



**"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

Advanced onboards development teams in hours with Harness Continuous Delivery

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
