Netezza to **Snowflake**

CLOUD MIGRATION CHECKLIST

A Step-by-Step Checklist for a Successful Netezza to Snowflake Migration Journey

next PATHWAY

Snowflake is a cloud-based data platform that integrates data warehousing, big data analytics, and data integration. It offers the flexibility to query data on your terms, with both serverless and dedicated options available at scale. Snowflake provides a unified experience for data ingestion, exploration, preparation, transformation, management, and serving, catering to immediate BI and AI needs. For enterprises considering moving their legacy data warehouses and data lakes to the cloud, Snowflake presents a robust and scalable solution that consolidates disparate legacy databases into a single platform, equipped with modern cloud-based tools and analytics.

This checklist outlines the key considerations and steps for migrating legacy **Netezza** databases to **Snowflake**, incorporating the use of Next Pathway's AI-enabled **CRAWLER360™**, **SHIFT Cloud**, and **TESTER™**.

STEP 1: ASSESSMENT

Discover your legacy Netezza warehouse to identify and prioritize the existing legacy database objects to be migrated to Snowflake. Your discovery should include:

- Identifying your Data objects, including key database services such as Data Definition Language (DDLs), database views, and stored procedures.
- Mapping your Data Flows end to end, to visualize all data sources and targets required for migration.
- Identifying the downstream application systems consuming your data and where development and testing may be required.

Top Consideration for Assessments:

- Discovery with Crawler360™: Utilize Crawler360™ to thoroughly scan your Netezza warehouse, identifying data lineage, dependencies, and orchestrations. This tool can also help uncover other database sources and targets that may require migration, consolidation, or removal.
- Compatibility Issues: Identify and document any potential compatibility issues between Netezza and Snowflake. Aim for a 'like for like' migration where possible, and plan for transformation and modernization post-migration.
- ETLs: Evaluate your ETL processes connected to the database to determine their scope for migration. Crawler360™ can assist in understanding the ETL pipelines feeding into Netezza and planning their migration to Snowflake.

STEP 2: DATABASE MIGRATION

Once you have identified all database objects in scope for migration, determine what will be moved and in what order. The key migration activities should include:

- Translating legacy DDLs, views, stored procedures & scripts to Snowflake using Shift Cloud for automated code translation.
- Addressing any exceptions for database functions not supported by Snowflake.
- Unit testing the translation of database objects through code deployment and data validation to remediate any issues prior to final testing, utilizing Tester for comprehensive testing.

Top 3 Considerations for ETL Migration:

- Accuracy: Ensure all required database objects are clearly identified and accounted for prior to translation to avoid surprises or bottlenecks during execution. Shift Cloud can facilitate this process.
- Address Exceptions: Use Shift Cloud to find workarounds for objects that will not run natively in Snowflake.
- Define Priority: Establish the priority of translation so that testing with Tester can commence as soon as the translation is completed

STEP 3: ACCEPTANCE TESTING

Testing is an incredibly important aspect for all migration projects.

Companies must make efforts early in the project to ensure they efficiently test their translated and migrated database objects (DDL's, Views & Stored procedures) prior to cut-over to the cloud for the best results.

- Develop an end-to-end test strategy with Tester to prioritize the data validation of translated database objects.
- Migrate historical data early to evaluate the efficiency of your data migration.
- Utilize Tester to generate test cases automatically based on the discovery findings from the Assessment phase.
- Develop a triage workflow with Tester to address and remediate issues in an expedited manner.

Top 3 Considerations for Acceptance Testing:

- Utilize Tester to develop an end-to-end test strategy that prioritizes data validation of translated database objects.
- Migrate historical data early to assess the efficiency of your data migration process.
- Leverage Tester to automatically generate test cases based on the insights from the Assessment phase, ensuring comprehensive testing coverage.

Next Pathway simplifies the migration process, allowing businesses to transition from legacy Netezza systems to Snowflake with greater ease and efficiency. Their migration platform, which includes CRAWLER360, SHIFT Cloud, and Tester, plays crucial roles in the end-to-end journey of migrating legacy workloads to Snowflake.

CRAWLER360 scans legacy Netezza code bases to capture data lineage, relationships, and dependencies, facilitating efficient planning for consolidation and workload optimization.

SHIFT Cloud automates SQL code translation to Snowflake, expediting the migration process with high coverage.

TESTER automates test case creation and execution for data and code validation, ensuring a smooth cut-over with performance optimization insights.

This comprehensive approach empowers businesses to leverage Snowflake's capabilities for real-time analytics and data-driven decision-making swiftly. With Next Pathway's technology, organizations can reduce costs, minimize technical complexities, and unlock the full potential of Snowflake's high-performance data processing.

Ready to Migrate to the Cloud?

We Can Help!

Our industry-leading migration products provide end-to-end migration automation for enterprises looking to migrate to leading cloud targets like **Snowflake, Azure Synapse, Amazon Redshift** and **Google BigQuery** from legacy EDWs and data lakes, like Teradata, Netezza, SQLServer, and third-party ETL vendors.

SHIFT › Cloud

Contact us today to learn how to accelerate your migration to the cloud.

Book a demo ›

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