



CASE STUDY

DEVOPS SOLUTION IMPLEMENTATION FOR A GLOBAL LEADER IN SETTLEMENTS

70% saving in the manual effort through automated build and deployment

Client Background

Our client is a US-based financial institution offering settlement services to its members in the foreign exchange market (FX). The forex market has a decentralized clearing facility, making trade settlements risky. Third-party customers and settlement members use the client's payment versus payment (PvP) service to mitigate the risks and enhance the efficiency of their forex transactions. The client faced challenges in application development, including build quality, build automation, release deployments, environment allocation/deallocation, and managing audit trails.

The key objectives included:

- Automate the standard SDLC processes for consistency and easy replication to facilitate Release Management/Build Engineering teams to achieve faster releases/builds with improved quality and reliability.
- Empower development and quality assurance teams to accelerate deployment velocity
- Centralize storage of information, reports & artifacts
- Improve data governance and compliance with regulatory demands

Xoriant Solution | Key Contributions

Xoriant was the preferred technology partner and service provider of the client. We contemplated the client's challenges & expectations, in addition to their development culture. Our engineering team built accelerators and

KEY BENEFITS

- Accelerated product/application release by 30%
- Reduced manual efforts in the build and release process by 70%
- Empowered development and QA teams to carry out automated deployments independently
- Improved governance and well-developed quality assurance with adherence to SDLC processes before an audit

enablers in the build-release processes, developed and integrated custom solutions to significantly improve release velocity. Our key contributions included:

- Pre-build Validation
- JIRA-based build and auto-deployment
- Confluence-based environment allocation application

Pre-build Validation: Development of a pre-build validation system to validate build checks, generate reports and communicate to stakeholders. Validation includes code availability in the repository, JIRA status, evidence of development activities, specific attachments, or any other custom pre-requisite.

JIRA based build & auto-deployment: Automated deployment of JIRA-based build, release and staging to all environments by respective teams after successful validation. With this, every project can enable controlled CI/CD, single-click Build and Release, easier release management, independently execute deployment by different teams.

Confluence-based environment allocation application

Implementation of an environment allocation application using Confluence and JIRA to allocate environments, capture the list of environments, its status, build version deployed environments.

KEY BENEFITS

- Effective management with automated dashboard generating details about each event/output
- Multiple real-time dashboards and mail alerts ensured faster feedback about ongoing release activities to all stakeholders
- Achieved a clean custom audit trail (from development till deployment) for build, release & deployment- a key requirement in regulatory compliance
- Achieved constant audit readiness with centralized storage of information, reports & artifacts

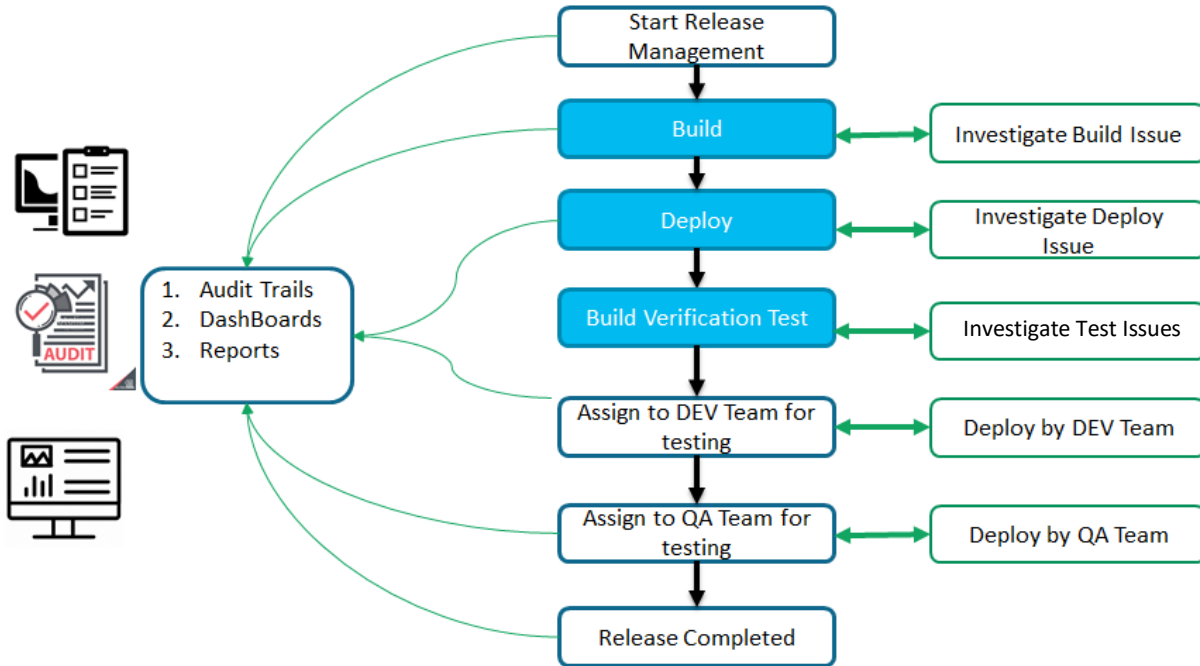
Client Testimonial



Xoriant engineering team analyzed our business situation and developed accelerators, enablers to achieve robust automation, significantly accelerating release by 30%.



High Level Architecture



Technology Stack

JIRA | Confluence | Bamboo | Stash | Nexus | Python | Rest API | OAuth | SonarQube Unit Test | JUnit | Unit Test Harness | Fisheye | Crucible | Splunk



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