



STAGES OF SOFTWARE DELIVERY EVOLUTION



STAGE 1

Traditional Deployments

Data Center
Mutable Deployments
SSH into Prod
Deployments = Events
Manual & Error Prone
Dev vs. Ops



STAGE 2

Evaluating Continuous Delivery

Lift & Shift to Cloud
Complicated Rollbacks
No Service Ownership
No Self-Service
Inconsistent Deploys
Non-standardized



STAGE 3

Continuous Delivery Adoption

Dedicated DevOps
Immutable Deploys
Confident Rollbacks
Manual Judgements
Manager Approvals
Strong Integration
Test Coverage



STAGE 4

Continuous Deployment Adoption

Deploy Continuously in Background
Full Embrace of DevOps Culture
Monolith Apps into Microservices
App Teams Fully Self-Service
All Teams Deploy with Same Platform



STAGE 5

Intelligent Deployments

Automated Canaries
Automated Rollbacks
Machine-Learning Powered Anomaly Detection
SLA Transparency on Per-App Basis
Chaos Engineering
Automated Dependency Analysis

Uptime: Frequent Outages

Manual Steps: 20+

Time to Deploy: Weeks to Months

Deployments: 1 to 2 per Month

SLA Failures

10+

Days to Weeks

2 to 10 per Month

Few Outages

1 to 3

Hours

10 to 20 per Month

Rare Outages

0

Minutes

100+ per Month

No Outages

0

Minutes

1000+ per Month