

Mainframe Migration & Modernization With Streaming Agents

Modernize & Migrate Your Mainframe Data With Improving + Confluent

The Challenges of Legacy Mainframe Systems

Mainframes continue to serve as the foundational backbone for mission-critical operations in industries such as banking, healthcare, insurance and the public sector. However, these legacy systems present significant hurdles in a cloud-first, real-time environment. Enterprises currently face **escalating maintenance costs and restrictive vendor lock-in that stifle flexibility**.

Furthermore, traditional batch-based architectures lack the scalability and automation required to meet dynamic business demands. Technical barriers, such as proprietary formats like IMS, VSAM, and COBOL, create integration complexity that hinders interoperability with modern platforms. This is compounded by a shrinking talent pool of mainframe specialists, which increases operational risk.

Ultimately, the inability to support real-time data needs delays critical decision-making and prevents organizations from fully leveraging advanced analytics and AI.

Mainframe Migration With Confluent's Streaming Agents

Improving's Mainframe Migration Service is designed to address these challenges by unlocking your mainframe data and integrating it seamlessly with modern platforms. By utilizing Confluent's Streaming Agents platform, we enable organizations to transition toward real-time streaming and event-driven architectures.

Our **Mainframe Migration** offering features the following:

Real-Time Streaming Pipelines: Utilize Change Data Capture (CDC) and Kafka Connect to offload and stream data directly from mainframes.

Connector Development: Custom deployment and building of connectors for IBM DB2, MQ, COBOL, and other specialized mainframe technologies.

Cloud-Native Architecture: Support for migrating to Confluent Cloud or Platform with full hybrid and multi-cloud capabilities.

Event-Driven Design: Implementation of modular, reusable data flows that support agile development and CI/CD practices.



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What is Confluent's Streaming Agents Platform?

Confluent's **Streaming Agents** platform allows organizations to build, deploy, and orchestrate event-driven agents natively on Apache Flink® and Kafka®. This enables intelligent, real-time automation across complex enterprise workflows. Streaming Agents transform brittle, isolated prototypes into production-ready, event-driven multi-agent systems. This shift accelerates AI adoption and empowers enterprises to take full advantage of their legacy mainframe data in real-time.

Strategic & Operational Benefits

Modernizing your mainframe infrastructure with Improving and Confluent delivers measurable advantages across the enterprise:

- **Cost Efficiency:** Significant reduction in MIPS and IOPS costs by offloading intensive batch processes.
- **Scalability & Access:** Dynamically scale data pipelines to meet demand while providing teams with self-service access to real-time data.
- **Seamless Integration:** High-speed connectivity across AWS, Azure, GCP, Snowflake, and Databricks.
- **Compliance & Governance:** Robust observability, lineage tracking, and schema validation to ensure policy enforcement in regulated industries.

Why Trust Improving?

Improving brings proven and award-winning expertise in data engineering, integration, and streaming to all of our engagements. As an **Elite Systems Integrator** and **Enablement Partner of The Year (AMER)** for Confluent, we maintain strong strategic alliances with AWS, Google Cloud, and Microsoft to ensure seamless cross-platform integration and implementation of your data streaming solutions. Through our solutions and expertise with partners such as Confluent, we have had a transformative impact on clients in finance, healthcare, insurance, manufacturing, energy, and retail sectors, providing end-to-end support from initial architectural assessments to implementation and optimization of data streaming solutions.

Reach out to to kickstart your mainframe migration journey today!