

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

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