



Control Plane

Controller
Manager

Cloud
Controller
Manager

Api-Server

ETCD

Scheduler

Worker Node

Kubelet

Container Runtime

Kube Proxy



Worker Node

Kubelet

Container Runtime

Kube Proxy



Formas de ter um cluster Kubernetes

On-Premisse

- Kubeadm
- Kubespray
- RKE
- K3S
- MicroK8S

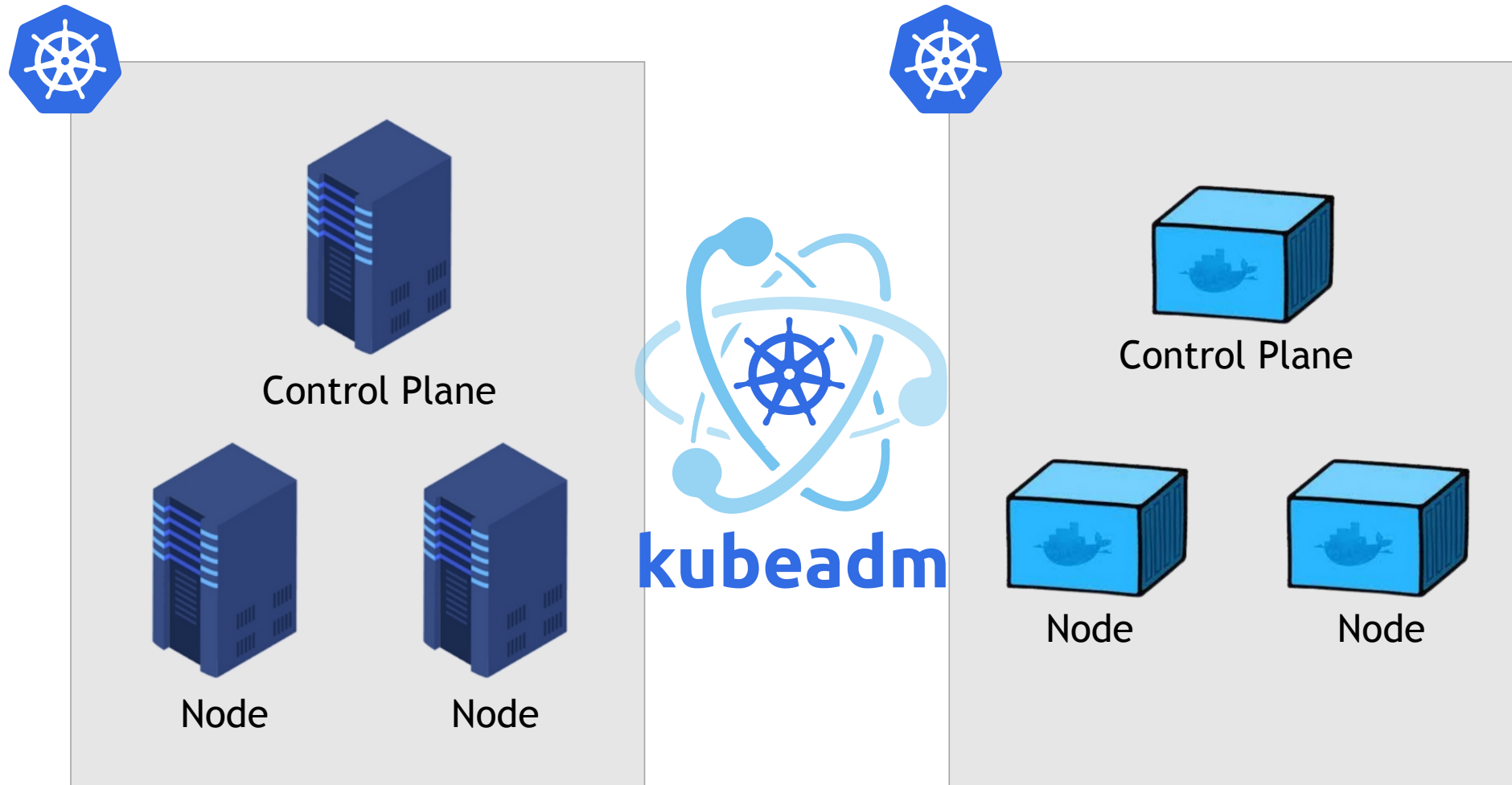
Kubernetes as a Service

- AKS
- EKS
- GKE

Local

- Minikube
- Kind
- K3D
- MicroK8S
- K3S

Kind - Kubernetes In Docker





- Pod
- Labels e Selectors
- ReplicaSet
- Deployment

Pod

Pod

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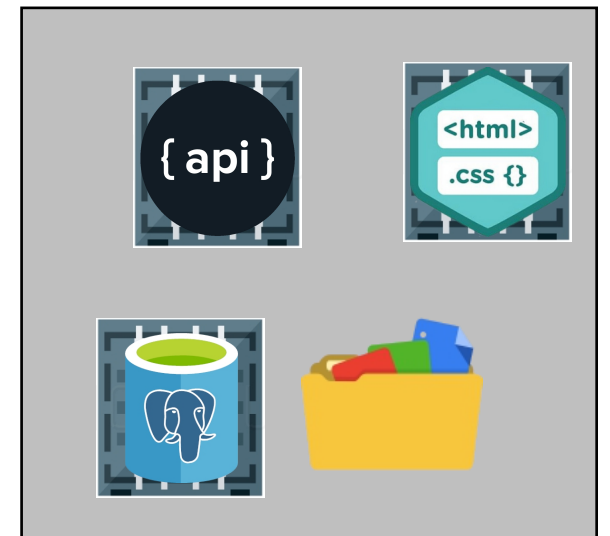
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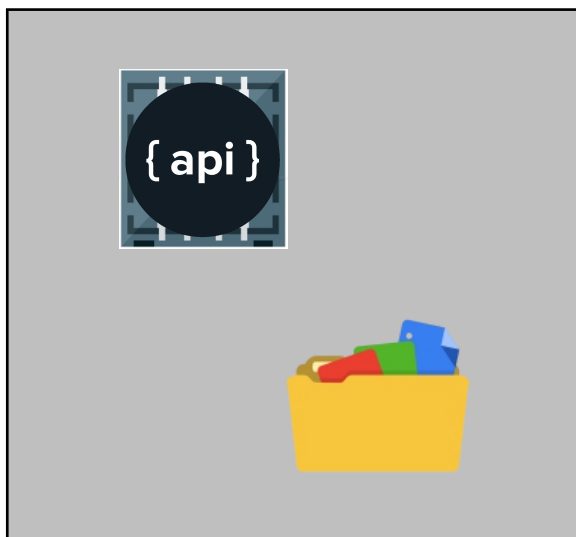
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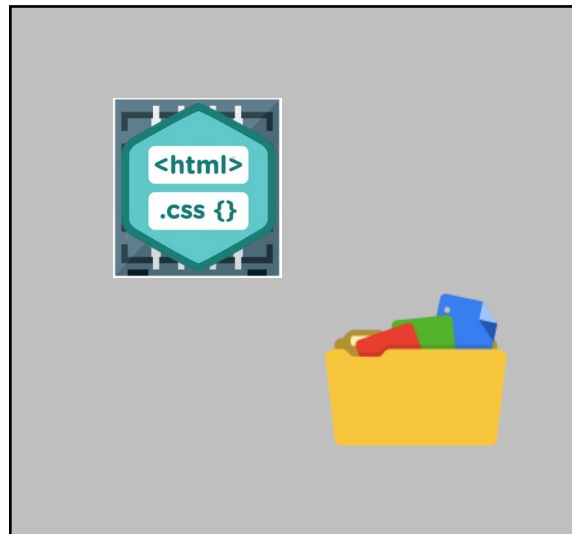
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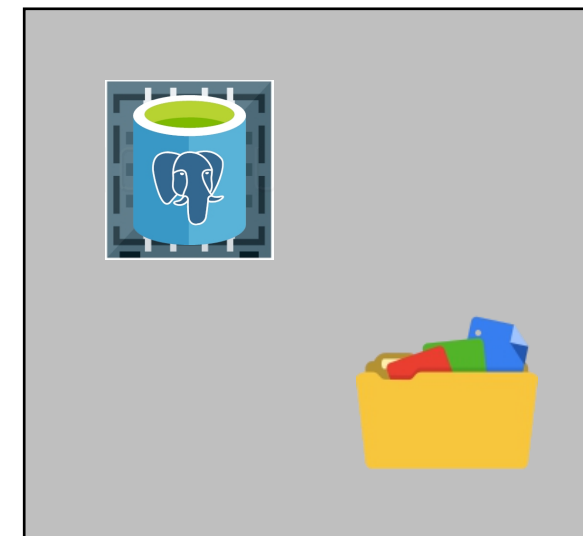
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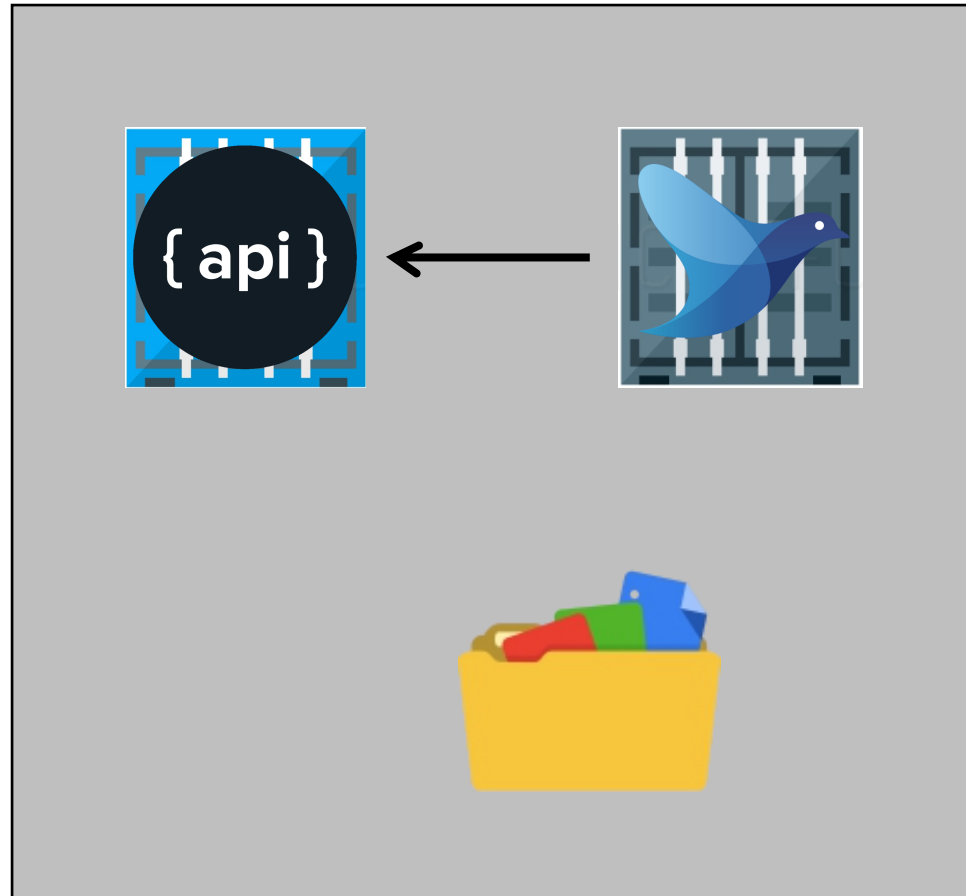
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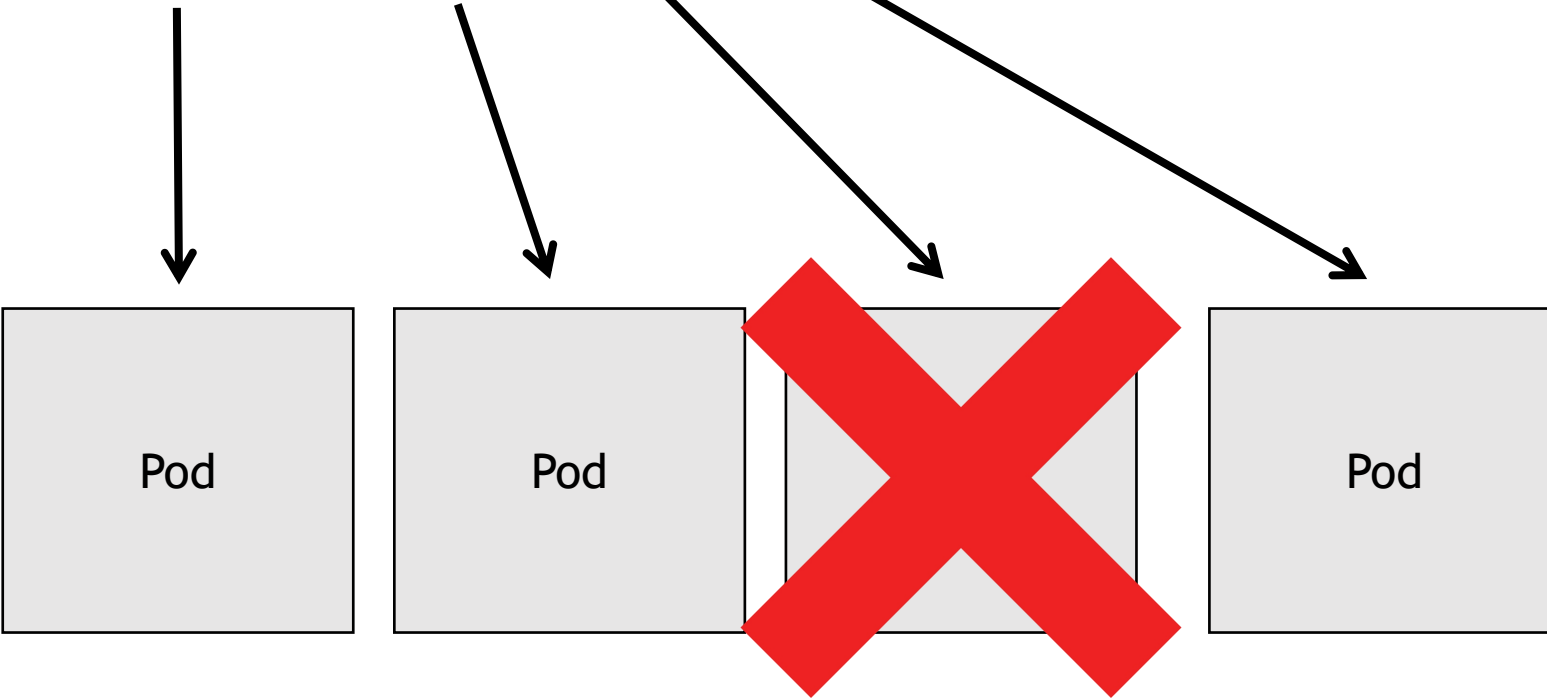
ReplicaSet

ReplicaSet

Replicas: 3

Template: Pod

replicas desejadas == replicas corrente

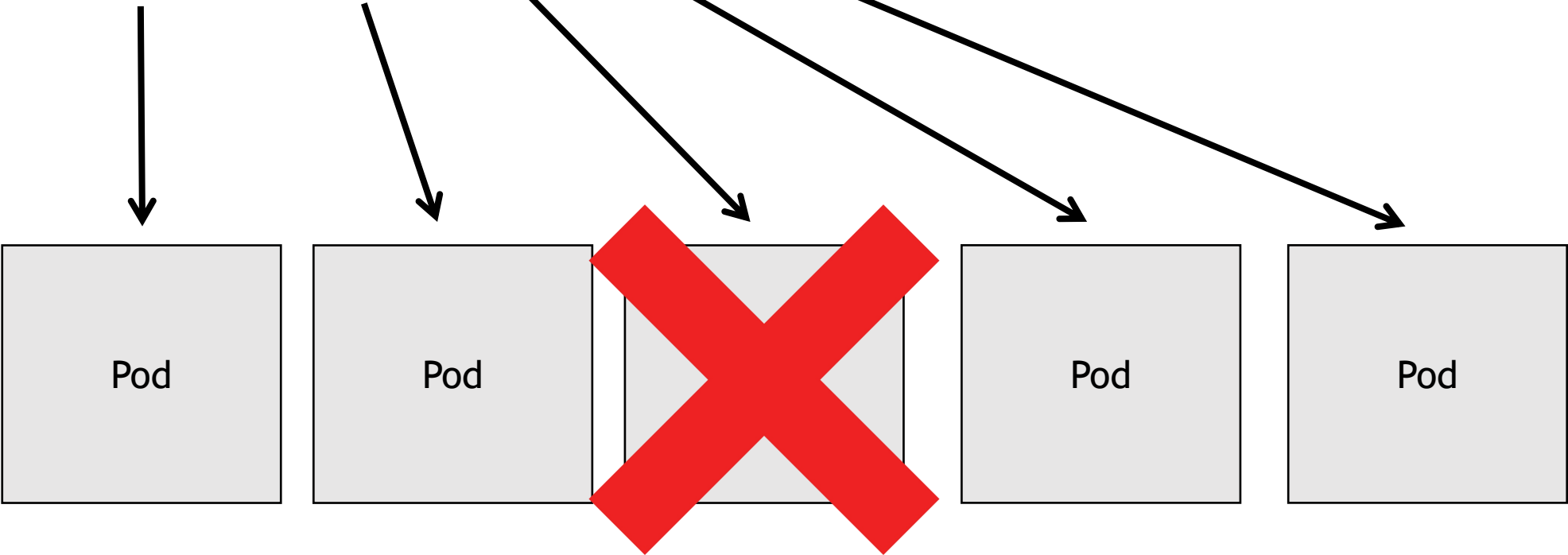


ReplicaSet

Replicas: 4

Template: Pod

replicas desejadas == replicas corrente

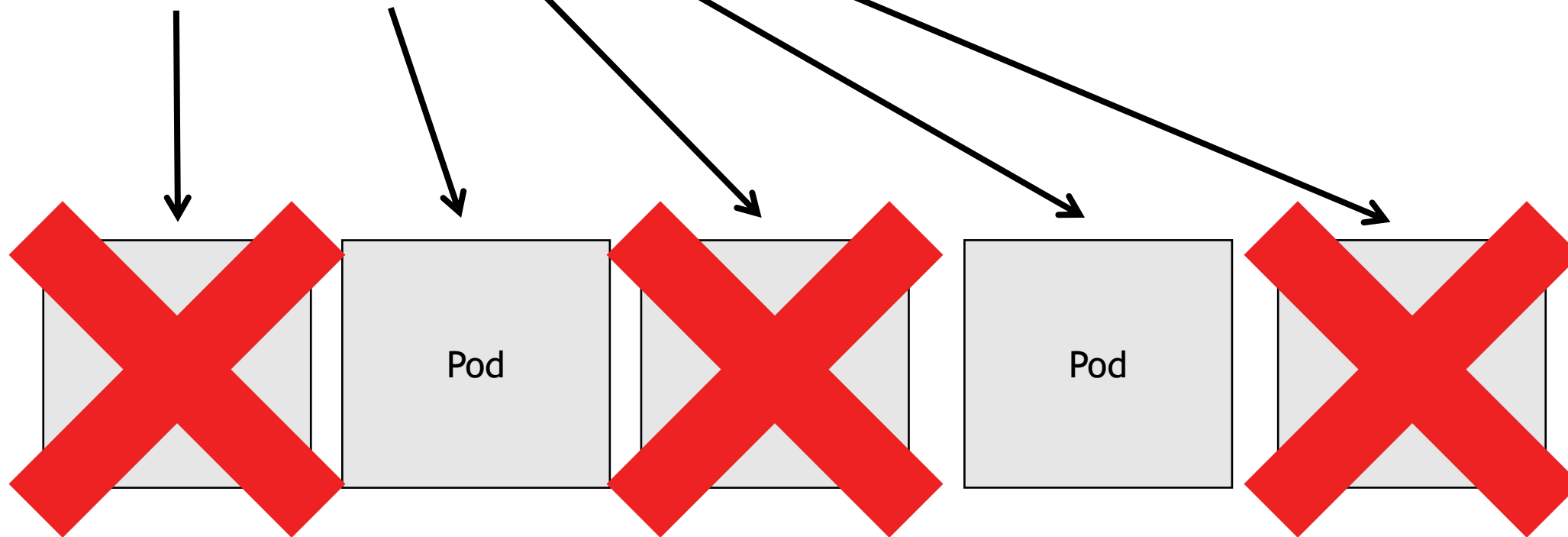


ReplicaSet

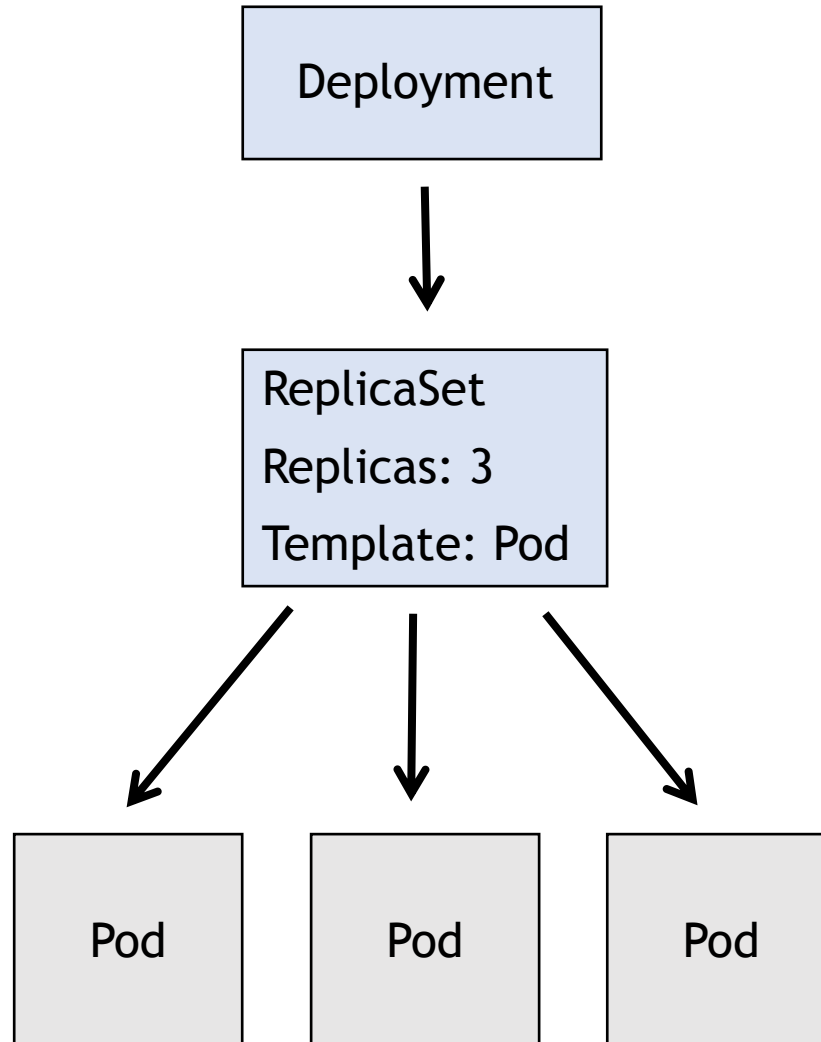
Replicas: 2

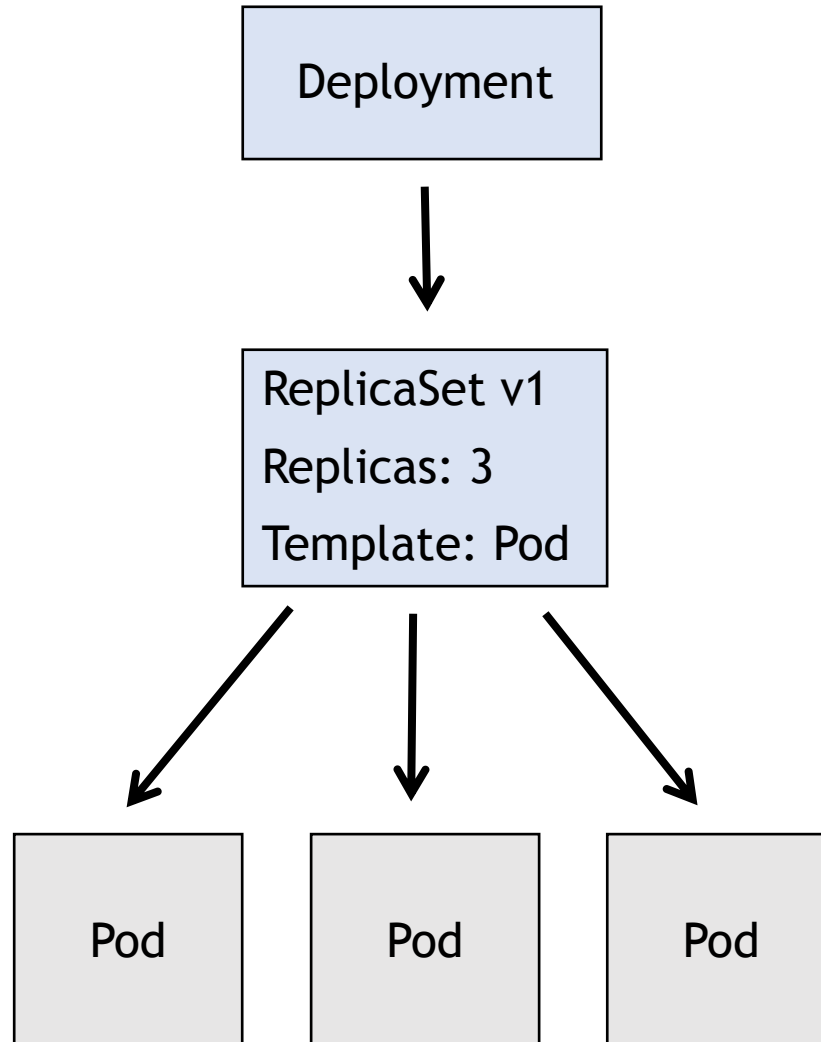
Template: Pod

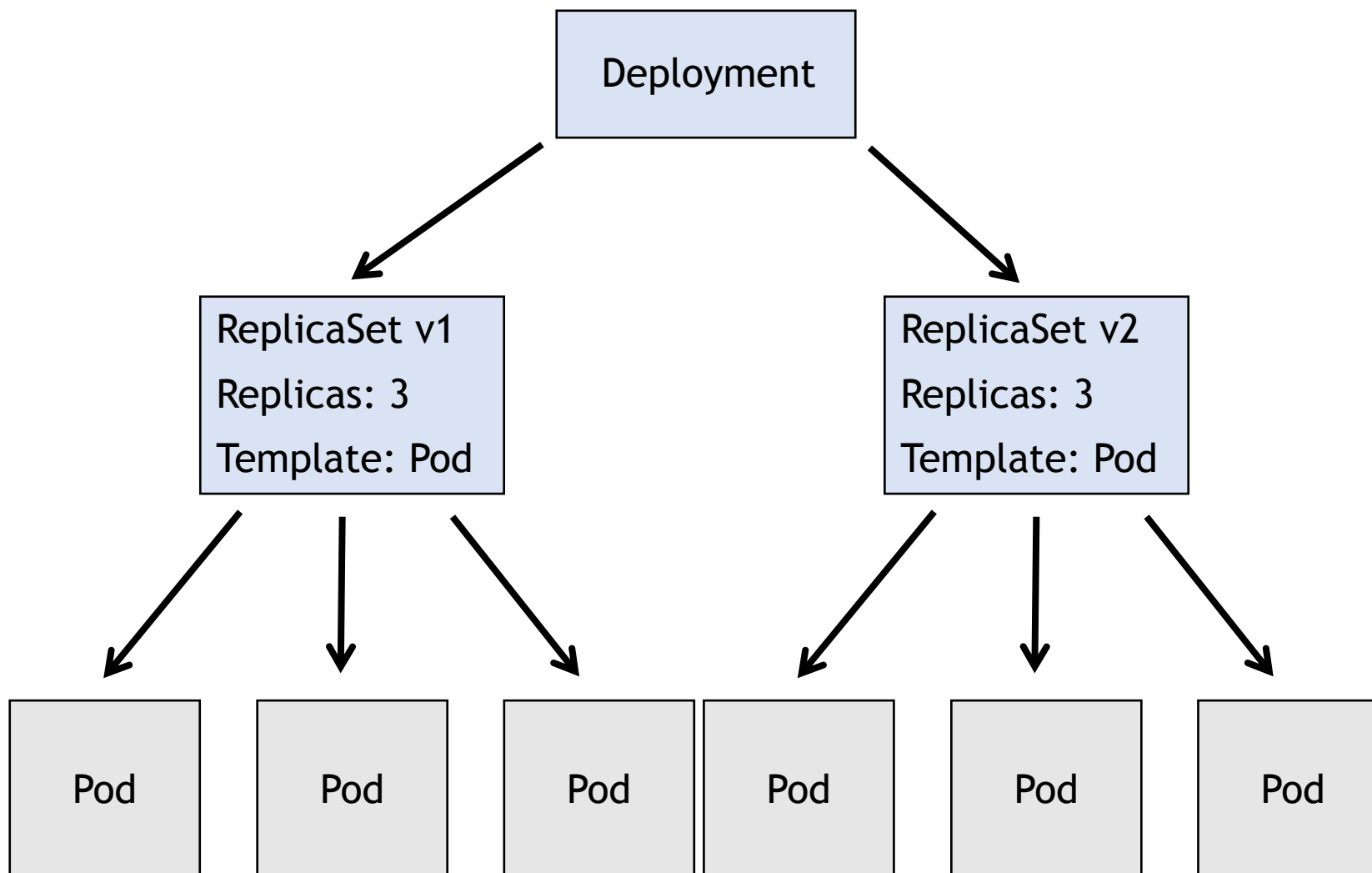
replicas desejadas == replicas corrente

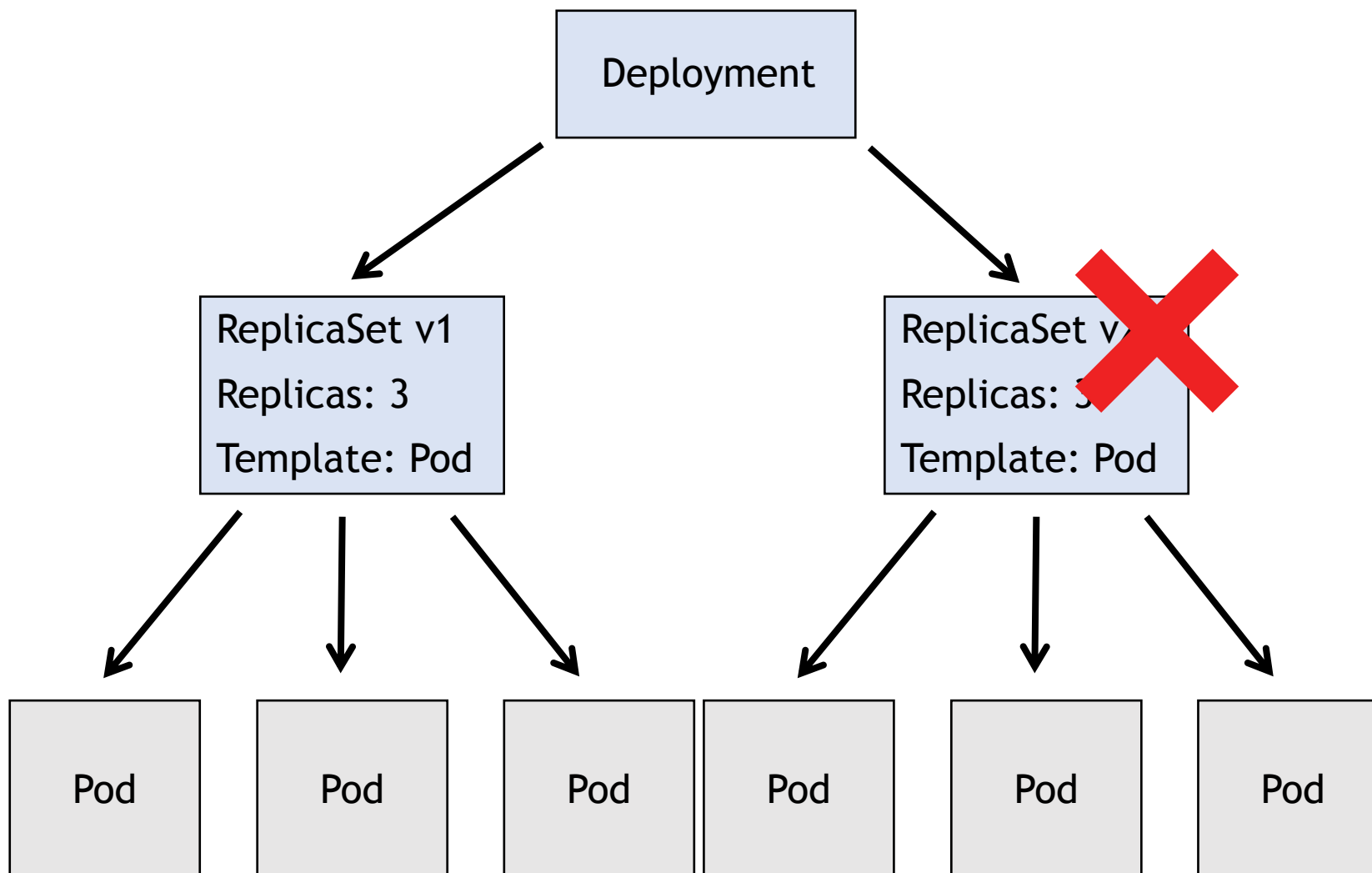


Deployment

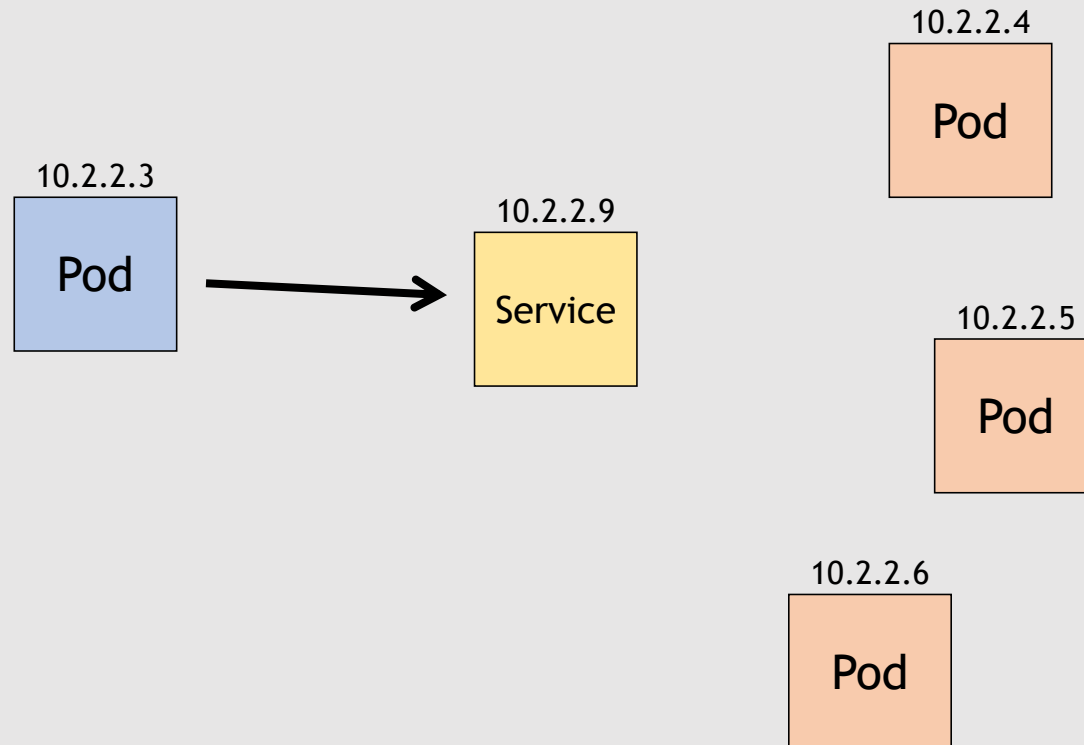








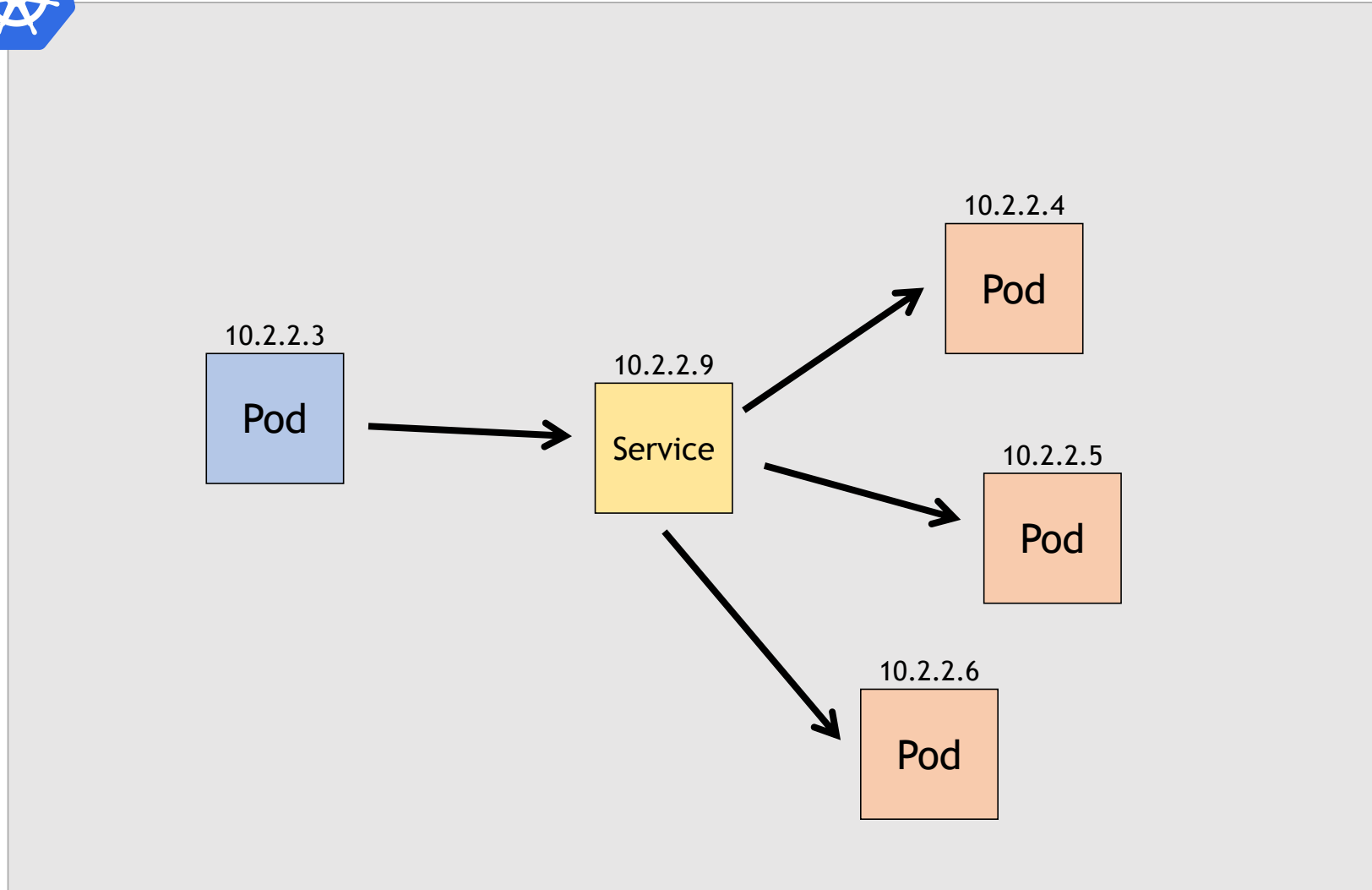
Service



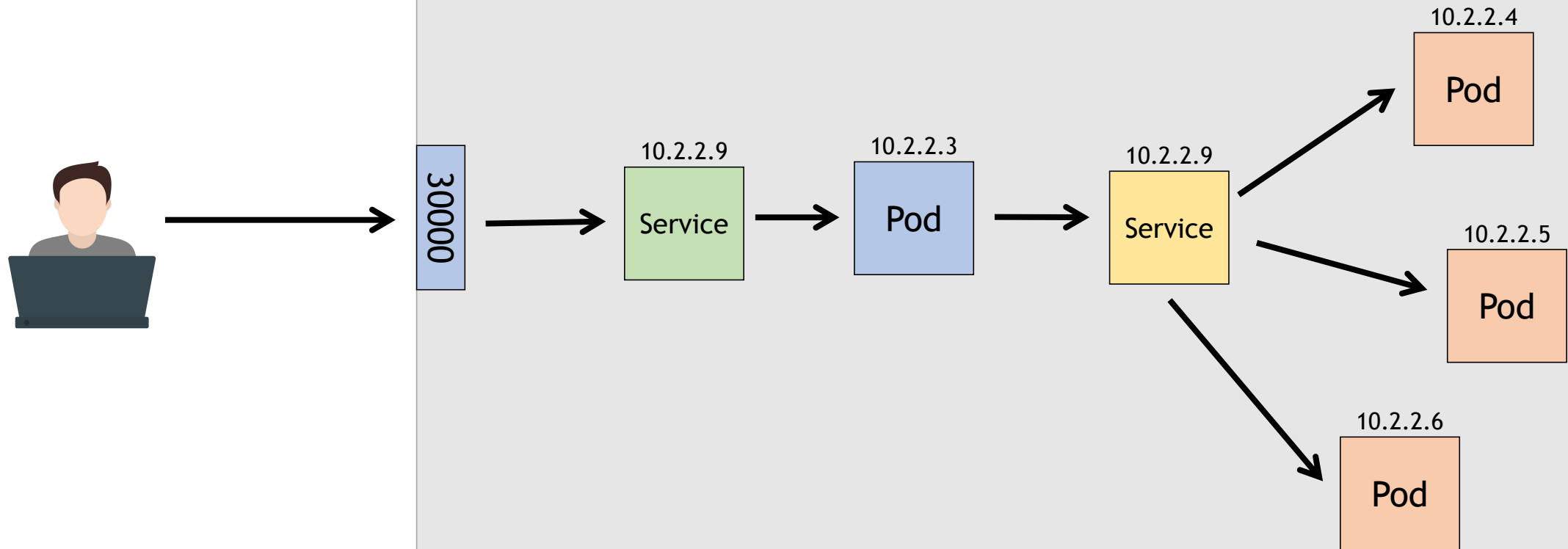
Tipos de Service

- ClusterIP
- NodePort
- LoadBalancer

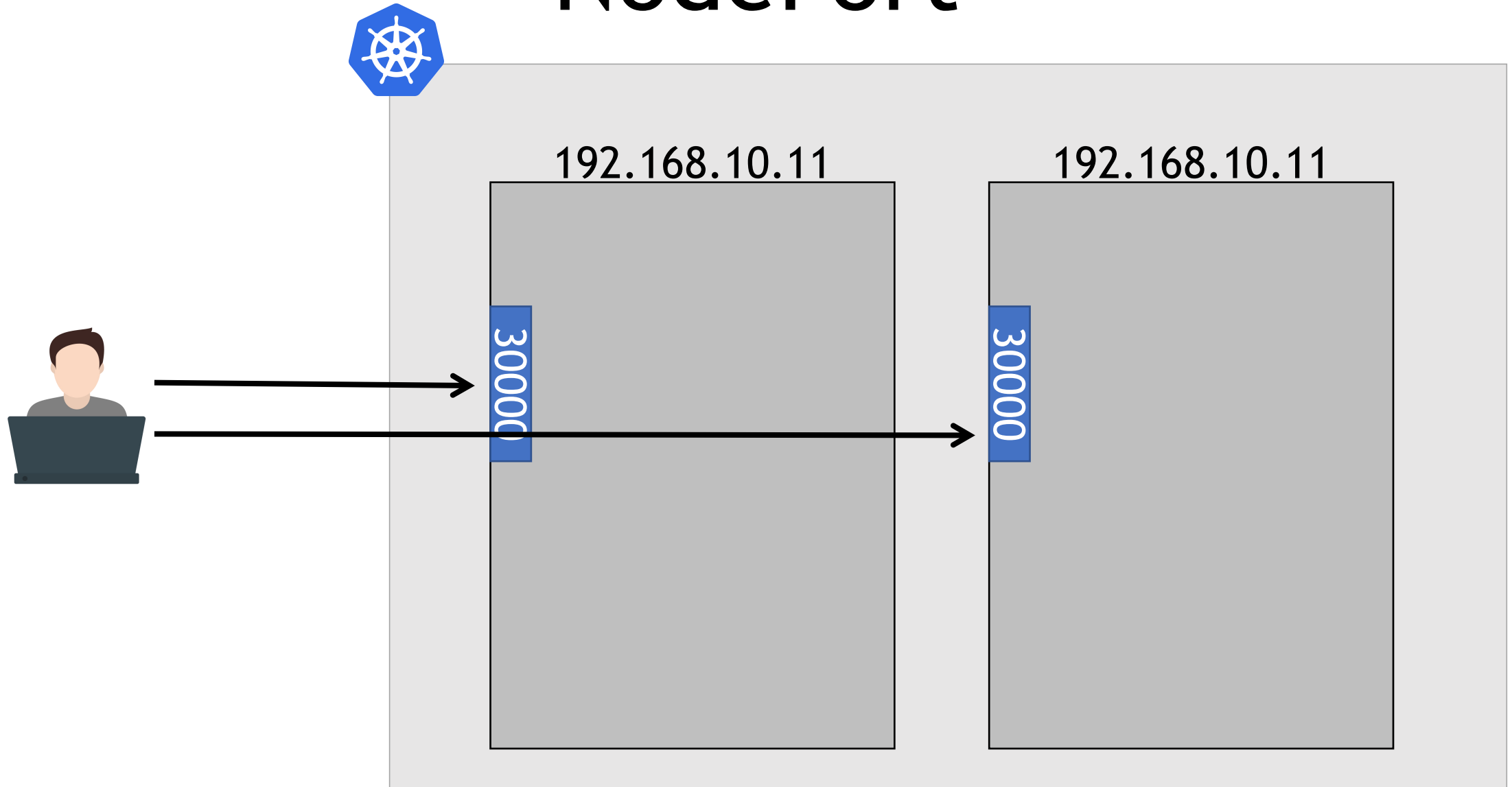
ClusterIP



NodePort



NodePort



LoadBalancer

