Improved automation and leveraged CI framework solution with 81% cost savings in US based major Insurance Company

Challenges

Lack of automation, inefficient systems, poor infrastructure, and legacy testing platform lead to high costs and rise in defects

Client was looking for a partner to improve automation, bring in performance testing, improvement in productivity, cycle time and expansion into new growth platforms. Challenges include:

- Presence of competition
- No QA processes and test management infrastructure in place
- Distributed delivery teams with multi-vendors doing application development
- Lager Functional and E2E test execution to handle 14+ application for business process flows in QA and UAT
- High volume API testing including larger payloads takes huge manual testing effort
- Ongoing legacy maintenance and batch process testing support

Solution

The solution envisioned was to convert client QA organization into Azure DevOps platform leveraging Virtusa's Azure DevOps certified QA experts and best practices.

Implemented well matured TCoE for QA governance and tools stack for client QA organization

Technical Solution components

- Established BDD feature based functional, API, and E2E test automation in selenium and java (complete open-source solution)
- Leveraged Azure DevOps Dashboard and Metrics for QA
- Pipeline execution for all projects in Azure Self-hosted QA lab
- Developed customizable and pluggable CI framework for various on demand post automation tasks

Value delivered

Virtusa by bringing in the combination of QA experts, automation, DevOps, and best practices, helped client to convert their QA organization into Azure DevOps platform which enabled and resulted in various benefits such as

- 81% cost savings through our automation and CI framework solution
- 100% execution in Azure pipeline in parallel in Azure agents with cross browser coverage
- 100% QA and UAT regression test automation coverage in functional and key E2E
- 90% performance defects unearthed via Shift Left approach in lower environment itself
- Agile based TCOE
- Zero cost for tools in automation and performance test

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