

DEVOPS IMPLEMENTATION FOR A LARGE FINANCE COMPANY

Overview

A large US-based finance company was facing multiple challenges in its software suite that had a distributed architecture. Some of the common issues were delay in release cycles, more time to install the entire suite, continuously monitor code quality, fixing bugs faster and manage small but multiple release cycles. The Pyramid IT team helped Client in overcoming these challenges by doing a DevOps assessment first followed by implementation of DevOps processes and tools.

Business Objective

- ▶ Manage multiple releases of software product/suite.
- ▶ Reduce release time of the entire software suite (dev and test).
- ▶ Setup a DevOps process to help developers install and manage the entire software suite (applying patches).
- ▶ Build and test automation for high code coverage.
- ▶ Implement DevOps to continuously monitor the product quality by running the automation test for each build.
- ▶ Identify code-breakers to help faster bug fixing and develop zero defect software with short release cycle.

Business Benefits

- ▶ A matured DevOps process was brought into existence as per the Agile methodology.
- ▶ Automation of release, test and deployment processes lead to smaller and faster release cycles.
- ▶ Improved code quality.
- ▶ With the use of DevOps processes and tools, the defect density ratio was brought down by 30%.
- ▶ Ability to simultaneously release a different version of the software for different customers.
- ▶ Business is up-to-date on the status of product quality on a daily basis.
- ▶ Reduced time for releasing customer specific changes.
- ▶ QAs is able to focus more on testing for quick release.
- ▶ Improved the overall DevOps maturity.

About Pyramid

Pyramid Consulting Inc. is a global technology and process driven software solutions company offering customer centric solutions. With knowledge and experience of the entire IT lifecycle, we help enterprises streamline core IT processes and augment their competitive advantage. Pyramid's global delivery model harnesses productive tools, agile methodologies, iterative processes and expert frameworks to provide innovative and cost-effective solutions.

Our domain and industry experts engineer robust technology solutions for clients in a wide range of industries including retail, logistics, healthcare, insurance, software development, financial services, media, publishing and telecommunications.

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Business Solution

- ▶ Pyramid IT Consulting provided three-stage solution i.e, DevOps assessment, DevOps process implementation and various tools & technologies to implement DevOps.
- ▶ A DevOps assessment was done wherein the client's DevOps maturity level was identified.
- ▶ Based on the assessment, the DevOps process was defined for release cycles, applying patches and hot-fixes using Agile methodology's Scrum framework in the form of sprints (2 weeks each).
- ▶ TFS was used for planning and implementing Scrum, source code management and creation of automated builds and continuous integration.
- ▶ Powershell was used for writing deployment scripts.
- ▶ As part of patch build, smaller patches were created and applied to code branches.
- ▶ Testing (Unit, Integration, UI, API, and Database) was done using tools like MSTest, Specflow, Selenium, Dunit, MBunit, SoapUI.
- ▶ To improve the code quality, "Reshaper"- a Visual Studio extension was used.
- ▶ Veracode was used to implement the various application security like static code analysis and dynamic analysis.



Solution Highlights

- ▶ Achieved 30% reduction in defect density ratio.
- ▶ Improved overall DevOps maturity of the client organization.
- ▶ Achieved 60% faster release cycles.