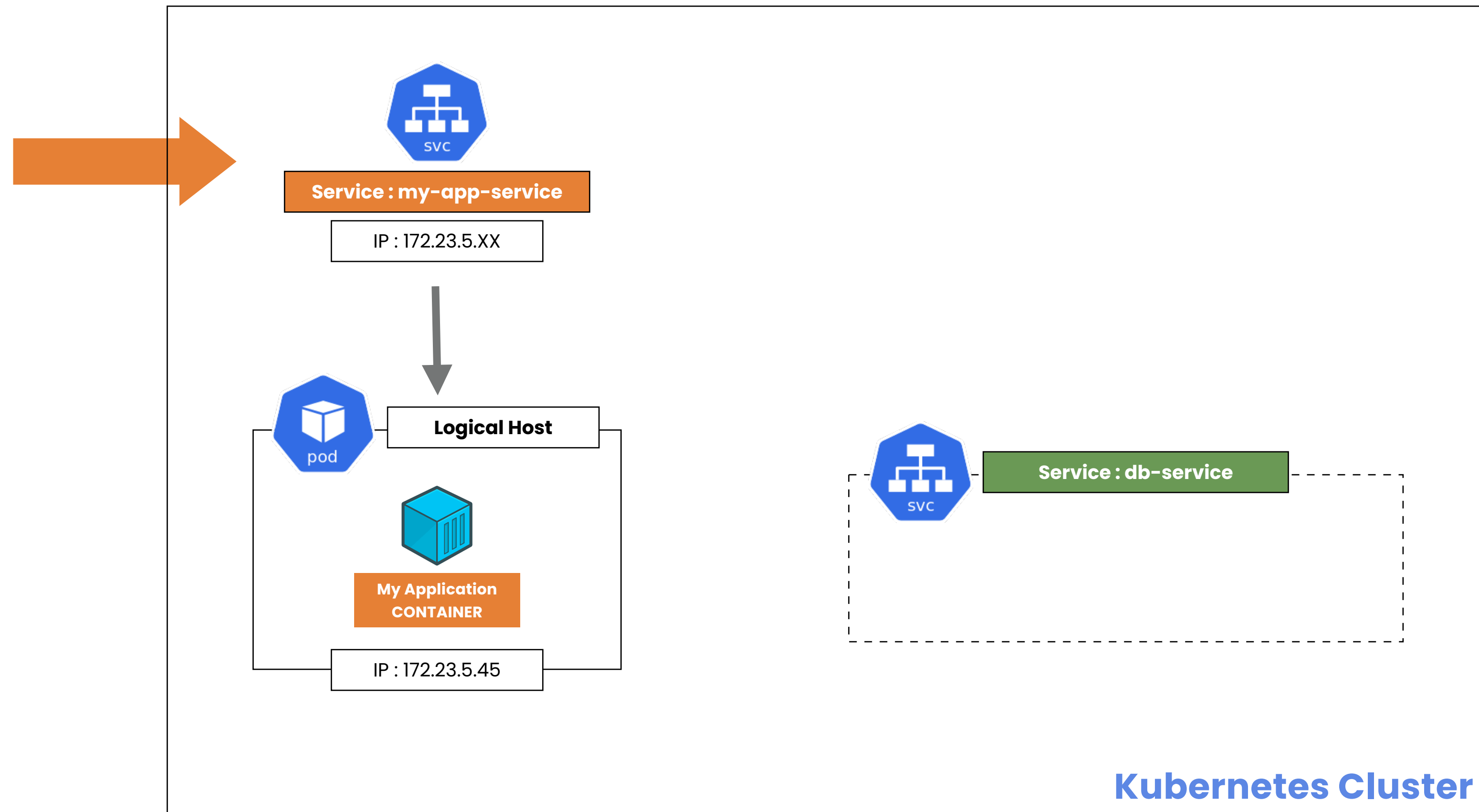
# SERVICE – USING FOR INSIDE AND OUTSIDE OF CLUSTER





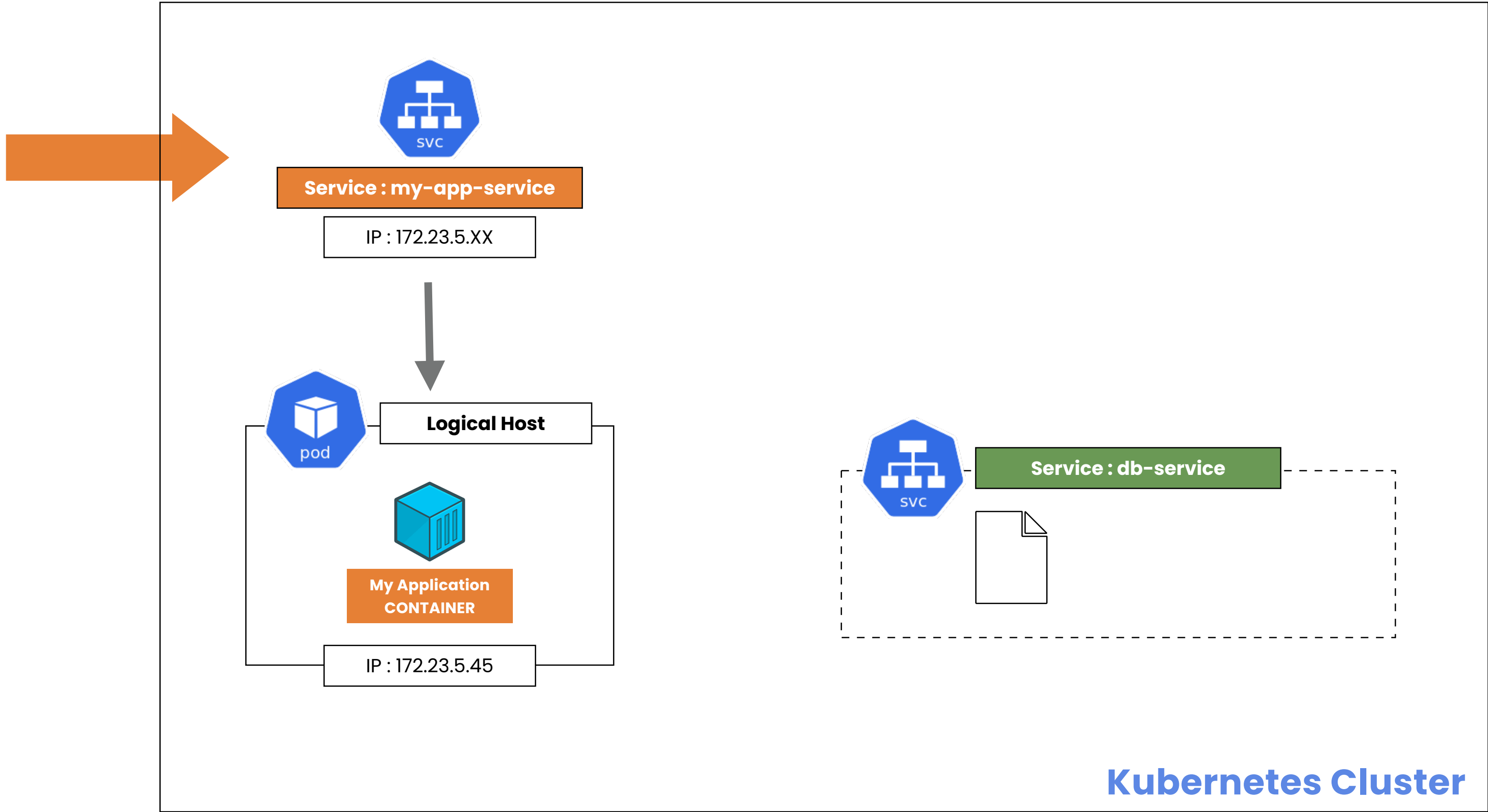
# SERVICE – USING FOR INSIDE AND OUTSIDE OF CLUSTER

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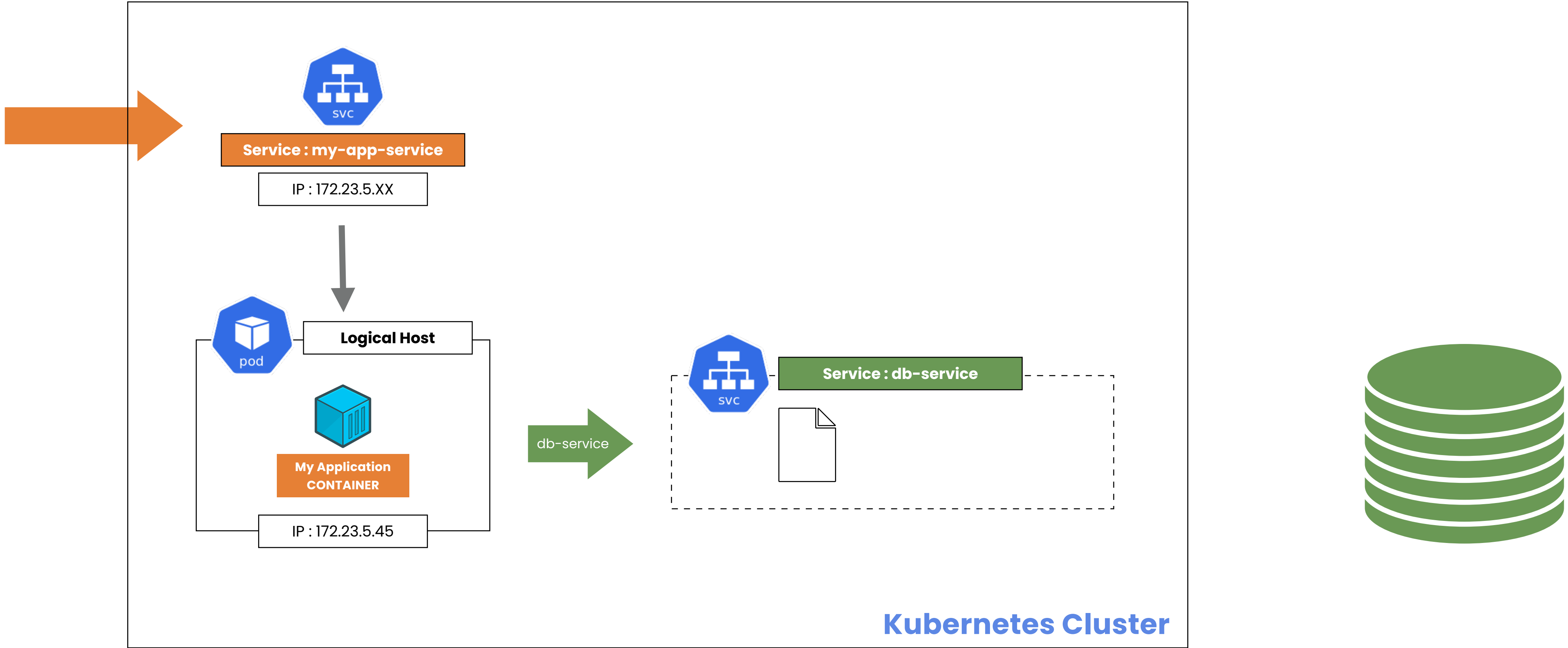


# SERVICE – USING FOR INSIDE AND OUTSIDE OF CLUSTER





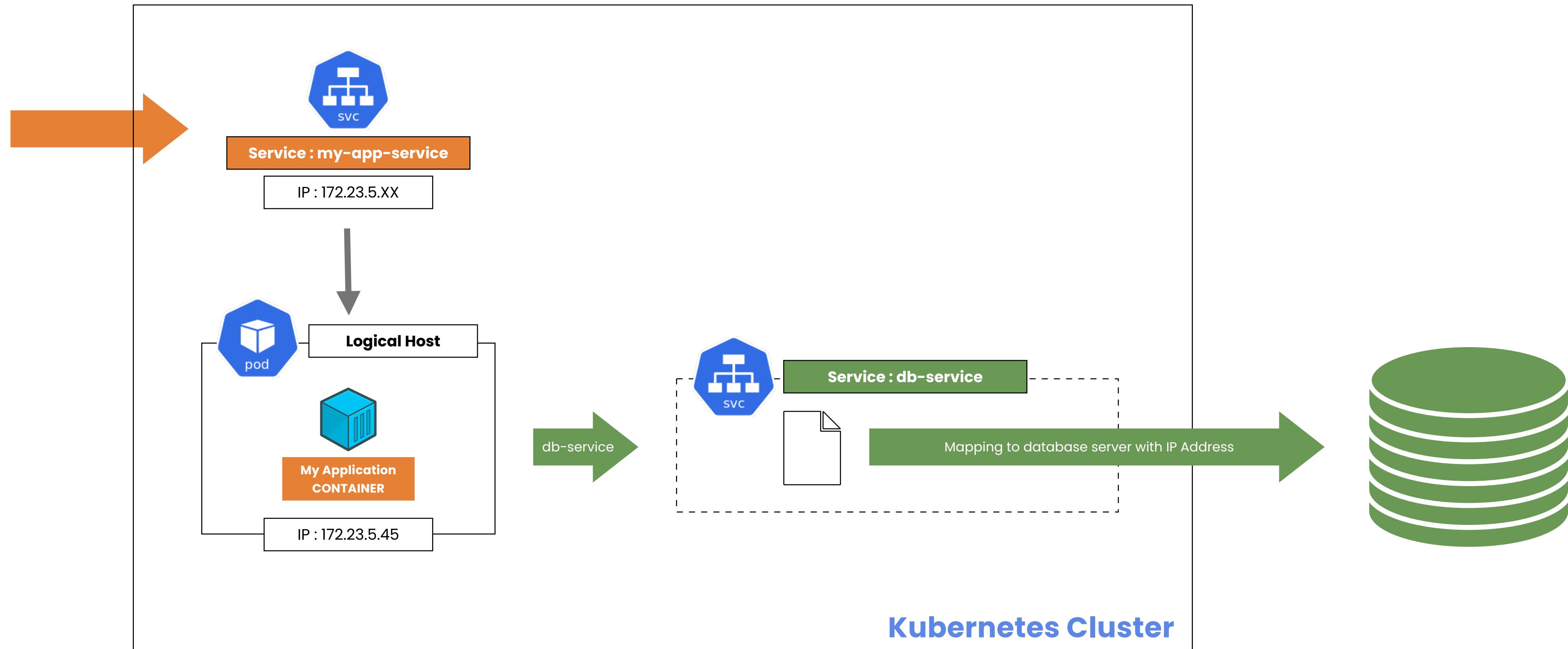
# SERVICE – USING FOR INSIDE AND OUTSIDE OF CLUSTER





# SERVICE – USING FOR INSIDE AND OUTSIDE OF CLUSTER

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# CLUSTERIP SERVICES

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# CLUSTERIP SERVICE

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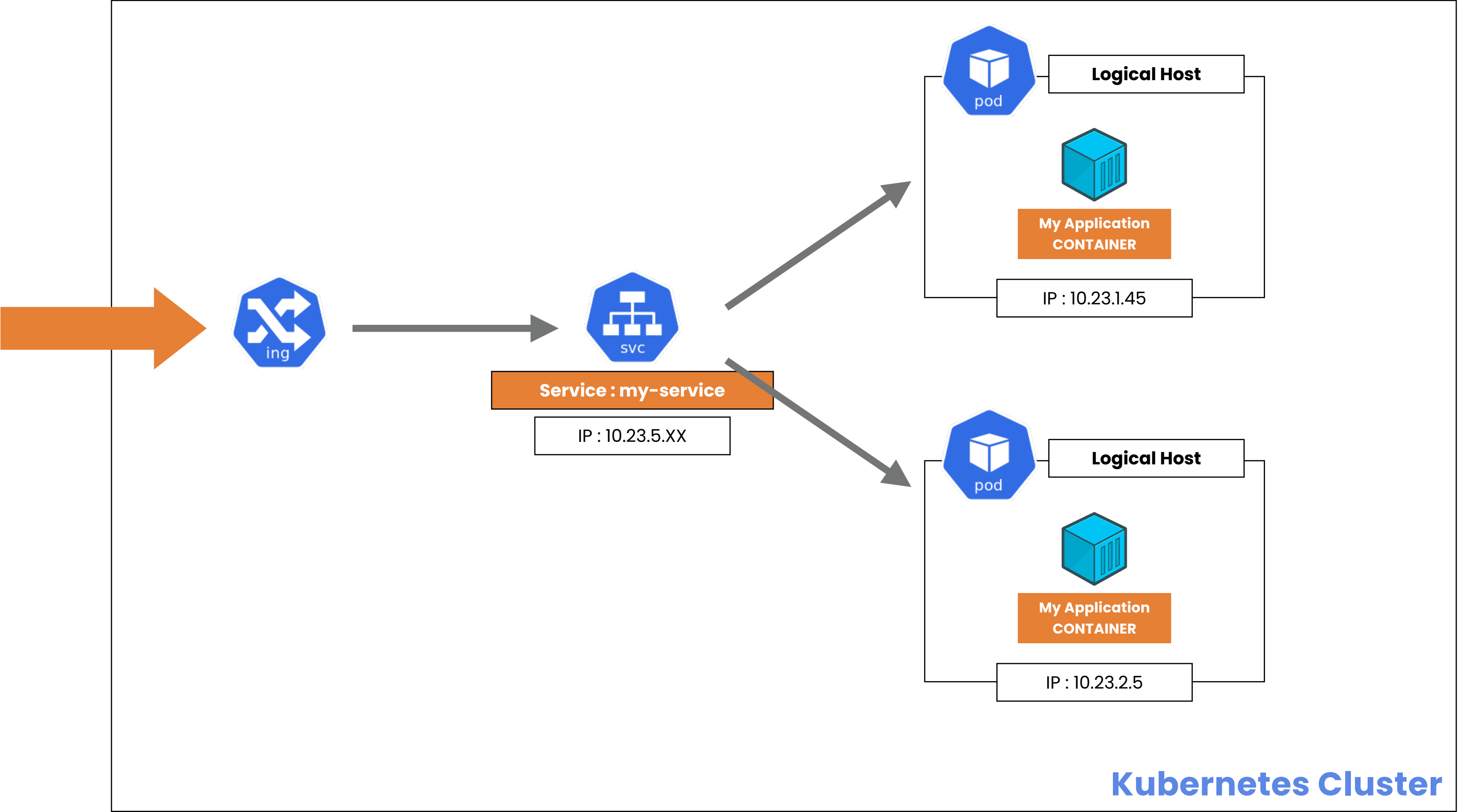
**ClusterIP** : Exposes the Service on a **cluster-internal IP**. Choosing this value makes the Service only **reachable from within the cluster**.

This is the **default**

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

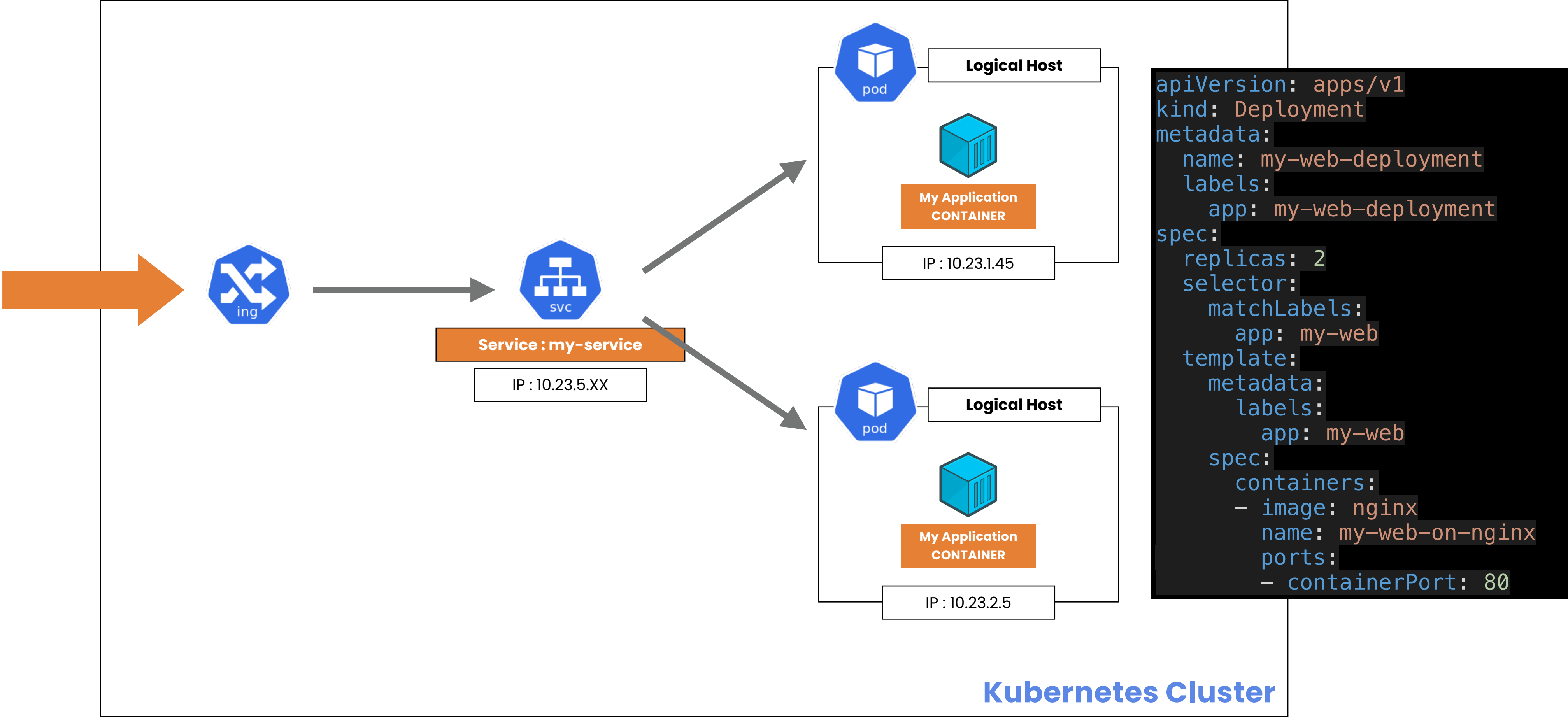


# CLUSTERIP



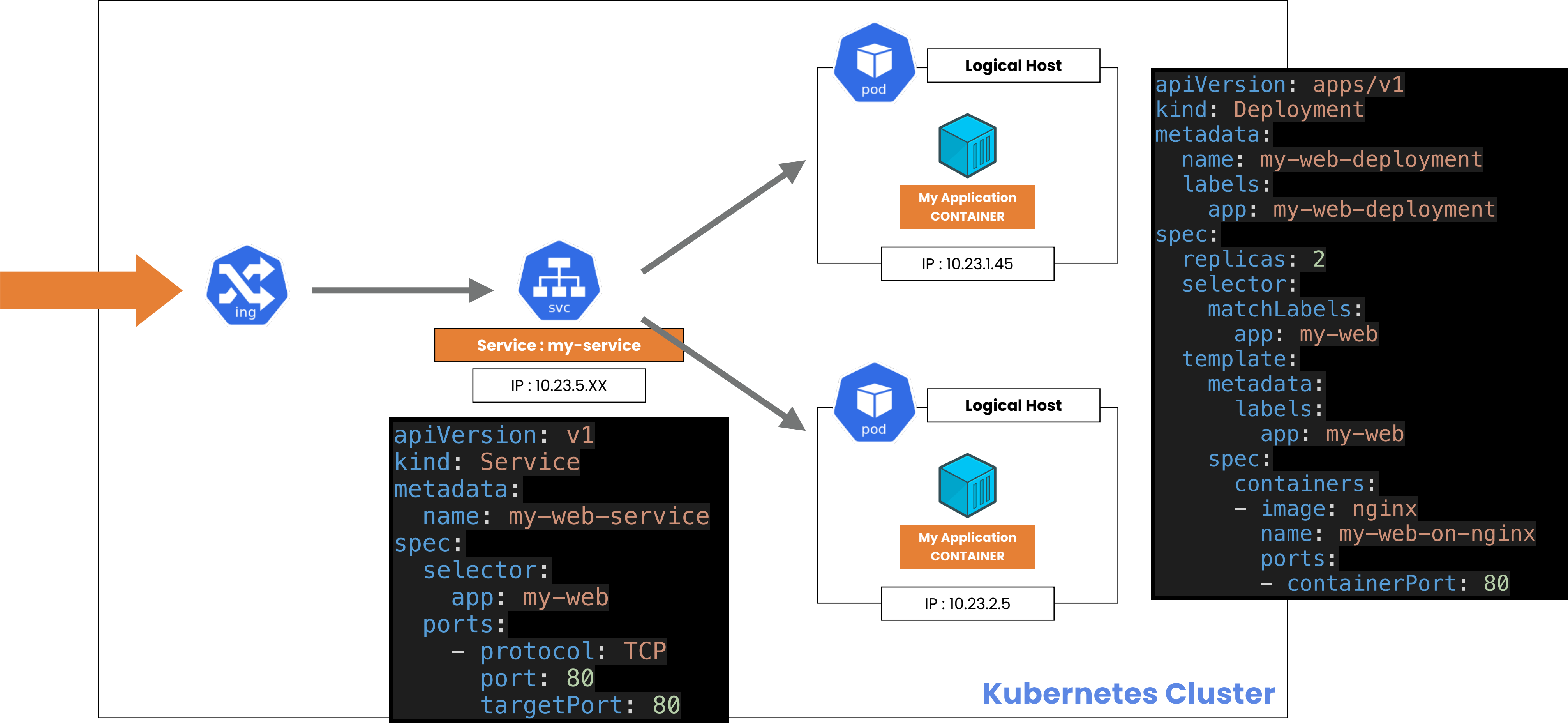


# CLUSTERIP

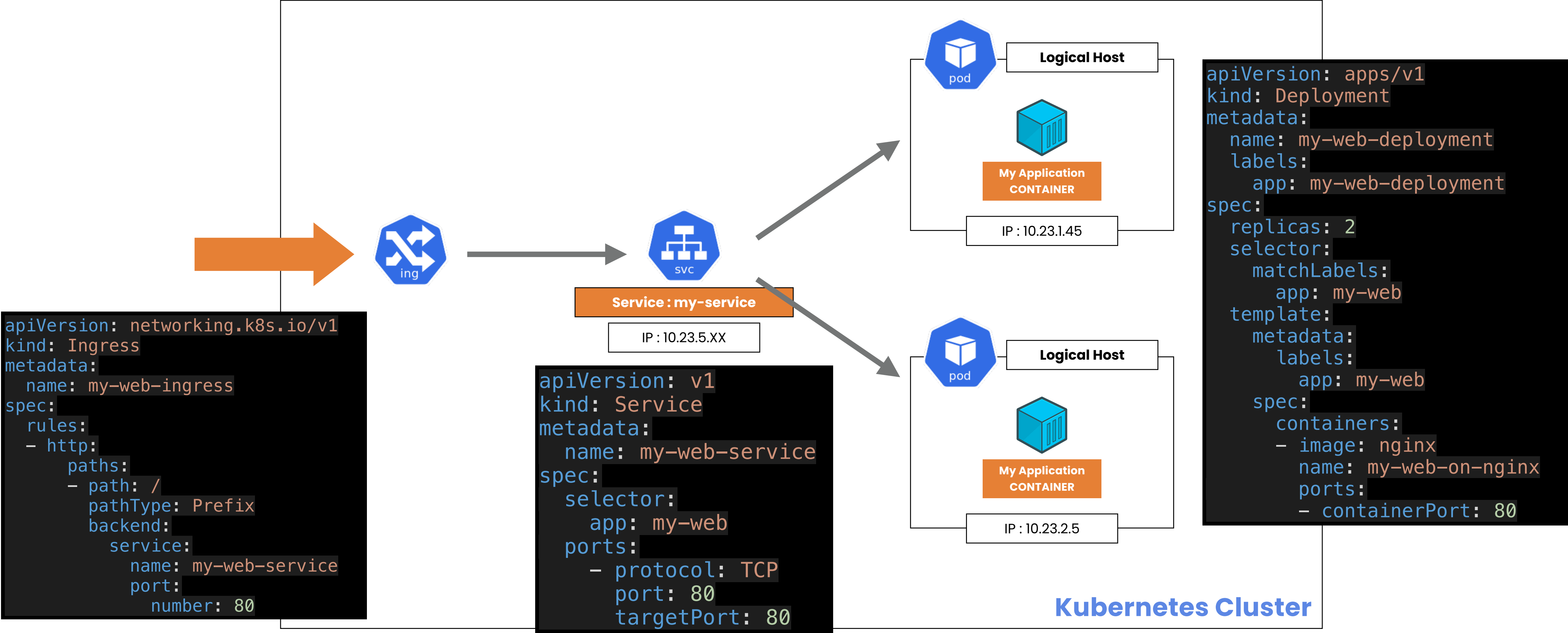




# CLUSTERIP

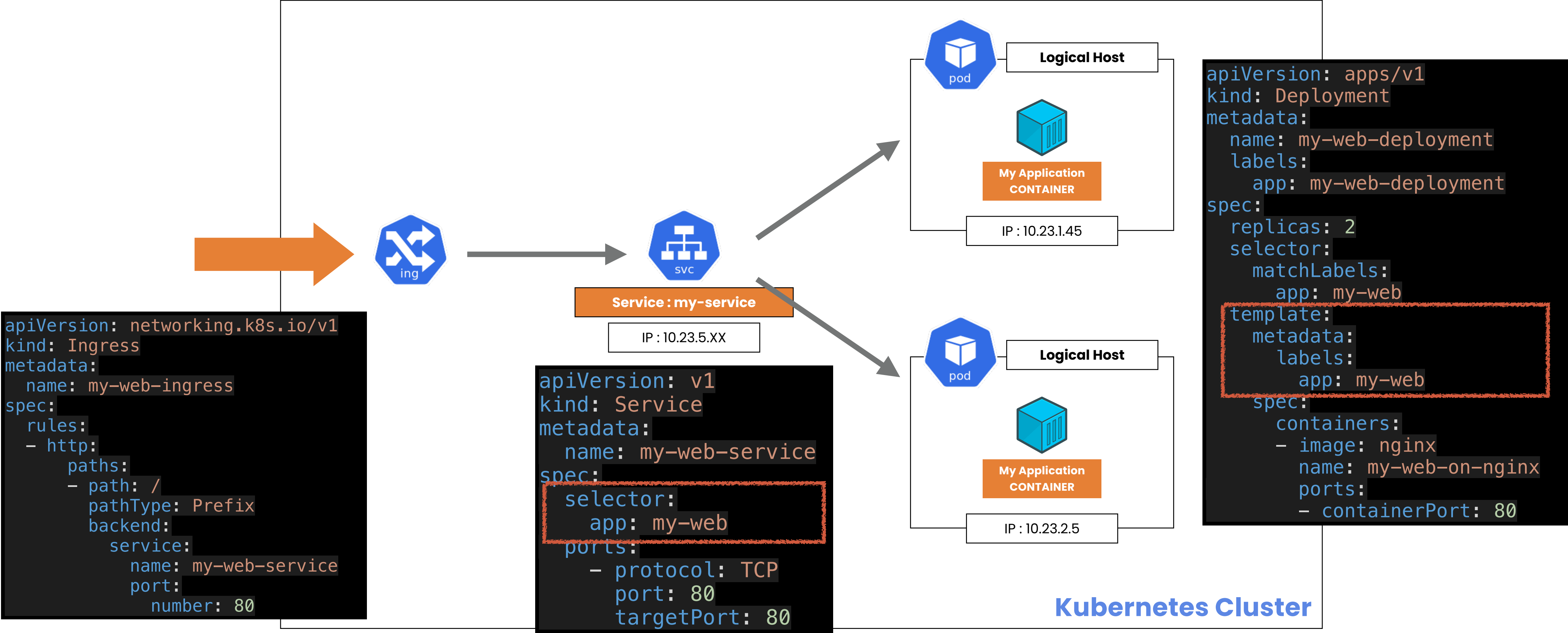


# CLUSTERIP

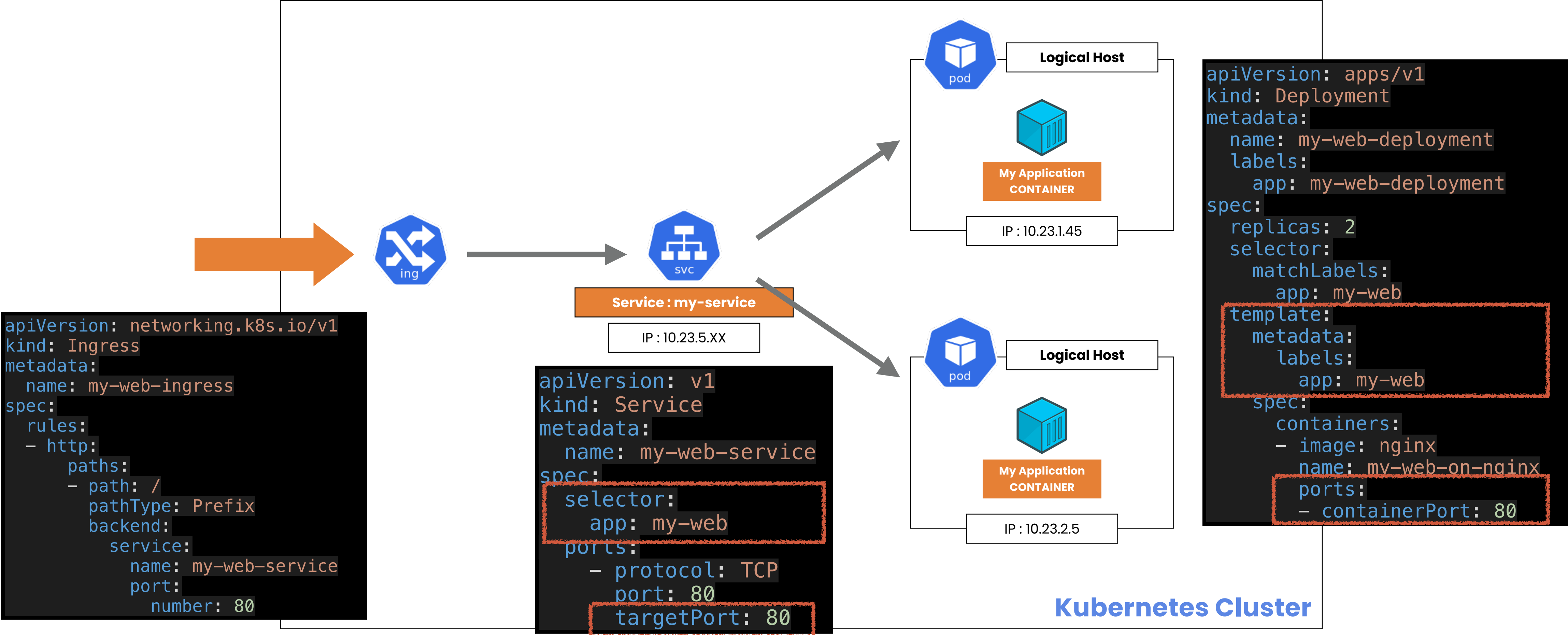




# CLUSTERIP



# CLUSTERIP





# HEADLESS SERVICES

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# HEADLESS SERVICE

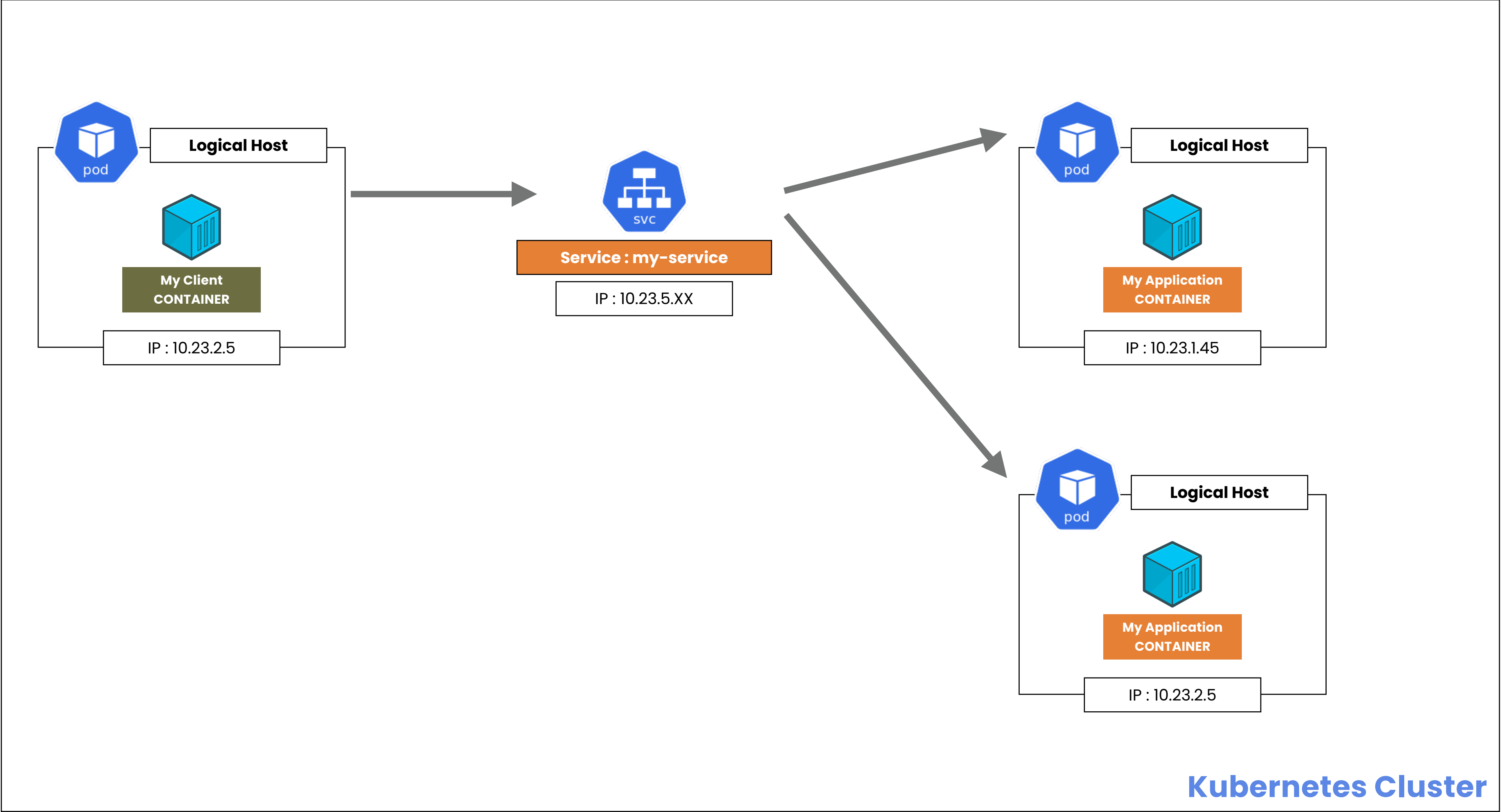
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**Headless** : Exposes the Service that you don't need load-balancing and a single Service IP. In this case, you can create what are termed "headless" Services, by explicitly specifying **"None"** for the cluster IP (**.spec.clusterIP**).

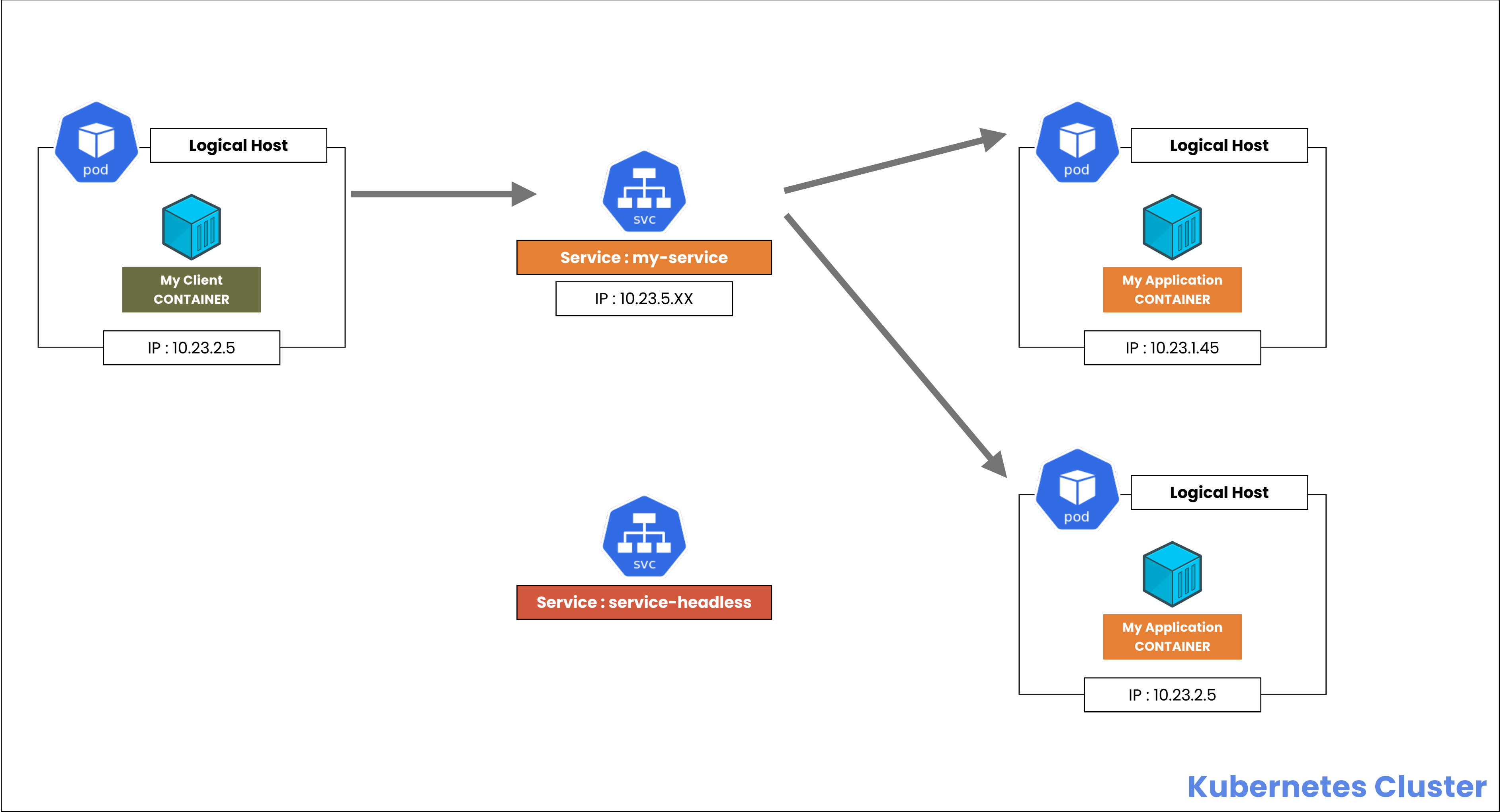
```
apiVersion: v1
kind: Service
metadata:
  name: my-web-service-headless
spec:
  clusterIP: None
  ports:
  - port: 80
    name: web
  selector:
    app: nginx
```



# HEADLESS

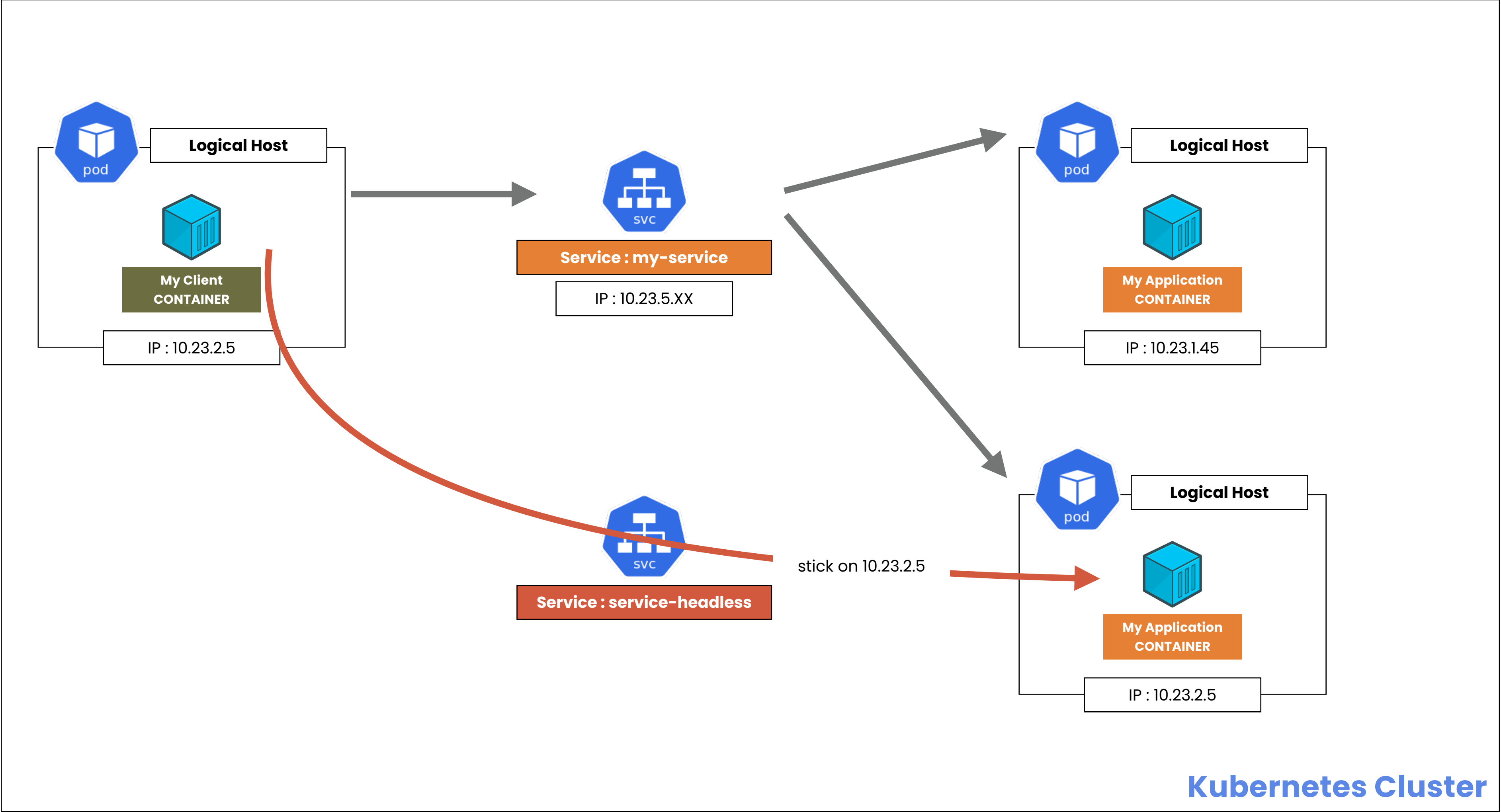


# HEADLESS





# HEADLESS



**LET TRY !**



**THANK YOU**