“Jenkins builds it, Harness deploys it. Harness makes our deployments easy.”

“It now takes hours vs. months to onboard new teams with Harness Continuous Delivery.”

Martin Reynolds
Development & DevOps Manager
About
• Martin Reynolds, Development & DevOps Manager
• Advanced is the UK’s third largest provider of business software and services
• £220m revenue, 16,000 customers, and 2,000 employees

Compelling Event
• Internal initiative CI/CD for all development teams
• Transitioning on-premise applications to AWS public cloud

CI/CD Challenges
• Ad-hoc Continuous Delivery process and tooling across 100 different products/teams and ~700 software engineers
• Pipelines took months to build using Jenkins, CloudFormation, Octopus, Puppet, SSM and Bash
• Pipelines required several thousand lines of Puppet code to be maintained by DevOps engineers and dev teams
• Pipelines took up to 30 hours to deploy and run with many manual interventions
• Deployment health checks and verification were manual ranging from 2 engineers for 2 hours (minor releases) to 4-5 engineers for 1 day (major release)

Harness Benefits
• CI/CD self-service for all development teams
• Intuitive user experience accelerates onboarding
• Automation of deployments across 6 data centers
• Out-of-the-box canary deployment support
• Out-of-the-box integration with AppDynamics and ELK
• Auto-verification of deployments using ML to baseline performance and be proactive
• Auto-rollback for failed deployments
• DevOps team create Harness pipeline templates
• Developers deploy using Harness pipeline templates

CI/CD Ecosystem
• Java, Docker
• AWS EC2, ECS, EKS, Lambda
• GitHub, Artifactory, Jenkins, Puppet
• AppDynamics, CloudWatch
• ELK Stack

Business Impact
• Onboarded 10 application teams (~100 services) in less than two months
• Most teams were onboarded on Day One
• Education App – deployment time dropped from 3 hours to 1 minute (19 services)
• Form App – deployment time dropped from 30 hours (19 services) to under 30 minutes
• Deployment pipelines now take hours to create with minimal maintenance vs. months and ongoing maintenance
• Health checks and verifications are automated to help teams be more proactive
• Weekly Jenkins deployments/upgrades now take 15-20 minutes vs. 2-3 hours with Harness

ROI:
• 10x return on investment within first few months
• 88% reduction in avg. deploy time from 2 days to 2 hours
• 90% reduction in avg. onboarding time for dev teams from 2 days to 90 minutes

“We’ve conservatively saved 50-60% of total DevOps and engineering time spent on deployments and our previous CI/CD process.”

Martin Reynolds, Development & DevOps Manager

Harness is the industry’s first Continuous Delivery-as-a-Service platform that automates the entire CD process, keeps it secure, and uses machine learning to protect you when deployments fail. www.harness.io | demo@harness.io