

Case Study

Financial Technology Company Improves Database Scalability, Flexibility, Cost, and Availability with AWS RDS for MariaDB Migration



Learn how Datavail helped a leading financial technology company improve its bank operating system solution by migrating its MariaDB databases from Rackspace to Amazon RDS for MariaDB to achieve better performance, cost-efficiency, and scale.

The Challenge

Datavail's client, a leading financial technology company that provides bank operating systems for customers around the globe, requested help with migrating its MariaDB databases off Rackspace. The client wanted to migrate to AWS RDS for MariaDB to reduce operational costs, gain the ability to scale quickly with their growth, and improve database availability. They were dissatisfied with Rackspace services and found that it was too expensive to manage infrastructure there.

The client faced several challenges with an Amazon RDS for MariaDB migration:

- The database involved was mission-critical and had several TBs of data.
- They had limited in-house skills to handle the MariaDB cloud migration.
- The database environment was complex.
- They faced limitations with their applications related to the schema.

The Solution

The client chose Datavail due to our DBAs' expertise with MariaDB, cloud migrations, and the AWS RDS platform. Our senior-level database administrators perform a wide breadth of work that make them ideal experts for leading the effort to conduct detailed database health check assessments to determine the migration readiness of the client's database environment.

We provided the client with an initial assessment for the MariaDB cloud migration, and then executed the move to AWS RDS for MariaDB.

We went into the client's database environment to create a baseline, understand the issues, provide a gap analysis, make short and long-term database recommendations, and identify optimization opportunities. From there, we developed a migration roadmap and planned timelines, obtained a reliable total cost of ownership estimate, and deployed several proofs of concept to ensure that our solution met the client's goals and requirements and tackled the schema challenges.

Our recommendations were implemented during the MariaDB migration to AWS RDS, and focused on ensuring high availability and scalability for their bank operating system. We complemented the client's in-house DBAs with MariaDB specialists and extra capacity to handle this resource-intensive migration. Several migrations were required to accommodate the complexities of the environment and the data volume.



We used AWS Database Migration Service (DMS) and native MariaDB replication to move the client from Rackspace to AWS RDS. During this process, we also upgraded MariaDB to 10.3.x.

The Results

The client was thrilled with the planning and execution of the migration and cutover. They saw improvements and benefits across several areas, including:

- The ability to leverage the built-in high availability and scalability options available in AWS RDS for MariaDB.
- More agility through on-demand flexibility.
- Better performance and query response time.
- Significant cost savings after migrating from Rackspace to AWS RDS.

Datavail has successfully performed over 250 cloud migrations and modernizations for our clients. [Contact us today](#) to learn more about our cloud migration services and MariaDB expertise.



Datavail is a company of over 1,000 professionals helping clients build and manage applications and data via a world-class tech-enabled delivery platform and software solutions across all leading technologies.



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