CASE STUDY

SEAMLESS MIGRATION OF TERABYTES OF DATA FROM NETEZZA TO ORACLE FOR A BFSI LEADER

Improved the overall data execution time by 65%

Client Background

Our client is a leader in the banking and financial services domain. The client used Netezza to store customer information. However, as Netezza was going through its end-of-life phase, the client wanted to move its legacy data from Netezza to a different data platform. The migration of terabytes of data had to be executed in a short span of time. The key objectives of the client included:

- Migrate data from Netezza to Oracle.
- Maintain the authenticity and validation of data.
- Automate the migration of the data framework.
- Reduce turnaround time for the data to be migrated.
- Achieve improved productivity and efficiency with migration.

Xoriant Solution | Key Contributions

The client needed a strategic technology consulting partner in choosing the database, migrate its applications – from Netezza to Oracle. Xoriant team experienced in data migration, ETL projects proposed a robust solution that supported the client's business goals. Our key contributions to the client included:

- Development of a simple, robust application that migrated and validated the data from Netezza to Oracle.
- Implementation of various modes like loading data from file, loading data from table, etc. to provide flexibility.
- Ensure the flexibility of running the application in parallel or sequential mode.

KEY BENEFITS

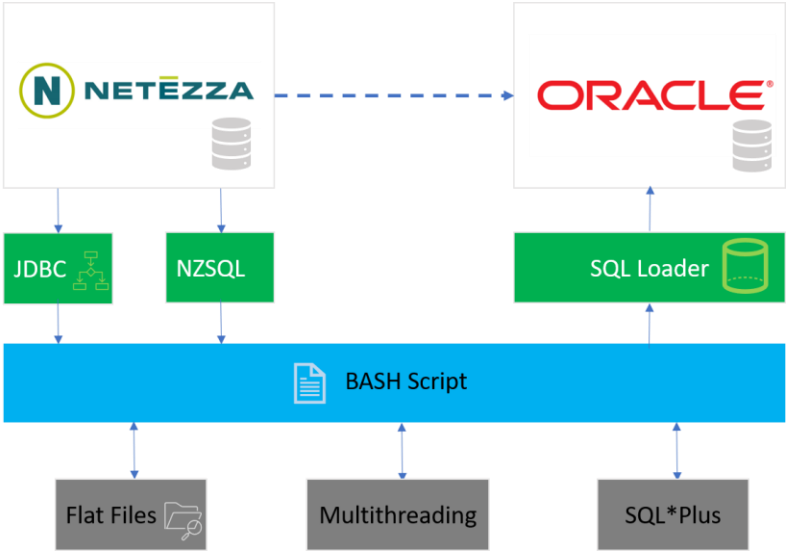
- Improved overall execution time by 65% with the application using multi-threading approach.
- Reduced the data loading time by 80% by dividing the data in chunks and running it in parallel.
- Improved customer satisfaction by providing table mode to single table and file mode for loading tables in bulk.
- Improved reliability of data through robust validation checks.

- Implementation of data partitioning and threading concept in parallel and sequential mode.
- Execution of threading mechanism to optimize execution flow and reduce execution time.
- Ensured robust execution by adding validation checks after migrating the data using SHA-256 cryptographic hash algorithm.
- Added additional customized checks for dual load tables (i.e., same table present in two different databases), valid table name (i.e., table name should not exceed 30 chars), disabling indexes, etc.

Client Testimonial

Xoriant's engineering team developed a comprehensive journey map to ensure a seamless data migration while allowing business continuity. The team demonstrated a strong technology foundation and delivery principles that translated our move to Oracle at speed. With the migration, our data execution time has improved by 65%, reduced data loading time, and improved customer satisfaction.

High Level Architecture



Technology Stack

NZSQL | SQL Loader| SQL*Plus | Bash

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