

Case Study

Analytics Customer Finds Value in the Cloud



Introduction

The analytics client offers a fraud detection application for insurance carriers and other organizations looking for anomalies in medical transactions.

Challenges

- The analytics client has used the same system for years, which led to several issues as it fell behind the technology curve.
- It used Oracle 10g, an expensive, outdated and unsupported database. The client was unable to support modern features that are necessary for keeping up with the latest fraud detection techniques.
- The lack of support created a major security risk.



Solutions

The client wanted to address their challenges by moving from an on-premises data center to the Amazon cloud. Datavail provided several services to help them upgrade from on-premises to Amazon Web Services.

- Converted databases to PostgreSQL and used Amazon's Aurora PostgreSQL service
- Ensured data remained secure
- Changed the application's data layer and upgraded it to the latest version of NHibernate
- Used manual conversion alongside automated tools to get schema and data to the new databases
- Updated the C# application
- Replaced the Oracle Data Provider with the Npgsql Data Provider
- Verified functionality of all SQL functions

Results

The analytics client saw several significant benefits in several key areas.

- Reduced operational costs
- Decreased maintenance requirements for running the data center
- Boosted the overall performance of the fraud detection application
- Created a more reliable infrastructure capable of meeting the latest in fraud-detection demands by leveraging Amazon Web Services' Aurora PostgreSQL service