

CASE STUDY | CLOUD MIGRATION

Application re-engineering and migration to the cloud to improve scalability and customer experience

For improved scalability, agility, and user experience



About the customer

The client is one of the US's top 10 financial services providers exclusively offering credit cards. The client has more than 13 million active card members, nearly 300 million purchase transactions, and over \$10 billion in purchases in 2020. This data-driven financial services company has 25 million card member logins to its app, 5 million to the website, and 7 million calls into IVR, with almost two million opting to speak to an agent.

Requirement

The client was using 20-year-old monolithic applications that had numerous business and tech-related challenges,

including scalability (applications were not scalable to meet growing business transactions), agility (applications were not agile enough to meet business growth & pace of technological change), dependency, testability, maintainability, elasticity, hardware cost, etc. The client wanted to migrate from its legacy platform to the cloud and transform its customer engagement.

Solutions

Servion's experienced digital engineering team enabled the migration of n-tier monolithic applications to multiple cloud-enabled microservices and integrated them with robotic automation. The solution is hosted on an open stack cloud platform using OpenShift/AWS and supported by micro frontend UI. To achieve

the same, based on the multiple business domains & capabilities (customer, collections, closure, acquisitions, marketing, and shared services) & 22 sub-domains) has been identified. Accordingly, the data was pushed to various microservice data solutions, including appropriate No-SQL databases and appropriate Big Data solutions integrated with Data Lake and Parallel DWH streams

The following tech-stack was utilized for migrating the applications:

- **Cloud Computing:** Open Shift, AWS, Azure

- **API Management / Access Mgmt:** Google APIGee, Azure AD

- **Containers & Orchestration:** Open Shift, Docker, Kubernetes

- **Message Bus:** Kafka, RabbitMQ

- **Data Layer:** PostgreSQL, Amazon RDS, MySQL, MongoDB, Redis, Elastic Search

- **Data Processing Layer:** Apache AirFlow, NiFi, Streamset, Python

- **Presentation Layer:** Tableau, Apache Superset, Kibana

- **UI Layer:** Angular, React JS, JQuery, HTML5

- **API Layer:** C#, .Net Core, Python,

- **Testing Tools:** N-Unit, Cucumber, Protractor, Cypress, Selenium

- **DevOps & Other Tools:** GitHub, Jenkins, JIRA (Kanban), Sonatype

Benefits

Servion's implementation brought several tangible benefits to the client. Some of them include:

- Highly scalable microservices & micro frontend hosted on an elastic cloud-based environment

- Resilient services with continuous monitoring

- Reduced application release cycles

- Improved agility in development & deployment (Automated and repeatable continuous integration and delivery (CI/CD) using DevOps practice

- Easy maintainability

- Continuous integration environment and no build breaks

- Clear engineering quality gates

- Automated testing with a coverage of 90%

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