

# Striim: Streaming Integration for Google Cloud

The Striim® platform provides an enterprise-grade streaming integration solution for moving real-time change data from a wide variety of sources to Google Cloud environments without impacting source systems. Striim enables streaming data pipelines to Google BigQuery, Cloud SQL for MySQL and PostgreSQL, Cloud Spanner, Cloud Pub/Sub, and Cloud Storage.

By connecting on-premises and other cloud-based solutions to Google Cloud on a continuous basis, Striim simplifies zero-downtime online database migrations and eases the adoption of next-generation databases in the cloud. Using real-time, pre-processed data in Google Cloud, businesses can also offload operational and analytics workloads to the cloud.

## Database Migration Service with Zero Downtime

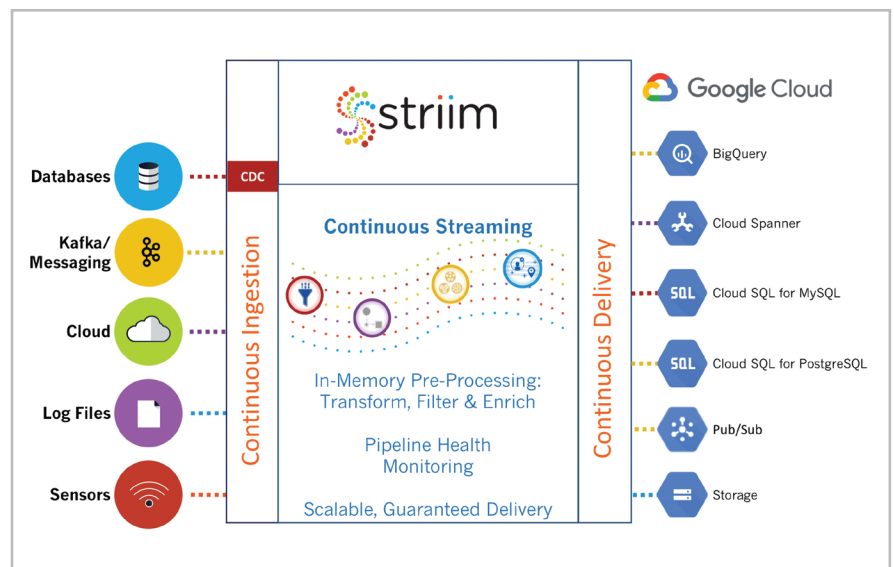
By enabling streaming data pipelines from multiple open source and commercial databases to cloud databases including Google Cloud SQL for PostgreSQL and MySQL, as well as Google Cloud Spanner, Striim minimizes the downtime and data loss risks of cloud database adoption. Striim's data migration service allows online migrations where mission-critical applications continue running without downtime, and while data is continuously replicated between on-premises and cloud databases for a seamless transition.

## Non-Intrusive, Real-Time Data Ingestion

The Striim platform continuously collects real-time data from a variety of on-premises or cloud-based sources, including databases, data warehouses, Salesforce, Amazon S3, files, message queues, and devices. For enterprise databases such as Oracle, SQL Server, Amazon RDS, HPE NonStop, and MySQL, MongoDB,

## BENEFITS

- Ingest real-time data with minimized impact on source
- Continuously collect data from databases, logs, messaging, sensors, etc.
- Migrate databases without downtime or data loss
- Easily offload analytical workloads to the cloud



Striim offers real-time data integration to Google Cloud from a diverse set of sources

and PostgreSQL, the platform offers non-intrusive, real-time change data capture (CDC) to minimize the impact on source systems. Striim supports major data formats, including JSON, XML, AVRO, delimited, binary, free text, and change records.

## **In-Memory Stream Processing**

The Striim platform can deliver the data “as-is,” or put it through a series of in-flight transformations, such as denormalization, to reduce latency. It uses SQL-based continuous queries and UI-based operators to filter, aggregate, transform, mask, and enrich multiple streams of real-time data in-memory before delivering to the target. With a drag-and-drop UI and wizards, Striim simplifies creating real-time data pipelines from popular sources to Google Cloud, significantly increasing developer productivity.

## **Real-Time Delivery with an Enterprise-Grade Solution**

The Striim platform can continuously apply pre-processed, streaming data to Google BigQuery and Cloud SQL with sub-second latency. Businesses can use the low-latency data to support their operational reporting, real-time analytics, or transactional applications running on Google Cloud without impacting source systems. Striim can also deliver real-time data to other targets such as databases and files.

Striim is designed to support high-volume, high-velocity data with built-in data flow monitoring, security, high-availability, reliability, and scalability to support mission-critical applications.

## **Key Component for an Operational Data Warehouse**

Striim enables Google BigQuery customers to have continuous access to real-time, pre-processed data from their on-premises or cloud-based data sources so they can use BigQuery for operational decision making. Unlike traditional ETL, Striim transforms in-flight data, reducing latency and supporting operational workloads.

## **WHY STRIIM?**

- Real-time data integration from a wide variety of data sources
- Enables cloud adoption without business interruption
- Designed for high-volume, high-velocity data
- Non-intrusive CDC from databases with event guarantees
- In-line transformations (e.g. denormalization) before delivery
- Built-in security, scalability, and reliability
- Quick to deploy via SQL-based queries and wizards-based UI
- Built-in pipeline monitoring and intelligence