

## **Understanding the Challenges**

As the company's development efforts scaled, managing Jenkins became increasingly complex and unsustainable. Key challenges included:

## **OBJECTIVES**





Keeping Jenkins, its plugins, and the underlying OS up to date required dedicated resources, turning platform upkeep into a full-time operational burden.

## Expensive and Impractical Scaling

Jenkins' high resource consumption forced the company to continually increase AWS compute capacity to maintain stability, leading to escalating cloud costs.

## Unsustainable Operations

Years of unstructured pipeline development resulted in a disorganized Jenkins environment with inconsistent implementation practices and minimal governance. Managing the platform relied on tribal knowledge rather than standardized processes, making administration inefficient.

To maintain agility and cost-effectiveness, the company needed a scalable, well-governed DevOps platform that would eliminate these inefficiencies while improving developer productivity.

# Engineering the Solution with Avyka and Harness

Avyka partnered with the client to execute a structured, four-phase migration approach that minimized disruptions while optimizing workflows.



Avyka's methodology included:

#### **Assess**

Conducted a comprehensive analysis of existing Jenkins pipelines, dependencies, and integrations to define a migration strategy and success criteria.

#### **Pilot**

Migrated a small, low-risk pipeline to Harness, validated its functionality, and gathered stakeholder feedback.

#### **Migrate**

Transitioned all Jenkins pipelines to Harness in phases, optimizing workflows and leveraging Harness-native automation capabilities.

## **Optimize**

Fine-tuned platform performance, strengthened governance, implemented cost controls, and fully decommissioned Jenkins.

By following this structured approach, Avyka ensured a seamless migration, reducing operational complexity while enabling scalability, automation, and cost efficiency.

## **VALUE DELIVERED**

After migrating to Harness, the company achieved significant improvements in several key areas:



## Lower Total Cost of Ownership (TCO)

Despite being open-source,
Jenkins' high maintenance
and scaling costs—
particularly labor and AWS
resources—surpassed the
investment in Harness.



## Improved Consistency

Harness templates and the Internal Development
Portal (IDP) standardized pipeline development, improving consistency and control.



#### Increased Team Efficiency

Migration reduced maintenance overhead, enhancing visibility and boosting sprint velocity by 15%.

## **Key Takeaways**

By migrating from Jenkins to Harness, the company successfully overcame scalability and governance challenges, delivering:



A cost-effective DevOps platform with lower operational overhead.



Enhanced consistency and transparency across pipelines.



A more efficient development process, with improved sprint velocity and less time spent on maintenance.