Streamlined Data Flow Volumes with MuleSoft BigQuery Integration

Customer Overview

The customer is a leading, innovation-led satellite communications company. Their advanced and resilient global mobile connectivity infrastructure and satellite communications services and solutions provide a connectivity lifeline even in the most remote and challenging locations.

The Business Context

The customer has applications producing large amounts of data that are fed into BigQuery. Several decision systems consume this data to build analytics; and many applications work off the data from other applications. The customer wanted a solution that would make the right data available to the right system, efficiently transfer data from and to applications, and securely manage the data.

Type of Service Provided

Cloud Native Application Development

Technologies Used

MuleSoft Anypoint Platform, Google BigQuery, Google Cloud Storage

The Solution

The team of product engineering and cloud experts from GS Lab | GAVS architected a solution using MuleSoft's Anypoint Platform, Google BigQuery, and Google Cloud Storage. GS Lab | GAVS' MuleSoft BigQuery Connector was used to accelerate the solution engineering.

The connector allows enterprise IT teams access to BigQuery right from within the Anypoint platform, so IT or engineering teams can build data-driven insights into applications without having to learn new tools. The connector interfaces with the BigQuery API for analysis of massive datasets in conjunction with Google Cloud Storage. It enables management, ingestion, and querying of data in BigQuery. The team configured and customized the connector to suit the customer's specific needs.

Challenges

- Huge volumes of data not leveraged for insights
- Lack of streamlined data transfer between applications
- Inefficient workflows to make the right data available to the right applications
- Absence of data security mechanisms such as backups and traceability

Solution Highlights

- Rapid solution development with GS Lab | GAVS' MuleSoft BigQuery connector as accelerator
- Streamlined and secured data transfer between various systems (such as CRM, web analytics), applications, BigQuery, and Google Cloud Storage
- Synchronous and asynchronous querying of data
- Seamless movement of business-critical data between the systems/applications and BigQuery for advanced analysis

Solution Impact

- Accelerated time-to-value of integration strategy with access to BigQuery through BigQuery API
- Highly scalable and cost-effective solution
- Rich insights into applications without the extra effort of learning new tools
- Business transformation enabled by data-driven decision-making