Streaming Data Analysis and Visualization

A Confluent and Kinetica Solution Brief
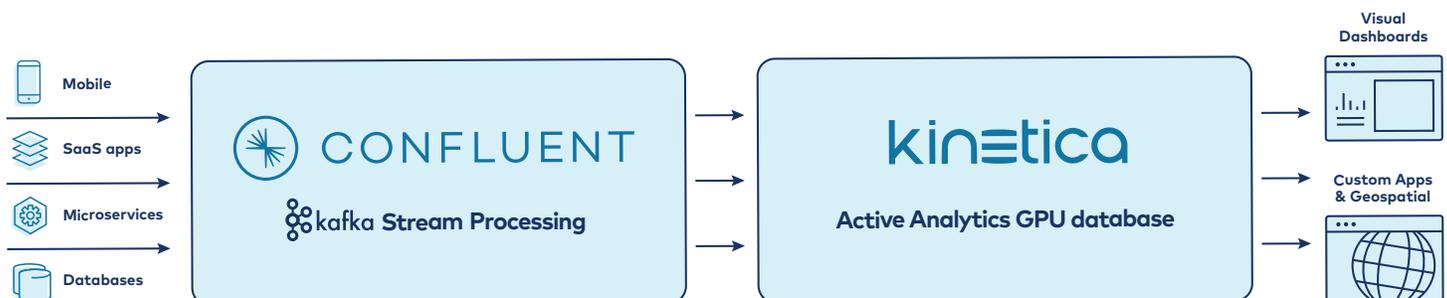
Ingest real-time data streams from Apache Kafka® into Kinetica for immediate analysis and action.

Uncovering the true value of data continues to be a struggle for most business leaders. They have volumes of data but are unable to uncover competitive advantages and recognize ROI. By accelerating time to insight through GPUs, in-memory technology and event streaming, answers are made available in real-time for immediate analysis and action. Organizations across automotive, energy, telecommunications, retail, and financial services, leverage the Kinetica Active Analytics Platform with GPU-accelerated computing power to build custom analytical applications. With Confluent Platform and the Kinetica Kafka connector, users can read and write data directly between Confluent and Kinetica, combine streaming and historical data with location intelligence to enable machine learning powered business intelligence.

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Together, Kinetica and Confluent provide:

- Gain powerful insights from streaming data joined with historical data

- Enable real-time decisions with Kinetica's GPUaccelerated, in-memory Active Analytics Platform and Kafka

- Integrate data sources and destinations with Kinetica's Gold certified Kafka connector

Kinetica's GPU-accelerated, in-memory analytic platform gets real-time results

Getting fast results from even the smartest queries is complicated by the fact that most architectures built to manage the volumes of data depend on batch processing using CPUs instead of parallel processing powered by GPUs. Even when data and processing tasks are distributed across multiple machines to optimize speed, the process is relatively slow compared to new data architectures that hold data in memory instead of disk and use GPUs instead of CPUs for processing.

Confluent Platform brings Kafka data to life

Confluent Platform enables organizations to harness business value of event data. The Confluent Platform, based on Kafka, manages the barrage of event streams and makes it available throughout an organization. It provides various industries, from retail, logistics and manufacturing, to financial services and online social networking, a scalable, unified, real-time data pipeline that enables applications ranging from large volume data integration to big data analysis with Hadoop to real-time stream processing.

Confluent Platform and Kinetica for an enterprise-ready analytical insight solution

Confluent Platform is the only enterprise stream platform built entirely on Kafka that makes implementing, managing and deploying an enterprise streaming platform with Kafka easy, reliable, secure and auditable. Kinetica not only offers GPUs and in-memory technologies, it also supports a scale-out architecture and high availability so that the insight engine can distribute the information and workloads across multiple machines. Together, the Confluent and Kinetica solution provides enterprises with powerful analytics on streaming data and historical data, in real-time.

Contact Confluent

Confluent.io/contact
+1 (800) 439-3207

Contact Kinetica

Kinetica.com/contact
+1 (888) 504-7832

About Confluent

Confluent, founded by the original creators of Apache Kafka®, pioneered the enterprise-ready event streaming platform. With Confluent, organizations benefit from the first event streaming platform built for the enterprise with the ease-of-use, scalability, security and flexibility required by the most discerning global companies to run their business in real time. www.confluent.io. Download at www.confluent.io/download.

About Kinetica

When extreme data requires companies to act with unprecedented agility, Kinetica powers business in motion. Kinetica is the instant insight engine for the Extreme Data Economy. Kinetica's accelerated parallel computing brings thousands of GPU cores to address the unpredictability and complexity that result from extreme data. For more information and trial downloads, visit kinetica.com.