<epam>

AWS EKS for distributed Performance testing

February 2024

EPAM Proprietary & Confidential.

Arkadiy Dobkin > Viktar Dvorkin > Adam Auerbach > Maryna Didkovska > Volodymyr Kapustin > Yehor Maksymchuk > 3 reporting people

Yehor Maksymchuk

Quality Architect I

Performance Analyst

Ukraine, Kyiv, Simi Prakhovykh 54

0 / 1

STATUS

Full-time employee

ENGAGEMENT TYPE

None

JOB FUNCTION

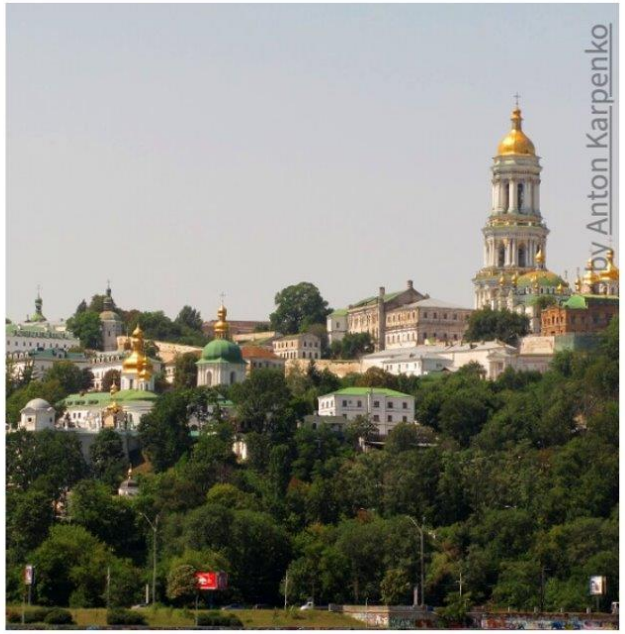
Architecture

Track B Level 1

KEY SKILLS

Quality Architecture

1 More



EPAM Proprietary & Confidential.

Agenda

In scope

- AWS EKS
- Kubernetes
  - Architecture
  - Nodes
  - Namespaces
  - Pods
  - Jobs
  - Services
  - Ingress
- **Kustomize**
- Demo

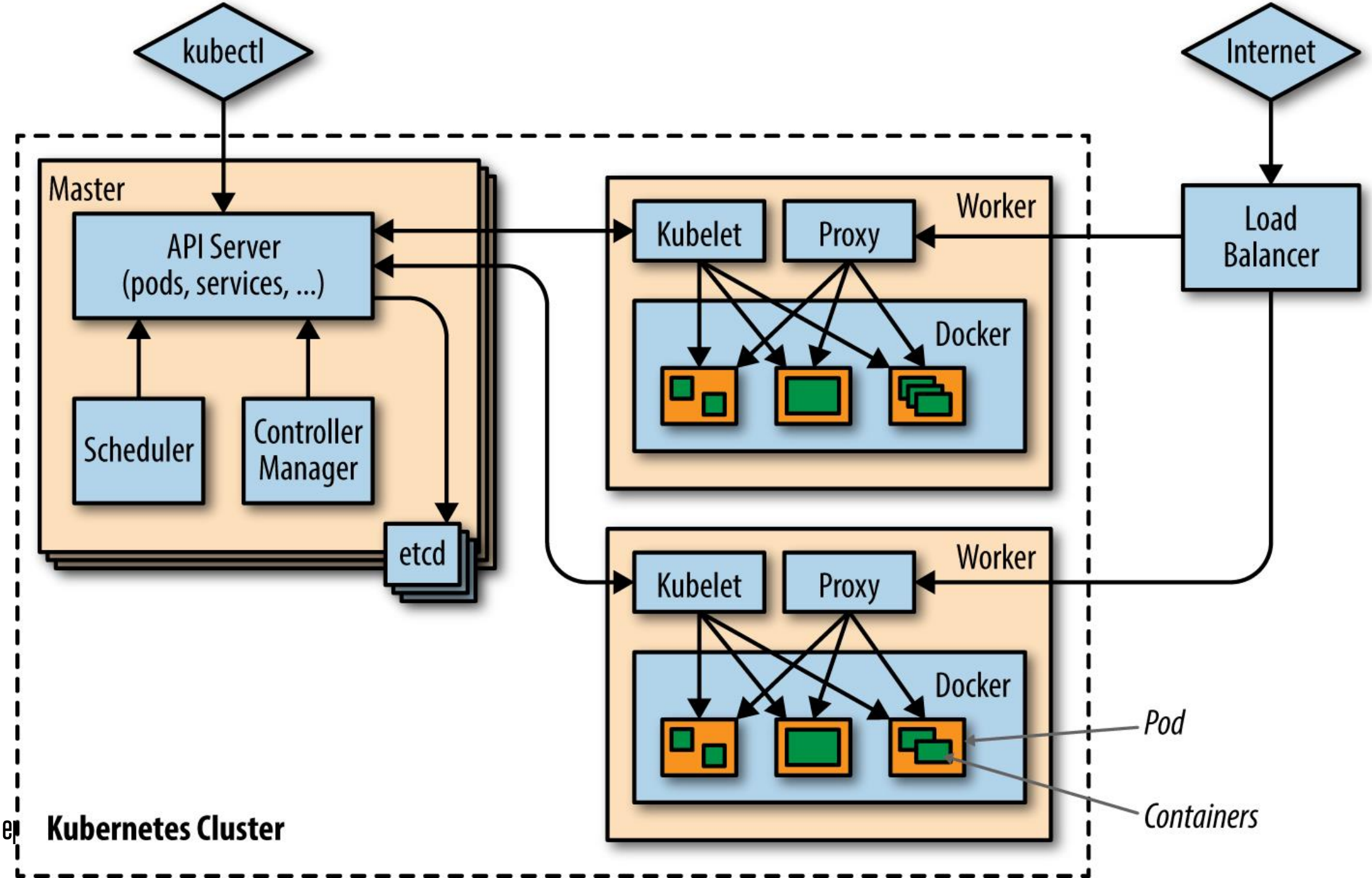
Out of scope:

- Result analyses and result aggregation

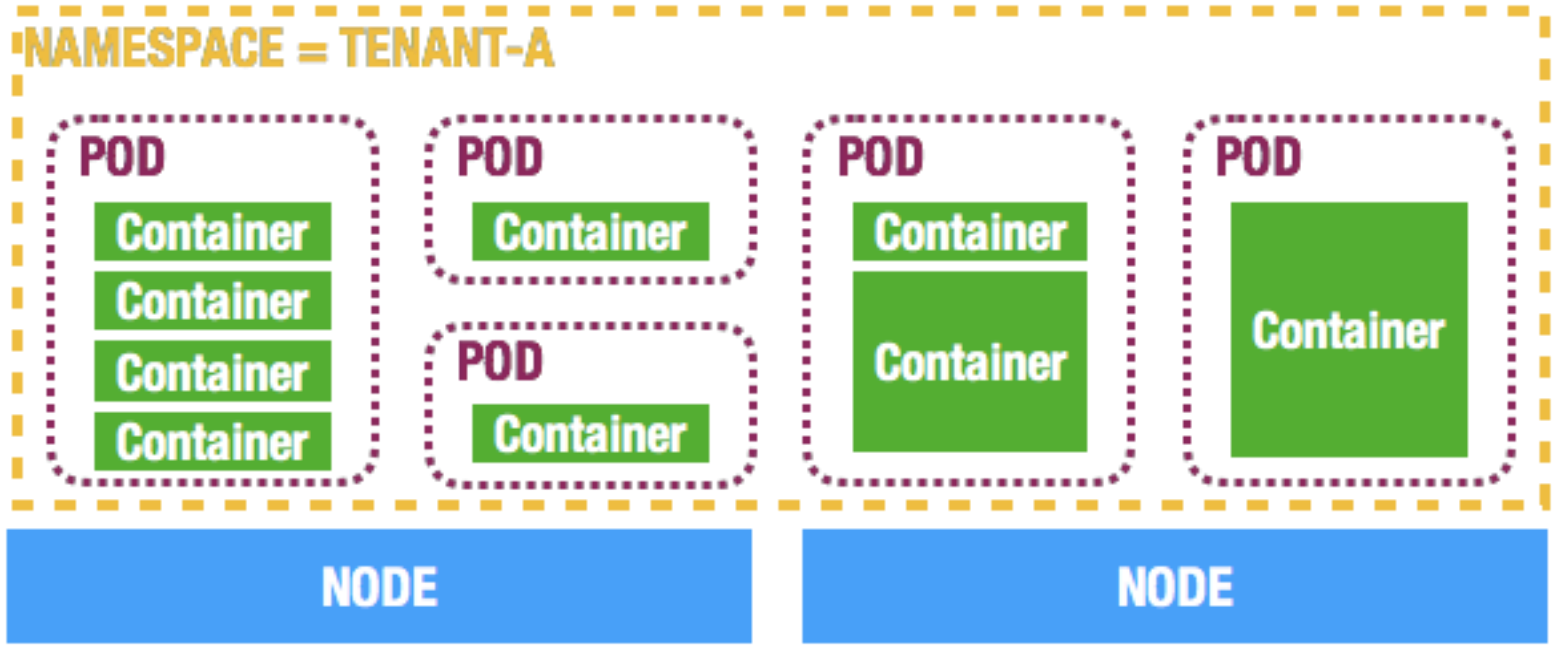
AWS EKS

eksctl is a simple CLI tool for creating and managing clusters on EKS - Amazon's managed Kubernetes service for EC2. It is written in Go, uses CloudFormation, was created by Weaveworks and it welcomes contributions from the community.

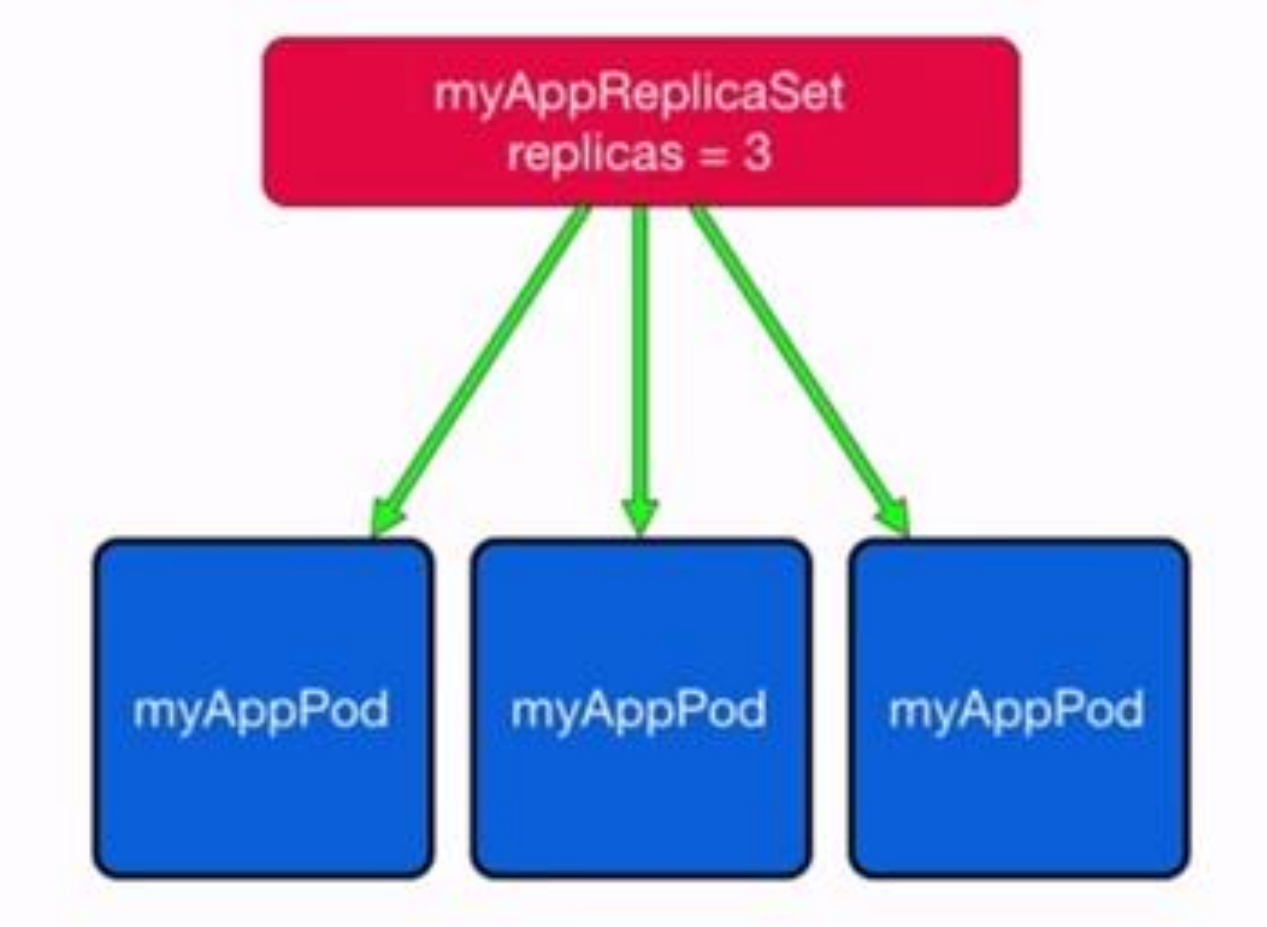
```
eksctl create cluster
```


kubectl
Internet
Master
API Server
(pods, services, ...)
Scheduler
Controller
Manager
etcd
Worker
Kubelet
Proxy
Docker
Load
Balancer
Worker
Kubelet
Proxy
Docker
Pod
Containers
Kubernetes Cluster

Node and Namespaces



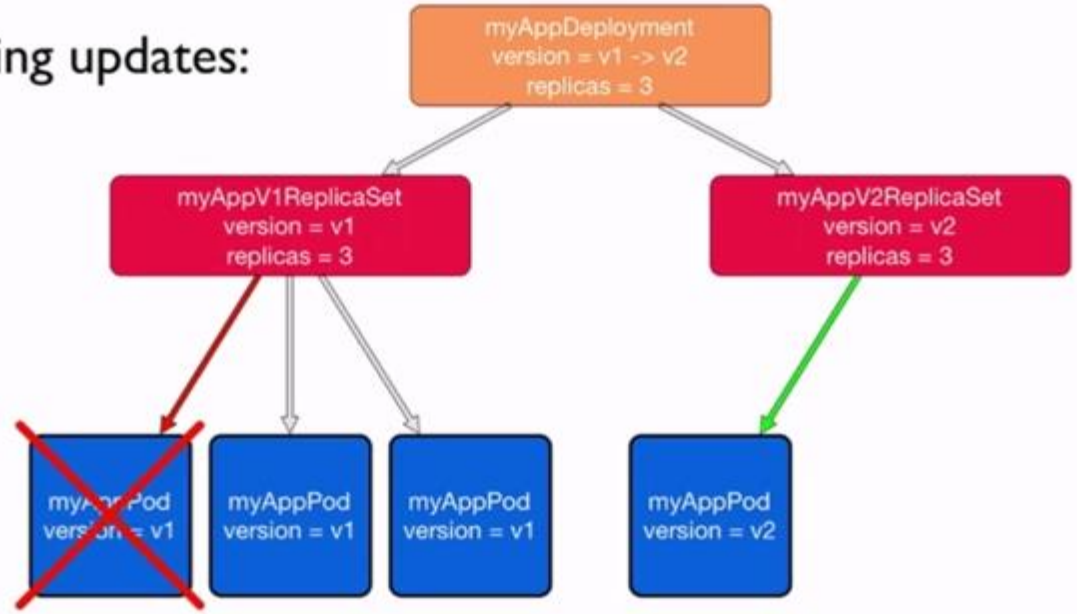
Kubernetes: Replica Sets



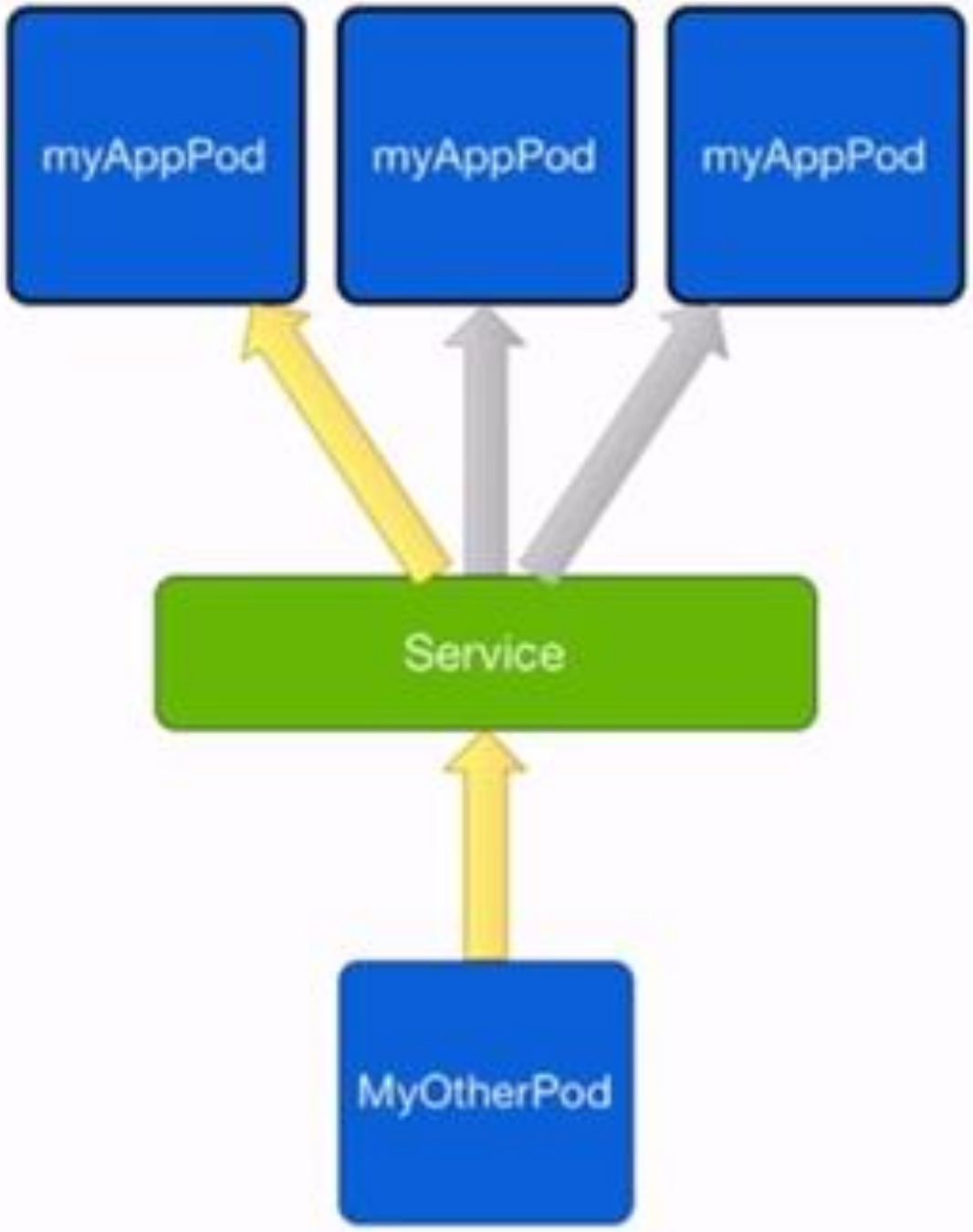
K8s: Deployment

Deployments cont.

- rolling updates:

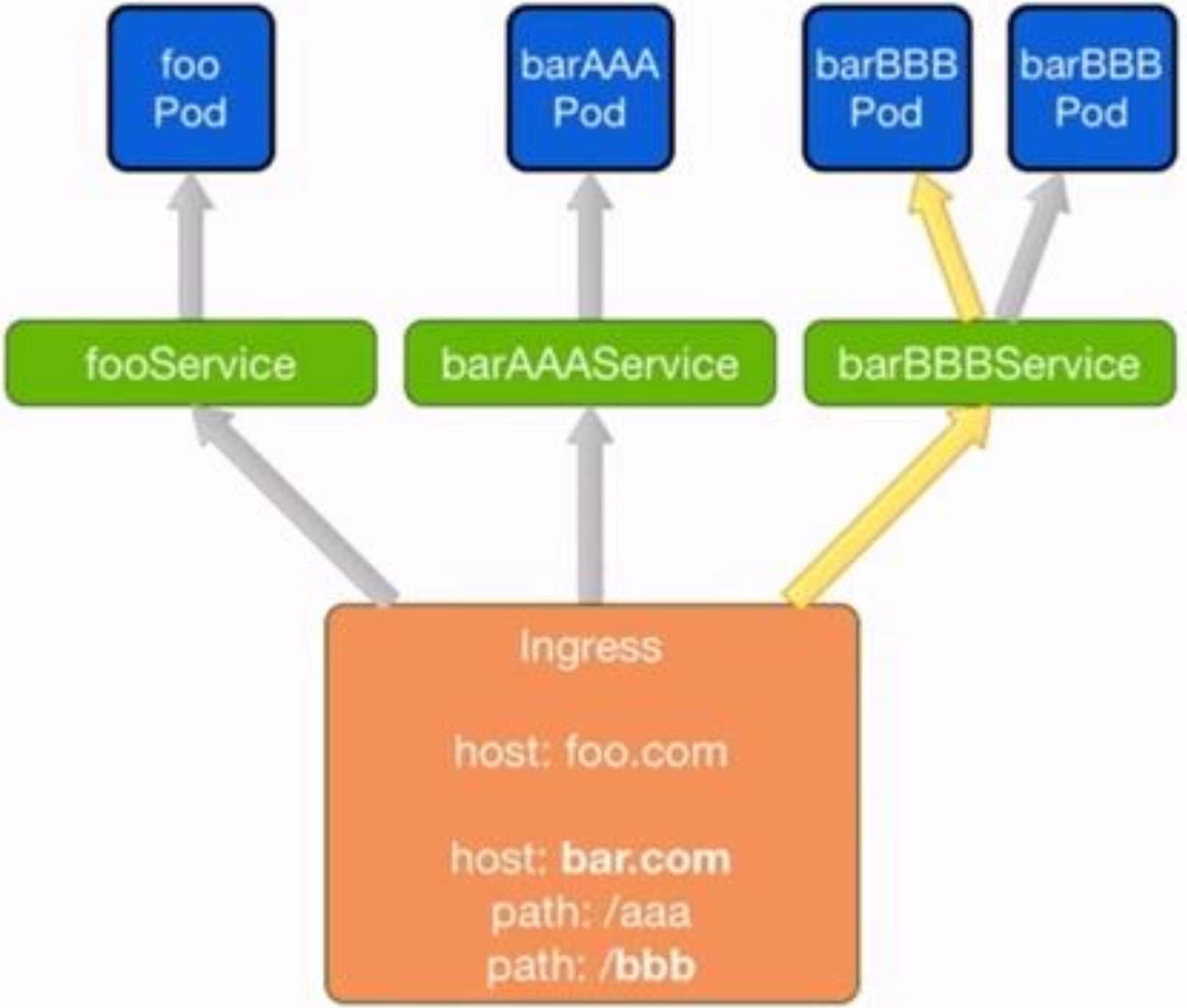


Kubernetes: Services



<epam>

Ingress Controller



EPAM Proprietary & Confidential.

Kustomize

Kustomize it is a tool for aggregation all aspects of the deployment to Kubernetes cluster

Q&A