Amazon Web Services (AWS) RDS Database Upgrade

Pythian's client was using Oracle Database 11g running in Amazon Web Services' Relational Database System (AWS RDS). When the client needed to upgrade to Oracle Database version 19c, Pythian was asked to implement a winning technical solution. This project was especially challenging because the client required an outage window of less than 30 minutes.

Pythian presented a range of technical options to the client. Collaboratively, some were dismissed based on technical merit, some on risk factors, and some on financial cost. Ultimately, Amazon's Database Migration Service (DMS) was selected for this project.

Pythian developed a client-approved proof of concept and migration plan. The team implemented, tested, and developed process-specific monitoring and alerting to account for dependencies (such as replication lag and anomalies). A fall back strategy was also implemented that provided a customized/unique solution not natively available by the DMS tooling.

The client was extremely satisfied. The database was upgraded from Oracle Database 11g to Oracle Database 19c with minimal downtime, fall-back contingency for a period of time and no application complications.

Outcomes

- Pythian achieved the upgrade with **minimal downtime**, **fall-back contingency**, and **no application complications**.

- Pythian supported the customer in **choosing the optimal solution** by presenting various technical options.

ABOUT PYTHIAN

Founded in 1997, Pythian is a global IT services company that helps organizations transform how they compete and win by helping them turn data into valuable insights, predictions and products. From cloud automation to machine learning, Pythian designs, implements and supports customized solutions to the toughest data challenges.
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