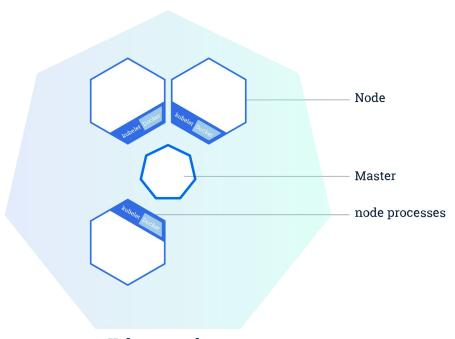
# Kubernetes



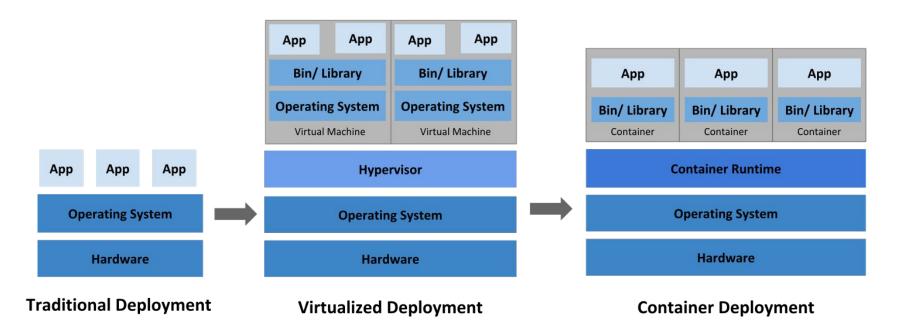
#### What is Kubernetes

 "Open-source system for automating deployment, scaling, and management of containerized applications."



**Kubernetes cluster** 

#### **Back in time**



#### **Motivation**

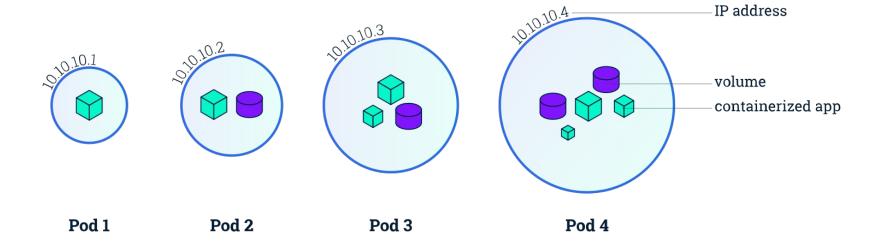
- High Availability
- Service Discovery
- Scalability, Modularity
- Declarative System
- Secret and Configuration Management



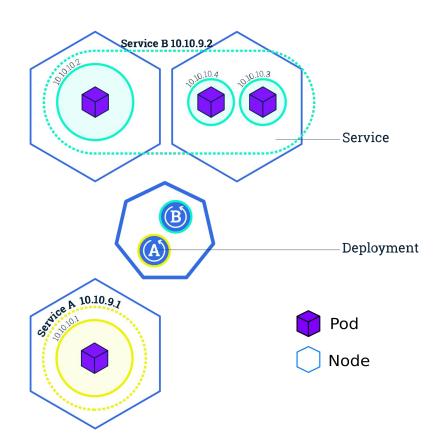
#### **Kubernetes resources**

- Pod
- Deployment, ReplicaSet
- Service
- 70+ built-in resources

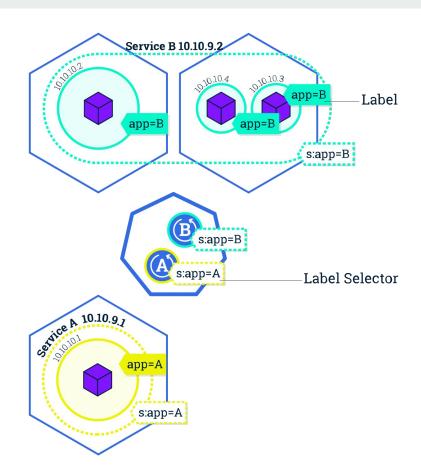
## Pod

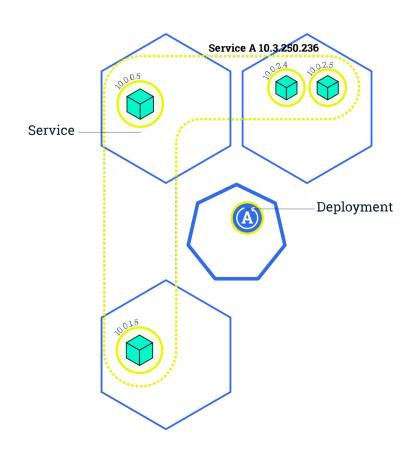


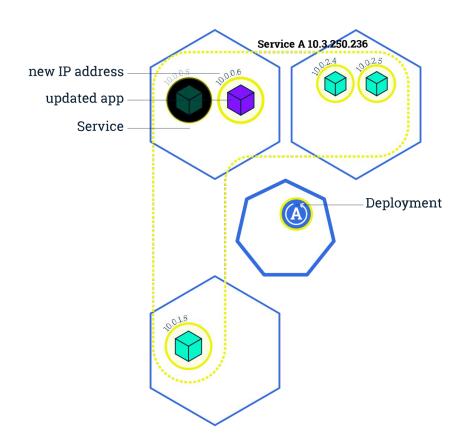
## Deployment, ReplicaSet

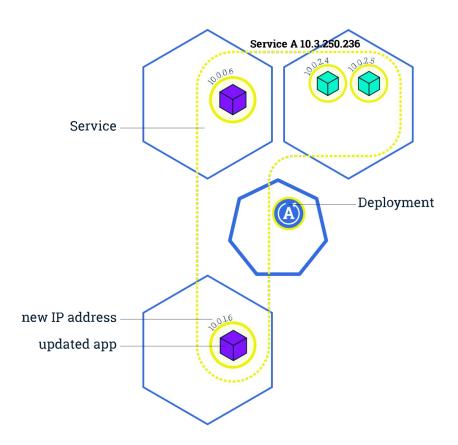


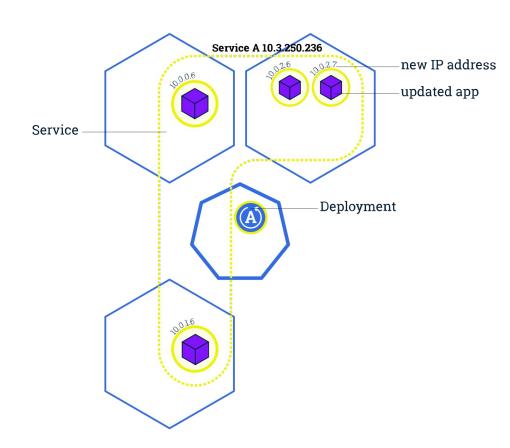
#### **Service**

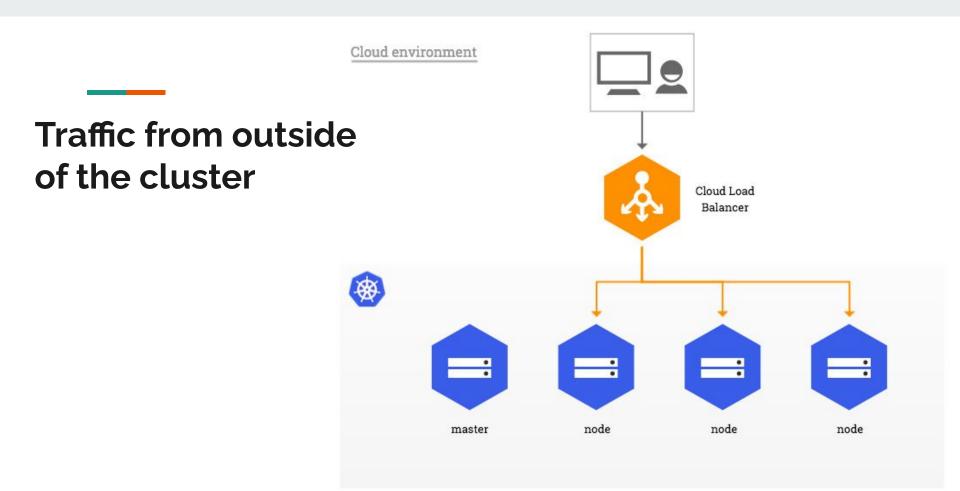












#### Example

- MiniKube used to run k8s locally
  - O https://github.com/kubernetes/minikube
- K9S Kubernetes CLI
  - https://github.com/derailed/k9s
- kubectl apply -f <filename>
- https://github.com/volfpe/s9y-k8s