



Automated workload transformation from Teradata to Databricks

VIDEO TRANSCRIPT

LeapLogic eliminates the slow, error-prone, expensive practices of manual migration and automates end-to-end enterprise data warehouse transformation. We bring all the pieces of the puzzle together so that your journey to a cloud-native stack is fast, affordable, and risk-free.

Here's a demo of how LeapLogic simplifies the migration of Teradata legacy workloads to Databricks Lakehouse.

It first assesses the existing Teradata files, queries, and entities, and provides data-driven insights.

It identifies technical debt and provides optimization recommendations for Databricks Lakehouse at the schema, code and orchestration level.

LeapLogic also provides recommendations for transformation candidates.

Here are key resource utilization metrics for applications.

Here are key resource utilization metrics for users.

These are schema optimization recommendations to improve CPU and memory usage, cache hit ratio, and disk I/O.

LeapLogic identifies anti-patterns in the legacy code and rectifies them based on Databricks coding methodologies and standards. It also identifies workloads that need complete refactoring.

Here are some opportunities for orchestration optimization.

This shows all interdependencies between various kinds of workloads, along with end-to-end data and process lineage.

LeapLogic provides recommendations for offloadable workloads as well as an optimum future state functional architecture.

Detailed reports can be downloaded for offline use.

LeapLogic's Teradata to Databricks transformation pipeline transforms all the data warehouse workloads end-to-end to Databricks Lakehouse.

These are the different stages of the transformation lifecycle.

The Migration stage converts the schema to a target-equivalent and migrates the data into Databricks Delta tables.

The Transformation stage transforms, validates and certifies the Teradata code and business logic to Databricks Lakehouse equivalent code.

It auto-transforms and maps all the keywords, functions and constructs to Databricks Lakehouse compatible code.

LeapLogic also provides a notebook-based inline query editor for further optimization.

All SQL queries and business logic are transformed successfully and packaged back as production-ready jobs along with the orchestration and execution logic.

LeapLogic provides a target-compatible package which can be orchestrated and executed as-is on

Databricks Lakehouse.

Let's download the converted package which contains the Databricks Lakehouse-equivalent code.

Next, we log in to the Databricks portal and import the transformed code. The legacy constructs, functions and keywords have been transformed into Databricks-native equivalent, which can optimally run on Databricks Lakehouse.

Let's execute the transformed code.

We can see multiple Spark jobs successfully executed on Databricks Lakehouse. LeapLogic's holistic approach further includes validation and operationalization of migrated workloads on Databricks.

For over a decade, we've helped Fortune 100 companies take data-driven decisions with absolute confidence and drive powerful business outcomes they'd never even imagined.

We can guide you through this process, starting with an assessment and proof of concept to build the foundation for a successful project. Our support model is flexible based on your needs, ranging from providing transformed and validated code up through end-to-end transformation services. We're here to accelerate your modernization journey.