Intelligent and automated AutoSys modernization to Amazon MWAA

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Enterprises handle massive data warehouse, ETL, and analytics workloads, orchestrated through native tools and schedulers such as AutoSys, Control-M, etc. Except for ad-hoc queries, every piece of code, job, or script running in the production is orchestrated through an enterprise orchestrator. However, migrating legacy orchestration programs to Amazon Managed Workflows for Apache Airflow (MWAA) manually can be complex, tedious, and risky. Enterprises need to identify technical debt, optimize the price-performance ratio as per general and target-native best practices, and transform to Amazon MWAA in the fastest and most efficient way possible.

LeapLogic simplifies the end-to-end transformation process and automatically converts legacy AutoSys orchestration workloads to Amazon MWAA. Its powerful transformation engine assesses the entire inventory and identifies code complexities and dependencies to create a phased migration plan. Additionally, LeapLogic identifies optimization opportunities at the orchestration level. It suggests interdependent jobs which could run in parallel rather than sequential, optimizing the overall orchestration process to a great extent.

Key Benefits

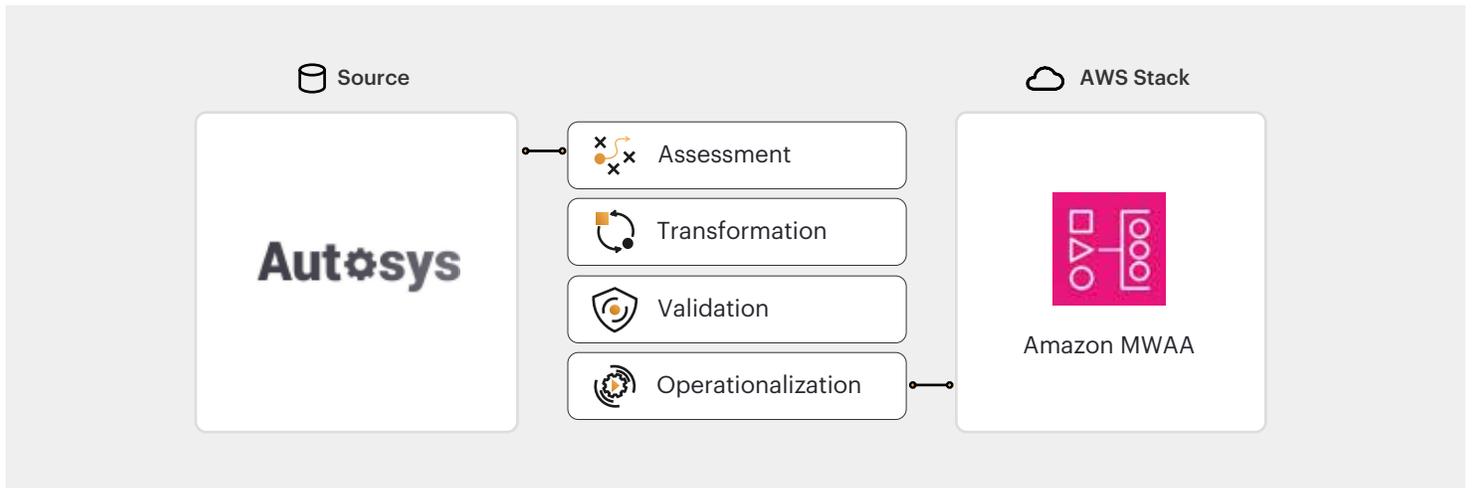Compared to traditional approaches, LeapLogic enables:

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

Automate workload transformation from AutoSys to Amazon MWAA

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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 cases
- Extensive dependency analysis at job and box level
- Advanced blueprint of target architecture
- Optimization opportunities for orchestration – parallel execution of independent jobs
- Phased migration plan with timelines and cost estimates

STEP 2: Transformation

- Intelligent grammar engine supporting complex constructs and custom functions
- End-to-end transformation, packaging, and orchestration on Amazon MWAA
- Delivers a verified, executable package with performance SLAs met
- Deployment of executable packages on the target cloud environment
- Preservation as well as optimization of core business logic
- Extensible, repeatable, and verifiable methodology
- Easily integrate and orchestrate AWS Glue jobs using your MWAA orchestration jobs
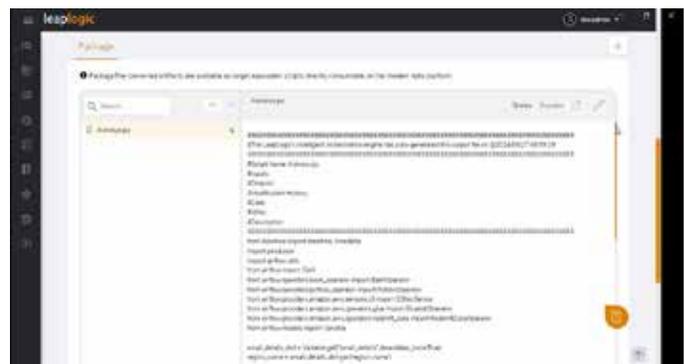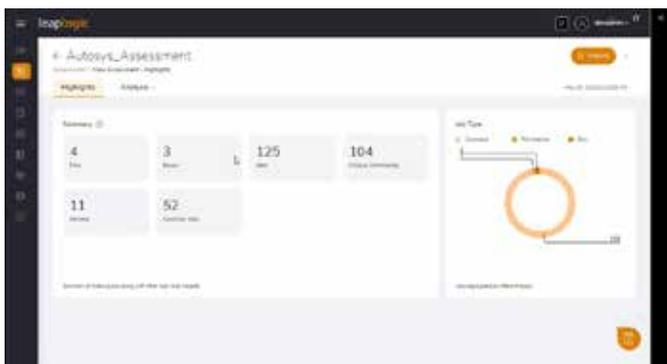

Figure 1: LeapLogic's automated assessment and transformation of AutoSys workloads

STEP 3: Validation

- Pipeline-based automated validation on diverse datasets and complex orchestration logic
- Auto-generation of reconciliation scripts
- Automated data-level validation
- Cell-to-cell validation reports
- Data type and entity-level matching

STEP 4: Operationalization

- Productionization and go-live
- Infrastructure as code
- Job execution using Amazon MWAA orchestrator, for instance, AWS Glue jobs.
- Automated DevOps, including CI/CD, etc.
- Orchestration stabilization on Amazon MWAA
- Smooth cut-over
- Documentation, training, and handholding

LeapLogic is built to efficiently assess, migrate, validate, and move complex workloads from legacy systems to Amazon MWAA. Based on a sophisticated grammar engine capable of transforming the most complex functions, this automated conversion helps enterprises streamline their modernization journey with advanced analytics and business growth.

Explore resources to support your transformation initiatives

WHITE PAPER

Future-proofing orchestration: Automated, risk-free migration from AutoSys to Amazon MWAA

DOWNLOAD NOW

EXECUTIVE OVERVIEW

How LeapLogic automates end-to-end transformation of AutoSys workloads to Amazon MWAA

LEARN MORE

To automate the transformation of AutoSys workloads to Amazon MWAA, write to us at **info@leaplogic.io**

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