

DevOps in K8s

2-Controllers

Job

CronJob

HPA

DaemonSet

StatefulSets

Deployment

ReplicaSet

Pod

1-Basics

Containers

Networking

Config Management

3-API-server

Request Handler Chain

API Objects

Security Context

RBAC

Secret

ConfigMap

CoreDNS

Service

Why K8s Service

Pod Lifespan and Availability

Load Balancing and Distribution

Service Discovery

Exposing Applications

Node IP vs Pod IP vs Service IP

Service definition

iptables

ipvs

DNS record

Common service address "10.96.0.10"

Problems solved

Service Discovery

Pod DNS

Load Balancing

Flexibility and Extensibility

Failure Resilience

DNS Policy Enforcement

Pod DNS policies

ClusterFirst

ClusterFirstWithHostNet

None

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Headless Service

Regular Service

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