Cloud Migration and BI for an e-Payment Provider

indium
Make Technology Work

Client Overview

- The client is one of the pioneers in contactless payment industries of South East Asia. They are providing support to public transit network and various other domains in their country

- They have issued more than 40 million contactless payment cards

Business Requirements

- Client is looking forward to migrate from Oracle database to cloud, as their business is growing rapidly, and huge amount of transactions are generated daily

- Near real-time data was required to understand the business and meet their customer needs for better customer service, which was not supported within their existing architecture

Solution

- Smooth migration of data from Oracle to SQL DW using NiFi

- For archiving and staging the data efficiently, Indium leveraged Azure BLOB

- From Azure Blob, data is loaded in bulk to Azure SQL DW

- Use of NiFi enabled the client to get near real-time data for efficient & intuitive dashboards by leveraging Power BI

Tools

- Apache Nifi
  Azure BLOB
  Power BI
  Azure SQL DW
  Oracle

Business Impact

- With Data Warehouse in the ecosystem, the Quality of the data visualization improved by 80%

- 100% data recovery and availability by deploying the data on the cloud

- 30% Cost reduction due to migration of large volumes of data from Oracle to SQL Server using open source tools

- Monitoring and alerting systems are implemented which enabled quick action in case of disaster recovery

- Automated the ETL processes that would load the data into the Warehouse seamlessly, reducing manual effort