Tech
Mahindra

CASE STUDY

Cloud Native Engineering Solution for a Leading Grocer in US

OVERVIEW

The client is one of the world's largest retailer with a leading grocery chain in US. The customer was embarking on a large cloud transformation journey to move digital solutions from on-premise data centers, modernize and build cloud-native applications to bring all efficiencies of cloud, including faster release, scalability and better MTTR.

CLIENT BACKGROUND AND CHALLENGE

As a leading retailer company with more than a hundred years in the market, the client was building in a legacy infrastructure, having difficulties to keep up with the customer constantly changing needs.

The client wanted to build a cloud-native platform that is highly scalable, fast and efficient with solutions for multi cloud environment such as GCP and Azure that would allow high-speed releases to production for faster delivery.

They needed a disaster management solution to support their business operations to enable rapid replication and provisioning for disaster recovery to become an omni-channel retailer.

One of their key focus has been to streamline infrastructure management and reduce operational costs and to take advantage of the features and functionalities offered by cloud-based retail systems.

OUR APPROACH AND SOLUTION

With cloud adoption, a key driver for digital transformation in a global retail landscape that is extremely competitive, Tech Mahindra helped the leading grocery company to be more agile and responsive to the business opportunities, and gain competitive advantage with a comprehensive approach to modernize their systems that are required to enhance their customer experience. For constantly changing consumer demands, transformation to cloud-native platform enables them to improve their back-end functions, inventory management and optimize the delivery processes. Tech Mahindra helped the client by implementing the following solutions:

- **Build Lightweight Architecture:** Microservices driven architecture patterns for the digital application

- **Build Infrastructure-as-Code** (IaC) reusable components IP to accelerate the build on Cloud

- **Expand DevOps / SRE** Teams: Responsible for onboarding different teams within the client's organization into the infrastructure built by them.

- **Introduce Cloud Platform Agnostic Solutions:** Such as HashiCorp's Terraform, and Spinnaker provided consistent and repeatable workflows that reduced the on-boarding time on multiple platforms

- **Build Observerability:** Prometheus, Stackdrive and Grafana to extend the monitoring stack

- **Incubate Quality Engineers:** To Improve the overall quality and reliability of the release

- **Collaborate with Analytics Manager:** Work alongside other development teams to enable data collection, and later use data to maintain metrics

BUSINESS IMPACT

75%
Improvement in Speed of Delivery

85%
Test Automation

50%
Improvement in MTTR

30%
Faster Release Time to Market

ZERO
Defect Slippage to Production

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