



“With Harness our QA and testing is now fully automated, and takes less than 5 minutes.”

“Onboarding new Kubernetes and Lambda services now takes 2 hours instead of 3 days.”

Bob Chen, Senior Dir of Technical Ops,
DevOps & SRE

Beachbody Accelerates AWS Cloud Migration by 9 months with Harness Continuous Delivery

About

- J Bob Chen, Senior Dir of Technical Ops, DevOps & SRE
- Beachbody is the creator of the nation's most popular fitness and weight-loss solutions including P90X® Series, INSANITY®, FOCUS T25®, 21 Day Fix®, Body Beast®, PiYo®, and Hip Hop Abs®.

Compelling Event

- Migrating from on-prem monolith apps to AWS public cloud running on AWS, Kubernetes Microservices, and Lambda Functions

CI/CD Challenges

- Jenkins pipelines were manual, brittle, complex, and costly to manage with significant infrastructure costs and time spent debugging
- Deployment velocity was daily for non-prod and bi-weekly for production deployments
- Production deployments averaged 6-8 people for up to 2 hours with manual verification by QA taking 30-60 mins
- Onboarding cloud-native services could take up to 3 days, with 89 API services requiring onboarding in 2019
- Evaluated Spinnaker open source CD but estimated 1 month to setup and 3 engineers to manage full time

Harness Benefits

- Hybrid cloud support for Kubernetes containers and Lambda functions
- Comprehensive GitOps capabilities allow pipelines to be version controlled and managed as code
- Terraform integration enables consistent and dynamic infrastructure provisioning
- 65% of pipelines are 100% automated
- Automated QA and testing through pipeline stages
- Automated deployment verification using AI/ML across Dynatrace and Elastic monitoring tools

- Standardized deployments through pipeline templates
- Well-defined role-based access control (RBAC) with rich granular permissions ensure governance across all teams
- OKTA SSO reduced user onboarding from 15 mins to 30 seconds
- Full audit trail giving instant insight into who changed what when services are impacted -- identifying changes that caused impact quickly
- Complete version reporting across all services and environments

CI/CD Ecosystem

- GitHub, TravisCI
- AWS, CloudFormation, Kubernetes & Lambda
- Dynatrace & Elastic

“With Harness, we get automated deployment verification across Dynatrace and Elastic using unsupervised machine learning.”

Business Impact

- Accelerated AWS cloud migration from 1-year to 3 months
- Reduced QA testing time by 92% from an hour to less than 5 mins
- Doubled production deployment velocity in 3 months
- Reduced deployment effort by 90% from 7 people for 90 mins to 3 people for 20 mins
- Reduced deployment verification by 78% from 45 mins to 10 mins
- Reduced application onboarding time by 92% from 3 days to 2 hours
- Deferred DevOps costs of \$600,000 from not building custom CD platform and reduced time-to-market from 1 year to 3 months