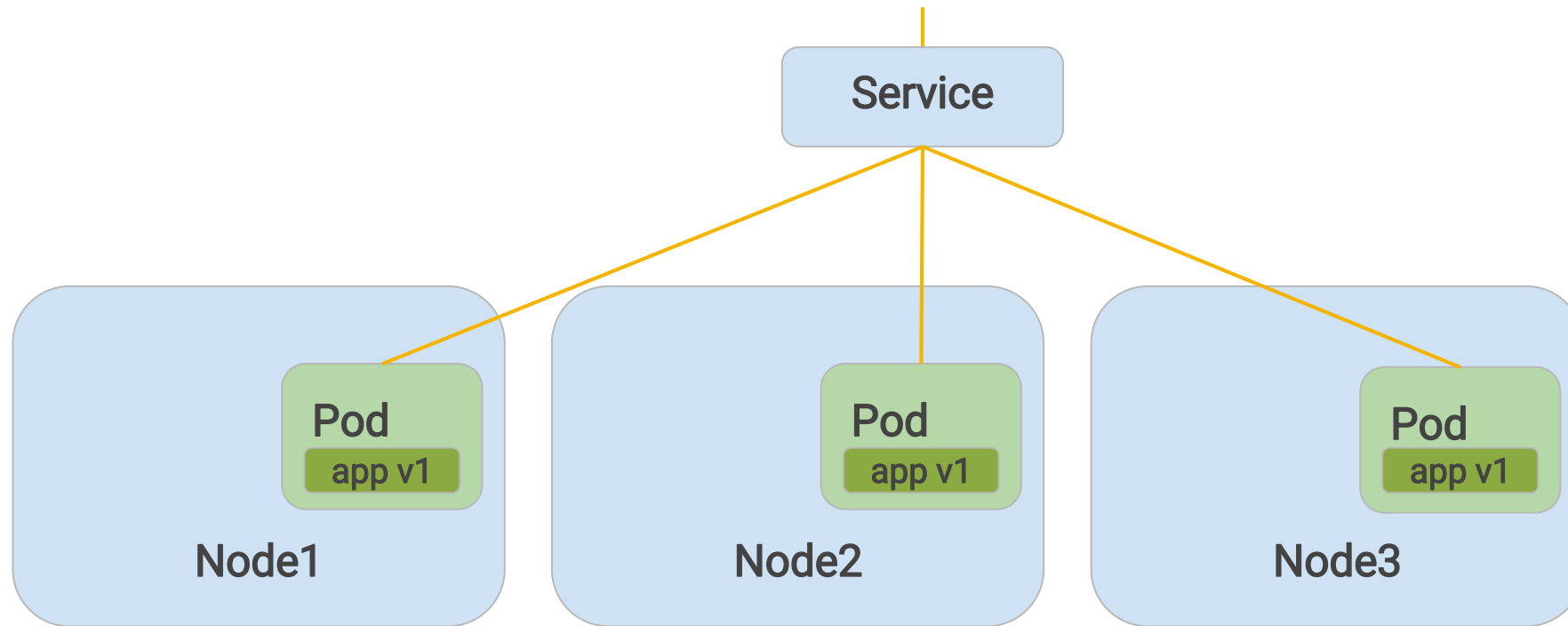
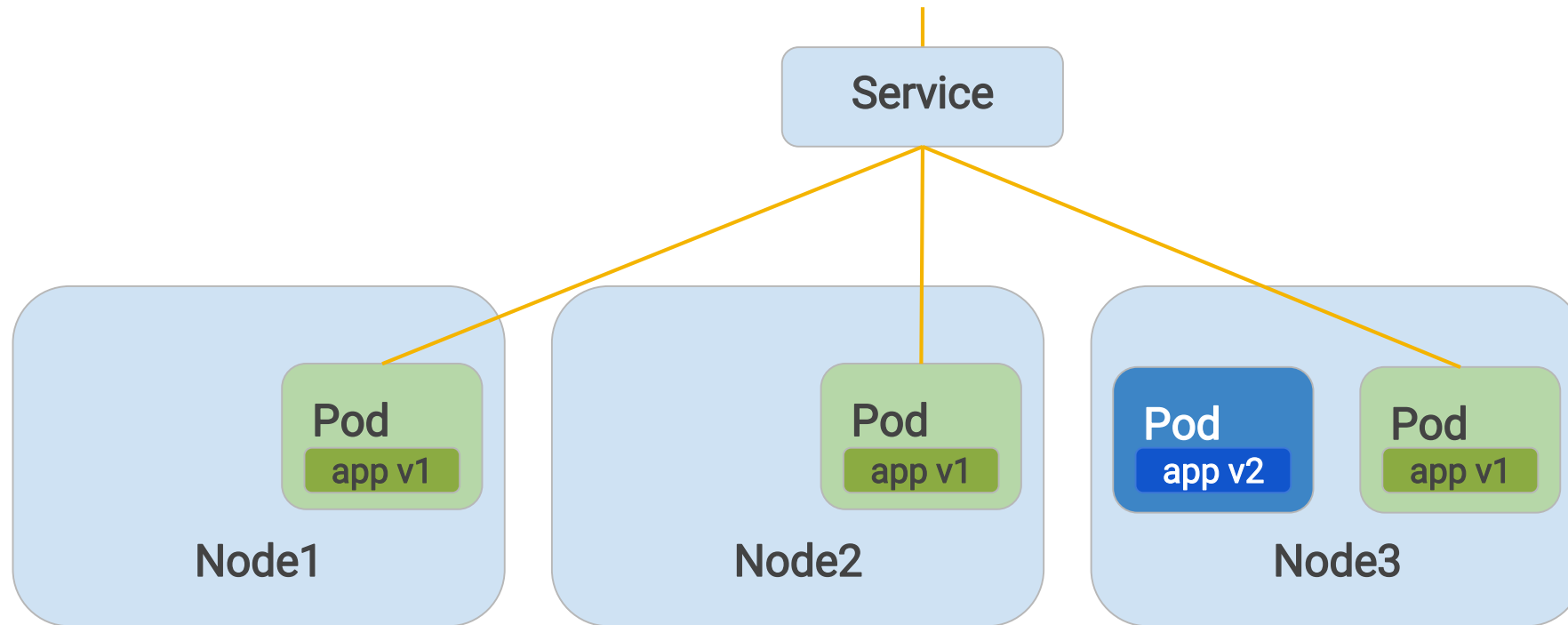


Rolling Updates

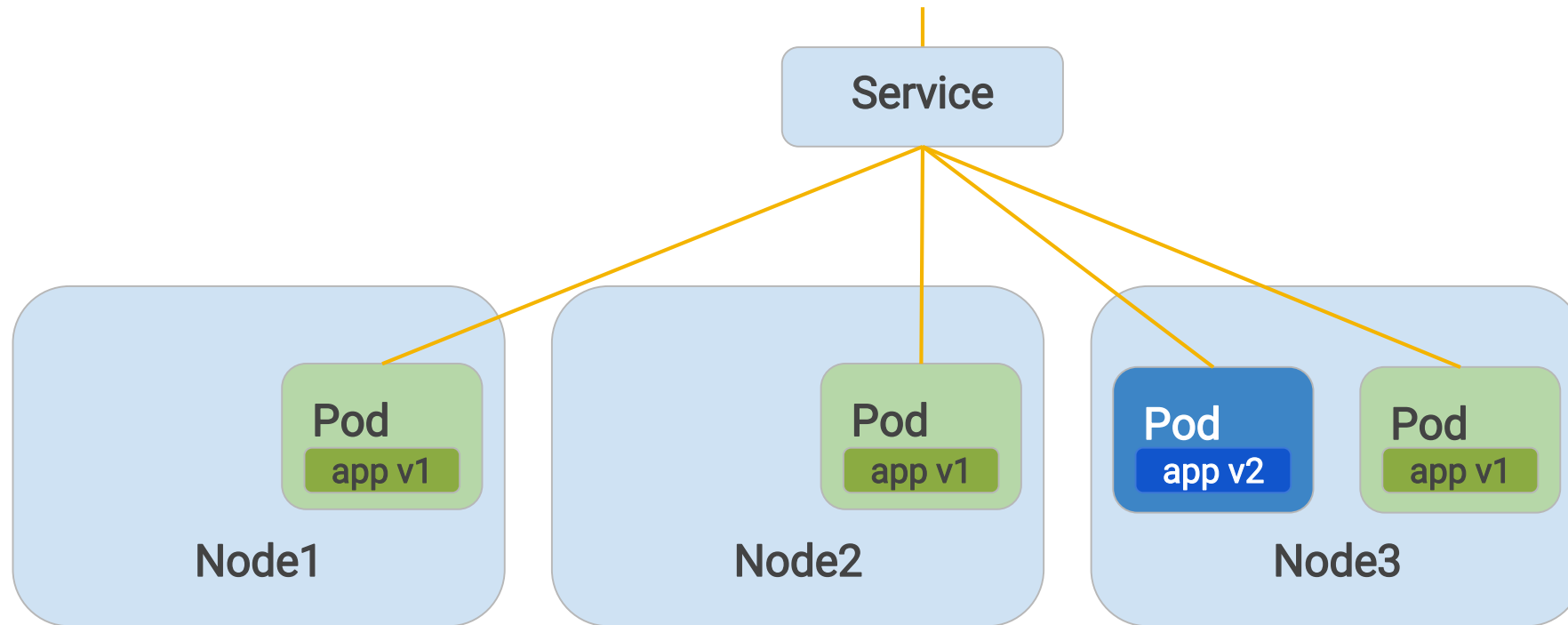
Rolling Update



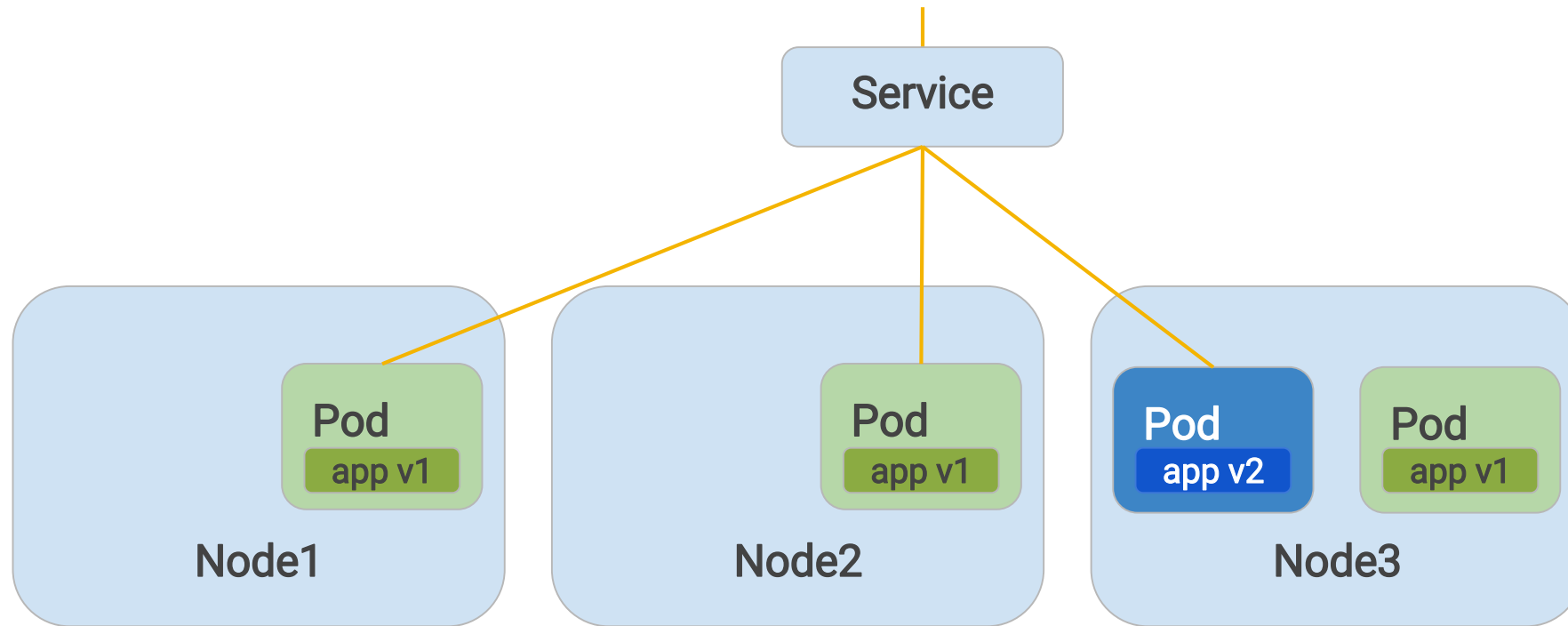
Rolling Update



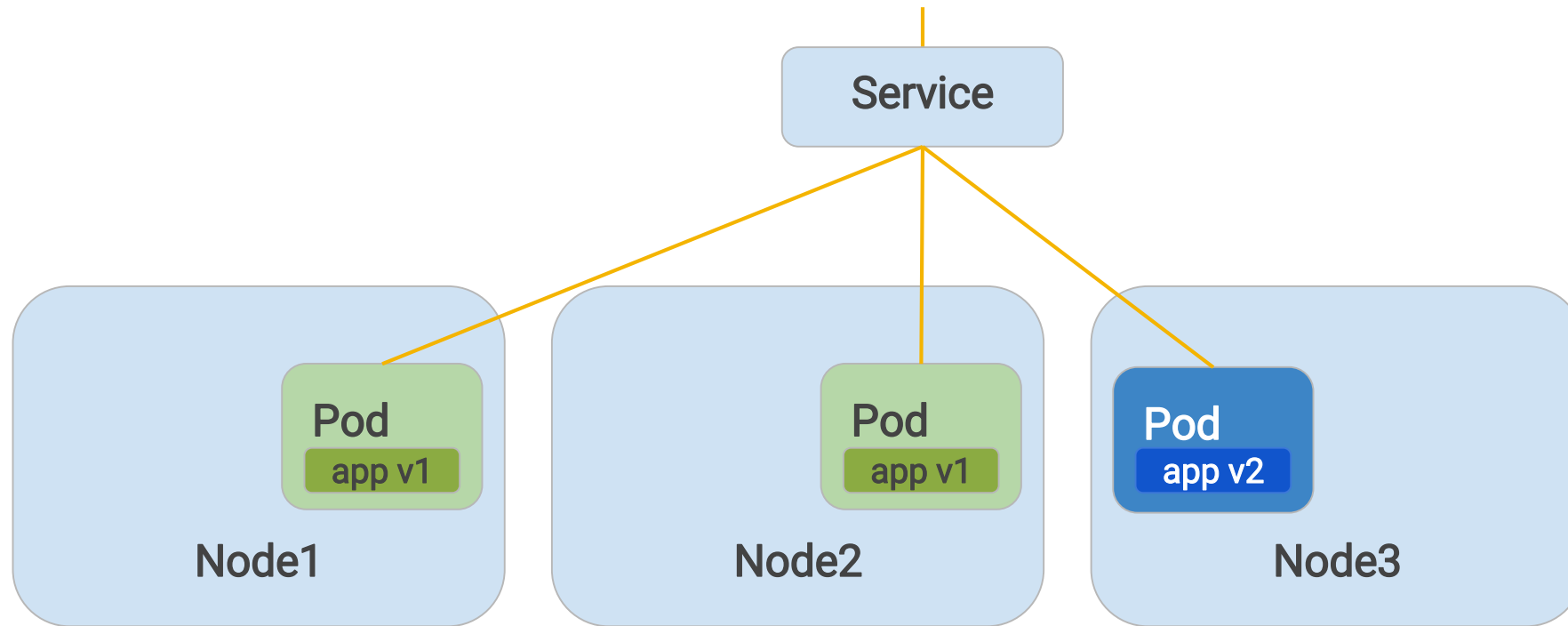
Rolling Update



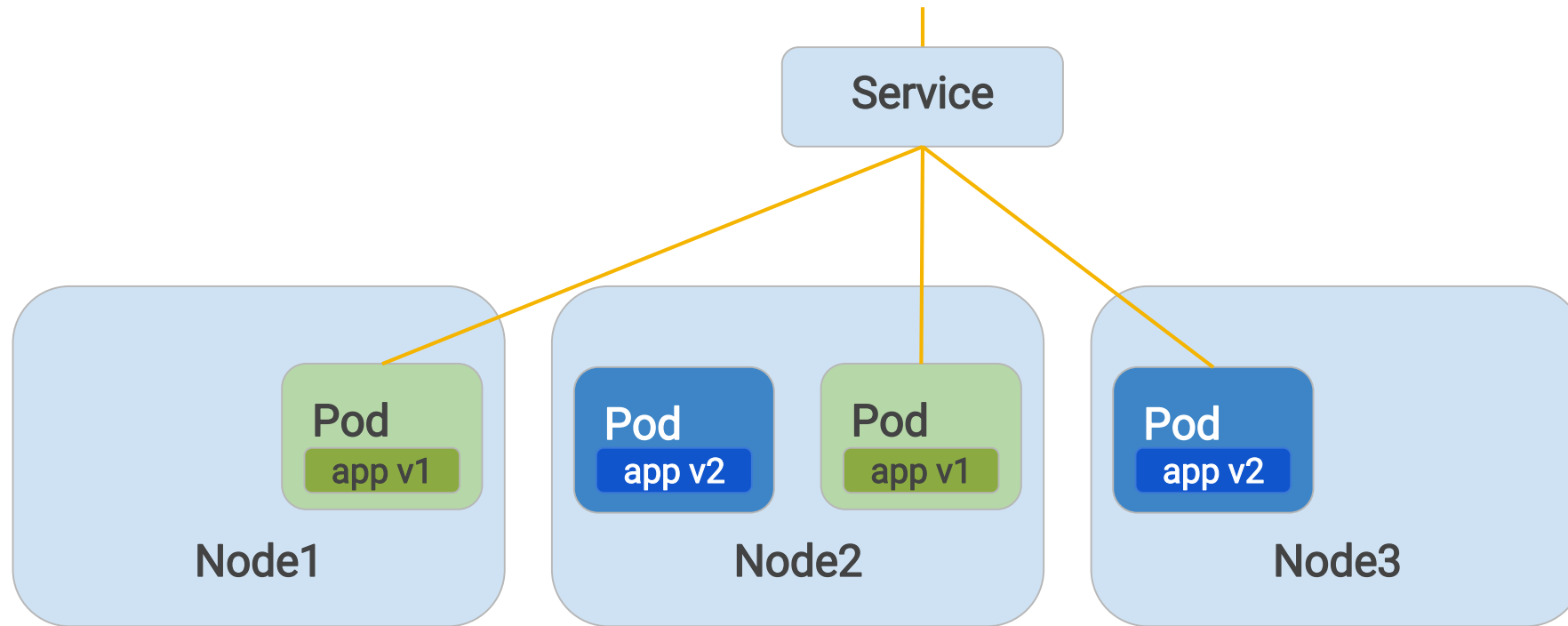
Rolling Update



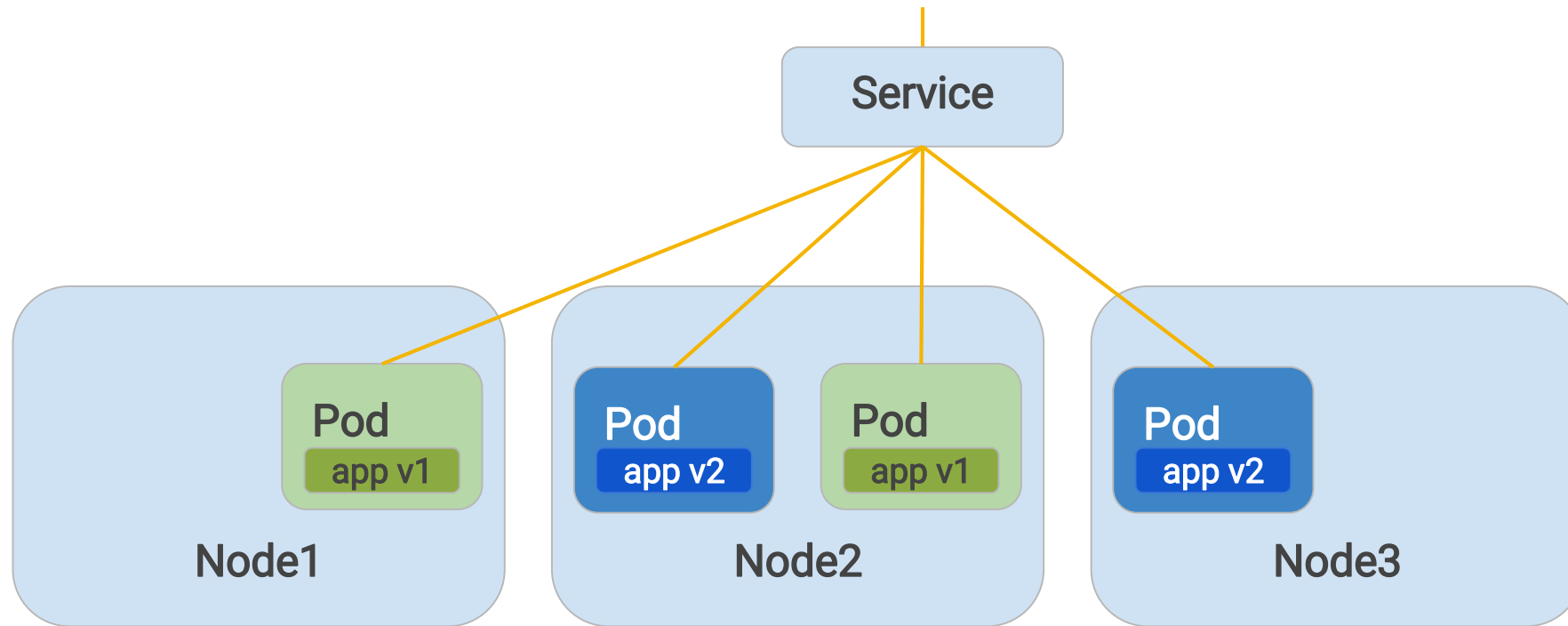
Rolling Update



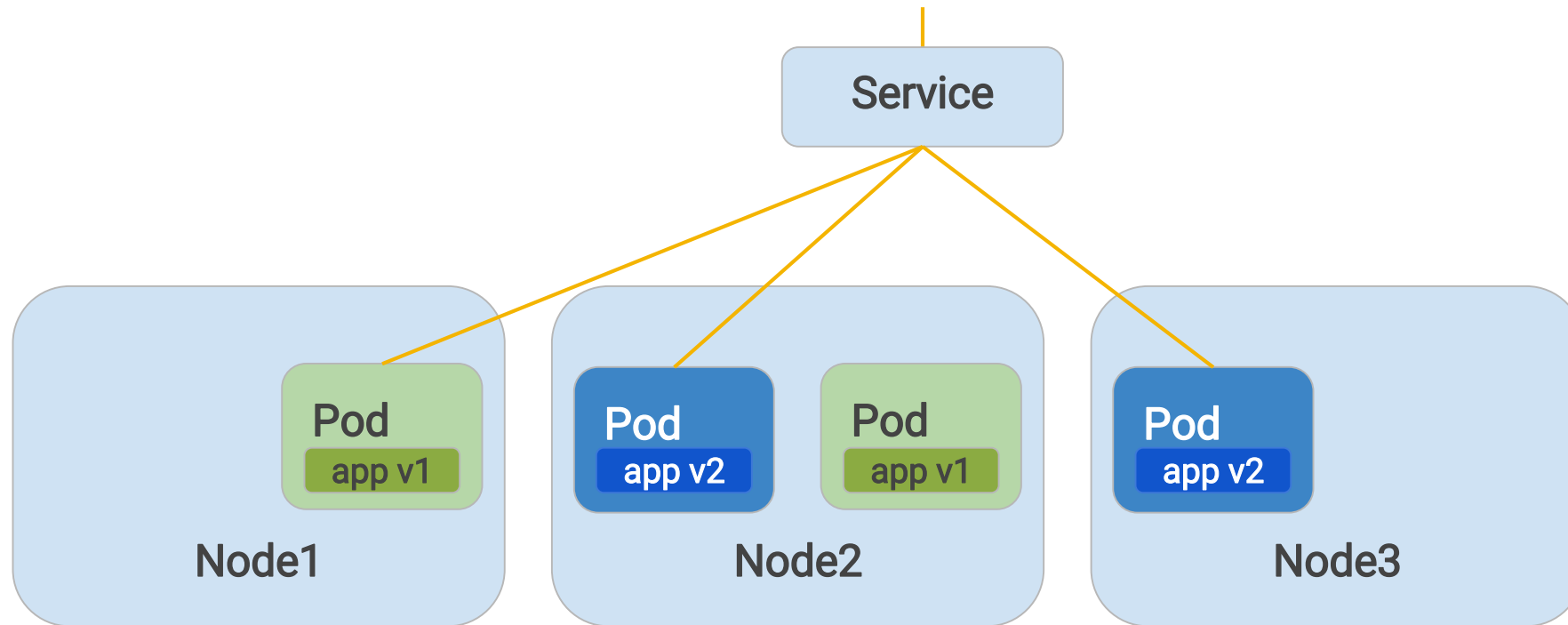
Rolling Update



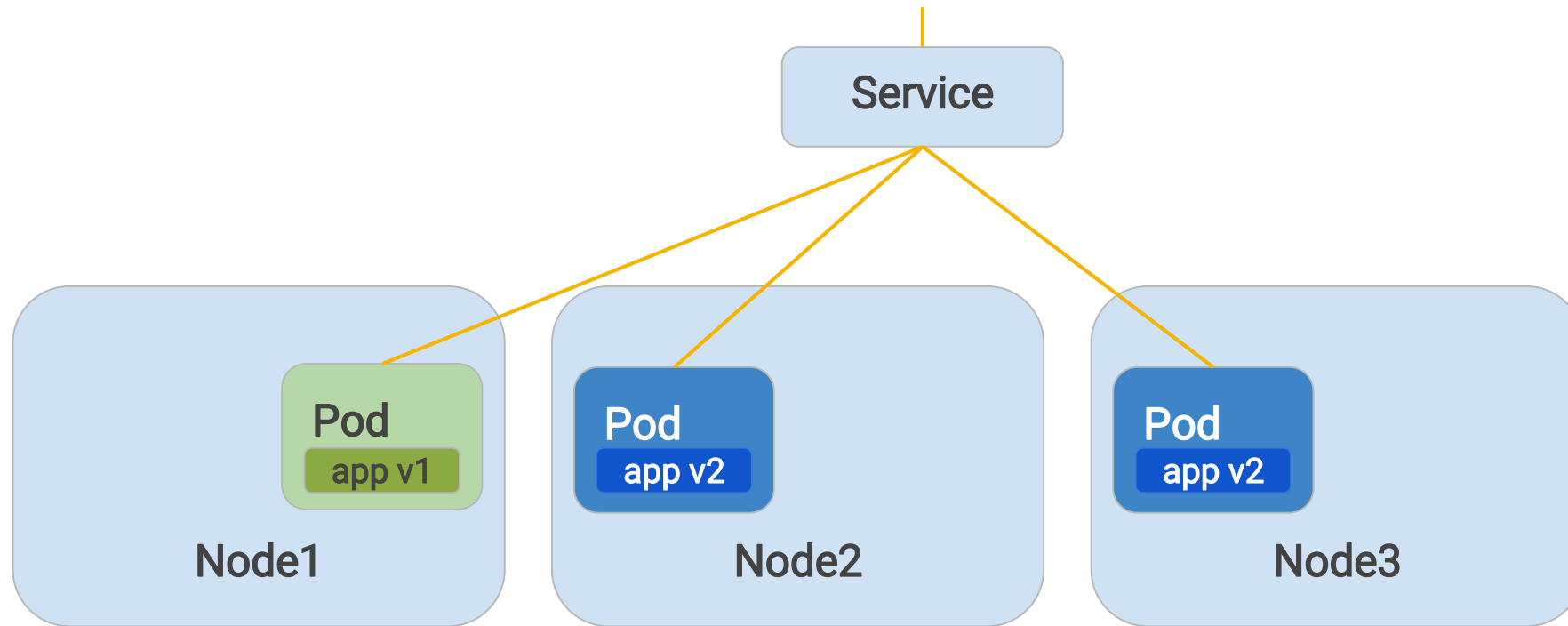
Rolling Update



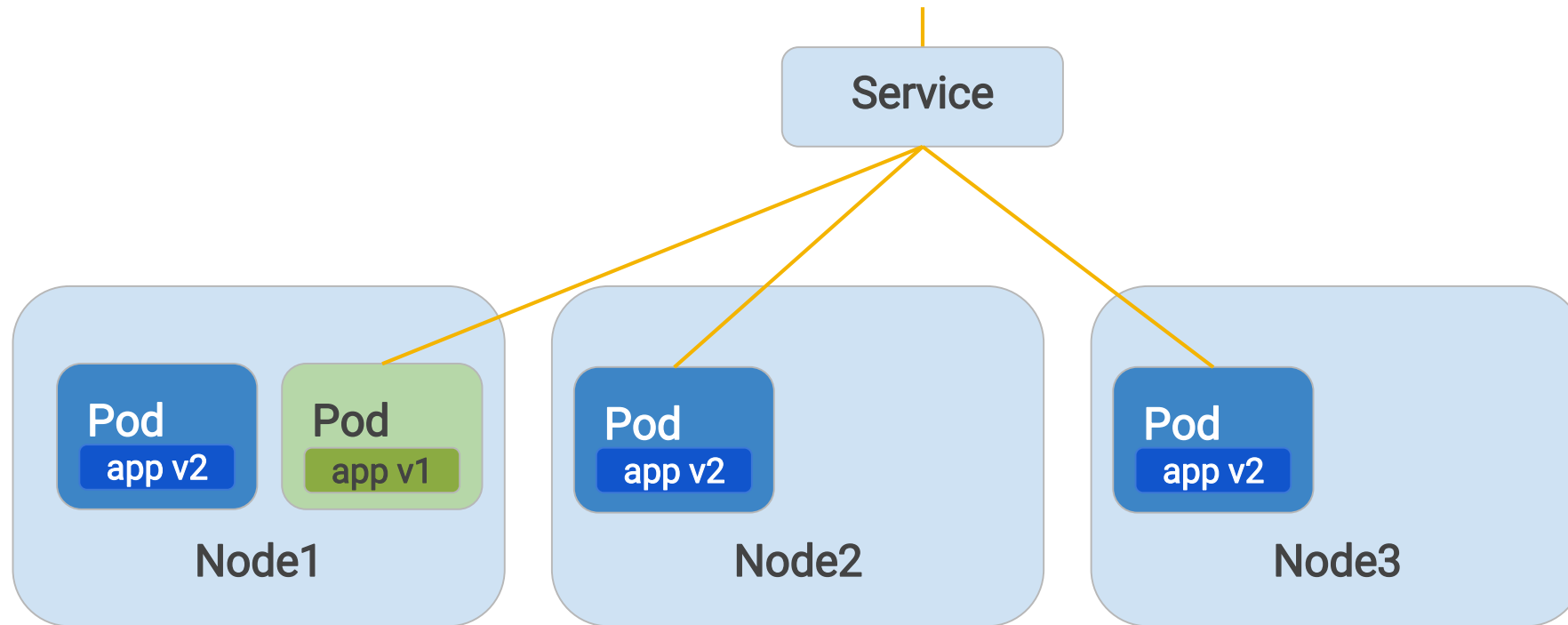
Rolling Update



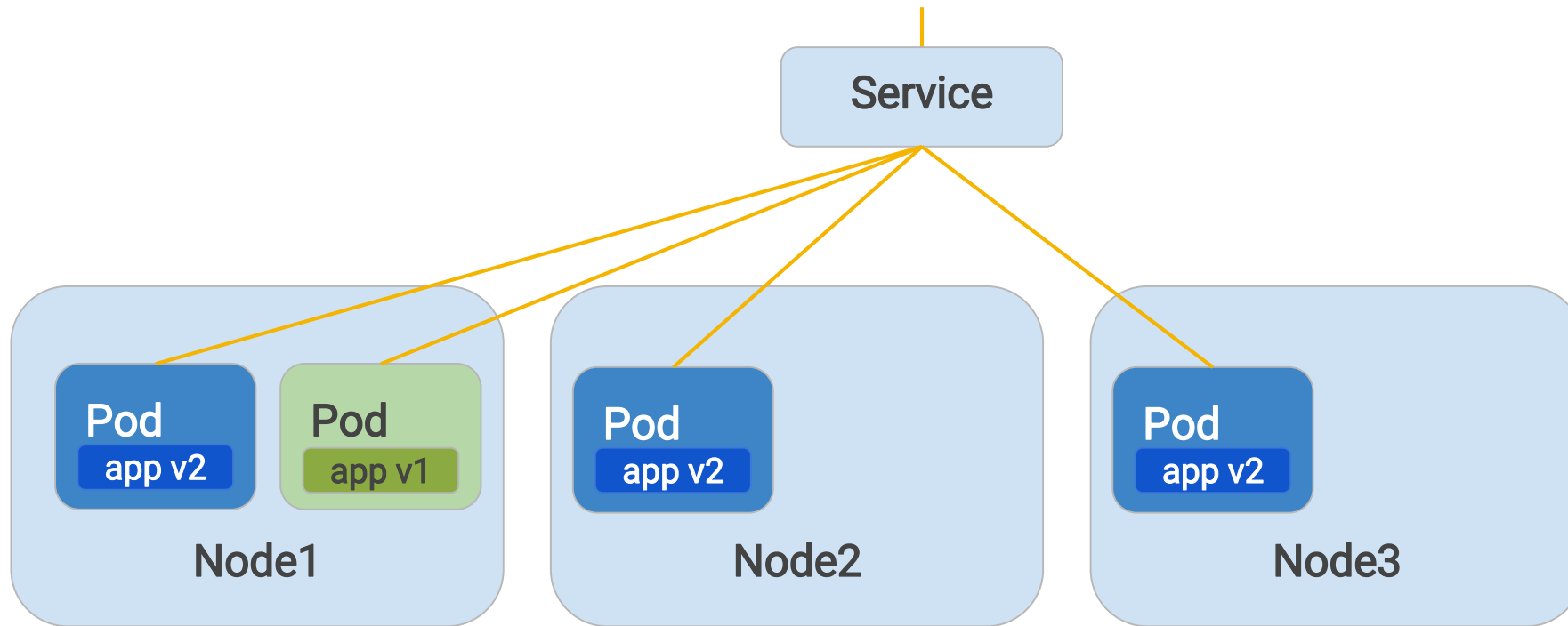
Rolling Update



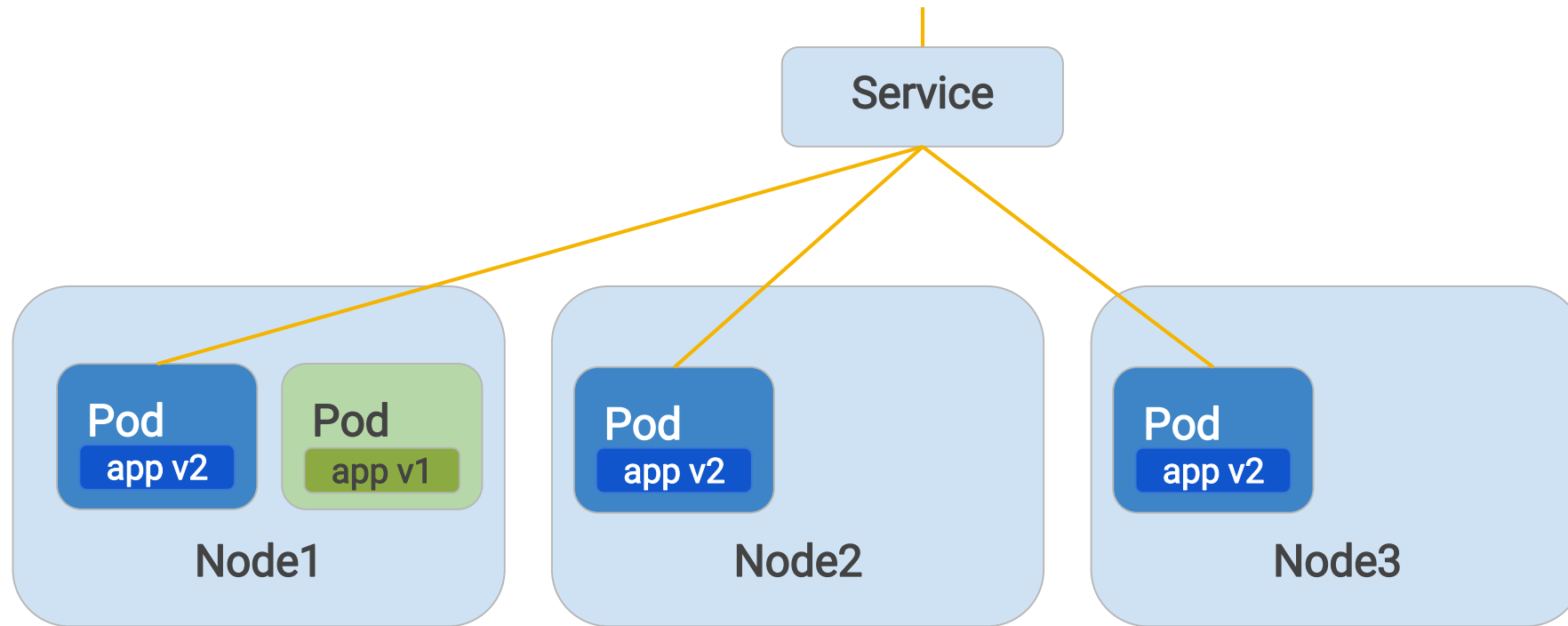
Rolling Update



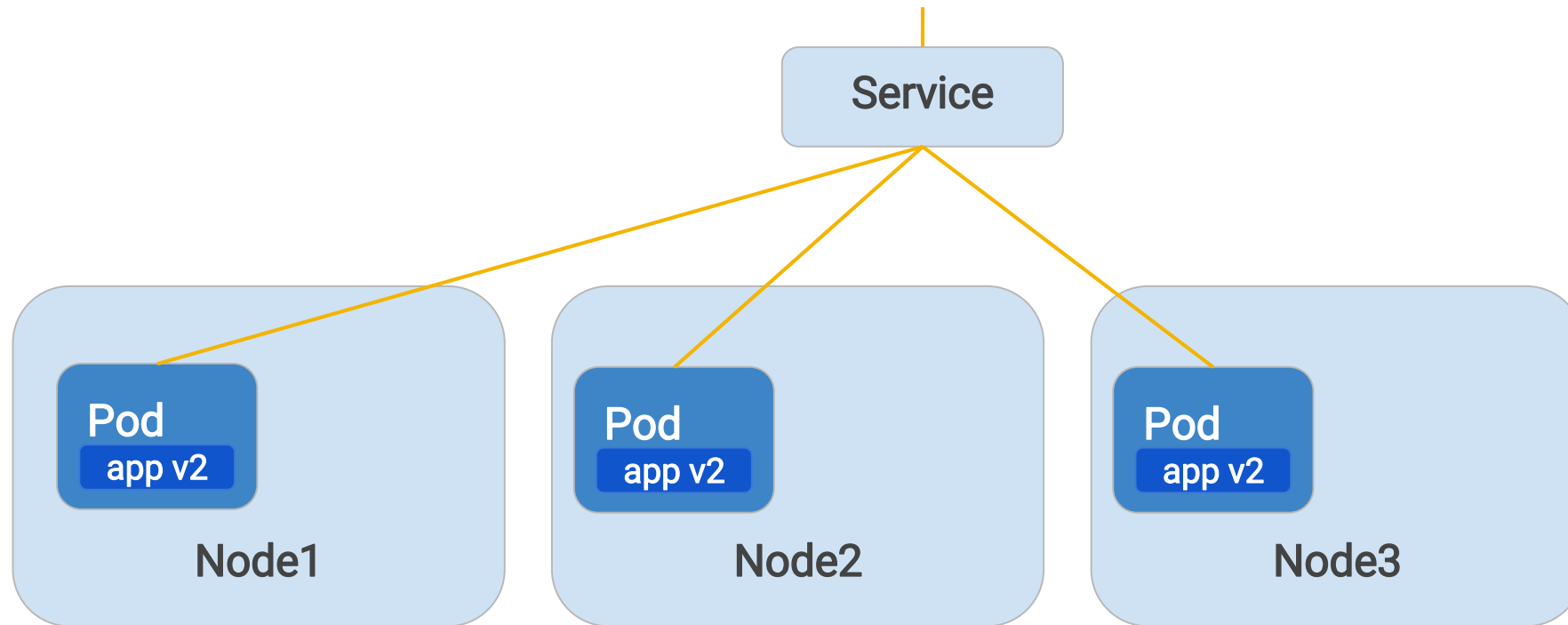
Rolling Update



Rolling Update



Rolling Update



Lab

Rolling out updates

Recap

Kubernetes

Manage applications, not machines

Open source, Open API container
orchestrator

Supports **multiple cloud** and **bare-metal**
environments

Inspired and informed by Google's
experiences and internal systems



Container

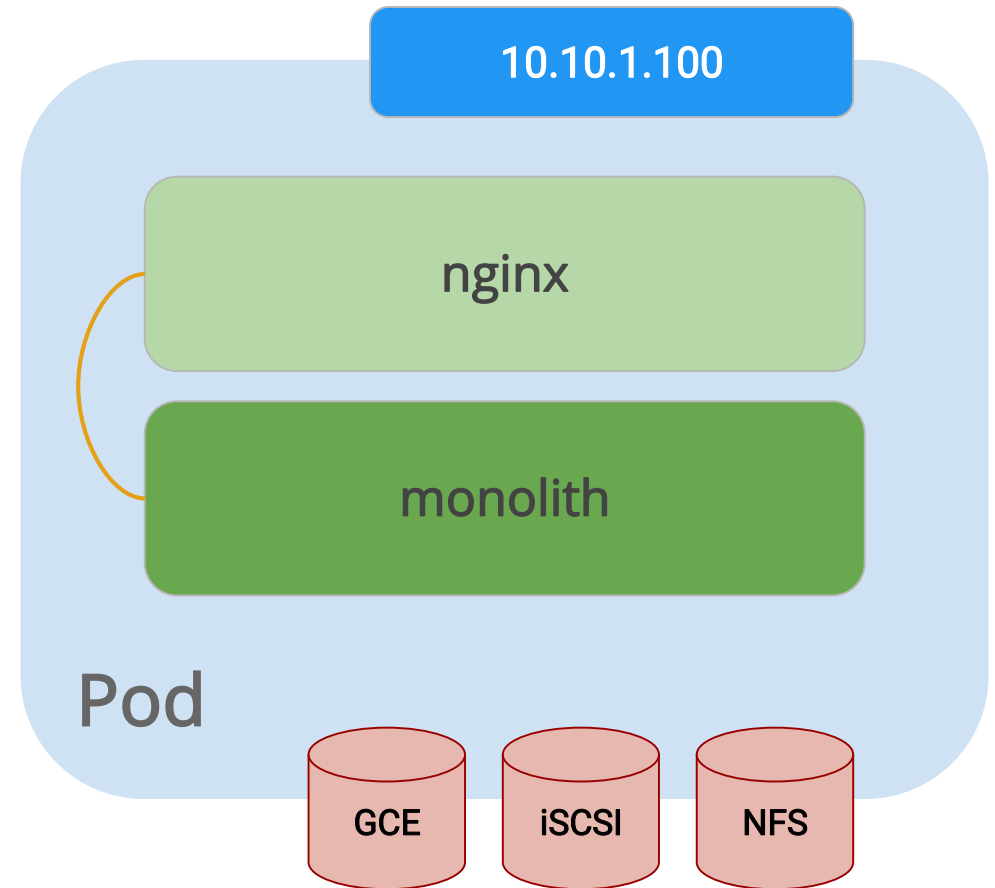
- Subatomic unit in Kubernetes
- Can use Dockerfile just like you're used to



Pods

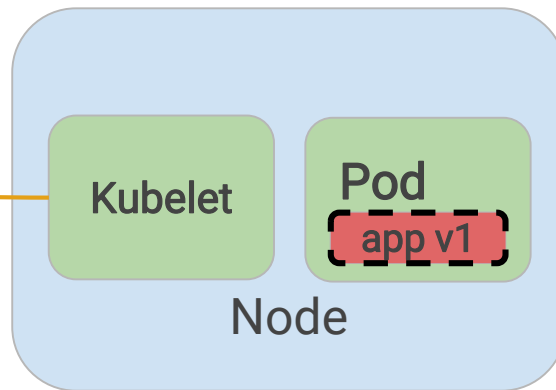
Logical Application

- One or more containers and volumes
- Shared namespaces
- One IP per pod



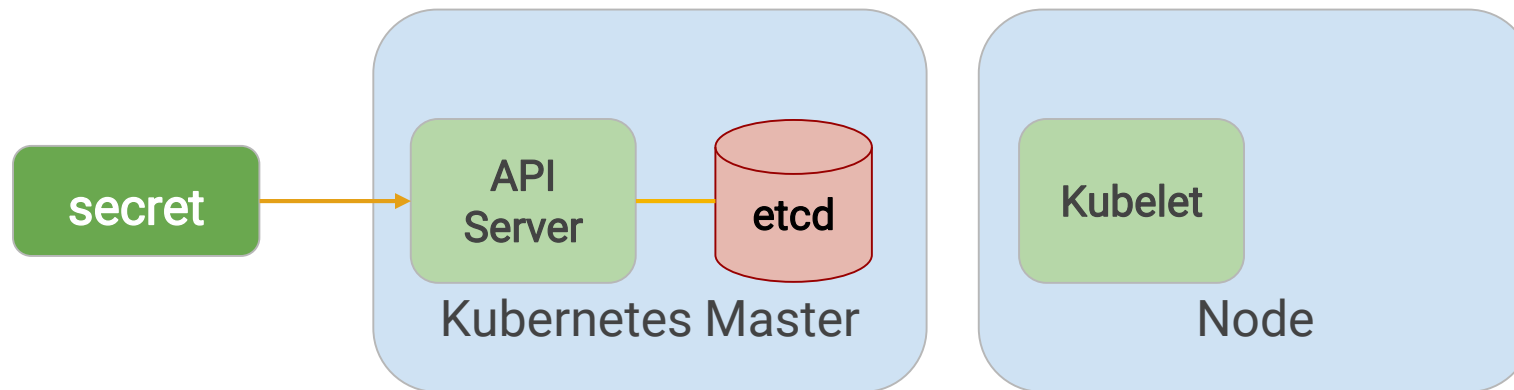
Monitoring and Health Checks

Hey, app v1... You alive?



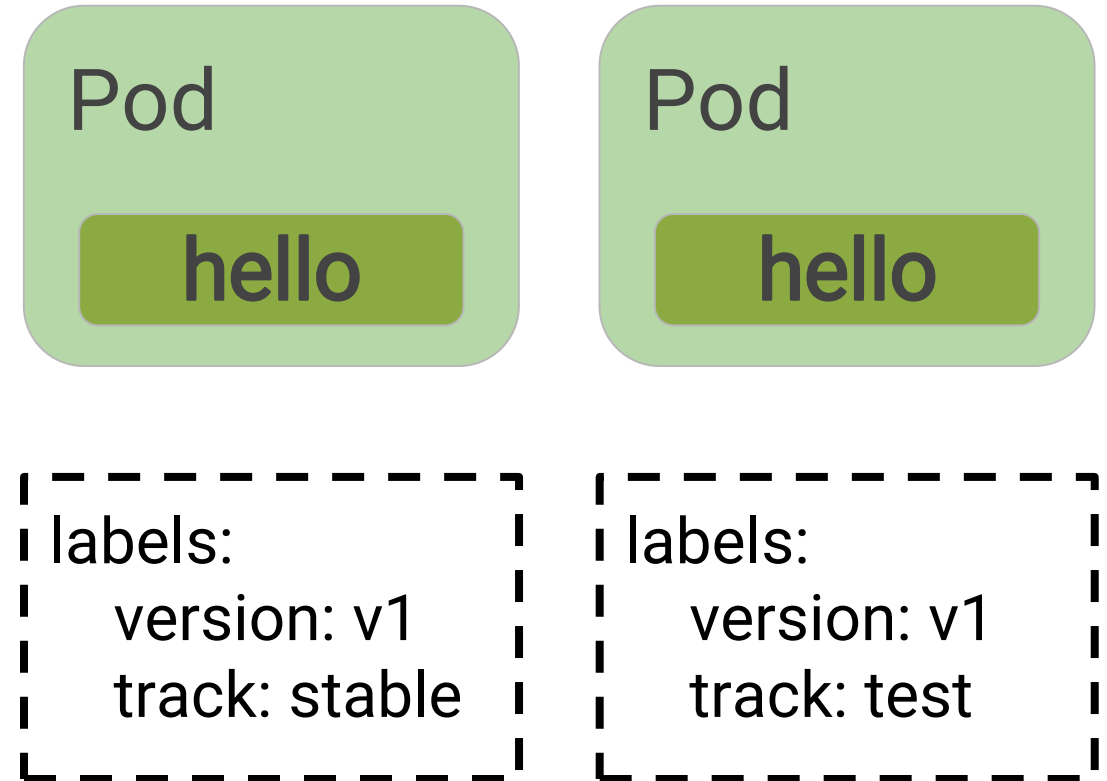
Secrets and Configmaps

\$ kubectl create secret generic tls-certs --from-file=tls/



Labels

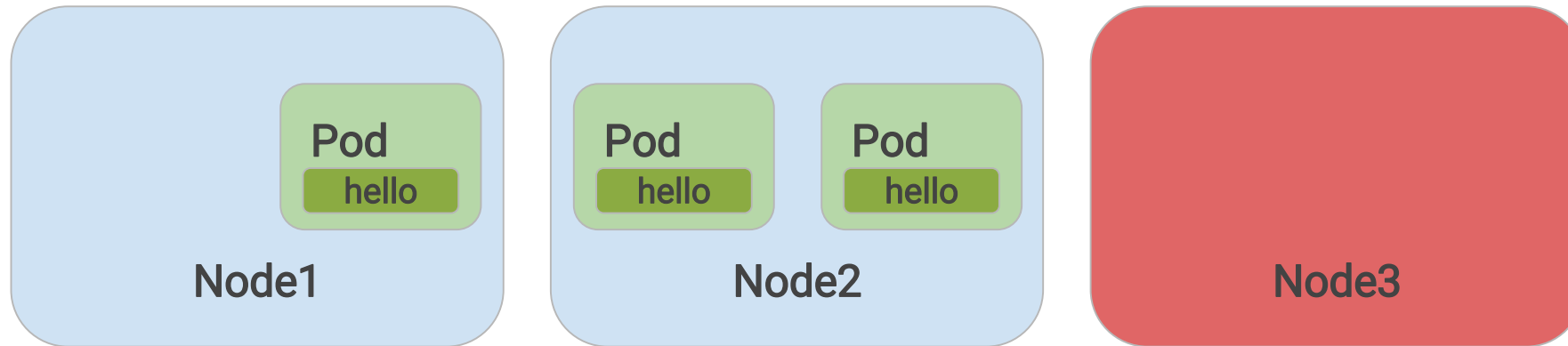
Arbitrary meta-data attached to Kubernetes object



Deployments

Drive current state towards desired state

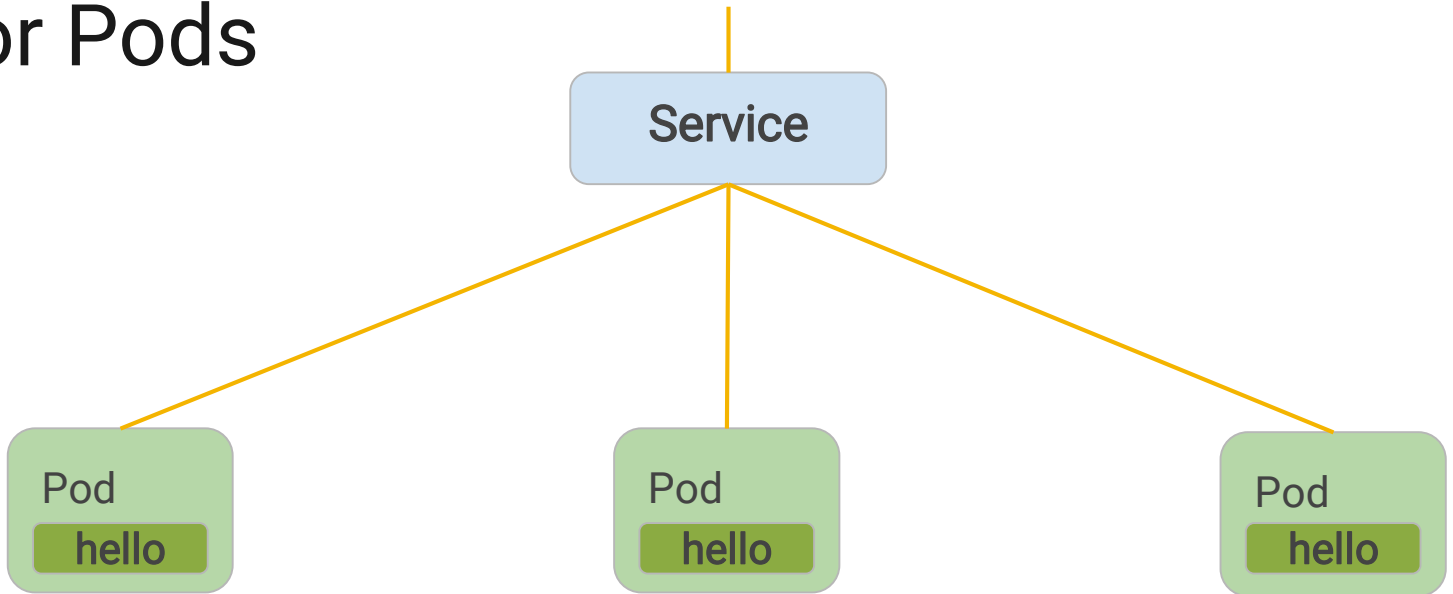
app: hello
replicas: 3



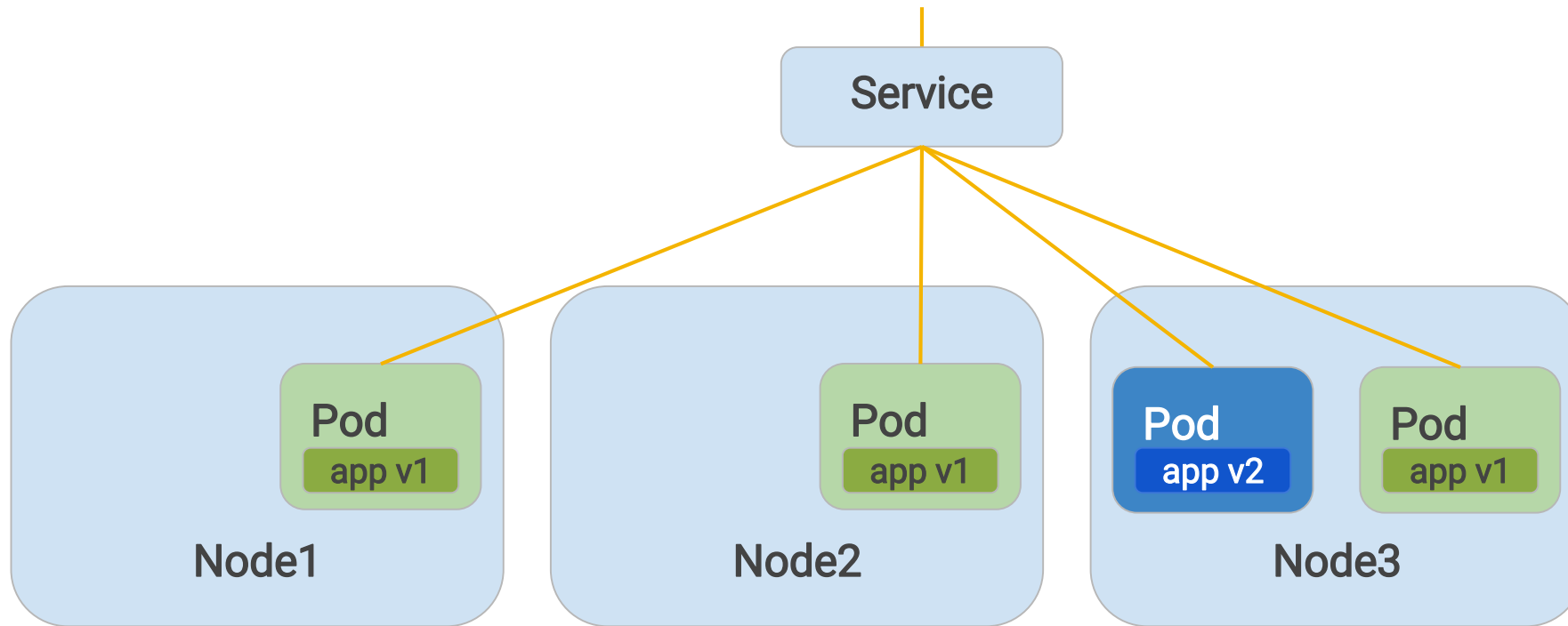
Services

Persistent Endpoint for Pods

- Use Labels to Select Pods
- Internal or External IPs



Rolling Update



YOUR TURN

Orchestrating the cloud with Kubernetes

<https://codelabs.developers.google.com/codelabs/cloud-orchestrate-with-kubernetes/#0>