

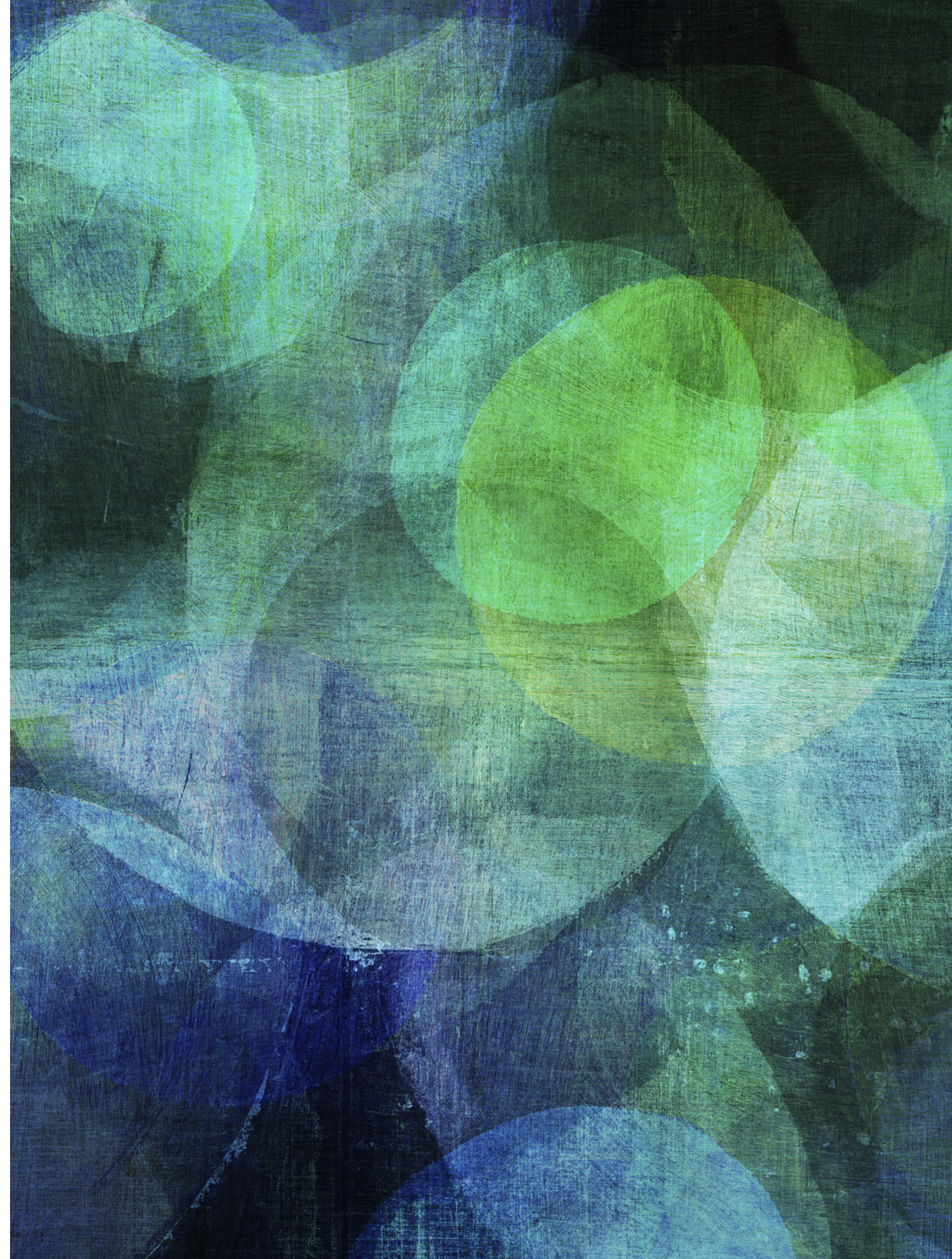
INTRODUCTION TO KUBERNETES



INTRODUCTION TO KUBERNETES

Namespaces

AGENDA



AGENDA

- What/Why/When using
Namespaces



AGENDA

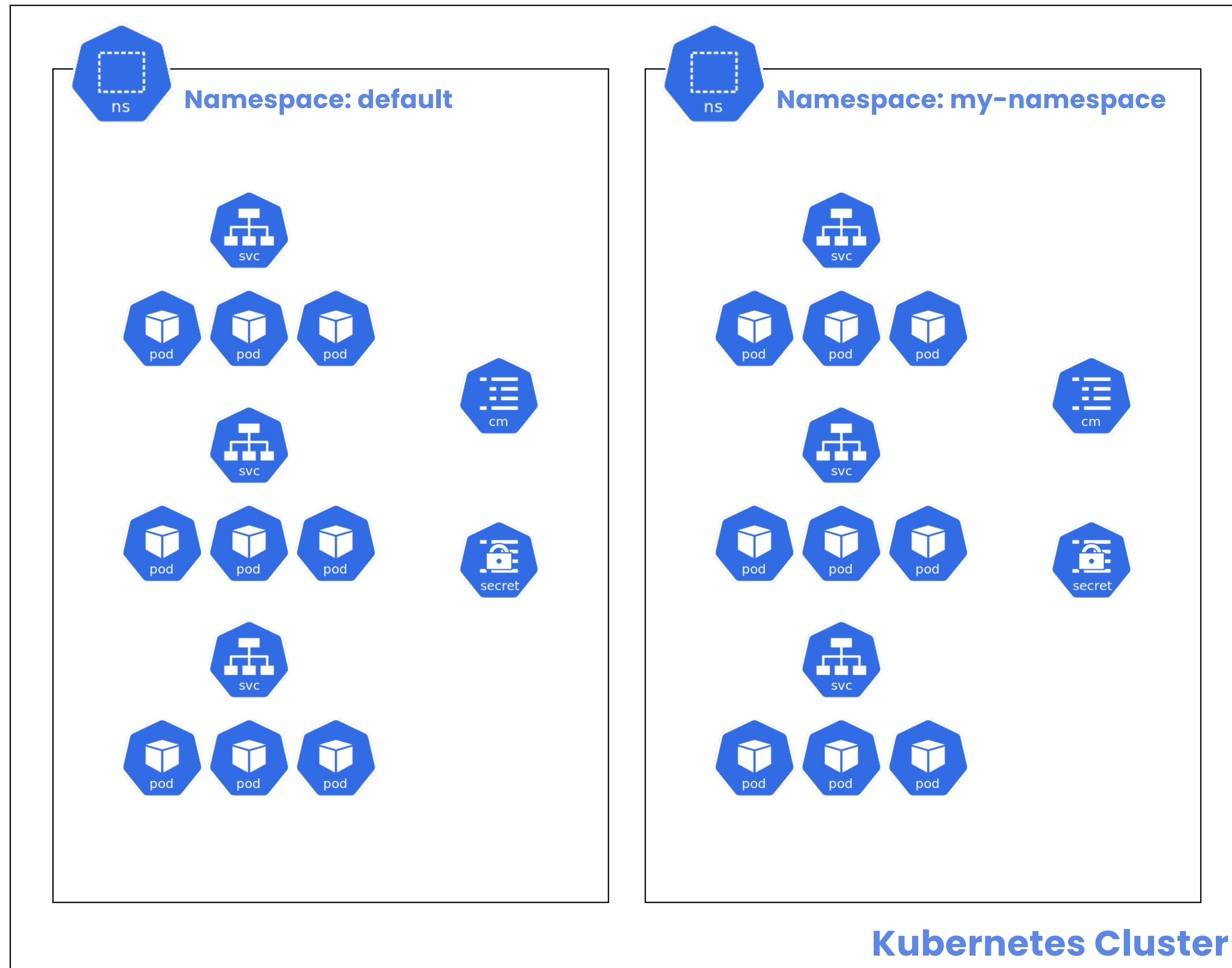
- What/Why/When using
Namespaces
- Working with Namespace



WHAT/WHY/WHEN

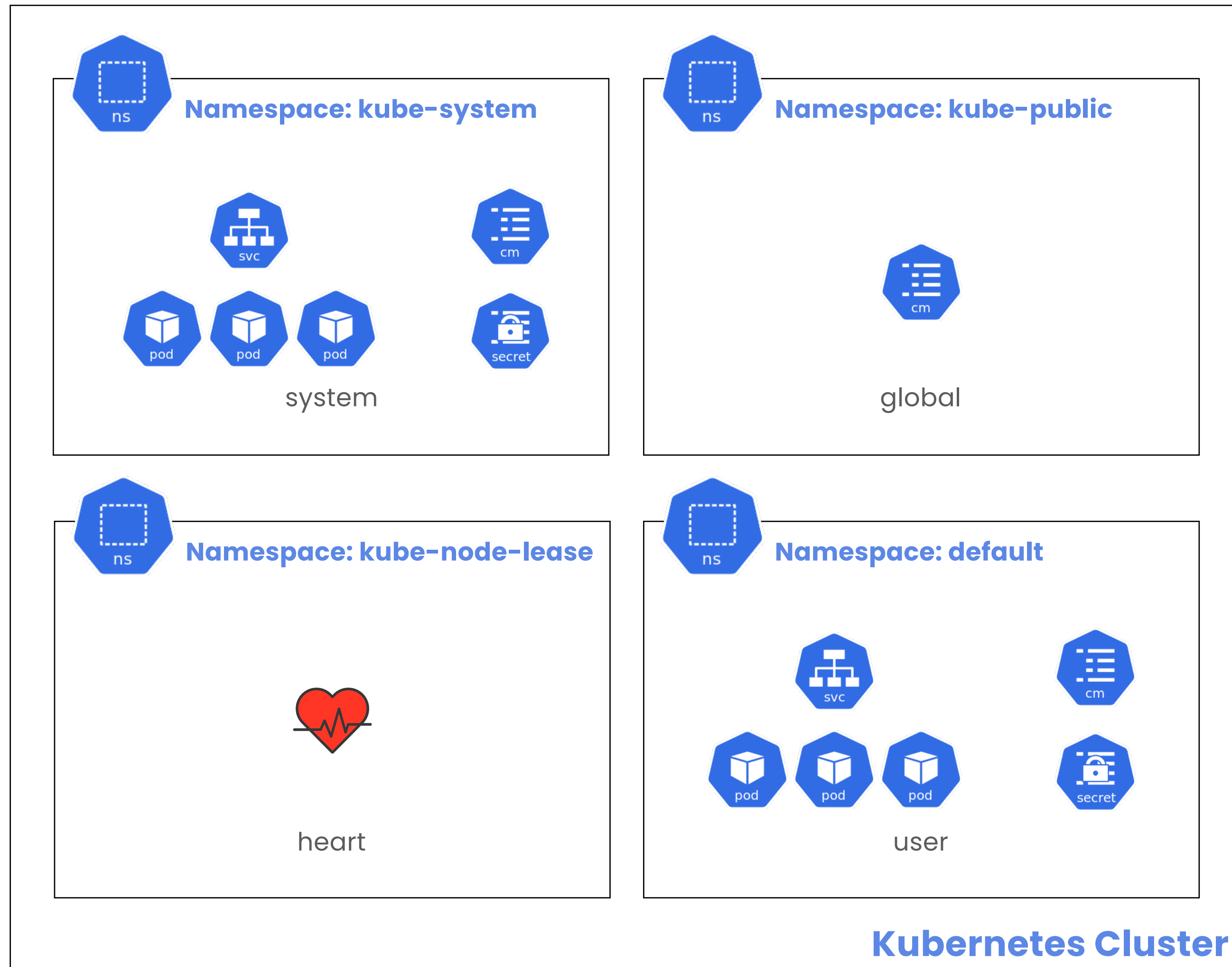
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WHAT IS NAMESPACES



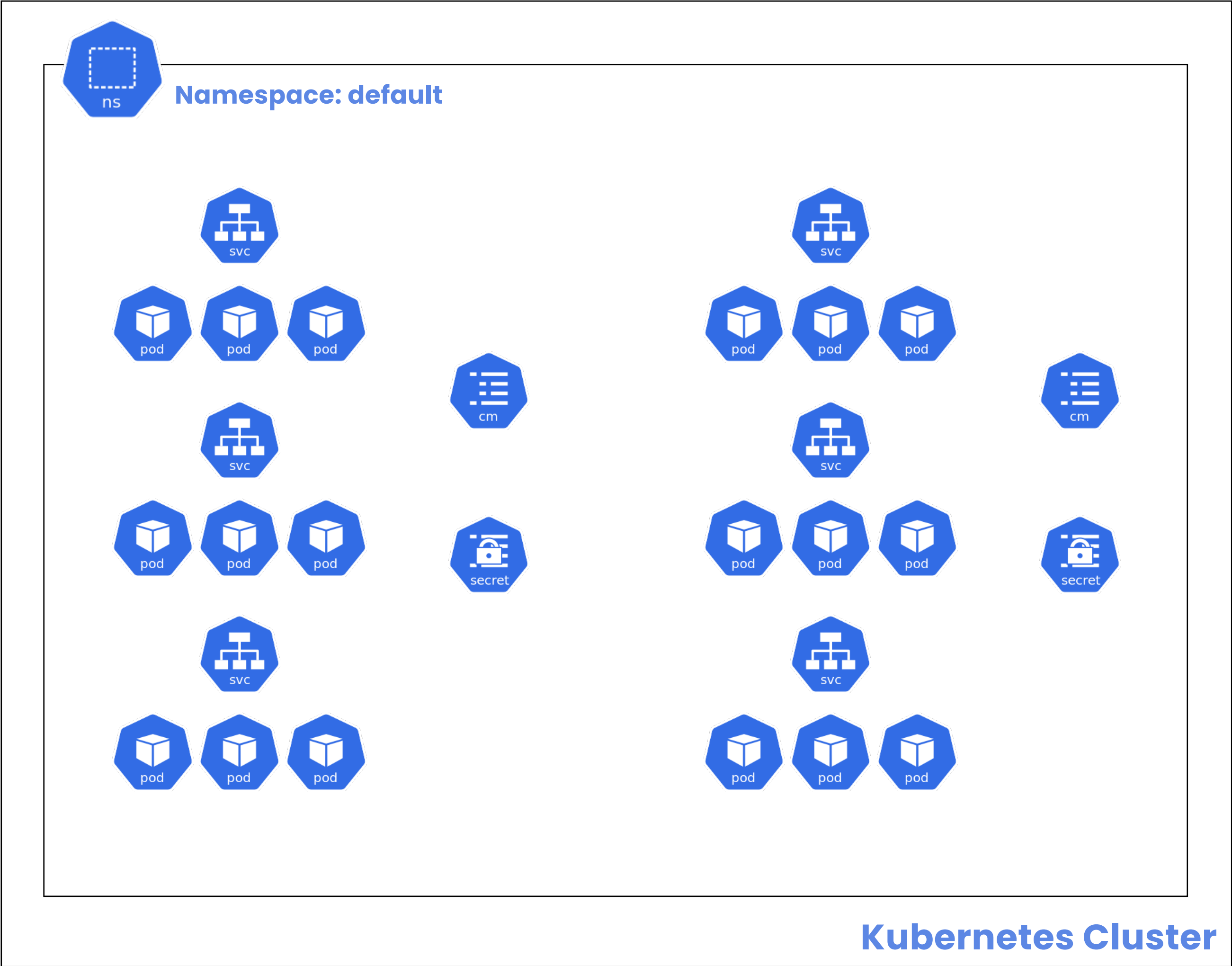
- **Virtual Cluster** in K8s Cluster
- **Organise Resource** in namespace

4 DEFAULTS NAMESPACES

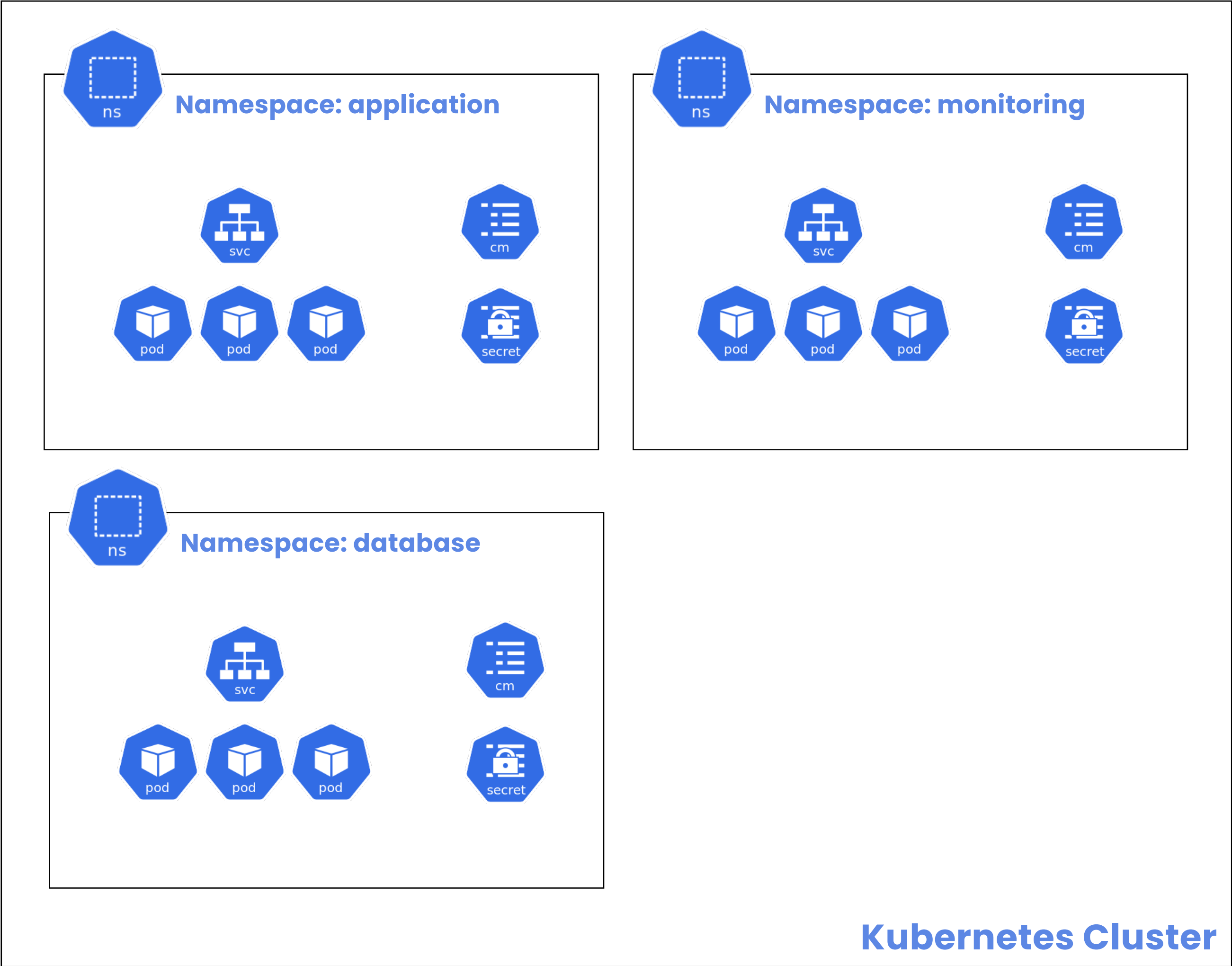


- **Kube-System** : System Processes, Master and Kubectl Processes and **Do NOT create/modify in this.**
- **Kube-public** : Public accessible data, ConfigMap of cluster information.
- **Kube-node-lease** : heartbeats of nodes, lease object and determines the **availability of a node**
- **default** : your objects/resources

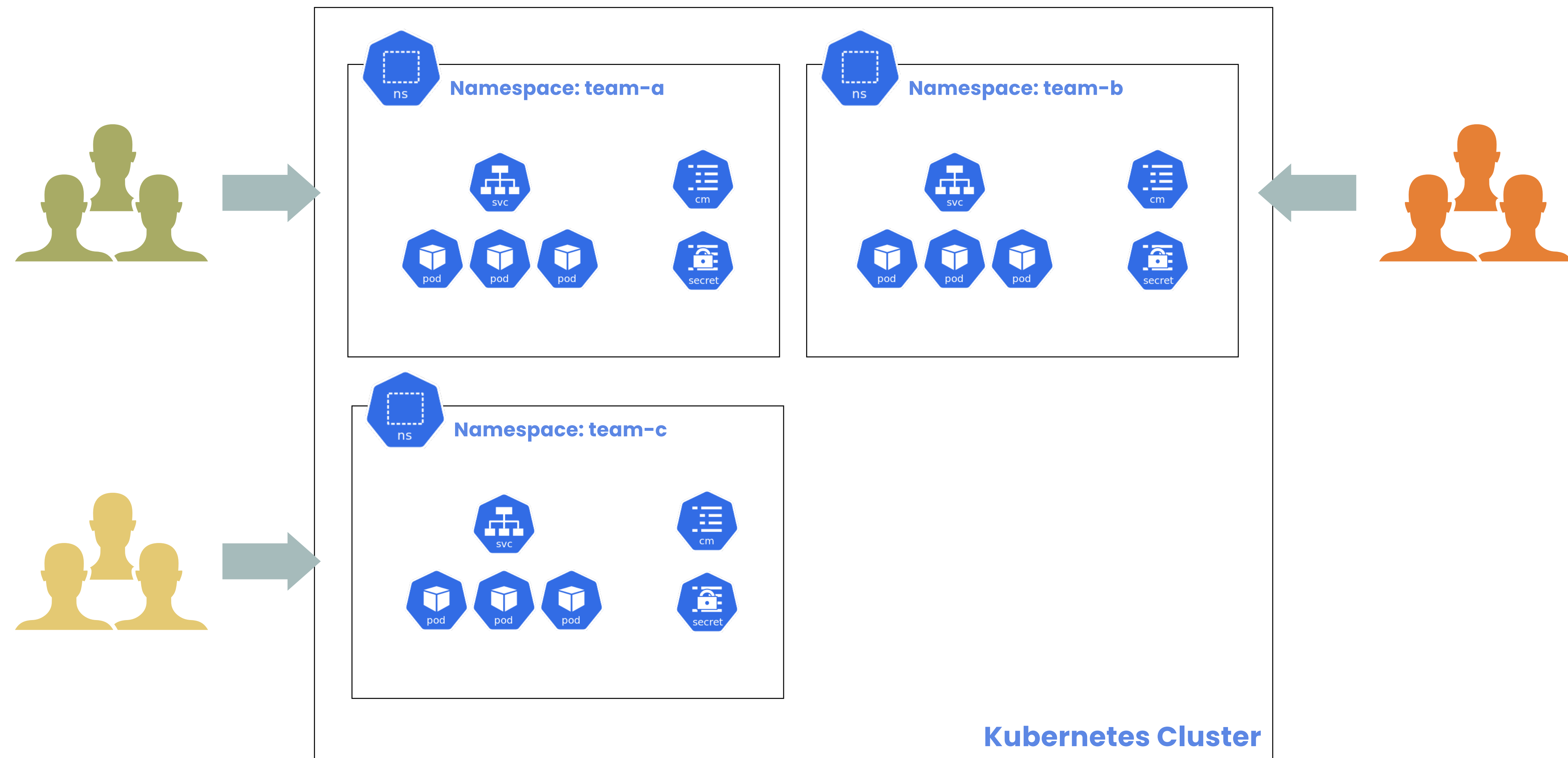
USE CASE – SINGLE NAMESPACES



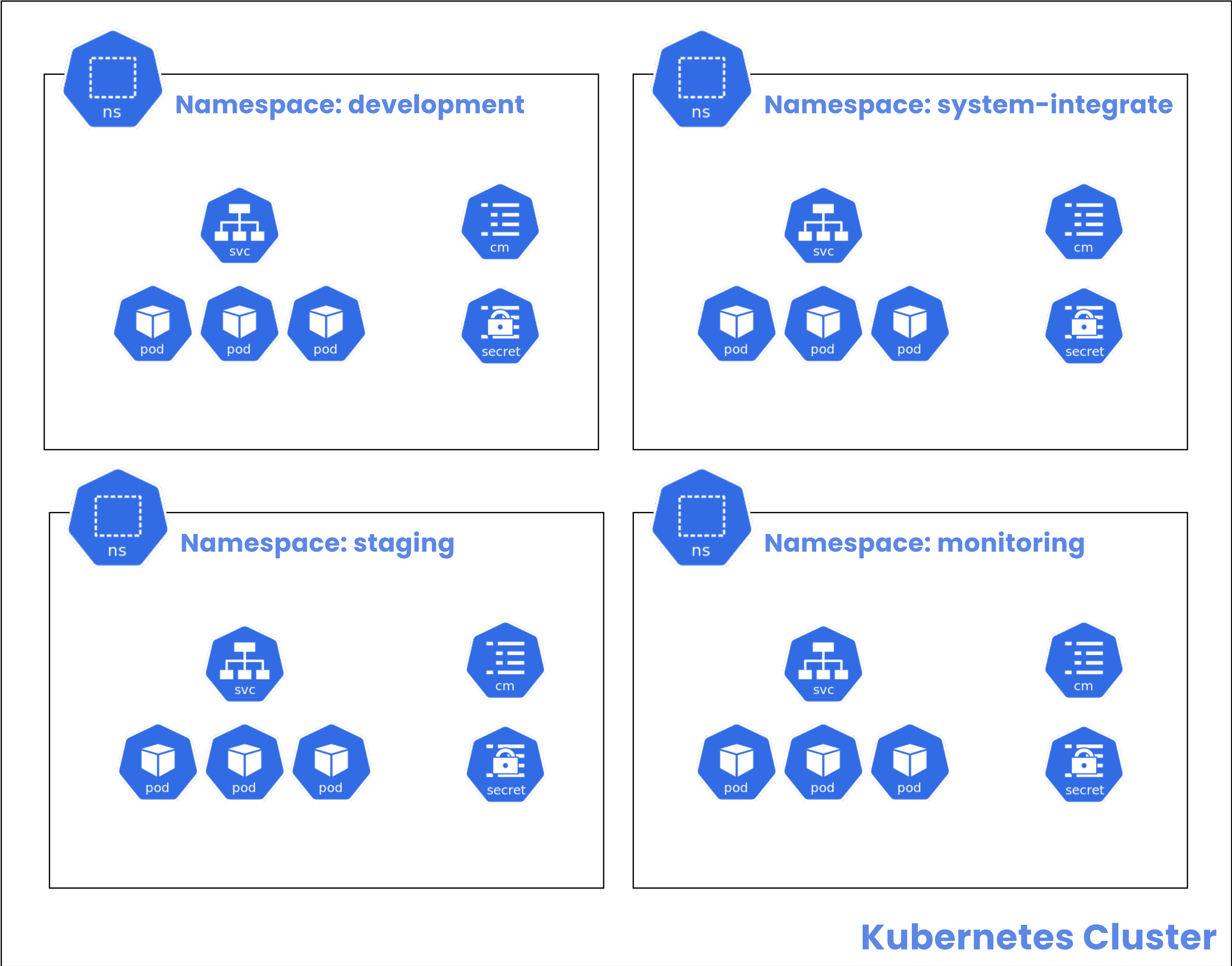
USE CASE – RESOURCES/SERVICES GROUPED NAMESPACES



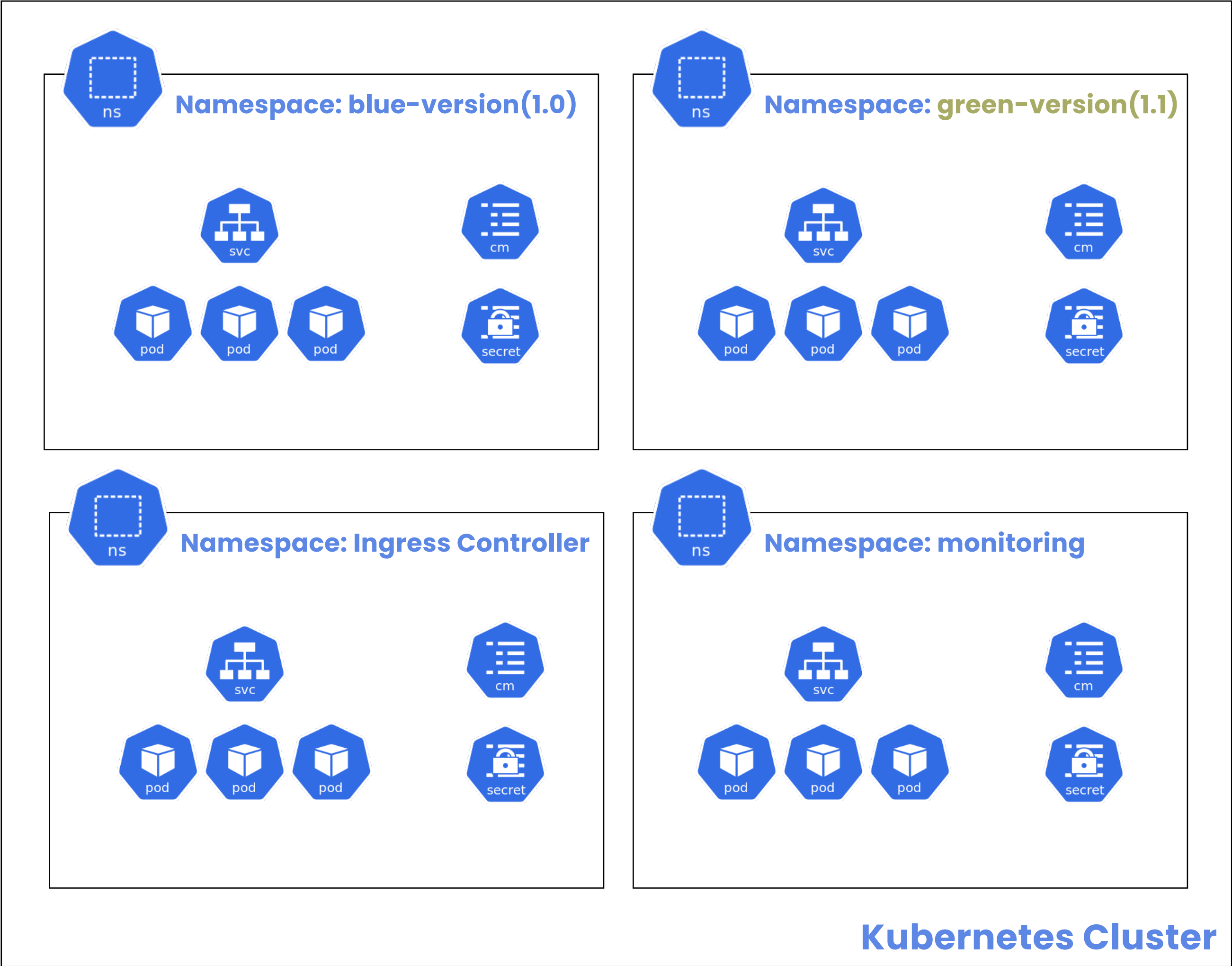
USE CASE – SAME APP/DIFF TEAM NAMESPACES



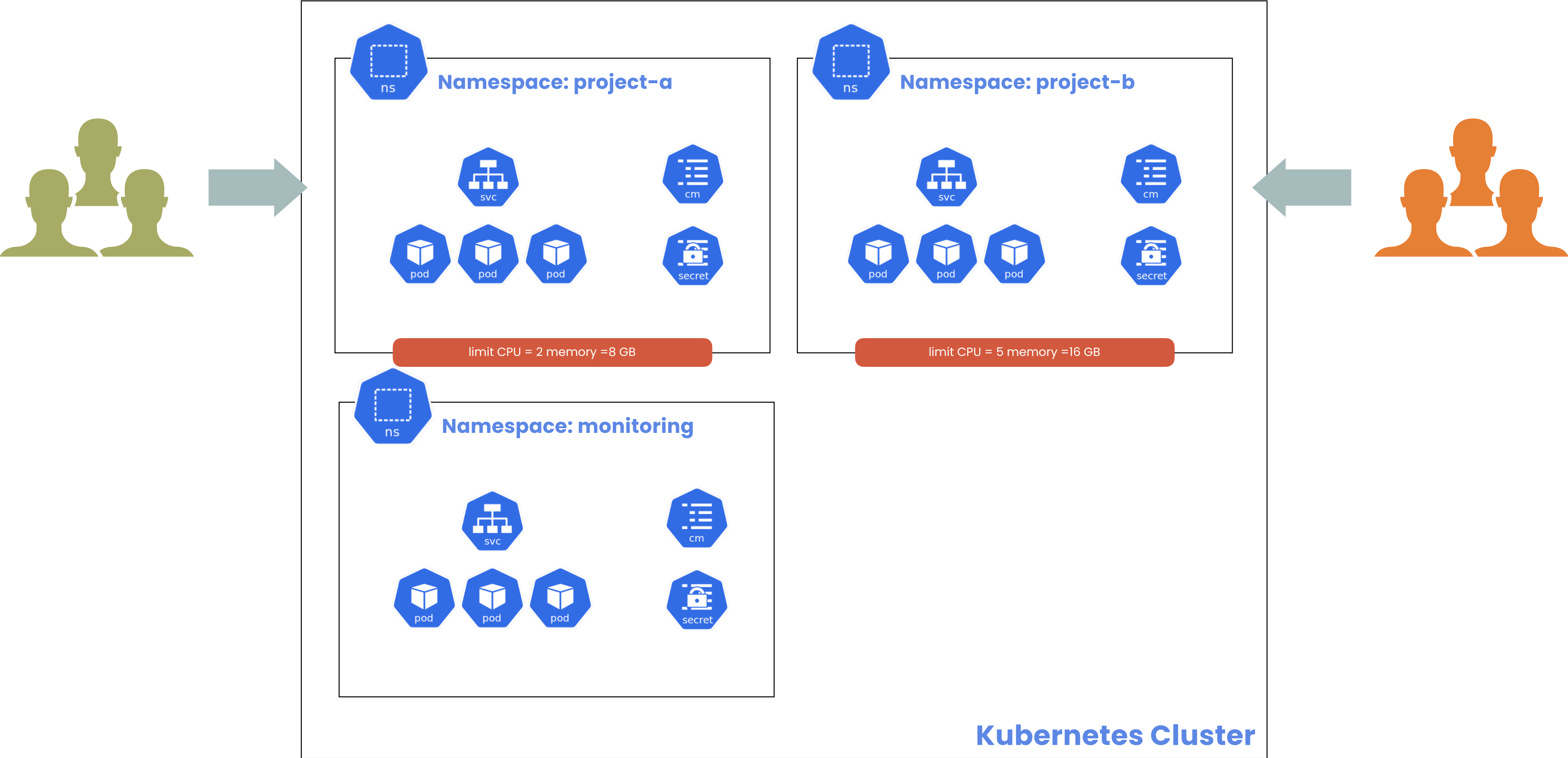
USE CASE – DIFF ENVIRONMENT AND SHARE RESOURCES



USE CASE – BLUE/GREEN DEPLOYMENT

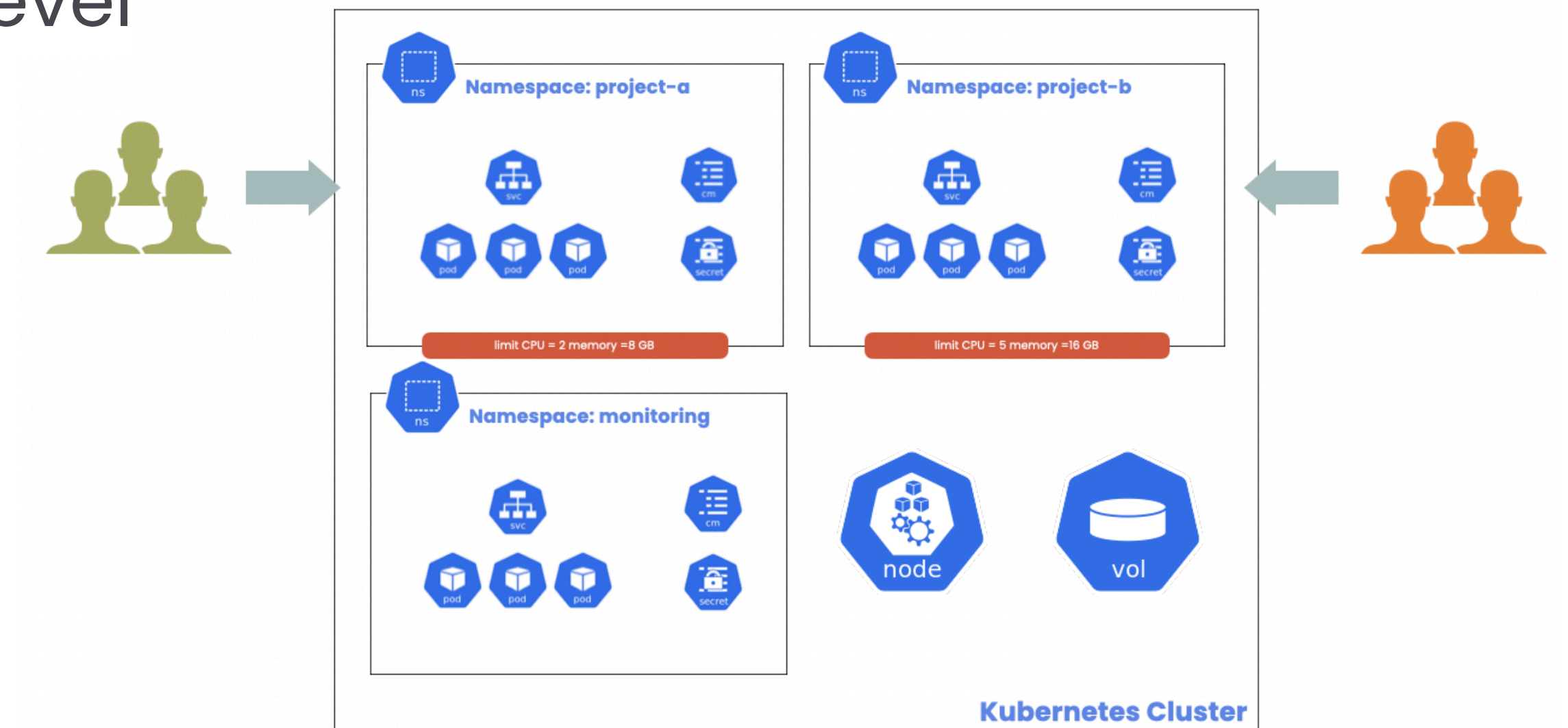


USE CASE – ACCESS/RESOURCE LIMITS



COMMON USE CASE FOR USING NAMESPACES

- **Structure** : your component
- **Avoid Conflict** : between teams
- **Share Services** : between different environment
- **Access/Resource Limit** : on Namespaces Level



```
$ kubectl api-resources --namespaced=false
```


WORKING WITH NAMESPACES

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THANK YOU