Intelligent and automated data platform and workloads modernization to Snowflake

Auto-migrate ETL, EDW, analytics, and Hadoop workloads

Modernizing legacy workloads to a cloud-based data platform like Snowflake provides a decoupled data architecture, eliminates the need for complex remodeling, and facilitates unified data across hybrid sources.

Enterprises moving to Snowflake can experience benefits such as full SQL support, serverless architecture, strong partnerships with BI and ETL tools, and ease of maintenance. However, moving workloads from legacy environment to Snowflake has multiple challenges like:

- Risk of business disruption
- Inadequate, out-of-sync, or missing documentation of legacy systems
- No insight into usage, complexity, and dependencies across workloads and environments
- Uninformed decision-making without proper data-driven assessment and recommendations
- Risk of losing business logic and legacy code during conversion
- Meeting the SLAs using Snowflake services while keeping the price-performance ratio in control
- Huge manual effort that turns costly with overruns and inefficiency

LeapLogic, an Impetus product for automated workload transformation, addresses all these concerns. Its intelligent grammar engine identifies optimization opportunities at schema, code, and execution levels and automatically converts all types of workloads, logic, and workflows to Snowflake-native stack.
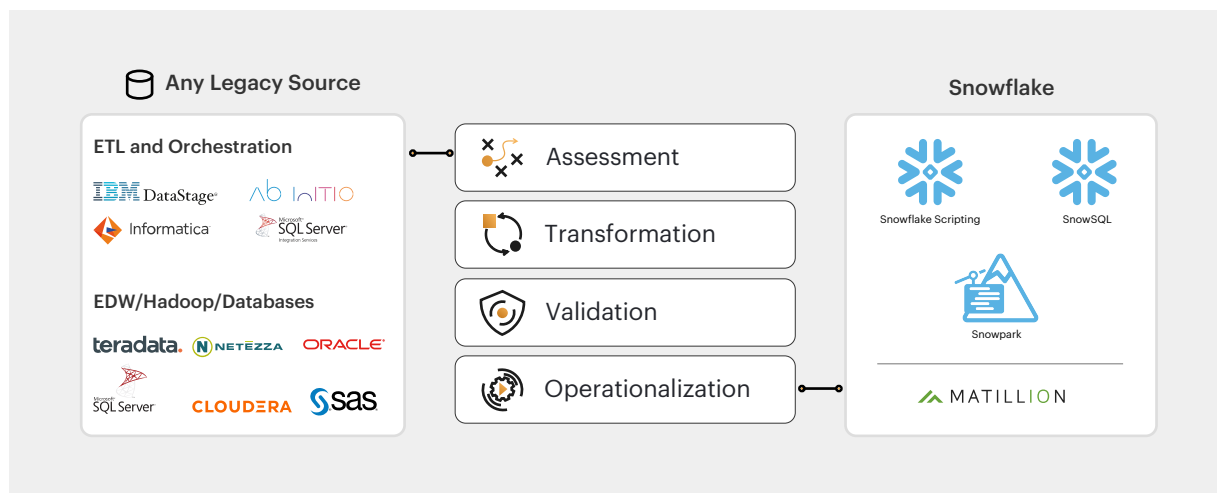
Key Benefits

Compared to traditional approaches, LeapLogic enables:

- **4x** faster transformation
- **1.5x** faster validation
- **2x** cheaper than manual migration
- **50%** migration acceleration
- **100%** risk compliance
- **100%** SLA adherence

How it works

LeapLogic enables end-to-end transformation, operationalization, and transitioning of workloads in four steps:

STEP 1: Assessment

- Integrated assessment for several workload types
- Comprehensive inventory listing
- Workload prioritization as per the business use case
- Dependency analysis
- Advanced blueprint of Snowflake stack
- Optimization opportunities for schema, code, and orchestration
- Prescriptive recommendations
- Phased migration plan with timelines and cost estimates

STEP 2: Transformation

- Intelligent grammar engine supporting a variety of workloads and formats
- End-to-end transformation, packaging, and orchestration to Snowflake-native format
- Notebook-based inline editor for query optimizations
- Delivers a verified, executable package with performance SLAs met
- Extensible, repeatable, and verifiable methodology
- Inherent performance tuning and optimizations for optimum performance on Snowflake

STEP 3: Validation

- Pipeline-based automated validation
- Data-driven code validation
- Automated SQL/query and data-level validation
- Cell-to-cell validation reports
- Data type and entity-level matching
- Auto-generation of reconciliation scripts

STEP 4: Operationalization

- Training, documentation, and hand-holding
- Productionization and go-live
- Infrastructure as code
- Execution using Snowflake-native services
- Automated DevOps, including CI/CD
- Target environment stabilization
- Smooth cut-over

Enterprise success story

LeapLogic has helped several large enterprises transform their workloads to the cloud while preserving years of business logic, workflows, and execution rules

Hadoop modernization to Snowflake enabled a single source of truth

Migrated 800+ production-grade Hive scripts with 75% automation in less than 2 months

READ MORE ↗

Watch LeapLogic in action

Automated workload transformation from SAS to Snowpark ▶

Automated workload transformation from Spark and Hive to Snowpark ▶

Automated workload transformation from Oracle to Snowflake ▶

Automated workload transformation from DataStage to Snowflake ▶

Start your end-to-end workload transformation journey to snowflake! To learn more, write to us at **info@leaplogic.io**