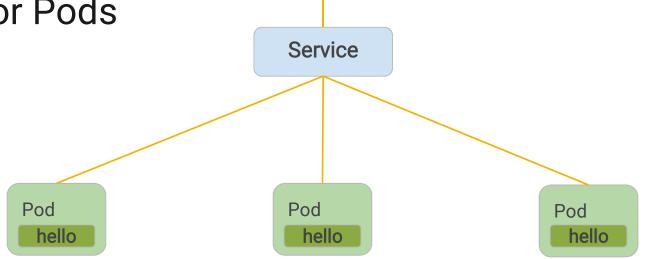
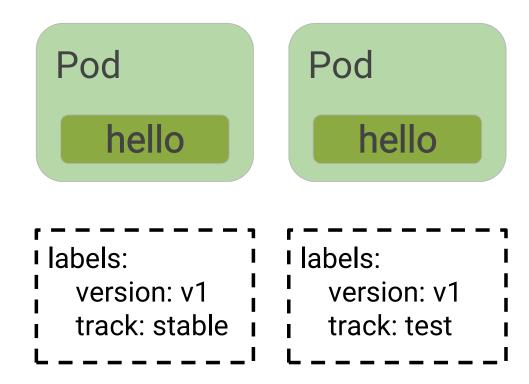


Persistent Endpoint for Pods

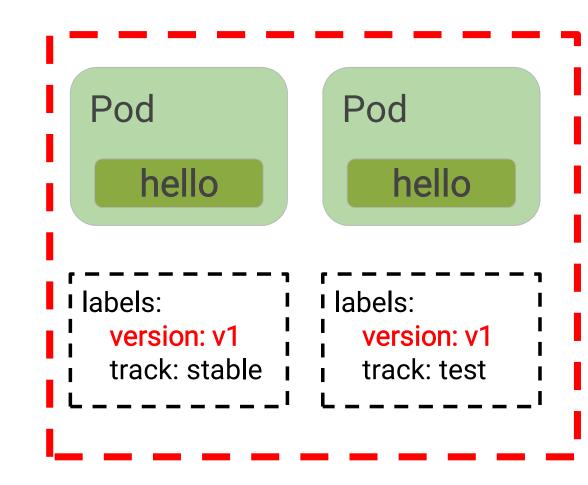
 Use Labels to Select Pods



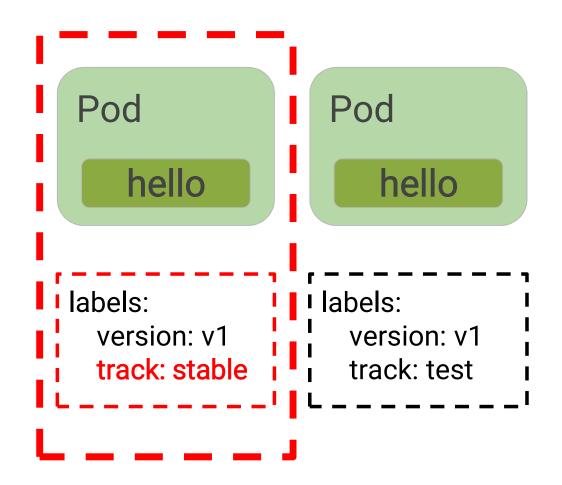
Arbitrary meta-data attached to Kubernetes object



selector: "version=v1"

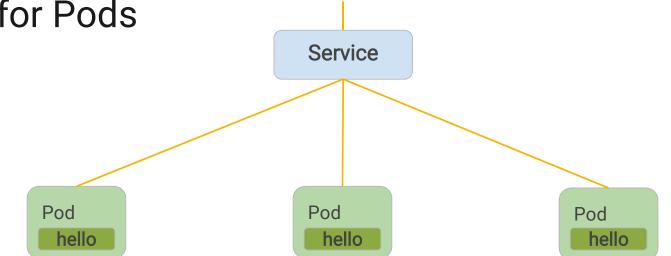


selector: "track=stable"



Persistent Endpoint for Pods

- Use Labels to Select Pods
- Internal or External IPs

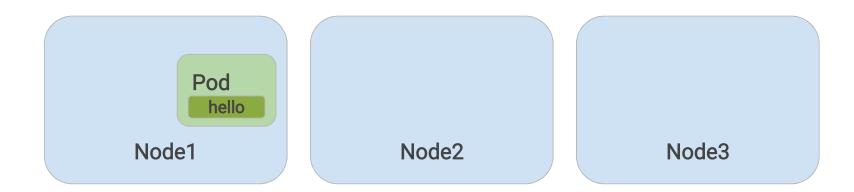


Lab

Creating and managing services

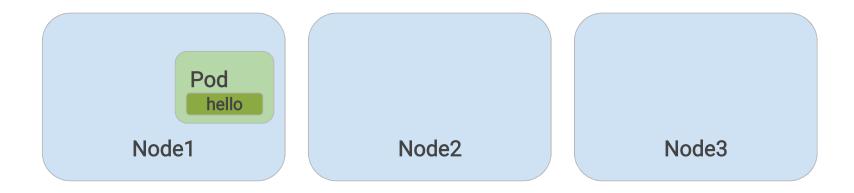
Drive current state towards desired state

app: hello



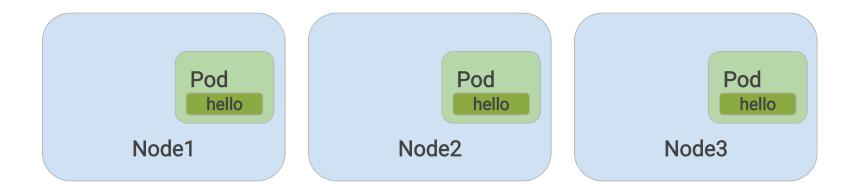
Drive current state towards desired state

app: hello



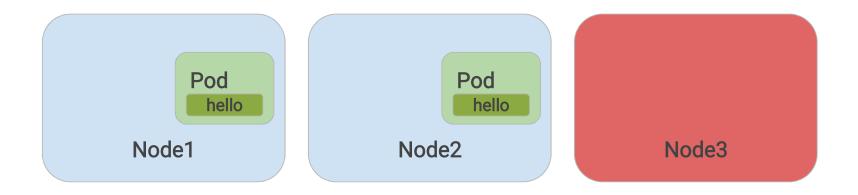
Drive current state towards desired state

app: hello



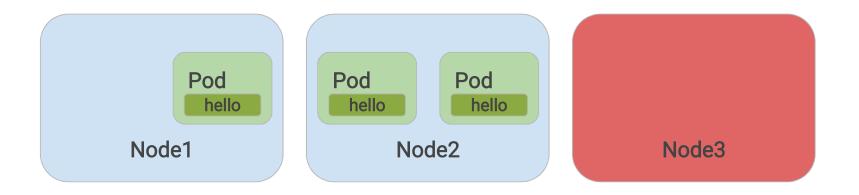
Drive current state towards desired state

app: hello



Drive current state towards desired state

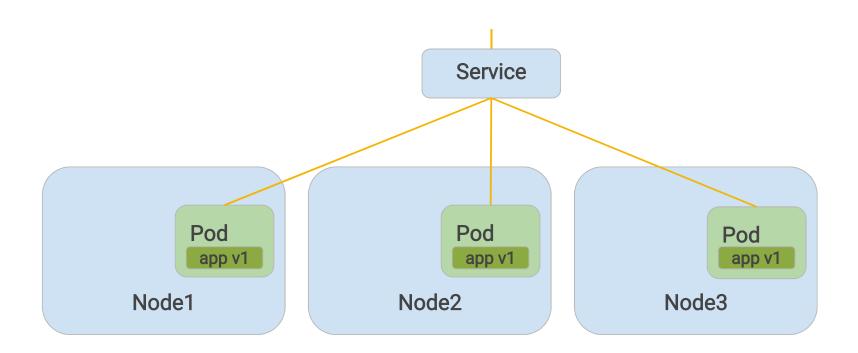
app: hello

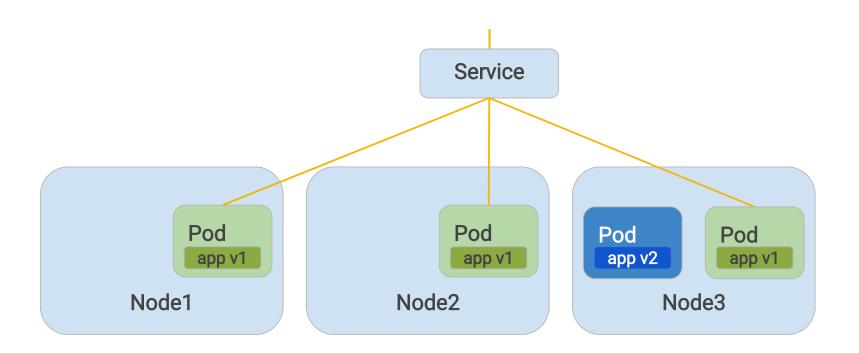


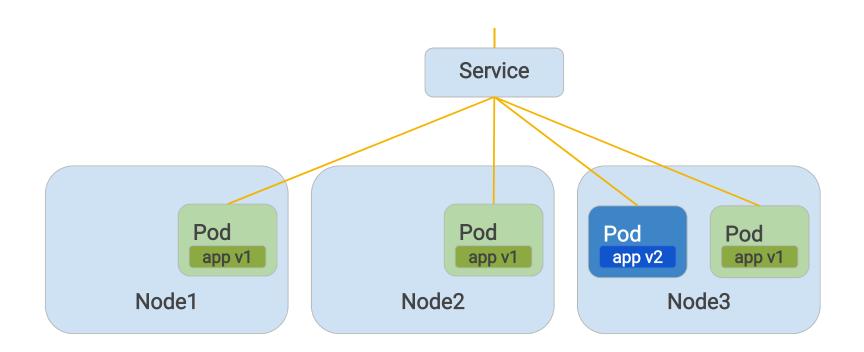
Lab

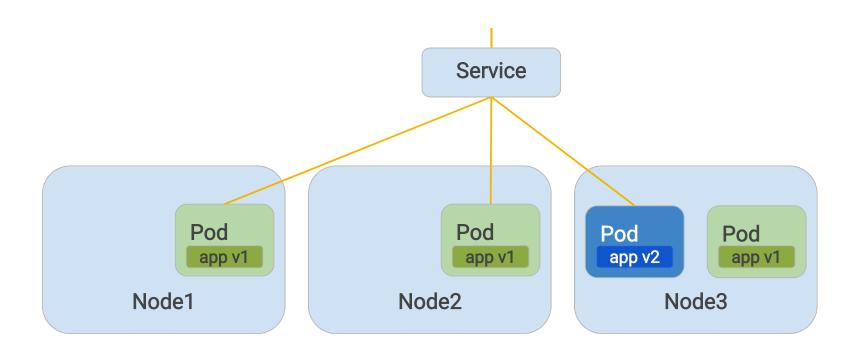
Creating and managing deployments

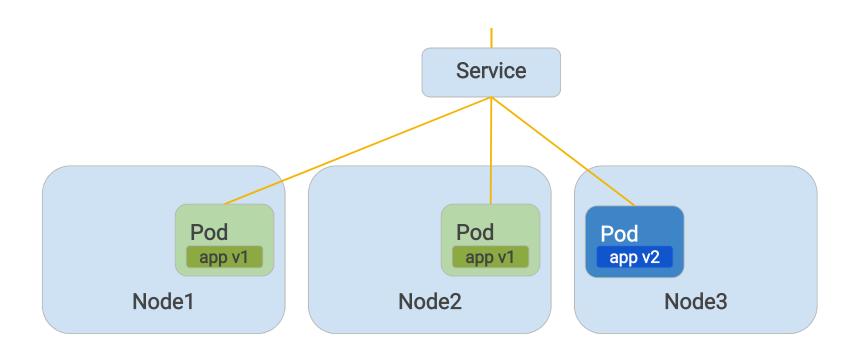


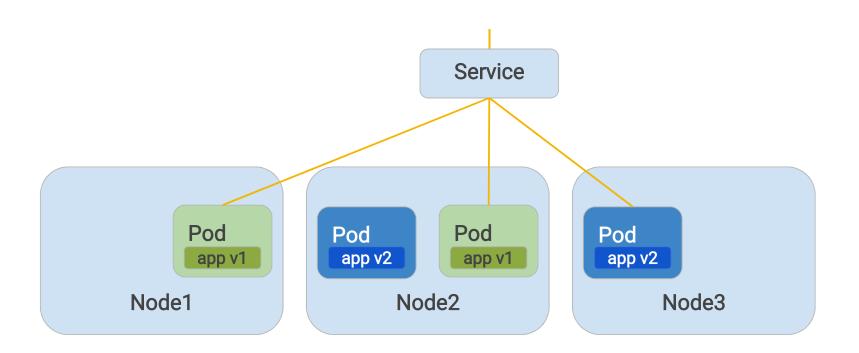


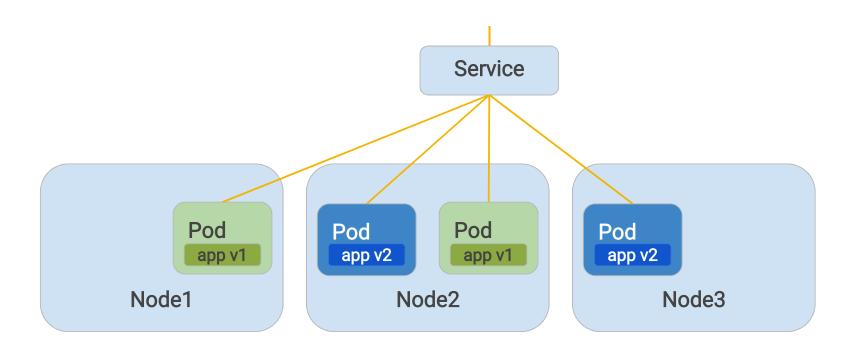


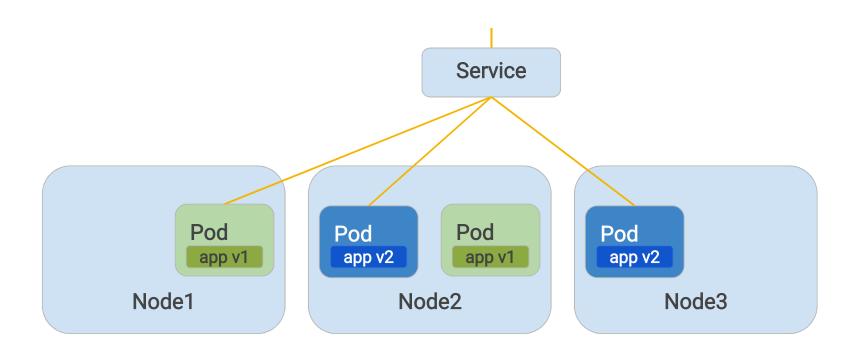


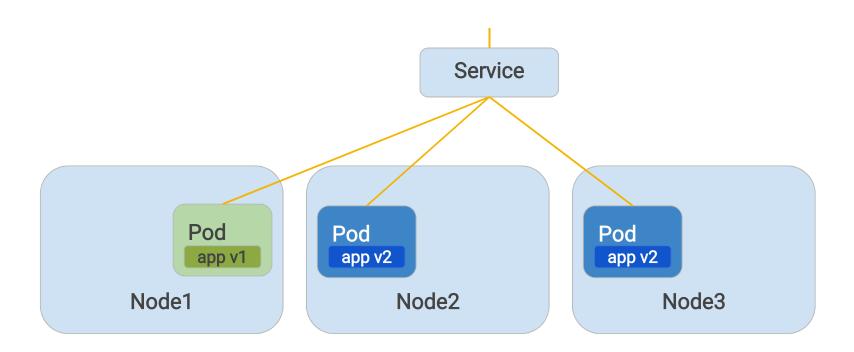


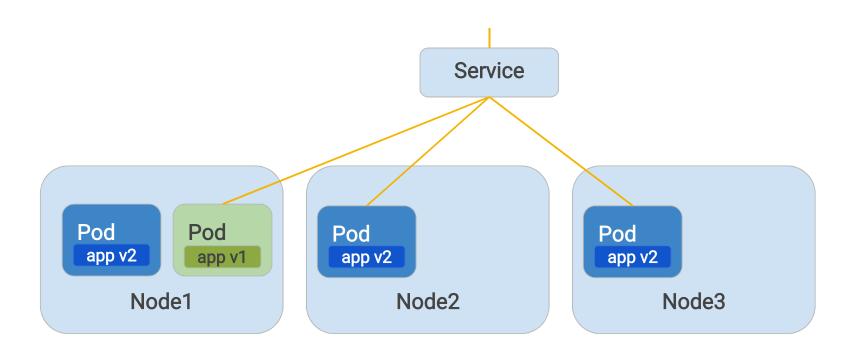


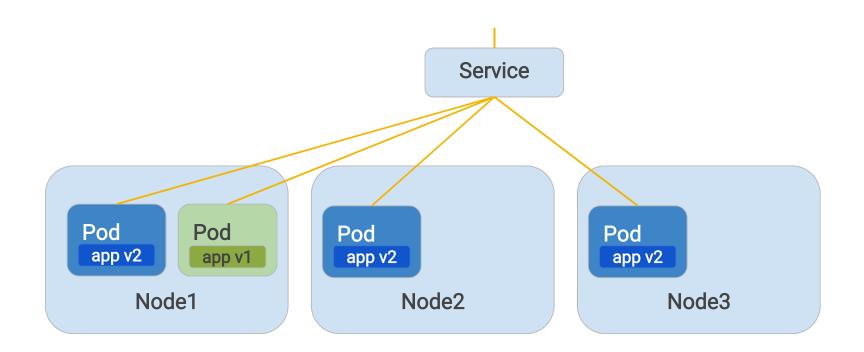


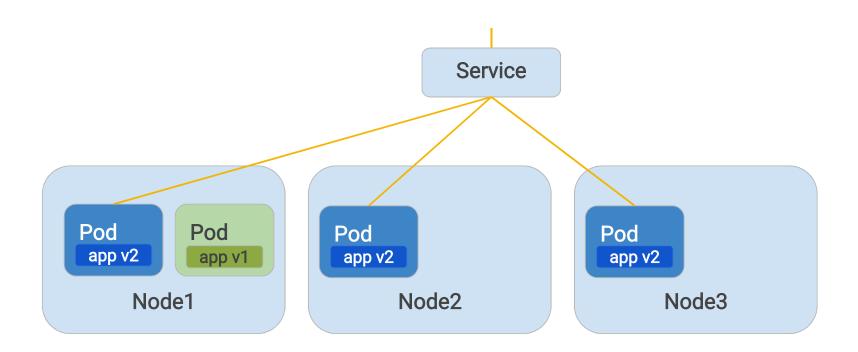


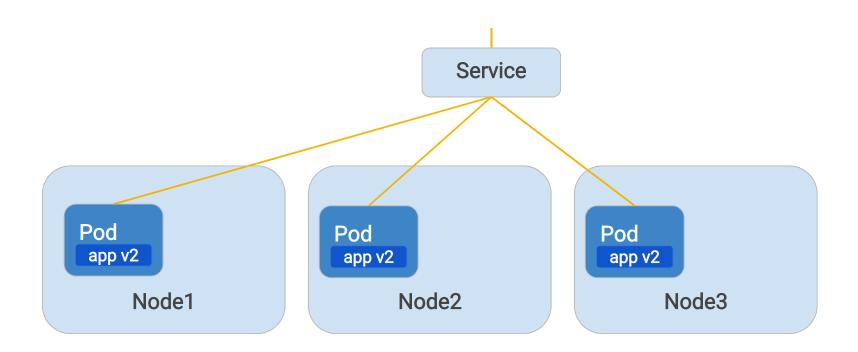












Lab

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

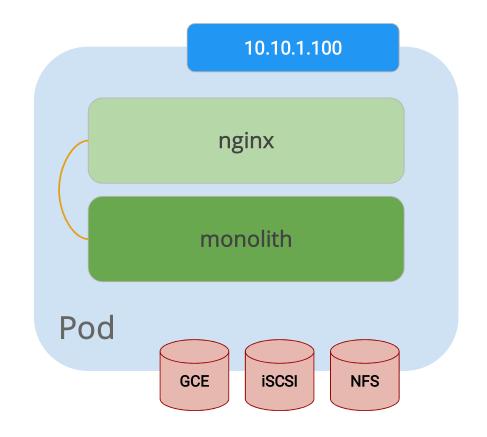
- Subatomic unit in Kubernetes
- Can use Dockerfile just like you're used to



Pods

Logical Application

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



Monitoring and Health Checks

Hey, app v1... You alive?

Kubelet

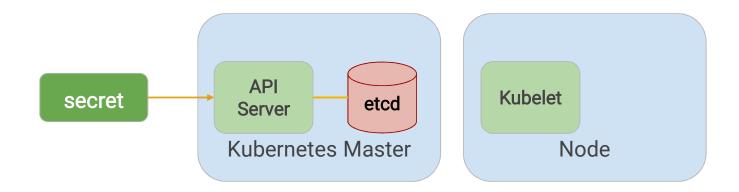
Pod

app v1

Node

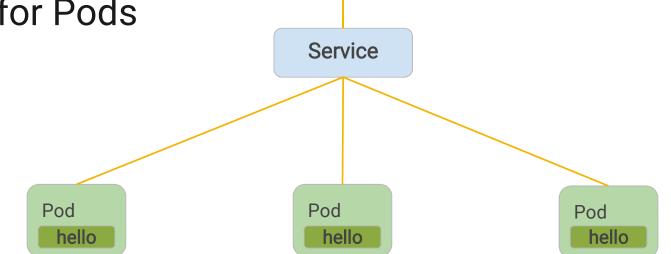
Secrets and Configmaps

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

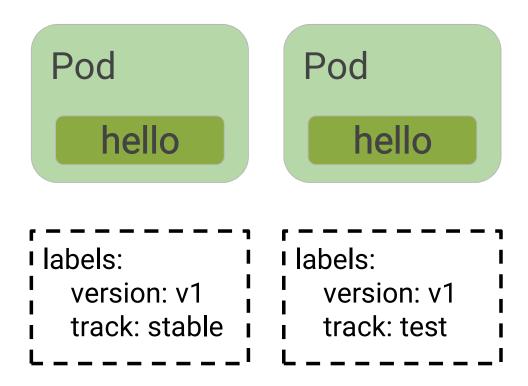


Persistent Endpoint for Pods

- Use Labels to Select Pods
- Internal or External IPs

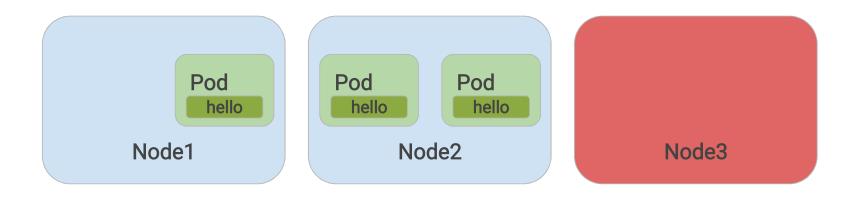


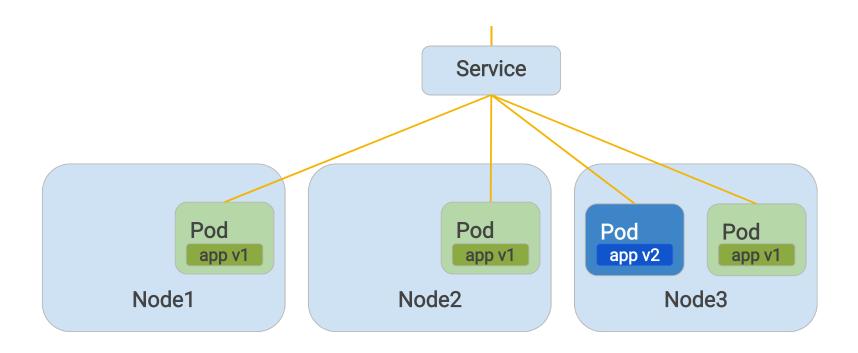
Arbitrary meta-data attached to Kubernetes object



Drive current state towards desired state

app: hello





YOUR TURN

Orchestrating the cloud with Kubernetes

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