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Case Study

UtahRealEstate.com Lowered Costs and Improved Scalability with a MySQL Cloud Migration to AWS

UtahRealEstate.com, the official property information platform for real estate professionals in the state of Utah, and one of the largest Multiple Listing Services in the United States, was an existing Datavail managed services customer that needed assistance with migrating on-premises MySQL and MariaDB databases to the cloud. They wanted to leverage Amazon Web Services (AWS) to reduce their total cost of ownership for their databases and enable scalability that matched their projected growth.

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The Challenge

UtahRealEstate.com found that their on-premises infrastructure management and operational costs were too expensive. They wanted to move to AWS to achieve several goals:

- Reduce the total cost of ownership for these systems
- Simplify dependencies with existing MySQL and MariaDB implementations
- Increase reliability and reduce downtime
- Protect against data loss

However, the customer had limited in-house skills to handle the cloud migration. They would have to delay this project and miss out on the benefits and opportunities available in the cloud if they were only able to leverage internal resources.

The Solution

Luckily, UtahRealEstate.com was not restricted to their in-house resources alone. Datavail's deep expertise from leading 100s of cloud migration and modernization projects, our ability to support all leading database technologies, and our partnerships with AWS, MySQL, and MariaDB delivered exactly what the customer needed.

Datavail recommended several options for modernizing the customer's MySQL and MariaDB databases on Amazon Relational Database Service (RDS) MySQL and Amazon Aurora MySQL.

This cloud migration had many moving parts, so we developed a multi-phase implementation plan. The first stage involved an AWS Migration Assessment, where we evaluated the on-premises environment to see the cloud readiness of UtahRealEstate.com. These databases powered mission-critical business applications, so it was vital to carefully plan and execute this migration.

The on-premises database environment included MariaDB and MySQL with multiple versions. Before migrating to the cloud, Datavail recommended consolidating and simplifying the environment by upgrading existing MySQL 5.6 with multiple replicas and MariaDB 10.x databases to MySQL 5.7.35.

The newly upgraded on-premises MySQL 5.7.35 databases were then migrated to the cloud-native Amazon Aurora 2.x, using the MySQL 5.7.x database engine option.

The original storage engine used by several of these databases was MyISAM, and we converted that to InnoDB. We then migrated from the on-premises MySQL InnoDB Cluster on 8.0.x to Amazon RDS MySQL 8.0.x.

We used native MySQL replication and tooling to smoothly migrate these databases to AWS. By using AWS proxy, the customer gained better cost-efficiency, availability, and scalability of read-write distribution of database traffic for workloads.

The Results

With Datavail's technical expertise and long history of successful cloud migrations, UtahRealEstate.com was able to lower their costs through the cloud migration of their key MySQL databases to AWS RDS and Aurora, improve the availability and scalability of their systems, and take advantage of new features in MySQL 8.0.x. We also provide managed services to the customer to ensure that the databases continue to perform smoothly and power the mission-critical applications they depend on.