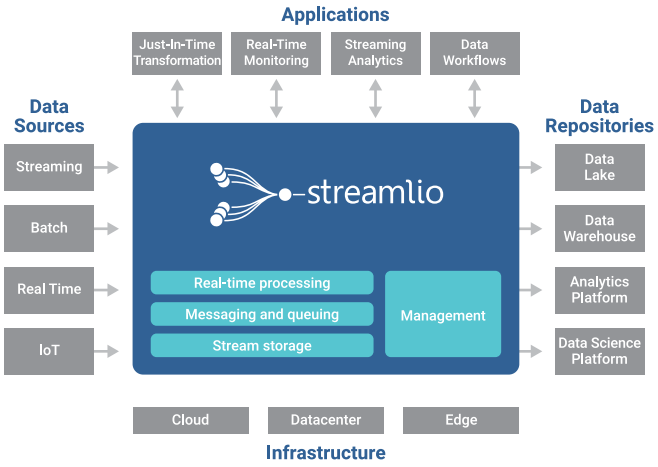
streamlio

Streamlio Intelligent Platform for Fast Data

Deliver data and insights on data in motion to data-driven applications and users

Organizations have made massive investments in collecting and storing ever-growing amounts of data. Realizing the full value of that data requires not just collecting and storing it, but processing and acting on it as quickly as possible.

However, today's reality is that organizations are stuck in the slow data lane, saddled with data pipelines, data lakes, and data warehouses that were designed for legacy batch processing. Trying to find ways to incorporate fast-moving data and act on data more rapidly, organizations have found themselves struggling with a complex, inefficient, and fragile patchwork of technologies.



The Streamlio Solution

Streamlio addresses these challenges with the first intelligent platform for fast data. Founded by a team of experts in data processing, Streamlio enables organizations to connect, process, and store data in motion. Streamlio's unified solution makes it possible to process and access data immediately, even before it reaches data lakes, data warehouses, and other repositories.

Streamlio makes this possible by providing messaging, processing, and storage designed for fast-moving data:

- **Messaging:** receive and distribute data at any speed and scale for diverse use cases with compelling performance, scalability, and durability.
- **Processing:** apply stream-native data processing for filtering, transformation, and analytics to data in motion without requiring complex add-ons.
- **Storage:** leverage a scalable storage layer to ensure durability, resiliency, and performance for unlimited retention and replay of streaming data.

Streamlio Technology

Streamlio's solution is designed to meet the needs of even the most demanding data applications. Powered by Apache Pulsar, open source technology proven at Internet scale in production, it is ideal for applications located on-premises, in the cloud, and at the edge.

Messaging

Streamlio uses Apache Pulsar's support for publish-subscribe messaging and message queues in a unified solution built for durability, scalability, and performance.

- High-throughput, low-latency messaging
- Data durability and built-in multi-datacenter replication
- Scalability to support large numbers of workloads

Processing

Streamlio provides stream-native processing of data in motion, supporting both lightweight processing and analytics without requiring complex add-ons.

- Perform data filtering, transformation, and analytics on data as it arrives
- Create new derived data streams through transformation and enrichment of streaming data
- Simplify development and deployment of data processing without deployment complexity

Storage

Streamlio includes a highly scalable, distributed storage solution built using Apache BookKeeper that is optimized for streaming and real-time data.

- Durable stream storage using a distributed log architecture
- Low latency message writes and reads
- Built-in data durability, consistency, and fault tolerance
- Message storage tiering to enable unlimited data retention at low cost

Use Cases

Examples of enterprise use cases requiring analyzing and reacting to data in motion include:

Financial: track, analyze and react to market and customer data in real time

Internet of Things (IoT): filter, analyze and alert on streaming device data at scale

Personalization: process data from mobile devices and online interactions to enable real-time personalization and offers

Security: detect and block attacks and intrusions in real time

Fraud Prevention: protect transactions and interactions with real-time insights and remediation

Streaming Data Pipelines: filter, aggregate and enrich streaming data immediately

Real-Time Analytics: monitor and analyze streaming data for real-time trends and insights

Proven Technology

The open source technology on which Streamlio is built has been proven at scale in demanding production environments at companies including Twitter and Yahoo:

- Receive and send over 800 billion messages per day
- Process more than 2 trillion events and 20 PB per day
- Deliver end-to-end latencies under 50ms

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