DevOps Implementation for a Leading **Global Consulting** Company

ATTENTION. ALWAYS.

aspire
SYSTEMS
attention. always.

THE CUSTOMER

Our customer is one of the Big 4 Accounting firms with a global network of professional firms providing Audit, Tax and Advisory services with 174,000+ professionals delivering value in over 155 countries. Their digital consultancy services division aims at improving the digital experience, operational productivity and collaboration amongst the teams inside an organization with their expertise over areas such as social media, cloud, analytics and mobile.

THE CHALLENGE

The customer was designing their services in creating digital strategies, laying out the road map and helping organizations by working toward their digital transformation. As an essential component of the plan, they wanted a thorough DevOps implementation with complete automation of their processes and a rigorous Continuous Integration and Continuous Delivery (CI/CD) system in place.

Their existing setup didn't support the environment where application development can happen in a CI/CD fashion. The customer was in need of an experienced team that can offer consultation, design, implementation and support of a solid DevOps framework for their business. As it is essentially a transformation, they wanted the implementation to happen without compromising the reliability and effectiveness of their existing applications.
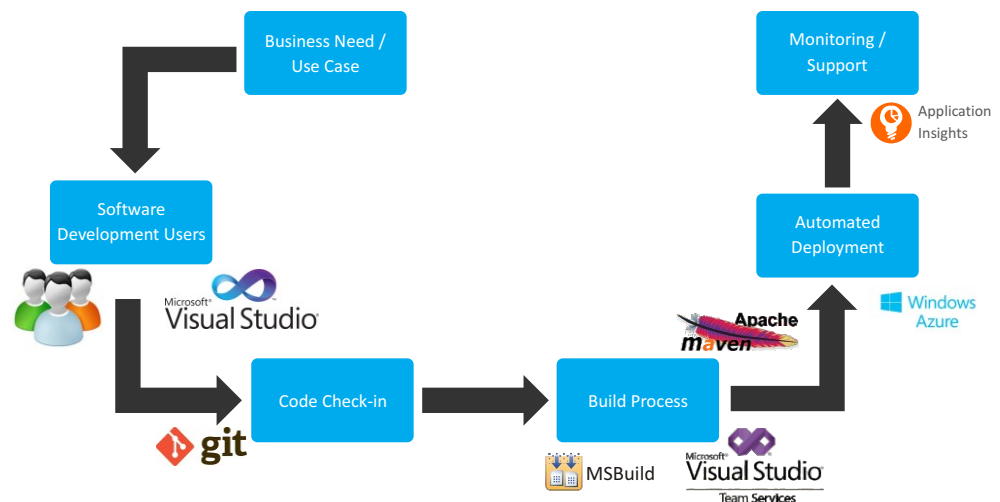
THE SOLUTION

" In order to facilitate the complete DevOps process, Aspire's team designed 5 applications (4 in .Net and 1 in Java, hosted in Microsoft Azure environment) reducing the project complexity and cost. "

Aspire offered to design, implement and support a highly matured DevOps model that would act as a foundation for the customer's digital applications. In every step of the process, Aspire's team ensured that the actual CI/CD model is compatible in line with the industry standards and is equipped for the future. The DevOps solution enabled agile self-provisioning, infrastructure automation across the environments for the developers, testers and the UI team to effectively manage the service cost.
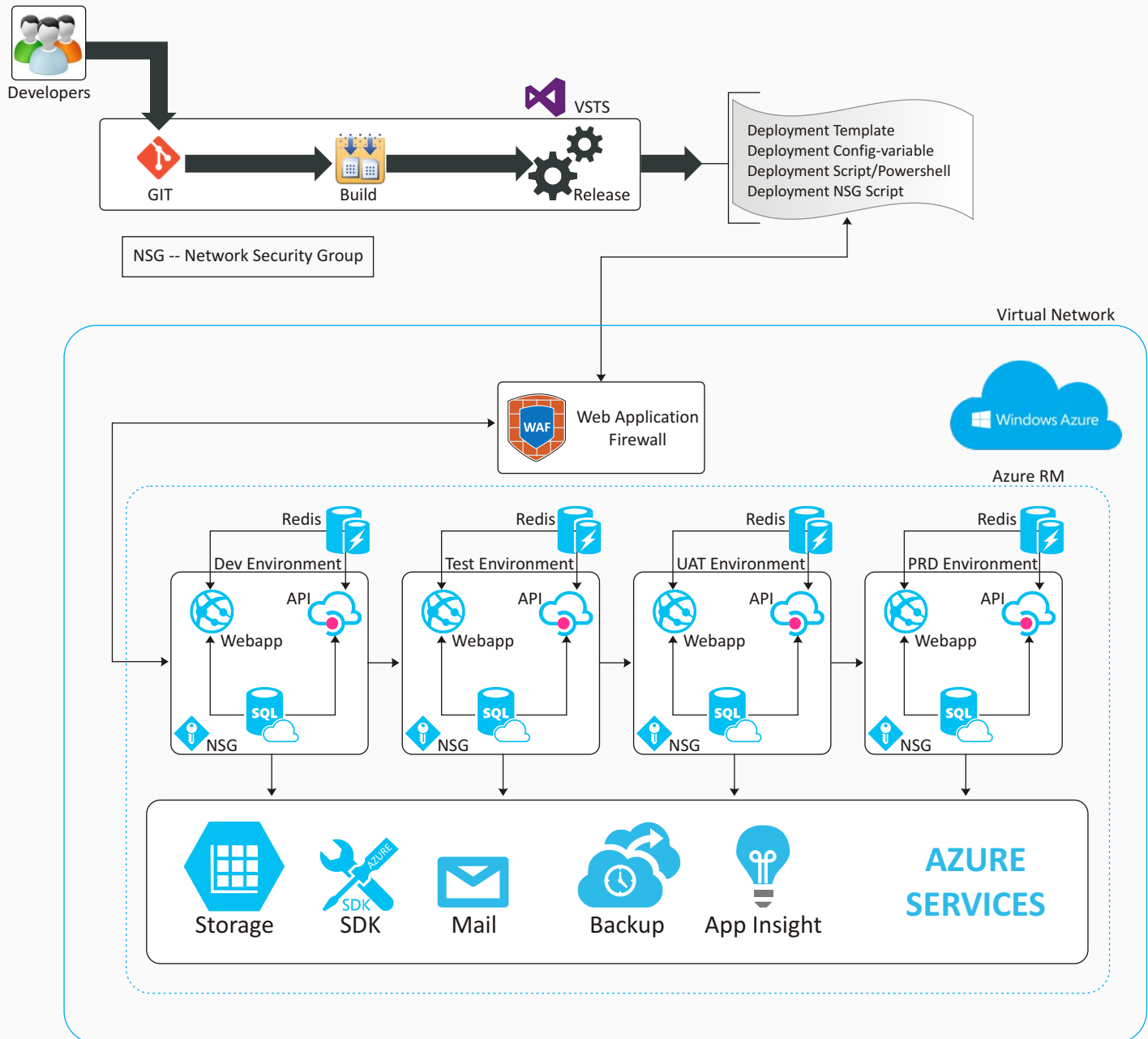
Solution in detail:

1. In order to facilitate the complete DevOps process, Aspire's team designed 5 applications (4 in .Net and 1 in Java, hosted in Microsoft Azure environment) reducing the project complexity and cost.

2. Aspire's team adopted a methodical IT delivery model to deliver a process-driven, ITIL based change management system for end-to-end delivery orchestration, automating CI/CD processes, continuous deployment on cloud and complete support and maintenance.

3. Implementation of VSTS (Visual Studio Team Service) for project integration helped the team to align all the environments involved in delivery and as a result the project team was able to achieve minimal errors and maximum stability.

4. Enabling the cloud implementation in Azure helped the team to automate all the CI/CD processes, integrate environments into a centralized management unit and streamline utilization of IT infrastructure thereby providing a 99.95% SLA for the applications hosted.

Business Need / Use Case

Software Development Users

Microsoft Visual Studio

git

Code Check-in

Build Process

MSBuild

Microsoft Visual Studio Team Services

Apache maven

Windows Azure

Automated Deployment

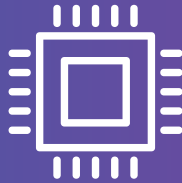Application Insights

Monitoring / Support

BEST PRACTICES

The team utilized SQL Geo-replication to create a secondary database for disaster recovery.

Application Insights, an extensible Visual Studio analytics service, was installed to monitor and diagnose performance issues in the applications.

Developers

GIT Build VSTS Release

NSG -- Network Security Group

Deployment Template
Deployment Config-variable
Deployment Script/Powershell
Deployment NSG Script

Virtual Network

Windows Azure

Azure RM

Web Application Firewall

Redis Dev Environment API Webapp NSG
Redis Test Environment API Webapp NSG
Redis UAT Environment API Webapp NSG
Redis PRD Environment API Webapp NSG

Storage SDK Mail Backup App Insight AZURE SERVICES

TECHNOLOGY SNAPSHOT

Version Control System
Git

Ticketing
Atlassian Jira

Build Automation
MS Build (Dot Net), Maven (Java)

Testing Automation
JMeter

Database
MSSQL

URL Hosting
Azure

RESULTS

Aspire's well planned, thorough DevOps implementation improved the customer's product efficiency, increased their productivity and brought down their downtime by 99.9%.

FUTURE IMPACT

From consultation to support, Aspire's approach in establishing a DevOps order for the customer business will help them to expand and meet the demands of the digital future effectively.

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ABOUT ASPIRE

Aspire Systems is a global technology services firm serving as a trusted technology partner for our customers. We work with some of the world's most innovative enterprises and independent software vendors, helping them leverage technology and outsourcing in our specific areas of expertise. Our core philosophy of "Attention. Always." communicates our belief in lavishing care and attention on our customer and employees.