AUTOMATED SAS WORKLOAD TRANSFORMATION TO CLOUD

Transform Your SAS Workloads to a Modern Cloud Platform

Automate and Accelerate Your Transition from SAS to Cloud

A growing number of enterprises are looking to reduce their dependence on the SAS platform. Typically, as much as 80% of the processing and capacity of SAS is comprised of data prep/ETL workloads. Enterprises can reduce costs and improve efficiency by leveraging Spark within on-premise data lakes or cloud platforms.

The Impetus Workload Transformation Solution revolutionizes SAS migration by providing an accelerated solution to the manual approach. Further, it can help enterprises looking to transform their SAS workloads to R or Python by identifying the right data movement and transformation workloads for migration. The solution simplifies the process through a comprehensive methodology that seamlessly executes the following steps:

- The engine automatically transforms all predetermined translatable patterns. At rollout such patterns could feasibly include most DATA subroutines and all the embedded SQLs.

- The output from the engine would then pass through manual checking where any untranslated portions as well as translation errors would get handled.

- Over the course of the manual intervention, any further syntax patterns that are uncovered will get fed back into the engine's translation templates to ensure continuous improvement of the accuracy and completeness of the automated translation.

- Migrated programs would then undergo validation and user testing and added to a version control system.

KEY BENEFITS

- Reduced TCO

- Reduced dev, validation, and testing cycle

- Faster time-to-market

- More scalable and flexible target cloud platforms such as AWS, Azure or GCP

- An automated solution to the manual migration approach

The 4-step approach to SAS migration

STEP 1: ASSESS
Assess the usage pattern
- ETL usage - SQL + SAS procedural
- SAS procedural/statistical
- SAS advanced algorithms

STEP 2: MAP
Map conversion target for each usage pattern
- Identify the right target platform/tool

STEP 3: CONVERT
Convert and validate using automation accelerators
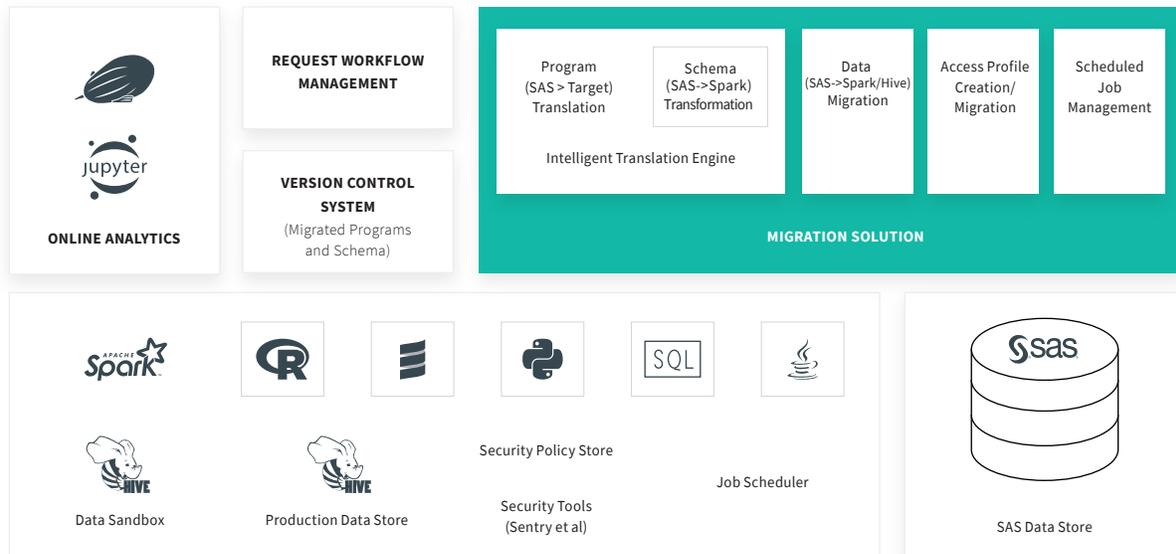- Use a staggered approach

STEP 4: ONBOARD
Transition users on new platform
- Train and ensure user same comfort level

KEY FEATURES

- Offload data from SAS native storage to Apache Hive/Spark-based storage

- Create channels for SAS data stores to be used as source and sink for Hive/Spark

- Migrate production SAS jobs to a job scheduling framework over big data cloud platforms such as AWS, Azure or GCP

- Create capabilities for continuous migration of SAS programs as per user requests

- Integrate an online analytics tool with Hive/Spark to allow for ad hoc analytics

- Comply with security and governance requirements of the organization

ONLINE ANALYTICS

REQUEST WORKFLOW MANAGEMENT

VERSION CONTROL SYSTEM
(Migrated Programs and Schema)

Program (SAS > Target) Translation | Schema (SAS->Spark) Transformation | Data (SAS->Spark/Hive) Migration | Access Profile Creation/ Migration | Scheduled Job Management

Intelligent Translation Engine

MIGRATION SOLUTION

Data Sandbox | Production Data Store | Security Policy Store | Security Tools (Sentry et al) | Job Scheduler | SAS Data Store

The SAS Workload Transformation Solution