

Case study

Legacy Modernization to Cloud for One of the Largest Hospitality Company Based Out of the US



Client

One of the largest hotel chains in the world, the client has 30 brands and 7,000+ properties across 131 countries and territories. Taking hospitality beyond what was thought possible, the client has over 170,000 employees across the world and generates billions of dollars of revenue each year.

Challenges

One of the main challenges for this project was the adoption of more modern technologies, considering the client was running their core business-critical process on legacy mainframe systems. The mainframe implementation was one of the core sources of compute and data for a lot of downstream business critical applications including transactional front-end and critical analytics applications. But the advantages that resulted from it also resulted in several issues that affected key business metrics, such as the high cost of running the mainframe, both due to its scale, as well as the storage required. Not only was maintaining it an issue, the talent that would be required to do so was getting increasingly harder to find, considering the technology was old. This also meant that new technologies were not possible to integrate, thus affecting usability and performance both. Moreover, the existing integrations were implemented using monolithic APIs, which needed to be fixed as well.

LTIMindtree Solution

The process for cloud adoption started with detailed consulting and planning discussions focused around design and architecture to understand the current state of mainframes for the client. Moreover, there was a discussion on how to transition to cloud with minimal downtime. At the next stage, LTIMindtree created technical PoCs to validate the workload movement to cloud and to preserve the integrity of the integrated systems. For this, AWS was used as the cloud platform, Kafka and Spark were used for data transformation, Couchbase and Postgresql for data storage, and Hadoop as the data lake platform. As a result of this, we enabled better real time and batch ingestion of data from multiple sources into the data lake and were able to transform monolithic implementation of APIs to microservices-based implementation without breaking the front-end analytics integrations.

Benefits

By providing end-to-end support for the IoT platform, LTIMindtree delivered the following benefits:



Reduced operational costs by eliminating the mainframe workload, storage and maintenance costs.



Improved flexibility on the front end through microservices-based architecture.



Reduced operational overheads and simpler to maintain.



Opportunities for optimizations and improvements in the analytics and insights space of the application.



Cloud agnostic architecture allowing for future cloud platform movements.

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