



Immediate business value from streaming analytics ON-PREMISES AND IN THE CLOUD

BENEFITS

No hand-coding pipelines and flows— via streaming ingestion of any data into and out of AWS

Reduction of data flowing to the cloud and of on-premises storage requirements— via query-before-store streaming analytics

Accurate, contextual, real-time action— via transactions at the point of insight

Intuitive, interactive web GUI based on open SQL and Java standards

BACKGROUND

Today’s digital businesses generate staggering amounts of streaming data – sometimes TBs per hour - from diverse sources such as website and mobile app click-streams, sensors embedded in connected devices, and IT system log files. This fast-moving data needs to be ingested, transformed, analyzed, and managed as the data arrive, to allow companies to respond more quickly to business and customer needs. Processing high-volume, high-velocity data in real time is a challenge for any business, but it’s not just the volume and variety of data that presents a problem. With data on-premises and in the cloud, processing information for immediate value is increasingly complex. IT leaders need a real-time, scalable, and elastic data processing and analytic model to sustain competitive advantage.

The combination of Amazon Kinesis Analytics and SQLstream Blaze makes it easier than ever to cost-effectively ingest, analyze, and manage streaming data on and between cloud and on premises. SQLstream designed its Blaze streaming analytics platform to enable anyone to create real-time applications from raw data in minutes, that deliver streaming data ingestion, streaming analytics, and live actions. Amazon Kinesis Analytics licensed and implemented core Blaze technology. Now IT management, developers, and data analysts can benefit from common code between Kinesis Analytics and Blaze to process real-time insights from all data.



STREAMING INGESTION

Automatic discovery and simplification of streaming data ingestion, preparation, and transformation close to the source reduces data volumes flowing to the cloud.

STREAMING ANALYTICS

Integration and analysis of data close to the source, while utilizing common logic between Blaze and Kinesis environments, seamlessly extend analytic capabilities.

LIVE ACTION

Analysis of millions of records per second of non-Kinesis streams delivers continuous and real-time operational metrics, triggered actions, and applications.



How does Blaze enable real-time analytics at the edge for a lower cost?

Streaming applications are deployed for optimal performance near data sources at the edge, on premises, or in the cloud. Blaze is based on declarative SQL for automatic optimization and parallelization, dramatically reducing runtime footprint and hardware requirements. Blaze enables data to be analyzed and acted on as the data arrive, without needing to store, eliminating unnecessary security risks and storage costs.



BLAZE STREAMING INGESTION

Easy ingestion of data into and out of AWS: streaming data flows automatically from data sources, to the cloud, and from the cloud through a high-performance bi-directional SQLstream Blaze Kinesis Adapter developed jointly in collaboration between AWS and SQLstream.

Any data format, source or destination: all data is welcome – structured or unstructured, live or historical, in motion or at rest – from and to any data format, interfacing with a wide array of sources and destinations including Amazon Kinesis and Firehose, Hadoop, data warehouses, message buses (including Kafka), les, and devices.

Advanced data preparation and app development: parsing multiple, nested types of data is automatic and building complete apps from ingestion to analysis and into action, is made simple by accepting suggestions through an intelligent suggestions engine and intuitive visual tools.

BLAZE STREAMING ANALYTICS

Code compatibility: sophisticated SQL statements are automatically generated and allow users to cut-and-paste SQL queries for effortless utilization of common logic between SQLstream and Kinesis environments.

Accurate, contextual insight through batch or stream: live data streams are integrated and analyzed with historical data (on premises or in the cloud) for accurate business context, record by record, eliminating the risk of incomplete analysis for time sensitive decisions, due to batch or micro-batch processing.

BLAZE STREAMING LIVE ACTION

Acting with millisecond precision: actions are operationalized through apps that deliver triggers and alerts based on real-time, record-by-record contextual analysis of live and historical data, including time-series and spatial operators.

Centralized streaming data visibility and security at global scale: data is viewed globally and flowing live through deployments using telemetry; data can be managed and marshalled for storage or analyzed without storing, for optimal value and security.

Zero downtime: continuous business operations are maintained while changing streaming application logic or queries, on-the-fly, while data is in motion.



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