

Data Platform Migration

Summary

When large organizations merge or divest, then new entity has business transformation thrust upon it. Our client, a power generation manufacturer, divested from a larger organization to become a brand-new company. With the looming deadline of a cutover from the existing data platform, the client engaged Starschema to validate and test the existing technology stack and determine the best way to move forward.

Challenge

The client had an existing, on-premises data platform for handling commercial data but was suffering from slow report loading, sometimes longer than 60 minutes, frustrating the primary data consumers, the sales and marketing teams.

As part of the divestiture, the client wished to take the opportunity to look at migrating its data platform to the cloud. Part of the technology evaluation included the feasibility of migrating the stack components to the cloud.

Solution

Starschema data engineers completed a full design review of the existing technology stack which included Oracle ERP as the system of record, HVR for data replication, Greenplum as the database, Talend for ETL, and Tableau for data visualization. This design review included a detailed review of code and configuration for the various technologies used as well as reviewing data governance.

Our experts designed a cloud-based architecture incorporating the existing technology on-premises components. After a lengthy testing phase and a Proof of Concept (PoC), the Starschema team optimized the components of the existing data platform to increase performance, validating the technology stack for post-divestiture operations.

Results

With a successful migration of the Oracle ERP source system to Oracle cloud and the other data platform components to an AWS environment, the client has benefited from reduced hardware, license, and maintenance costs. The new, cloud-based data platform renders reports several times faster than the on-premises version.

Practice Areas

- Data engineering

Challenges

- Slow data platform performance
- Hard deadline implement a new data platform

Business Impact

- Reduced license and hardware costs
- More efficient reporting process

Technologies

- Oracle ERP, Greenplum, Talend, Tableau, HVR

About Starschema

At Starschema we believe that data has the power to change the world and data-driven organizations are leading the way. We help organizations use data to make better business decisions, build smarter products, and deliver more value for their customers, employees and investors. We dig into our customers toughest business problems, design solutions and build the technology needed to compete and profit in a data-driven world.

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