ALTEN CALSOFTLABS
AN ALTEN GROUP COMPANY

DevOps Case Study

Application Development & Testing
– DevOps way

70%
Reduced time to Market

80%
Reduced cycle time

2x
Business agility, Collaboration

Customer Context & Goals

The client is one of the global university that provides campus and online degree programs

The DevOps and Cloud Automation CoE helped the customer:

❯ DevOps Services across life cycle from consulting to implementation to operations to support digital learning platform

Challenges

Destabilization of Application during Testing

Inefficient Deployment and Management of Microservices

Delays in product releases due to frequent code changes and build failures

Monitoring Security Threats & Application Performance

Provide Adaptive Learning Experiences across multiple form-factors

Solution

- Planned and implemented continuous delivery and DevOps at scale

- Streamlined application delivery pipeline through code, build, test and deploy stages

- Bamboo used to run tests for **18 services, 300+ packages and 4800+ unit tests**

- Hudson CI environment used to perform sanity testing for 5240+ back-end & front-end test cases

- Dockers setup to deploy and manage micro-services

- Python, Shell scripts to automate infrastructure provisioning

- Splunk web interafce used to monitor servers, apps and traffic

Business Benefits

- Personalized Learning Experience addressing complete student life cycle management

- **40% increase** in overall team productivity with agile DevOps and continuous collaboration

- Full visibility and control, gaining the ability to sense and respond to change efficiently

- Release of new feature based on participating microservices only, in-spite of full product rollout

Tools and Environment

DevOps
Bamboo, Hudson, ClearCase,
Microservices, Docker, GitHub

Cloud
EMC, AWS

Database
Oracle, Hadoop, MongoDB,
MySQL, Percona, Riak

Automation
Python, Junit, SoapUI

Agile Project Management
JIRA

Analytics
News Relic, Splunk

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