



SAS2PY Platform Overview

SAS2PY is the industry's first fully on-premise, parser-driven **IBM DataStage** migration and transformation platform. Purpose-built for organizations modernizing legacy DataStage environments—including parallel jobs, sequences, shared containers, and ETL workflows—SAS2PY transforms these pipelines into modern, cloud-native formats optimized for **Snowflake, Databricks, BigQuery, Redshift, Azure Fabric, and DBT**.

With unmatched accuracy, security, and speed, SAS2PY helps organizations reduce risk, control cost, and accelerate their modernization timeline.

What Makes SAS2PY Different

- **Parser-Driven DataStage Conversion**
No AI hallucination—every DataStage component is parsed, transformed, and fully auditable.
- **Secure On-Premise Deployment**
Run entirely within your infrastructure (on-prem or VPC). No code or data ever leaves your environment.
- **Full Metadata & Transformation Preservation**
DataStage sequences, reusable jobs, parameters, and schema mappings are intelligently retained and mapped.
- **Built-In Execution Layer**
Execute migrated workflows natively in Snowflake, Databricks, and other platforms using visual controls.
- **(Optional) Merlin AI Developer Assistant**
Real-time AI guidance for debugging and optimizing DataStage-to-modern transformations.
- **Comprehensive Validation & Matching**
Validate schema, data, and logic with row-level and partitioned comparisons across platforms.

End-to-End DataStage Migration Process

1. Analyze

- Automatically inventories DataStage jobs, stages, containers, and dependencies
- Maps parameters, variable files, schemas, and data sources
- Prioritizes migration efforts by complexity and impact

2. Convert

- Converts DataStage logic into Python, SQL, and modern pipeline formats (e.g., DBT, PySpark)
- Retains business logic and mappings with minimal refactoring
- Produces clean, production-ready code for cloud platforms

3. Validate

- Confirms schema alignment and transformation accuracy
- Performs output comparisons between DataStage and target systems
- Supports full regression and functional testing

4. Execute

- Enables direct execution in Databricks, Snowflake, and other environments
- Includes job versioning, scheduling, and packaging features
- Supports DAG-based orchestration

5. Data Matching

- Validates row counts, aggregates, and calculated KPIs
- Performs partition-based checks by date, region, or customer segments
- Aligns source and target schemas automatically

6. Document

- Generates audit-ready migration reports
- Provides end-to-end data lineage, code annotations, and transformation traceability
- Ensures rollback visibility for compliance and governance





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Automated Schema Mapping

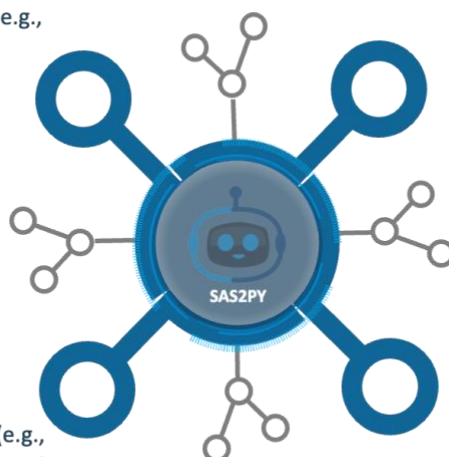
Automatically maps source schemas (e.g., **SAS, Oracle, Teradata**) to the target system for fast and efficient setup.

Metadata Comparison

Compares metadata (e.g., **table structures, indexes**) between the source and target systems to ensure complete structural alignment.

Data Type Validation

Ensures accurate translation of column types (e.g., numeric, string, date) into formats compatible with the target system, eliminating type mismatches.

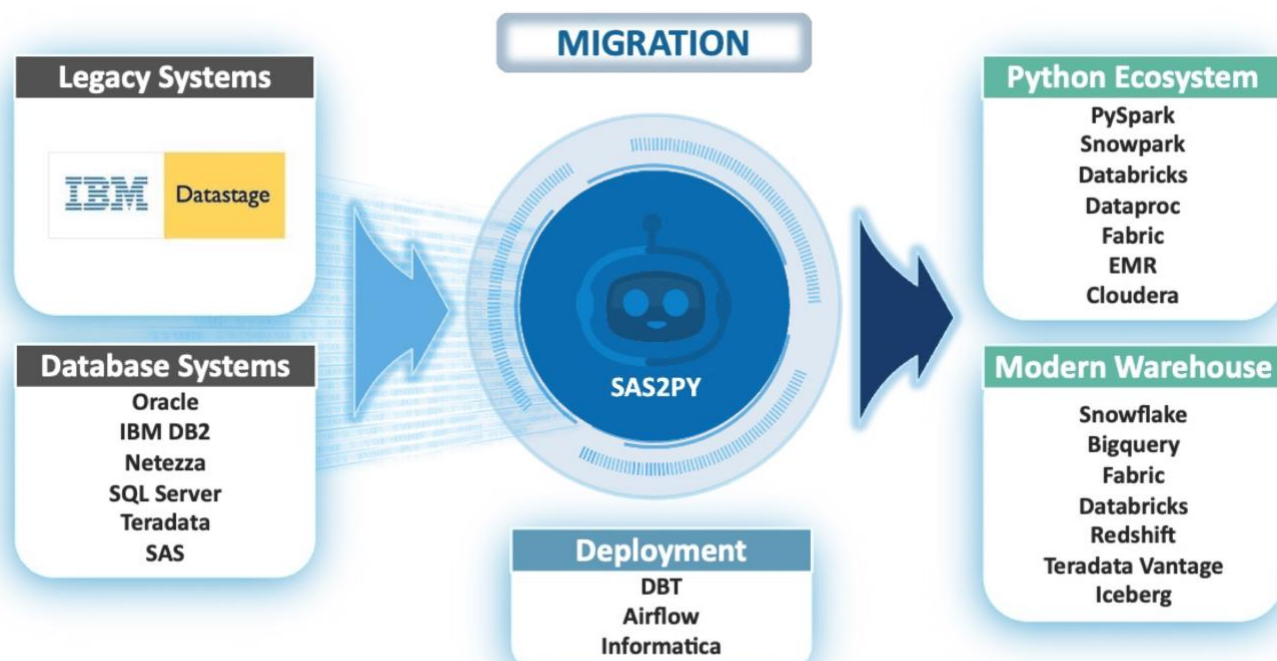


Metrics Comparison

Validates key metrics (**counts, sums, averages**, etc.) between source and target systems to confirm data accuracy.

Partitioned Validation

Performs aggregate checks by **partitions** (e.g., **date, region**) to ensure data consistency within subsets.



Migrate Smarter. Analyze Faster. Transform with SAS2PY.

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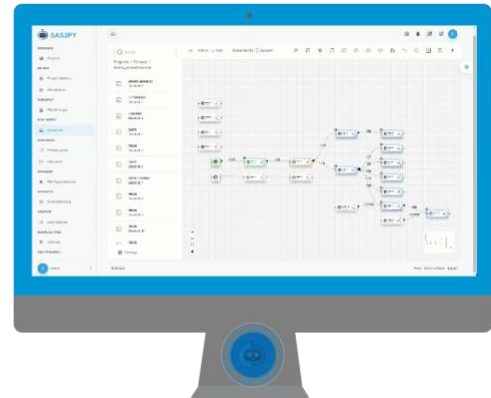


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Code/Data Lineage

End-to-End Code Lineage: SAS2PY automatically maps dependencies across all workflows, ensuring **100% traceability** before, during, and after migration.

Clickable Lineage Exploration: Users can **click on any dataset, transformation, or script** to immediately view the original code alongside its migrated equivalent.



Legacy Code Preservation & Full Auditability: Every **original script** remains **fully viewable, traceable, and auditable**, ensuring **long-term historical reference and compliance validation**.

Merlin AI – The Developer Assistant (Optional)

Merlin AI is a GenAI developer assistant for developers and data engineers working with migrated code. Built directly into the SAS2PY platform, Merlin supports:

- Real-time debugging and transformation assistance
- Auto-rewrite of SQL and Python blocks for optimization
- Error tracebacks, logic flow explanations, and quick fixes
- GenAI-enabled context-aware chat for specific code inquiries
- On-premise optional for security-sensitive environments

Enterprise-Grade Data Matching & Validation

SAS2PY includes a powerful data validation engine to ensure consistency and trust throughout your migration:

- **Automated Schema Mapping:** Aligns source and target columns and formats
- **Data Type Normalization:** Ensures compatibility across platforms
- **Metadata Comparison:** Verifies structures, indexes, and dependencies
- **Metric Validation:** Confirms row counts, aggregates, and KPI accuracy
- **Partition-Level Checks:** Detects mismatches by date, region, or business slice

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Deployment Options & Infrastructure

- Deploy within your infrastructure or in the cloud – you decide
- Docker-based delivery; compatible with AWS, Azure, GCP, on-prem VMs
- Standard Instances: AWS m5.2xlarge, Azure D8s v3, GCP n2-standard-8
- No data or logic ever leaves your environment

Licensing & Engagement Options

- **Volume Pricing** Tiered by LoC (lines of code) and platforms migrated
- **Proof of Concept (PoC)** 4-week paid PoC
- **Partner-Friendly** We work with many SI's, technology partners and cloud migration partners

Take the Next Step in Digital Transformation

SAS2PY is the world's most secure, flexible, and automated legacy modernization platform built to meet the needs of large enterprises across regulated, data-intensive industries. Whether modernizing IBM Datastage code, rebuilding ETL pipelines, or migrating entire platforms to the cloud, SAS2PY accelerates your path forward while reducing risk and cost.

Schedule a Demo: www.sas2py.com | sales@sas2py.com

