

DevOps Solutions & Services

UK's Retail Giant

Predictable Delivery Every Time since First Time...

About the Client

The Client is one of the largest Retail Chains in UK and has ~3000 stores across UK & Europe. It is the third-largest retailer in the world measured by gross revenues and the ninth-largest in the world measured by revenues.

Technology Backdrop of the Project

- Azure DevOps
- OnPrem DevOps (GitHub, Maven, Nexus, JIRA)
- Chef
- PowerShell
- YAML
- AppDynamics
- Windows Server 2016
- VMware
- Ansible
- Server Patching
- Selenium
- .NET Core 2.2

Business Challenges



- Legacy Application with distributed architecture hosted on 2700+ Stores
 - Out of support OS
 - Age Old Database Platform
 - Standalone Infrastructure hosted on VMware Infra
 - Frequent Application Outages
 - Multiple integrations with critical systems like Payroll.
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- New lightweight Application developed by Client Team needs to be deployed across 2700+ stores.
 - In place upgrade is not possible both from OS and Application/DB standpoint.

Skillmine Solution



- Skillmine proposed a green field approach. Application upgradation is achieved through migration (Application & Database) & cut over approach with all pre migration & post migration checks in place.
 - Automated Infrastructure provisioning through Jenkins and Chef across all the 2700+ stores and leverage PowerShell scripts to perform OS customization and hardening.
 - Managed builds through GitHub and artifacts through Nexus with a strategy to keep it On Premises.
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- Implemented Azure DevOps solution with YAML scripts and PowerShell scripts for Application & DB installation, migration and cutover.
 - Configured web proxy and leveraged internet connectivity of stores without choking DC network.
 - Created a test bed to do all sanitary checks, integration checks.
 - Automated post deployment checks with Selenium since Azure Test Plans aren't matured.

Business Benefits



- Improved deployment throughput by 70% with a perfect & precise DevOps eco system in place.
 - Reduced deployment timelines by 70% and workforce reduction by almost 80%.
 - Increased productivity by performing all noncritical activities, leveraging daily backups of incumbent application & DB to minimize the cutover time.
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- Automated server provisioning and server patching streamline IT Infra operations.
 - Leveraged Ansible & Chef, YAML, PowerShell scripts to minimize footprint of manual activities.
 - Application Development Team, Deployment Team and BAU Team are now in perfect tandem.

15+
Months

2500+
Server Builds

10000+
Servers Patching

2700+
Stores

20000+
Deployments

0
Major Escalations



Month 1

DevOps Framework (Build, Artifacts & CI/CD pipelines) has been setup



Month 2

Automation Framework is implemented and tested for OS customization & App & DB installation tasks. Server Provisioning has been automated.



Month 9

Streamlined Infra Provisioning & DevOps deployment process. Major Milestone: 2700+ stores are now migrated to application v2.0.



Month 12

New version 3.0 of the Application is deployed and went live on 450+ stores



Month 15

Migration to new Azure DevOps platform empowered by YAML is in progress. 75% completed.

Mantra behind this Massive Success

***Leadership Owned the Team,
Team Owned the Delivery”.***

Robust Security & Technology Support Services for Customer , Improvising Customer Security Posture & Compliance Standards.....



Lower cost



Economically
sustainable



Reduce risk



Improve experience
for their customers



Increase
competitiveness




Grow
revenue



Improve
performance



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Think & Care about Customer's Investment

• Predictable Delivery Every Time since First Time

• Passionate about Desired Outcome