

DevOps in K8s

Basics

Containers

- Docker
- Container Image + Dockerfile
- Image Efficiency
 - .dockerignore
 - Avoid unnecessary
 - Small base image
 - Ephemeral containers
 - Build from stdin
 - Multi-stage build
 - Chain RUN commands
 - Order instructions wisely
 - Prefer COPY over ADD
 - Prefer Array over String

- Storage
 - Volume
 - Bind Mount
 - tmpfs

- Namespace
 - IPC
 - UTS
 - NET

- Cgroups
 - Hierarchy
 - Controllers
 - Tasks
 - Resource limits
 - Event notifications
 - File system

- Status
 - Waiting
 - Running
 - Terminated

- Probe
 - LivenessProbe
 - ReadinessProbe
 - StartupProbe

Pod

- Pod basics
 - Why pod
 - Design patterns
 - Sidecar
 - Adapter
 - Ambassador
 - Batch job
 - Process
 - Implementation principle

- Status
 - Pending
 - Running
 - Succeeded
 - Failed
 - Unknown

- Restart Strategy
 - Always (default)
 - OnFailure
 - Never

- Probe
 - Readiness
 - Liveness
 - Startup