



## CASE STUDY

# INFRASTRUCTURE AS CODE SPEEDS APP DEPLOYMENT AND STREAMLINES DEVOPS FOR FINTECH ISV

*One touch deployment using Infrastructure as Code (IaC) reduces Build and Deploy times from days/weeks to hours. New pipeline architected using open-source tools saves thousands of dollars in licensing costs.*

## Client Background

A global leader in financial technology solutions offering simplified payment systems across geographies and industries wanted to find a better solution to manual deployment of environments in the application pipeline, while still ensuring uniform policies, governance and compliance. The existing pipeline presented several problems, including vendor lock-in, lack of transparency in several key phases, and the inability to support industry-standard integrations. In addition, the application framework version and the docker image creation process were tightly coupled, increasing component interdependence and impeding agility.

The client needed **Xoriant DevOps expertise to re-architect deployment pipeline and utilize DevOps best practices to optimize existing pipelines for improved performance and profitability.**

## Key Objectives

- Assess, recommend and implement an alternative build/deploy framework.
- Increase application deployment speed and frequency, freeing client teams to spend more time innovating.
- Streamline and stabilize DevOps (CI/CD) pipelines and deployments by replacing third-party Java libraries.
- Decouple tightly integrated docker image versioning for increased flexibility.

## KEY BENEFITS

- Enabled one touch deployment from Dev to Prod using one IaC for multiple environments and DevOps best practices.
- Ensured First Time Right (FTR) changes and consistency across regions and environments using IaC principles with deployment of cloud resources code.
- Provided transparency to monitor Kubernetes orchestration with flexible controls for approved stakeholders. Easy observability enabled data-driven decision making, optimized performance and cost savings.



## Xoriant Solution

- Proposed an architecture that provided a transparent workflow with visibility and complete control of microservice versioning for the application stack across environments.
- Designed an alternative build/deploy framework from scratch based on rigorous assessment of existing workflow and related dependencies.
- Built the application pipeline using industry-standard open-source tools.
- Streamlined and stabilized the DevOps (CI/CD) pipelines by replacing the third-party Java libraries used for deployments via Maven to the target Kubernetes clusters.
- Initiated Ansible trigger via handled deployments to multiple environments with full control of application package versioning.
- Provided condition-based release triggers for artifact deployments to targeted environments.
- Developed Terraform scripts to automate cluster creation process and install applications.
- Ensured cloud resources to be easily deployed and terminated via Jenkins.

## KEY BENEFITS

- Increased flexibility and eliminated vendor lock-in limitations with cloud-agnostic application pipeline solution, deployable cross multiple geos and environments in parallel.
- Provided ease of integration with existing roadmap toolsets, using extensible pipelines. Integrations with test automation, and Static Application Security Testing (SAST) tools with quality gate score-based rollouts across environments, reducing man hours and delays.

## Technology Transformation

AWS | EKS | AWS LB | Terraform | Consul + Vault | Grafana | SonarQube | Liquibase | JFrog | Jenkins | Ansible | GitHub



Xoriant is a product engineering, software development and technology services company, serving technology startups as well as mid-size to large corporations. We offer a flexible blend of onsite, offsite and offshore services from our 17 global offices with over 5000 software professionals. Xoriant has deep client relationships spanning over 30 years with various clients ranging from startups to Fortune 100 companies.