



**“Harness is an event-driven CD platform that takes care of where our applications need to be.”**

**SOULCYCLE**

*“I don’t have to think about CD; Harness does it for me. I get to spend my time building and driving my team to build innovation.”*

Mark Sost, Senior Director of Engineering

# SoulCycle Sets New Personal Record with Harness Continuous Delivery

## About

- Mark Sost, Senior Director of Engineering
- SoulCycle is a 45-minute indoor cycling class that features high-intensity cardio, muscle-sculpting strength training, and rhythm-based choreography. With more than 82 studios (and counting!) their revolutionary indoor cycling class is available across the U.S. and Canada

## Compelling Event

- Mark's team migrated from a legacy PHP app to cloud-native microservices architecture so they could independently scale and roll out new services

## CI/CD Challenges

- Daily deployments with around 25 Microservices and growing
- Deployments typically took developers 1 hour each and 3 QA engineers 3-6 hours to verify
- DevOps teams currently "perform magic" to deploy; needed to shift the power so developers perform magic on their own without any dependencies
- Developers needed to be able to build and ship their microservices to the right places at the right time
- Minimal deployment verification—everything done manually. Difficult to measure success of deployments beyond "the site staying up."

## Harness Benefits

- Automation of deployments across 5 Kubernetes clusters and 50+ pods
- Configuration-as-code (YAML) and reusable pipeline templates/patterns across dev teams
- Support for Blue/Green and Canary deployments
- Out-of-the-box integration with Datadog
- Auto-verification of deployments using Machine Learning
- Auto-rollback for failed deployments
- True CD-as-a-Service and self-service for developers

- Fantastic Customer Success team with onboarding, support line, and the delivery of a high velocity of feature requests

## CI/CD Ecosystem

- Docker, Kubernetes
- Node.JS, Go, Python, Postgres
- GCP
- Travis CI, GCR
- Datadog
- StackDriver

## Evaluation

- The team had a well-known open-source platform deployed for a month, managing its components & configuration on their own. Its lack of configuration-as-code, documentation, and support created too much management overhead. The team would have needed 3 people (1 lead engineer, 1 senior DevOps, and 1 QA) to use platform for Continuous Delivery
- Harness offered CD as-a-service and took care of the management overhead and streamlined the team's deployment process. Offered full support config-as-code with automated deployment, verification, and rollback
- Feature and support requests were quickly turned around by Harness engineering
- Customer success team made onboarding and deployment easy, simple, and painless

## Business Impact

- Reduced deployment time and effort by ~80%
- Deployments now take 1 developer 10-15 mins instead of 60 minutes
- Reduced QA verification time and effort by ~80%
- Verification now takes 3 QA engineers 1 hour instead of 3 QA engineers 3-6 hours each
- Avoided 3 FTE resources to manage open-source CD alternative — worth ~\$100k of loaded cost