

Automated replatforming of Teradata workloads to native Amazon Redshift

VIDEO TRANSCRIPT

Are you planning to modernize your data warehouse workloads from Teradata to Amazon Redshift, but worried about business disruption?

Enterprises are modernizing their data warehouse workloads to Amazon Redshift to leverage cloud scalability, reduce costs, and access advanced analytics.

LeapLogic, Impetus' cloud migration accelerator, can help you achieve this by ensuring an end-to-end automated transformation from Teradata to Amazon Redshift.

Here's a demo of how LeapLogic automates and simplifies the transformation of Teradata workloads to Amazon Redshift – starting with a comprehensive assessment, followed by automated transformation, validation, and all the way up to operationalization.

LeapLogic first conducts a thorough assessment of your existing Teradata workloads, providing you with valuable data-driven insights. It lists the entire inventory and prioritizes use cases that hold the highest business impact. LeapLogic identifies technical debt within your Teradata environment and provides expert recommendations for optimization at schema and orchestration levels.

LeapLogic's comprehensive analysis ensures that your migration journey is meticulously planned and executed. It goes beyond identifying transformation candidates and empowers you with detailed recommendations for each one.

To get more details, you can go to the Analysis section and view key resource utilization metrics for applications and users. LeapLogic's schema optimization recommendations are designed to unleash the true potential of your data warehouse. It provides recommendations for sort key, DIST key, compression encodings, etc. which helps to improve CPU and memory usage, cache hit ratio, and disk I/O, ensuring your data warehouse operates at peak efficiency.

LeapLogic identifies key opportunities for orchestration optimization, streamlining data flow, and eliminating bottlenecks.

You can head to the Lineage section to view all interdependencies between various kinds of workloads, showcasing end-to-end data and process lineage.

In the Recommendations section, you can view suggestions for offloadable workloads and an

optimum future-state functional architecture, ensuring cost-efficiency and scalability.

LeapLogic's detailed reports can be downloaded for offline use, ensuring you have access to critical information at your fingertips.

Now, let's explore how LeapLogic automatically converts Teradata workloads to Amazon Redshift equivalent.

LeapLogic's Teradata to Redshift pipeline transforms all your data warehouse workloads end-to-end to Amazon Redshift. Under the Pipeline section, you can explore various stages of the transformation lifecycle.

The Migration stage converts your Teradata schema to a Redshift-equivalent and seamlessly migrates your workloads into Redshift cloud data warehouse tables. The Data Validation stage meticulously validates and certifies the migrated data, ensuring its accuracy and completeness.

The Transformation stage seamlessly transforms your Teradata code and business logic to Redshift-equivalent code. LeapLogic auto-transforms and maps all keywords, functions, and constructs to Amazon Redshift-compatible code, ensuring that your data warehouse operates efficiently in the cloud.

Presently, Redshift doesn't support functions like Merge with sub-queries, Qualify, and operators like All or Any. LeapLogic follows a unique solution for dealing with unsupported or non-performant patterns on Amazon Redshift. Its intelligent pattern-based transformation engine incorporates target-native best practices and converts the code such that it is optimized, compliant, and easy to maintain.

Here, you can see that all transformed SQL queries and business logic are packaged as production-ready jobs along with the orchestration and execution logic. LeapLogic also provides a compatible package that can be orchestrated and executed as-is on Amazon Redshift.

That's it! You can now download the converted package from LeapLogic, which contains the Amazon Redshift-equivalent code. LeapLogic's unit and integration testing ensure that your transformed code is rigorously validated before productionization.

Next, you can simply log-in to your AWS portal, initiate the Redshift service, and import the transformed code. Subsequently, you can connect to a database to run queries.

Here, you can see that the legacy constructs, functions, and keywords have been transformed into Redshift-native equivalent, which can optimally run on Amazon Redshift.

You can simply execute the transformed code and view its output.

LeapLogic streamlines your migration journey, ensuring a successful transformation of legacy Teradata workloads to Amazon Redshift.

Explore LeapLogic's automation capabilities for the end-to-end transformation of data warehouse, ETL, Hadoop, analytics, and reporting systems to an AWS-native stack – faster, at a lower cost, and with minimal risk.

It's more than the next step. It's a leap into the future of your business.