



Let's Solve

 A Larsen & Toubro
Group Company

Case Study

Application Modernization for US-based Multinational Conglomerate





Client

The client is a leading US-based multinational conglomerate. It specializes in a wide range of personal health/consumer health, and personal care and hygiene products; these products are organized into several segments including Beauty; Grooming; Health Care; Fabric & Home Care; and Baby, Feminine, & Family Care.



Challenges

The client wanted to modernize 60+ internal applications to serverless Cloud Native applications for improving employee efficiency and reducing the cost of ownership. They have started the journey with five applications from the HR portfolio to modernize application architecture and decommission the SAP NetWeaver and the Oracle running on-premises.

- Modernizing employee self-service applications to improve performance, availability, scalability, and reduced operating costs.
- Managing high license cost of Oracle 12C.
- Optimizing the database by removing the redundant tables and backups.
- Decommissioning SAP NetWeaver.
- Customization of functional features to support the new business functionality is not easy.
- Managing operational maintenance.





LTI Solution

The AWS Services were used as a part of this solution:

- Reusable AWS lambda function for authentication.
- Event process through SQS and EventBridge for reliability and guaranteed delivery.
- Real-time, cloud-native, resilient event processing platform.
- Lambda/SNS Facade for invoking multiple API via AWS Step function.
- EventBridge for scheduled lambda events.
- Template-based resource creation using CloudFormation template.
- Automated workflow for quick deployment using GitHub actions.
- Terraform - tool used to build infrastructure sometimes known as infrastructure as code.
- S3 - AWS storage where the front end is deployed and can then be retrieved from by accessing the URLs.
- AWS glue - an ETL (extract transform load) service provided by AWS that gets the data from Kinesis Firehose and save it into an s3 bucket, checks the Table schema, and query in Athena.
- IAM - access control used for least access policy.
- API gateway - AWS controller for accessing APIs.



Business Benefits

Modernized employee self-service applications with:

- improve performance (**2x**)
- improved availability (**99.99%**)
- improved scalability (**auto scaling**)
- reduced operation cost (**50%-60%**)

~ 40%

reduction in deployment time.

Near real-time integration with SAP and Workday using Lambda function and SQS.

Faster release of business functionality with by-weekly releases

Enhanced employee efficiency by **30%** by reducing manual processes and allowing **24/7** access from anywhere.

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