

# High-Throughput, Low-Latency Big Data Solution with Scylla and the Confluent Platform

Confluent and ScyllaDB Solution Brief

## ScyllaDB's NoSQL database, paired with the Confluent Platform, keeps up with growing needs of real-time data streaming.

Scylla is a highly available, highly-scalable NoSQL database that can match the volume and velocity of Kafka to meet the persistent storage requirements of modern web-scale applications. The Confluent Platform and Kafka require a complementary and highly performant storage layer.

Together, the Confluent Platform and Scylla meet the low-latency and high throughput requirements for users looking to obtain maximum utility from their real-time data. Scylla makes maximum utilization of high density, modern, multi-core systems. Scylla scales out across additional nodes, with automatic sharding-per-core, and auto-tunes its performance. Scylla also scales up, taking advantage of modern NUMA multi-CPU server architectures.

## SCYLLA

ScyllaDB and Confluent provide:

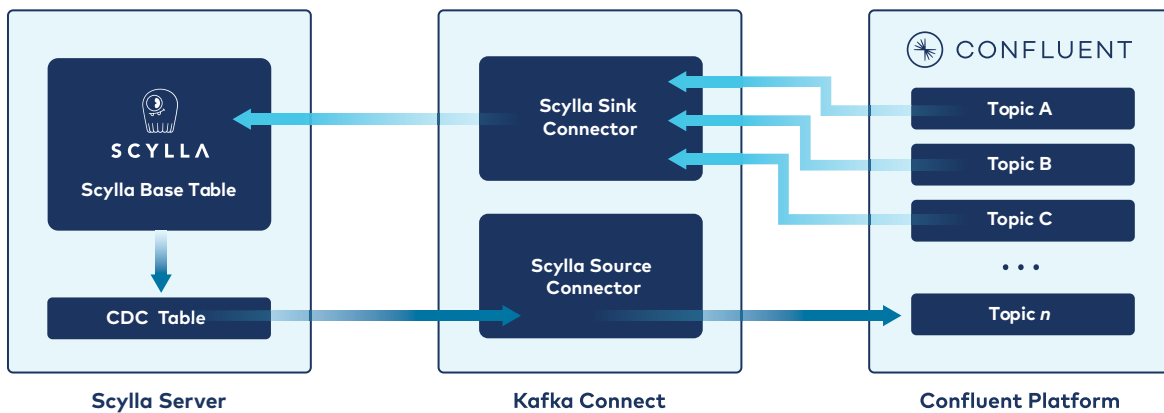
- **Kafka Scylla Connectors** Scylla acts as both sink (consumer) and source (producer) for Kafka
- **Change Data Capture (CDC) for Streaming Updates** use Scylla's CDC implementation to easily subscribe to deltas (differences), or pre- and post-images
- **High performance** Low-latency and high throughput required for maximum utility from real-time data
- **High scalability** Scaling up and out as customers grow their streaming data architectures
- **Open source commitment** True open-source versions to foster developer communities and enable rapid adoption
- **Enterprise-grade solutions** Robust, secure and always-on operations that customers require
- **Fully managed services** Focus on your applications, and let Scylla manage the cluster

# Scylla – Scale Up Performance and Scale Out to Hundreds of Nodes

Our revolutionary NoSQL database delivers predictable, high-throughput performance with single-digit latencies at scale to support the growing demands of your applications. With our cloud-native solution, we simplify operations with self-optimization during installation and self-tuning during runtime – there’s no precision configuration tuning required. Scylla is based on a unique close-to-the hardware design. It’s NUMA-friendly with highly optimized memory management, and it’s written in C++ to take full advantage of the underlying hardware and scale up and out to support the growth of your workloads without overprovisioning. Our shard-per-core design and shard-aware drivers ensure superior performance without concurrency overhead. Scylla provides API compatibility with Apache Cassandra and Amazon DynamoDB APIs, while maintaining superior performance characteristics and lower TCOs.

## Confluent Platform and Scylla

The Confluent Platform enables organizations to harness the 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 is the only enterprise stream platform that makes implementing, managing and deploying an enterprise streaming platform with Kafka easy, reliable, secure and auditable. Scylla matches the volume and velocity of Kafka with a complementary persistent storage layer that is highly performant. With its high throughput and low latency characteristics, Scylla is the best NoSQL database to pair with Kafka and the Confluent Platform in order to keep up with growing needs for real-time data streaming.



### About ScyllaDB

Scylla is the real-time big data database. API-compatible with Apache Cassandra and Amazon DynamoDB, Scylla embraces a shared-nothing approach that increases throughput and storage capacity as much as 10X. Comcast, Discord, Disney+ Hotstar, Grab, Medium, Starbucks, Ola Cabs, Samsung, IBM, Investing.com and [many more leading companies](#) have adopted Scylla to realize order-of-magnitude performance improvements and reduce hardware costs. ScyllaDB was founded by the team responsible for the KVM hypervisor and is backed by Bessemer Venture Partners, Eight Roads Ventures, Innovation Endeavors, Wing Venture Capital, Qualcomm Ventures, TLV Partners, Magma Venture Partners, Western Digital Capital and Samsung Ventures. For more information: [ScyllaDB.com](https://scylladb.com).

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