

CASE STUDY

Legacy Modernization to Cloud for a Large US-based Hospitality Company

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 in revenue each year.



Challenges

One of the main challenges for this project was the adoption of modern technologies, considering the client was running their core business-critical processes on legacy mainframe systems. The other challenges have been listed:

01

High costs incurred in running the mainframe

02

Maintaining the mainframe was an issue due to a shortage of skilled talent

03

Difficulty in integrating new technologies – leading to poor usability and performance

04

Existing integrations were implemented using monolithic APIs

Solution

The process of legacy modernization for cloud adoption started with detailed consulting and planning discussions focused on design and architecture to understand the client's current state of mainframes.

In the next stage, LTIMindtree created technical PoCs to validate the workload movement to the cloud and preserve the integrity of the integrated systems. After a successful PoC, LTIMindtree modernized and migrated the core revenue management systems from the mainframe to Amazon Web Services (AWS) cloud. We transformed the core business processes into self-contained stateless microservices, supporting autonomous scaling, resilience, and modular deployment. 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 framework.

As a result, we enabled better real-time and batch ingestion of data from multiple sources into the data lake. We were also able to transform the monolithic implementation of APIs to a microservices-based structure without any impact on front-end analytics integrations.

Benefits

By providing end-to-end support for the IoT platform, LTIMindtree delivered comprehensive benefits to the client, ranging from cost savings to reduced operational overheads. The benefits have been listed:



~ **USD 3 million reduction** in total cost of ownership per year



Immediate **cost savings** and revenue uplift of USD 8 million



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



Real-time integration and streaming enabled dynamic and precision pricing, resulting in an immediate **margin uplift**



Cloud-agnostic architecture allowing for future cloud platform movements



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

To learn more about how we can help you transform your legacy architecture to the cloud, please [contact us](#).

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