



Major Scandinavian Bank Reduces Regression Test Cycle time by 85% with DevOps Automation Solution

Client

Scandinavian multinational bank with operations in Nordic region and other affluent European regions like Luxembourg, UK, etc. The bank is a leader in functions like capital markets, wealth management and private banking and currently is focused heavily on digital strategy & automation using Robotics, Predictive Analytics, etc.

Challenge

- Unique structure (merged entities across four countries) creates an opportunity for 'Simplification' & 'Rationalization' of various applications, tools and processes within the client organization.
- With 'Segregation of Duties' being a stringent regulatory requirement, access to production environment will be limited and analysis can be done only through tools.
- Cloud-centric focus on Data Centers created a need for Automation on 'Dev' & 'Ops' (both cycles of an application life span). In future, there would be no access to any server related artifacts like logs, heap dump, etc.
- Application in concern, is a heavily used one, a 24*7*365 uptime need and around 15+ source systems and client systems.

Solution

- Automation of Dev Build process and Code review using Bamboo, Jenkins, SonarLint & SonarQube + Stash for peer review using Git Pull requests.
- Agile-based SCRUM for project using Atlassian JIRA, Confluence
- Automation of UAT & Regression suite using Selenium + Cucumber using BDD (Behavior Driven Development) methodology
- Automated System Integration tests on REST-based services using Rest Assured
- Automated Performance Tests using J-Meter
- Advanced Log Analytics using Splunk and server health monitoring using App Dynamics
- Usage of customer approved tools and open source alternatives.
- Conformation to Standard Tools and Processes (Tool Strategy & Test Strategy)

Benefits

- 85% Time Reduction for Regression Test Cycle (2 weeks to 1.5 Days)
- Reduced Build Time from 30+ minutes to 5 minutes and under
- Automated Deployment to all environments
- 80% Reduction in defect leakage to Production.



“Thank you very much for sharing this info. The teams progress in all these areas have been very impressive, and shows that the right use of specific tools and processes can contribute significantly to both daily work and confidence in the team and the system.

The test automation suite that has been developed has sped up testing and improved our coverage and confidence in the results, both functional and performance. Our continued use of JIRA, and team-metric reports, has provided better clarity and status updates, and has made my job a lot easier. And finally it is my impression that using Splunk and AppDynamics have enabled us to analyze application performance and errors, and provide faster solutions. Please keep up the excellent work, while always being on the lookout for ways to improve in our setup!”



- Client Manager

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