

Data Warehouse Reimagined with Cloud

Enabling Real-Time, Insight-Driven Decisions

The Client

- AllCargo Logistics Limited is an Indian logistics company headquartered in Mumbai known to offer multi-modal integrated logistics and transportation services worldwide.
- AllCargo team wants a more scalable architecture to cater to their reporting needs. The current architecture needs to be scalable and robust to meet the data volume & requirements. Currently there is minimal data governance and master data management

Overview

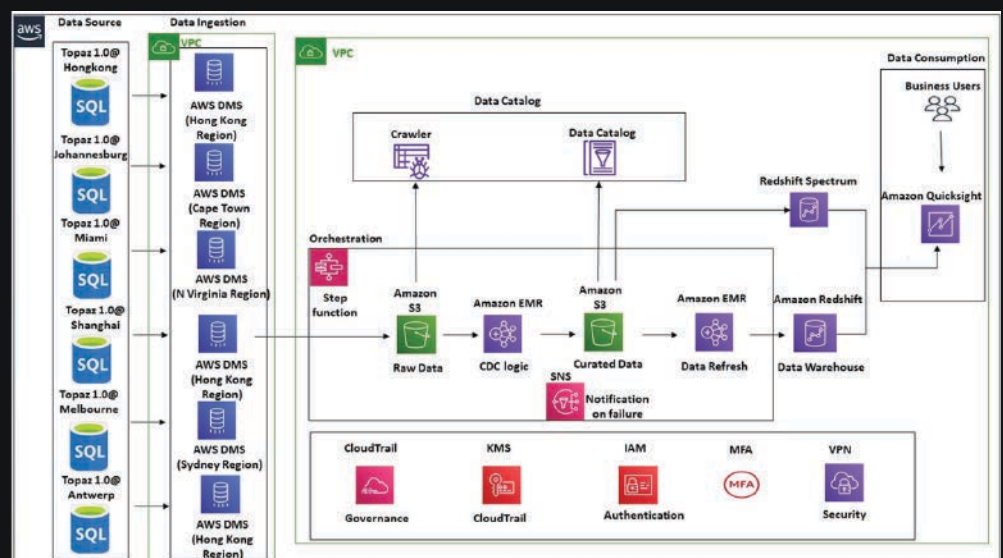
Client offers multi-modal integrated logistics and transportation services worldwide. There are 6 data centers globally and are hosted in MS SQL server to which PowerBI dashboards are connected. The current architecture needs to be scalable and robust to meet the data volume & requirements

Challenges

- Migration of 1,200 tables (~600 GB) to S3 with 5 – 15min refresh
- Design and development of dashboards to track and monitor the KPIs with real time refresh

Solution

- ETL solution is implemented where DMS moves data from MS SQL server to S3. Raw data in S3 curated and processed by EMR
- The curated data is moved to Amazon Redshift using glue jobs for KPI creation
- AWS Quicksight accesses data from Redshift using its built-in connector



Benefits

- Migrated RDS to highly scalable Amazon Redshift for Analytics
- 30% increase in query performance