

# Automated transformation to cloud-native or on-premise modern platform

For ETL, data warehouse and analytics

Modernizing legacy ETL and analytics to the cloud has become a strategic imperative for enterprises struggling with petabytes of unstructured and fast data from multiple sources, and high cost of ownership and operation.

However, enterprises are still skeptical about moving to the cloud. While transforming workloads to the cloud seems easy, businesses have several concerns:

- Will there be any business downtime?
- How do I transform years of complex business logic and code?
- Will my workloads be optimized for the new environment?
- Do I need to identify and prioritize workloads manually?
- How do I ensure seamless operationalization of ETL and analytics workloads on the target environment?

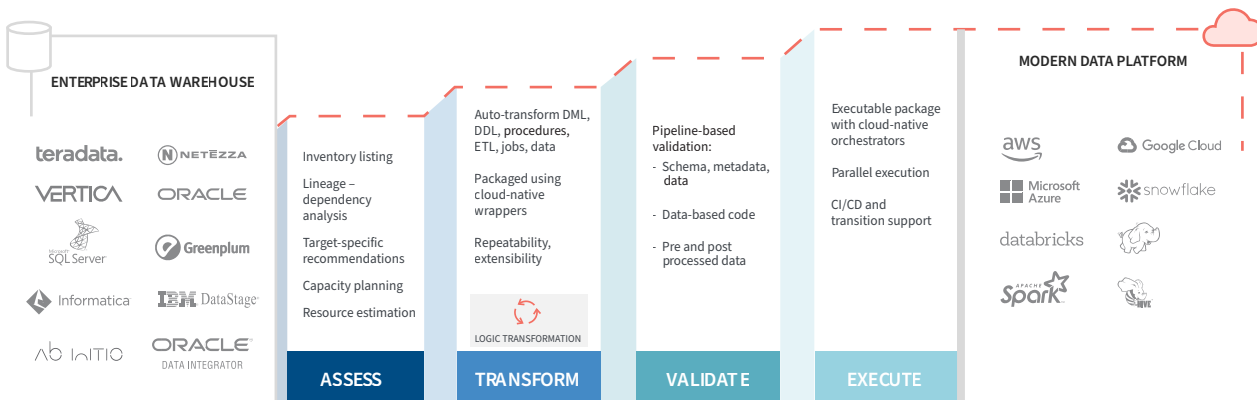
The Impetus Workload Transformation Solution addresses all these concerns. Its intelligent grammar engine identifies optimization opportunities at schema, code, and execution level and automatically converts all types of workloads, logic, and workflows to a cloud-native stack of your choice.

## KEY BENEFITS

- **4x** faster
- **2x** cheaper
- **4x** developer productivity
- **100%** cloud-ready
- **100%** automation across the migration lifecycle

## How it works

The Impetus Workload Transformation Solution enables end-to-end transformation, operationalization, and transitioning of workloads in four steps:



## Assessment and prescription

- Lists entire inventory for diverse workloads
  - Assesses ETL scripts, DML and DDL scripts, procedures, scheduler/orchestrator scripts (jobs), etc.
  - Provides actionable insights and prescriptive recommendations
- Identifies complex interdependencies to group workloads for offload
  - Plots an end-to-end lineage showing interdependencies between different kinds of workloads
  - Provides advanced filters according to workload type and an interactive graphical interface to deep dive into certain flows
- Advanced blueprinting of target architecture
  - Strategizes partitioning, bucketing, clustering, sorting, and distribution keys for improving CPU usage, memory usage, cache hit ratio, and disk I/O
  - Provides comprehensive, configurable recommendations for workload parallelism to ensure optimum performance on target
  - Provides actionable recommendations for future-state functional component architecture and tech stack components

## Transformation

- Transforms diverse workloads and migrates schema and data to the target store of choice
  - DML scripts, DDL scripts, ETL scripts, scheduler scripts, stored procedures, etc.
- End-to-end packaging
  - Transforms core business logic to cloud-native wrappers or orchestrators
  - Re-packages to an open programming language of choice
  - Ensures end-to-end transformation of scheduler/orchestrator scripts to production-ready jobs on target
  - Ensures end-to-end execution on staging and production environments after system integration testing
- Notebook-based inline editor
  - Inline query editor to address errors or apply any optimization
- Extensible tool and methodology
  - Extensible, repeatable, and verifiable methodology
  - Converts code to a variety of target stores and formats, enabling enterprise-wide use

## KEY FEATURES

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- ML-based assessment and recommendation for the target architecture and tech stack
- Business logic conversion
- End-to-end transformation to cloud-native services of your choice
- End-to-end packaging, orchestration, and execution for the target
- Code optimization and query validation to avoid business disruption
- Automated legacy code translation to a cloud compatible equivalent with multiple query engine support
- Cost-performance ratio optimization
- Data governance and security compliance

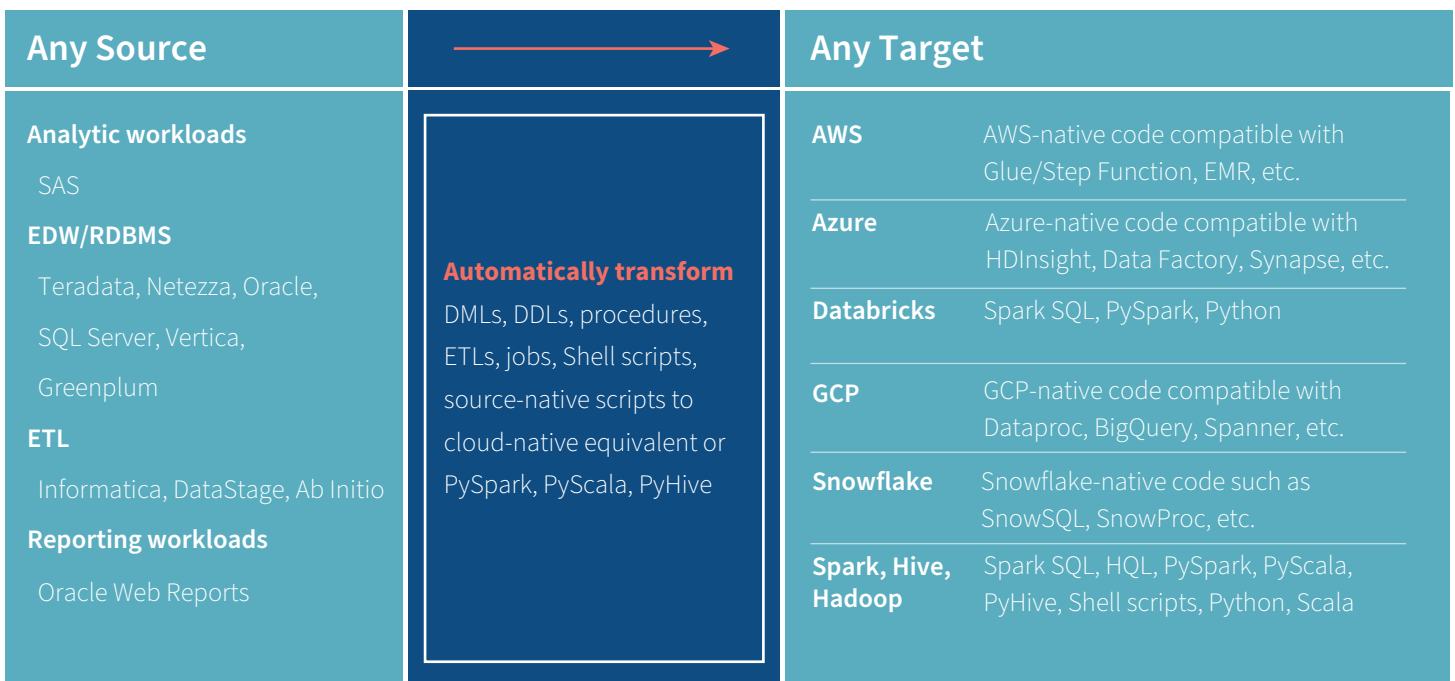
## Validation

- Pipeline-based automated validation of the transformed code
  - Validates code at the row and cell-level and reports errors
  - Instantly verifies the transformed code with a pluggable validation tool
- Data-based validation of transformed code
  - Auto-generates sample dataset based on complex query conditions – ideal for unit testing of the transformed queries
  - Feeds the customer-provided dataset for testing on real datasets – suitable for integration testing of the transformed queries

## Execution

- Delivers a target-specific executable package
  - Cloud-native orchestration and execution on production
- Ensures optimal performance through parallel execution
  - Provides parallel execution recommendations through exhaustive data-driven assessment
  - Generates required artifacts in the transformation output
  - Executes the generated artifacts in parallel on production
- Supports operationalization
  - Supports end-to-end transitioning into production and operationalization
  - Optimizes capacity
  - Stabilizes environment through parallel-run period
  - Ensures implicit data governance and compliance on the cloud
  - Ensures continuous integration and delivery
  - Monitors operations
  - Provides runbook documentation, training, and handholding

Support your multi-cloud, cloud-to-cloud, and hybrid architecture strategy



# Enterprise success stories

The Impetus Workload Transformation has helped several large enterprises transform their workloads to the cloud while preserving years of business logic, workflows, and execution rules.

## **Cable television giant accelerates and de-risks workload transformation using automation**

Enhances productivity by automating transformation of complex Netezza procedures to a big data platform

[Read more](#)

## **Automated assessment and transformation of Informatica workflows and Oracle EDW to AWS**

~80% auto-conversion to save 50% cost and time compared to manual transformation

[Read more](#)

## **Telecom giant saves millions with automated Teradata transformation to modern data platform**

Releases 20% Teradata capacity by migrating 1000 BTEQ scripts containing 16,000 queries, 750 mLoad, TPT, and FExp scripts

[Read more](#)

## **Automated Netezza to cloud transformation**

End-to-end transformation of workloads from Netezza to a modern data lake architecture on AWS

[Read more](#)

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# Start your end-to-end workload transformation journey today!

To learn more, write to [inquiry@impetus.com](mailto:inquiry@impetus.com)

## **IMPETUS**

Impetus Technologies is focused on enabling a unified, clear, and present view for the intelligent enterprise by enabling data warehouse modernization, unification of data sources, self-service ETL, advanced analytics, and BI consumption. For more than a decade, Impetus has been the 'Partner of Choice' for several Fortune 500 enterprises in transforming their data and analytics lifecycle. The company brings together a unique mix of software products, consulting services, and technology expertise. Our solutions include industry's only platform for the automated transformation of legacy systems to the cloud/big data environment and StreamAnalytix – a self-service ETL and machine learning platform.

To learn more, visit [www.impetus.com](http://www.impetus.com) or write to [inquiry@impetus.com](mailto:inquiry@impetus.com).