Cloud-based Monolith to Microservices Conversion for a Fintech Leader

ITC INFOTECH
Business-friendly Solutions

The product, originally built in the early 2000s, had an outdated tech stack and had grown too large to manage efficiently, despite a strong underlying framework. To align with the client's vision of modernization, ITC Infotech worked closely with the Customer Architect Forum to define a cloud roadmap and conducted multiple PoCs to finalize the framework.

Revamped Client's Technical Landscape

ITC Infotech is a leading global technology services and solutions provider, led by Business and Technology Consulting. ITC Infotech provides business-friendly solutions to help clients succeed and be future-ready, by seamlessly bringing together digital expertise, strong industry specific alliances and deep domain expertise. The company provides technology solutions and services to enterprises across industries through a combination of traditional and newer business models, as a long-term sustainable partner.

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BUSINESS NEED

- The product, built in the early 2000s, was running on an outdated technology stack
- Despite having a strong underlying framework, the product had expanded significantly in volume, becoming large and complex to manage
- The client aimed to modernize the product to ensure scalability, ease of maintenance, and improved performance
- A key objective was to make the product container-based and cloud-ready to align with modern technology standards

OUR SOLUTION

- Collaborated closely with the Customer Architect Forum to define the cloud transformation roadmap
- Conducted multiple Proofs of Concept (PoCs) to finalize the optimal framework
- Carved out domain-driven functionalities and developed new microservices
- Adopted modern technologies for the new microservices to enhance performance and scalability
- Containerized microservices using Docker for better portability and resource optimization
- Built and deployed containers via Azure Pipelines, ensuring streamlined CI/CD processes
- Deployed the solution independently on Azure Kubernetes Service (AKS) for high availability and scalability
- Ensured code quality and security with SonarQube, WhiteSource, JUnit, Mockito, and JaCoCO
- Introduced multitenancy in the new architecture to support multiple clients efficiently

Business Outcome

- Revamped client's technical landscape
- Supported the client in their cloud Journey
- Implemented a hybrid strategy with both cloud and on-prem microservices deployment
- Introduced multitenancy as part of the solution
- Enabled the client to develop their SAAS offerings
- Emphasis on code quality for making the product more robust

TECHNOLOGIES

spring boot, Azure Pipelines, Azure Key Vault, git, sonarqube, docker, Maven, mockito, Jira, kubernetes, WhiteSource, JUnit, JACOCO Java Code Coverage