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REAL-TIME DATA REPLICATION FROM ORACLE ON-PREM DATABASE TO GCP USING STRIIM

PROJECT OVERVIEW

By using Striim, real-time data integration and data streaming was processed, in which a huge amount of data was migrated from Oracle database on-prem to a Postgres database on Google Cloud Platform. The architecture was implemented by enabling customized visualization, and effective data monitoring. To overcome the access restrictions on the Oracle database Striim Agent was leveraged, which acted as a third party for streaming the data. Additionally, instant alerts where created to notify when there were multiple streams of data being processed in the pipeline.

SOLUTION DELIVERED

Data Engineering

CLIENT DOMAIN

Banking

KEY HIGHLIGHTS

- Time consumption for cloud data migration reduced by 90%

- Increased efficiency in data replication by 87%

- 95% increase in security while accessing the database

ABOUT CLIENT

The client offers international banking and financial services, by rendering full-fledged internet banking for a vast number of customers across the globe. They required a storage house to accumulate vast amounts of data, as the database currently being used was cost prohibitive and a huge hassle to maintain and manage. Consequently, the client decided to move all the data from their local database to the cloud, while limiting direct access to the database.

BUSINESS REQUIREMENTS

- Migrate the data from the existing on-prem database to a database on a cloud platform.
- Minimize the cost consumption in maintaining and managing a database.
- Perform a secured data migration by not accessing the database directly.

SOLUTION HIGHLIGHTS

In leveraging Striim, Indium performed a successful data migration from the current database by implementing the following solution:

- Per recommendation, initial data load entailed migrating the data from the source Oracle database to the target Postgres database on the Google Cloud Platform.
- To perform a real-time data replication, change data capture was utilized. Any modification in the data was updated instantly, before the RDBMS finished its processing.
- To permit data access from the database via a third party, Striim Agent was used.
- With a diverse set of metrics, and live dashboards, effective data monitoring could be accomplished with ease.

BUSINESS IMPACT

In accomplishing the data migration to cloud with Striim, the proposed architecture impacted the client's business by:

- Usage of Striim reduced the time consumption for transferring the data from the Oracle on-prem database to the Google Cloud Platform by 90%.
- The complications in setting up the data replication process was reduced by 87%.
- Striim Agent effected a 95% increase in security while accessing the data from database.
- Minimal programming knowledge requirements in usage of Striim reduced the effort in the configuration of the process

TECH STACK

ABOUT INDIUM

Indium Software is a fast-growing Digital Engineering company, focused on building modern solutions across Applications, Data, and Gaming for its clients. With deep expertise in next-gen offerings combining data and applications, Indium offers a wide range of services including Product Engineering, Low-Code development, Data Engineering, Ai/ML, Digital Assurance, and end-to-end Gaming services.

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