



Navigating Your Kubernetes Journey

Enterprise Trusted Continuous Delivery

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Agenda

Kubernetes

Landscape of Cloud Native

Software Delivery



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Cloud Native Application Development
meets empowered Software Delivery

Kubernetes, the basics

- Container Image (artifact)
- Container Orchestration platform (target environment)
- Introduces a new paradigm
- Distributed systems across multiple nodes



- Pod
- Services
- Job
- CronJob
- ConfigMap
- Secret
- Deployment
- Namespace



- Single Concern
- Self-Containment
- Image immutable



- Sidecar
- Ambassador
- Daemonset
- Controller



- Logging
- Tagging resources
- Security



- Application Resilience
- Circuit Breaking
- Scale

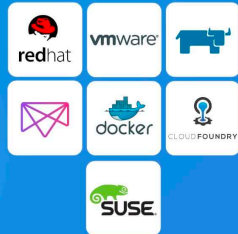
Built for the modern enterprise

THE KUBERNETES ECOSYSTEM

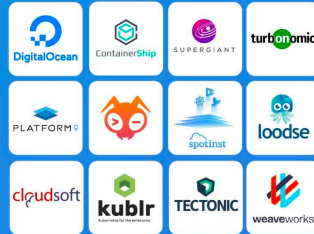
Public cloud



Open source frameworks



Management



Monitoring & Logging



Tools



Security



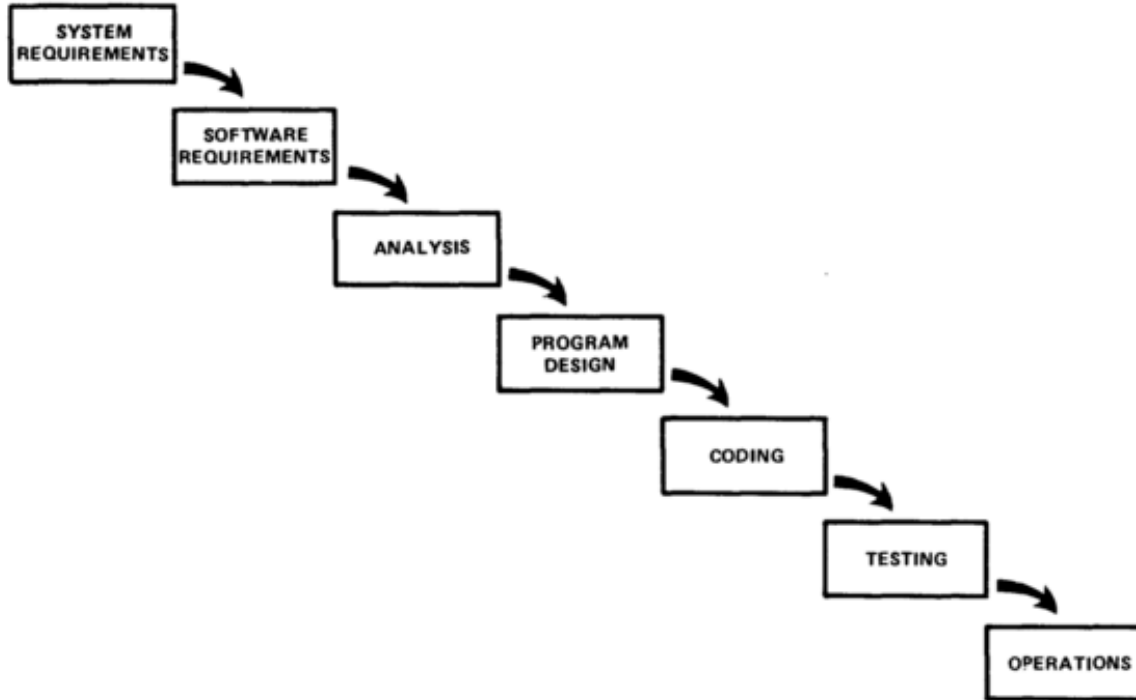
Kontena



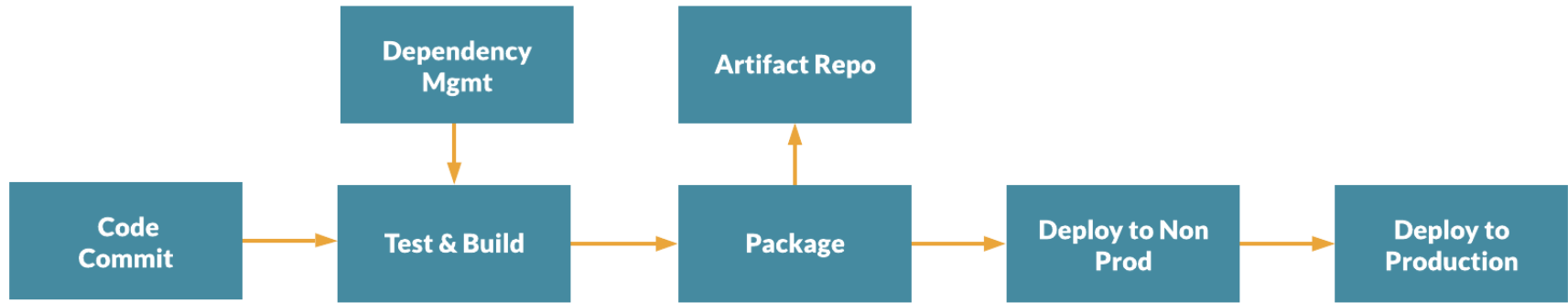
Load Balancing



Doing more in the cloud

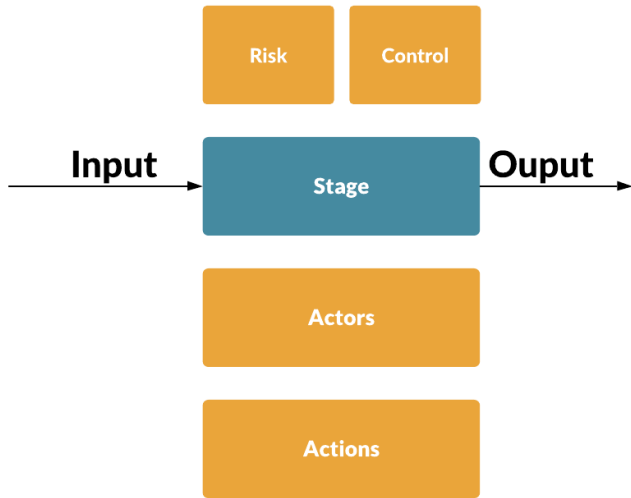


Delivering high quality, faster



Delivery Pipeline

A systems approach to delivery



- Mean time to restore
- Change failure rate
- Lead time
- Deployment frequency

Risks and controls

- Unapproved changes
- PII or credentials in source code
- Change approval
- Secrets management
- Low quality code in production
- Lack of quality gates
- Unexpected system behaviors in prod
- Application quality analysis
- Quality gate evaluation
- Enforced deployment strategies

Accelerate your software delivery

People

Process

Technology

THANK YOU!

Meet me in the Network
Chat Lounge for questions