Running Resilient Workloads

with Istio

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It’s not plain sailing

Production Kubernetes is more than just a Deployment and a Service
Production Kubernetes

- Ingress
- HPA
- Requests and Limits
- Health Checks
Production Kubernetes

- ConfigMaps
- Secrets
- Upgrade Strategies
- Affinities
- Anti-affinities
- PDB
- PSP
- Network Policy
- Pod Presets
- Service Accounts & RBAC
- LimitRanges
- Cluster Autoscaler
“An open platform to connect, secure, control, and observe services.”
ALWAYS
Observability
Workload Versioning and Traffic Pinning
Traffic Shifting
Canaries
Timeouts
Rate Limits
Retries
Service Authentication
Mutual TLS
Service Authorization
Egress Control
SOMETIMES
Delay Injection
Fault Injection
Circuit Breakers
Protocol Translation
Security Middleware
Traffic Mirroring
Recap

- Settings you should always have
- Settings you sometimes need
- Break-glass options
Thanks!
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