

# Apache spark and apache kafka at the rescue of distributed

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**What is Apache Kafka and Apache Spark?** Kafka and Spark are two data processing platforms that serve different purposes. Kafka allows multiple client apps to publish and subscribe to real-time information with a scalable, distributed message broker architecture. On the other hand, Spark allows applications to process large amounts of data in batches.

**Is Apache Spark distributed?** Apache Spark is an open-source, distributed processing system used for big data workloads. It utilizes in-memory caching, and optimized query execution for fast analytic queries against data of any size.

**Is Apache Kafka distributed?** What Is Kafka? Apache Kafka is an open-sourced distributed streaming platform designed to handle large volumes of real-time data. It's become a critical tool for modern data feeds as it helps them transfer data between applications and analyze the data to decide how to share it.

**What is Apache Kafka and what is it used for?** Apache Kafka is a distributed data store optimized for ingesting and processing streaming data in real-time. Streaming data is data that is continuously generated by thousands of data sources, which typically send the data records in simultaneously.

**What is Apache Spark vs Apache?** Apache Spark allows you to create data pipelines, and provides the execution engine to run them. Apache Beam allows you to define data pipelines, but you need to run them on external execution environments (Spark being one such option). Both solutions support batch and real-time stream processing.

## **How to use Kafka and Spark together?**

**Why not to use Apache Spark?** The second and most important point is, that Spark adds an overhead to the processing of your workload. If you use Spark, you increase network and CPU load and also add a relevant memory overhead to the actual workload. This is due to the fact, that Spark needs to compute the distribution of your workload.

**What is Apache Spark in simple words?** Apache Spark is an open source analytics engine used for big data workloads. It can handle both batches as well as real-time analytics and data processing workloads. Apache Spark started in 2009 as a research project at the University of California, Berkeley.

**Why do we need Apache Spark?** Spark Streaming supports real-time streaming processing. Such data can be log files of the working web server (for example, processed by Apache Flume or placed on HDFS / S3), information from social networks (for example, Twitter), as well as various message queues such as Kafka.

**Is Apache Kafka still used?** With over 1,000 Kafka use cases and counting, some common benefits are building data pipelines, leveraging real-time data streams, enabling operational metrics, and data integration across countless sources. Today, Kafka is used by thousands of companies including over 80% of the Fortune 100.

**What is the difference between Apache and Kafka?** Although both platforms include essential features that power data systems, Apache's framework are mainly used in data operations while Confluent Kafka is used in data processing. In this article, we will review key parameters, discuss some of the important features and compare Apache Kafka with Confluent Kafka.

**Why is it called Apache Kafka?** Jay Kreps chose to name the software after the author Franz Kafka because it is "a system optimized for writing", and he liked Kafka's work.

**What is the difference between spark and Kafka?** Kafka focuses on messaging (publishing/subscribing), while Spark focuses more on data processing with support for batch processing and SQL queries. Kafka is designed to process data from multiple sources, whereas Spark is designed to process data from only one source.

**What are the disadvantages of Apache Kafka?** Disadvantages Of Apache Kafka  
Message tweaking issues: The Kafka broker uses system calls to deliver messages to the consumer. In case, the message needs some tweaking, the performance of Kafka gets significantly reduced. So, it works well if the message does not need to change.

**Does Netflix use Kafka?** Netflix embraces Apache Kafka® as the de-facto standard for its eventing, messaging, and stream processing needs. Kafka acts as a bridge for all point-to-point and Netflix Studio wide communications.

**What are the weaknesses of Apache Spark?** What are the disadvantages of Apache Spark? It has no file management system of its own, no real-time processing support, has issues with small files, and has a lesser number of algorithms. These are the key disadvantages of Apache Spark.

**What is Apache Spark a general purpose?** Apache Spark is a fast and general-purpose cluster computing system. It provides high-level APIs in Java, Scala and Python, and an optimized engine that supports general execution graphs.

**Is Apache Spark like Hadoop?** Apache Spark replaces Hadoop's original data analytics library, MapReduce, with faster machine learning processing capabilities. However, Spark is not mutually exclusive with Hadoop. While Apache Spark can run as an independent framework, many organizations use both Hadoop and Spark for big data analytics.

**Can Spark write to Kafka?** Type out sample text in the producer terminal and see it being transformed into UPPERCASE in the consumer terminal. That's it, you were successfully able to use Spark Streaming to read and write from one topic to the other in Kafka using Spark Structured Streaming.

**Why Kafka with Spark streaming?** Processing model: Spark Streaming provides a high-level API for processing data streams using Spark's parallel processing engine, while Kafka provides a distributed messaging system for handling real-time data streams.

**What does Kafka Connect do?** Kafka Connect is a tool for scalably and reliably streaming data between Apache Kafka® and other data systems. It makes it simple

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to quickly define connectors that move large data sets in and out of Kafka.

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**What is the difference between Kafka Streams API and Spark?** Kafka Streams excels in per-record processing with a focus on low latency, while Spark Structured Streaming stands out with its built-in support for complex data processing tasks, including advanced analytics, machine learning and graph processing.

**What is Apache Kafka tool?** Apache Kafka is a popular event streaming platform used to collect, process, and store streaming event data or data that has no discrete beginning or end. Kafka makes possible a new generation of distributed applications capable of scaling to handle billions of streamed events per minute.

**What is the difference between Apache Kafka and ETL?** Apache Kafka is a distributed streaming platform to build near real-time data pipelines and streaming ETL applications. With its high throughput, low latency, and scalable architecture, Kafka is well-suited for processing and transforming large volumes of data in near real time.

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