

# Couchbase Server & Confluent Platform & Apache Kafka: Operational “Data Flows” with Stream-based Messaging

## USE CASES

**Ingest** data at high throughput, low latency and persist it to Couchbase Server.

**Aggregate** data from multiple sources and persist it to Couchbase Server.

**Distribute** data as it's persisted to Couchbase Server to multiple destinations.

**Integrate** Couchbase Server with other “big data” platforms from Spark/Storm to Hadoop.

**Synchronize** data between Couchbase Server and Hadoop, or other platforms.

**Event** writes to Couchbase Server in real time as a stream of messages.

## FURTHER INFORMATION

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**Couchbase Server** is an open source database for enterprise web, mobile, and IoT applications that's deployed as a cache, key-value store, and document database. It's a distributed database engineered for performance, scalability, and availability, and with a SQL-based query language for JSON, agility, with a powerful yet expressive query language and a flexible data model.

**Confluent**, founded by the creators of Apache™ Kafka™, enables organizations to harness business value of stream data. The Confluent Platform manages the barrage of stream data 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.

Couchbase Server integration with the Confluent Platform is based on a high performance, reactive Java client that synchronizes using Database Change Protocol (DCP), a memory-based protocol for replicating ordered changes. This integration enables Couchbase Server to a) continuously publish changes to a message queue or b) continuously consume messages from a queue and persist them, typically for access by highly interactive user facing applications - it's an out-of-the-box solution for creating operational “data flows”.

### COUCHBASE SERVER

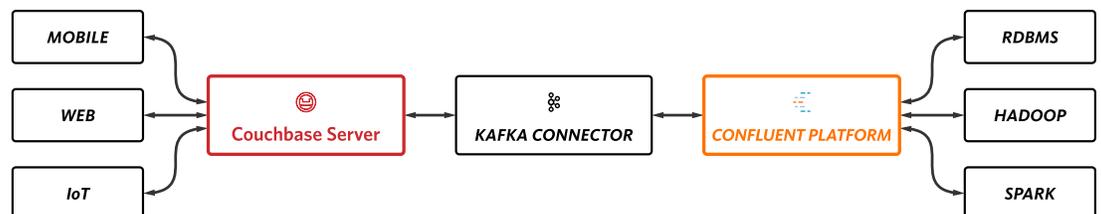
- Distributed: partitioned, replicated, persistent
- Scalable: millions of operations per second
- Fast: millisecond latency at high throughput
- Flexible: store any type of data
- Proven: LinkedIn, PayPal, GE, and more

### CONFLUENT PLATFORM

- Distributed: partitioned, replicated, persistent
- Scalable: billions of messages per day
- Fast: millisecond latency at high throughput
- Flexible: stream any type of data
- Proven: LinkedIn, Netflix, Uber, and more

## Common Use Cases

Companies commonly use Couchbase Server with the Confluent Platform in a variety of ways, including replication: streaming operational data from Couchbase Server to Hadoop for offline processing; pushing the results of offline processing in Hadoop to Couchbase Server for improved operational efficiency; and collecting enriched operational data and streaming it to Couchbase Server for real-time monitoring and alerting.



## About Couchbase

Couchbase delivers the world's highest performing NoSQL distributed database platform. Developers around the world use the Couchbase platform to build enterprise web, mobile, and IoT applications that support massive data volumes in real time. The Couchbase platform includes Couchbase Server, Couchbase Lite - the first mobile NoSQL database, and Couchbase Sync Gateway. Couchbase is designed for global deployments, with configurable cross datacenter replication to increase data locality and availability. All Couchbase products are open source projects. Couchbase customers include industry leaders like AOL, AT&T, Bally's, Beats Music, BSKyB, Cisco, Comcast, Concur, Disney, eBay, KDDI, Nordstorm, Neiman Marcus, Orbitz, PayPal, Rakuten / Viber, Tencent, Verizon, Wells Fargo, Willis Group, as well as hundreds of other household names. Couchbase investors include Accel Partners, Adams Street Partners, Ignition Partners, Mayfield Fund, North Bridge Venture Partners, and West Summit.