Shift Left, Scale Right: Boosting Data Efficiency and Scalability With Flink
Elevating Enterprise Real-Time Data Streaming with Confluent & Apache Flink

The Challenges of Data Streaming

In 2025, enterprises face significant and increasingly complex challenges in managing and utilizing their data. Issues such as data quality, redundancy, accuracy, and complexity are prevalent, leading to increased costs and inefficiencies. Traditional ETL pipelines often struggle to keep up with the demands of real-time data processing, resulting in long time-to-value and missed opportunities for timely insights. According to Gartner, poor data quality costs organizations an average of $15 million per year. However, enterprises are embracing a Shift Left approach to elevate their data streaming and data integration strategies.

The Benefits of a Shift Left Data Integration Approach

Shift Left in data integration involves moving data processing and governance closer to the source of data generation. This approach helps enterprises overcome the challenges highlighted previously by reducing costs, saving time, and increasing efficiencies. By cleaning and processing data earlier in the data lifecycle, organizations can avoid the complexities and inefficiencies of traditional data management methods. At Improving, we utilize the Shift Left approach to help our clients achieve consistent, reliable, and timely access to their important business data. Our expertise in real-time event-streaming architectures, Confluent platform, and Apache Flink ensures your data integration strategies are optimized for real-time processing and decision-making.

Why Trust Improving As Your Data Streaming Partner?

At Improving, we are a **Confluent Elite Systems Integrator** and one of a few Premier Partners worldwide. Our goal in partnering with Confluent is to deliver enterprise data solutions that help you easily identify and use quality data. Our partnership with Confluent allows us to deliver resilient event-streaming architectures and solutions that transform the way our clients operate. We have extensive experience in designing, deploying, and optimizing Confluent's real-time data streaming platform to meet the diverse and unique business needs of organizations spanning various industries. Our team of certified Confluent professionals is dedicated to helping you stay agile, scale effortlessly, and unlock new opportunities for innovation with your data. Our industry-specific data expertise spans the following services and solutions:

Our Modern Data Services & Solutions

- Data Integration & Migration
- Data Engineering
- Data Warehousing
- AI & Machine Learning Solutions
- Data Analytics Solutions
- Training

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Shift Left Use Cases

Shift Left offers an exciting opportunity for enterprises to reduce cloud data warehouse costs, analyze real-time data streams on the fly, modernize their data warehouses, and implement headless data architectures. Additionally, Confluent Platform for Apache Flink® brings support for Apache Flink® to Confluent Platform, enabling high-performance and efficient stream processing at any scale. With Confluent's fully managed Flink offering, enterprises can access, aggregate, and enrich data from various sources, allowing for real-time analytics and improved decision-making.

- Reduce Cloud Data Warehouse Costs
- Modernize Data Warehouses
- Enable Real-time Data Analytics
- Utilize Headless Data Architecture

Shift Left With Flink®

Flink applications are composed of streaming dataflows that are transformed by user-defined operators, enabling high-performance and efficient stream processing at any scale. With Confluent's fully managed Flink offering, enterprises can access, aggregate, and enrich data from various sources, allowing for real-time analytics and improved decision-making.

Improving | Your Trusted Technology Consulting Partner

As your trusted technology consulting partner and **Confluent Elite Systems Integrator**, we are at the forefront of technical design and implementation for cloud, on-premises, and hybrid solutions. Our collaboration with clients extends beyond implementation; we empower them with the knowledge and tools to maintain their Kafka and Flink deployments. Access to data alone is not enough to make informed and impactful data-driven decisions; as technology leaders, you need to ensure you are using reliable, accurate, timely, and relevant data.

Our proven track record includes successful implementations for Fortune 25 enterprises and numerous other clients. For example, we helped an enterprise client eliminate data silos and unlock data to speed up development time by leveraging Confluent Platform. Additionally, one of our successes also involved using Confluent Platform in the logistics sector to empower our client with real-time traceability across distribution centers, even in the event of network connectivity loss. Our expertise in building reliable and scalable data pipelines and stream processing has consistently delivered measurable and transformative results for our clients.

Our Data Streaming & Cloud Technology Partners

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