Atriis: Database Migration Done Right

Meet Atriis

Atriis provides a managed travel technology solution that helps corporate agents work together, pool their resources, consolidate their services and offer business travelers optimal opportunities.

Atriis employs 50 personnel in offices located in Yokneam, Israel.

The Mission: Migrating an SQL Server

Atriis commissioned Aztek Technologies to effectively migrate the company's production SQL database, which was located on virtual machines hosted on Amazon Web Services, to Microsoft Azure Managed Instance Service. The goal was to reduce the traffic charges between the company's application, which is hosted on Azure, and the SQL database, which at the time was hosted on AWS.

In addition, the project scope included rehosting all relevant application system components within a unified public cloud provider. Aztek Technologies also planned to provide the Atriis staff with the required knowledge transfer, while advising them on relevant cost and application performance optimization strategies.

The project was led by Tzach Mordechai, Head of Data at Atriis. The work was done with close collaboration with the Atriis team to ensure full compatibility with Atriis needs and business continuity.

Fulfilling a Multi-Step Approach

The Atriis SQL Server migration project was designed in multi-phase fashion. The project's phases included:

1. **Pre-Migration**

As a first step, the Aztek team examined the source environment. This included analyzing the disk space of the source server and the existing database; confirming the data and log

file location of the source server; collecting information regarding database properties, dependent applications and database logins; and checking the database for orphan users, dependent objects and maintenance plans.

After completing the source examination, the Aztek team proceeded to examine the target environments – Azure Managed Instance and Azure Storage Account.

2. Migration

The first step in the migration phase was to halt the database's activity on AWS, including stopping all automatic updates. After stopping the database's activity, the Aztek team created a back-up for the most updated version. This version was recovered on Azure. After the recovery was completed, the team made sure to direct the connection string from AWS to the new Azure environment.

3. Validation

The validation phase covered a wide range of mandatory steps: making sure databases are restored properly; ensuring logins and users are mapped appropriately for both Windows and SQL Server Standard logins; examining SQL Server Services, SQL Server Jobs and SQL Server DTS Packages; examining connection string changes; testing applications for proper functionality; promoting the SQL Server to the production responsibilities; and notifying all users that the company's server is back up and running.

4. Post-Migration

After completing all migration and validation processes, Aztek Technologies proceeded to examine backups, performance, SQL Server Error Logs and feedback from users, in order to determine whether operational and business needs are being met.

5. Project Close Out & Review

And we're done! As part of the final closing phase, all project documentation was formally delivered, and a post-project review was scheduled with the Atriis team, in order to determine and define the next steps moving forward.

Effective Aztek Migration. Superior Azure Results.

As a result of the migration process, Atriis experienced heightened SQL Server performance, due to the proximity between database and key applications. Naturally, this led to shorter application response times.

Migrating the database to Azure allows the Atriis IT team to benefit from simpler, more centralized IT management. This also consolidates service prices, which also leads to less cloud-based expenditures.