SCALEARC

ScaleArc Cloud Migration Reduces Risk and Lowers Costs

Aurea wanted to migrate its CRM database from on-prem to the cloud but couldn't risk disruption. ScaleArc Cloud Migration delivered.

Aurea

Aurea helps global businesses accelerate digital transformation with a software library that creates unparalleled value and unlimited possibility.

Company
Aurea

Headquarters
Austin, TX

Industry
Computer Software

Database Type
MySQL

Background

Aurea accelerates digital transformation for global businesses by providing a subscription-based software library. Clients can access every product in their portfolio – all of which are cloud-based, enterprise-scale, and easy to use – with one simple subscription. Their operating model is based on acquiring and elevating promising technology, with R&D dedicated to reimagining and dramatically improving the products that modern businesses need to innovate and excel. The Aurea acquisition strategy ensures that portfolio growth is continuous, allowing them to provide competitive advantages and differentiated results for their clients.

Challenge

Aurea wanted to migrate its CRM system to the cloud to

- Reduce expenses
- Simplify operations
- Increase resilience and scalability
- Strengthen security

In this case, the database migration was homogenous – they wanted to migrate the Aurea database, an on-premise MySQL database, to MySQL on AWS.

However, they could not risk losing access to business-critical data during the process; nor did they have the visibility necessary for a smooth transition – they didn't have reliable monitoring or centralized logging capabilities.

DEV GRAPH

Aurea could not risk losing data with a gradual transition, where the on-premise and cloud databases would be working simultaneously, as they had some significant issues:

1) They did not have the time to build a home-grown solution that would allow them to allocate or switch traffic between source and target databases to allow for testing without taking down the application.

2) Their data and application logic were tied closely together, so they couldn't risk application errors – and, again, they had no time to change the application.

Traditional approaches to database migrations take at least six months of effort at high cost and would have put significant stress on the Aurea team, as they would need to switch over, test, and validate during a very short window to ensure that everything moved, and no data was lost. Furthermore, an intense focus on the migration would have prevented the team from focusing on more meaningful work, such as product innovation.

The team did not want to face this burden, so they were trying to find other options.

They explored AWS's Database Migration Service (DMS), but they found that the application had to be fully stopped during the migration process, which could cause many hours of downtime. Once the migration was completed, several steps would have to be performed manually, including changing the application location. Furthermore, the DMS does not migrate the entire schema, requiring manual validation and review of what moved and what didn't – adding hours of extra work.

Ultimately, they wanted a tool that would automate the process without significant downtime or requiring application code changes. Automated migration validation was critical, as the team did not have the resources to go back and validate everything manually. Furthermore, the solution needed to be easy to use, with no learning curve.

"We were surprised at how simple it was.

"We didn't believe it would be possible to migrate everything so quickly – with no data loss – but ScaleArc Cloud Migration made it happen."

Ashish Reddy Konda
Vice President of Engineering, Aurea

Solution

After extensive research, the Aurea team selected the ScaleArc Cloud Migration platform. It gave them a transition step between on-premise and the cloud. ScaleArc sits between the business applications and cloud data, allowing the application to be directed into a single connection no matter the database infrastructure, delivering comprehensive data interaction without downtime or data loss.

ScaleArc "speaks" many SQL dialects, allowing it to dynamically reroute database traffic and analyze and validate queries, ensuring every transaction is recorded. With ScaleArc, the source and destination databases are completely in sync throughout the process thanks to its real-time replication features.
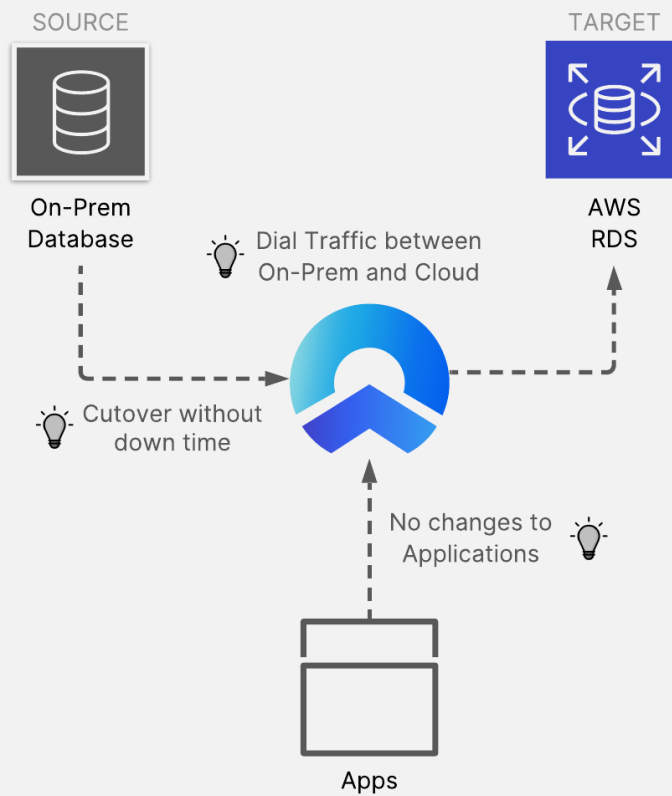
To migrate databases via ScaleArc, the DBA simply needs to provide the source database details and the target database details and the time she wants the application to cut over to the new database. Before migration, it inspects the database and flags any issues that need to be resolved either before or after the migration. Then, everything happens automatically, even the cutover.

"It took us more time to explore the various migration options than it took us to move everything with ScaleArc."

Ashish Reddy Konda

Vice President of Engineering, Aurea

Comprensive, Automated Database Migration to the Cloud with ScaleArc

SOURCE

TARGET

On-Prem
Database

AWS
RDS

Dial Traffic between
On-Prem and Cloud

Cutover without
down time

No changes to
Applications

Apps

SCALEARC

Results

ScaleArc Cloud Migration gave Aurea seamless, comprehensive migration at a lower cost than anything else they explored. It ensured their data was available and accessible throughout the entire migration process – downtime was seconds, not hours. The complete migration itself took less than 30 minutes – versus hours or days.

No code changes were necessary at all – read and write traffic was routed automatically and database-application logic was fully maintained. No disruption occurred whatsoever to the production application.

The built-in load balancer and automated traffic routing ensured that if there had been an issue with migration of part of the database, the DBAs would be able to roll it back quickly and safely.

The entire database moved within minutes, no data was lost, and the application continued running as usual, with enhanced operational efficiency, stronger security, increased resilience and scalability, while achieving significant cost savings.

"Even the one or two minor data compatibility issues took only minutes to fix versus the hours of validation facing us with other solutions.

"The research to identify ScaleArc as the best solution was exhaustive, while, ironically, the actual migration was easy.

"Minor data-compatibility issues were resolved in mere minutes, and we achieved considerable savings over other options."

Ashish Reddy Konda
Vice President of Engineering, Aurea

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