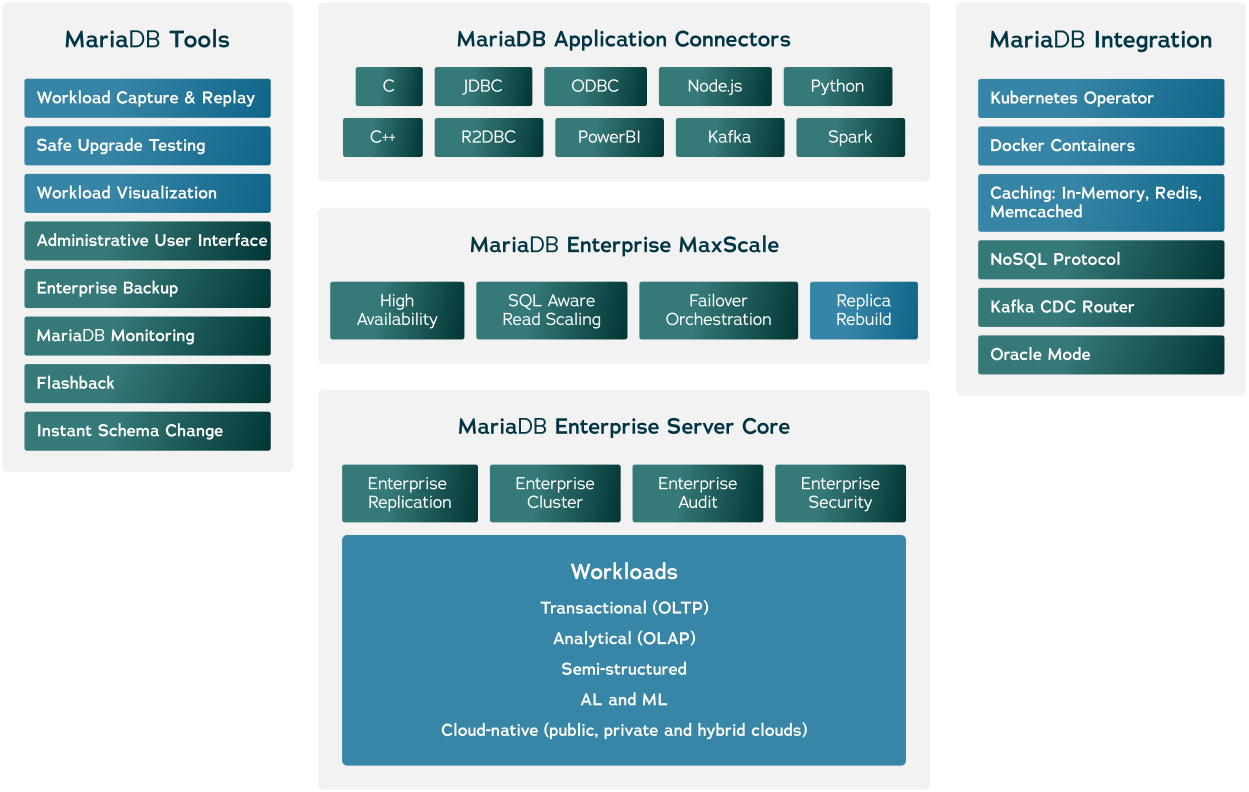
MARIADB ENTERPRISE PLATFORM

One Database. Infinite Possibilities.

MariaDB Enterprise Platform is engineered to deliver best-in-class performance, data security, replication, clustering and high availability for production workloads in any cloud – private, public, hybrid or multicloud. MariaDB Platform consists of MariaDB Enterprise Server, MariaDB MaxScale, MariaDB ColumnStore and MariaDB Enterprise Cluster (powered by Galera).

MariaDB reaches 60 million globally through major Linux distributions like Red Hat and SUSE as a default database and through cloud partners like Amazon AWS, Microsoft Azure and Alibaba. Today, enterprises are making a break from proprietary, legacy databases in favor of MariaDB for its modern, extensible architecture. MariaDB can be used for everything from transactional to analytical workloads, and can be customized to fit a variety of use cases.

Product Architecture



MariaDB Enterprise Server

With over one billion downloads, MariaDB Enterprise Server is an open source relational database that builds a bridge between the oldand the new. Its modern and extensible architecture provides the foundation for businesses to continuously innovate with new applications and modernize legacy database systems. Combining familiar SQL interfaces with open extensibility, MariaDB supports innovation by combining a secure relational database with new functionalities like JSON support, dynamic columns, temporal processing, and vector search to cover a wide range of use cases.

MariaDB MaxScale

MariaDB MaxScale is a next-generation database proxy that sits between applications and databases. This allows multiple administrative database processes like security, load balancing and streaming to run without reducing performance, which is essential in mission-critical applications. MaxScale also prevents external attacks with its advanced database firewall features, balances the load with its dynamic SQL-aware query router, and minimizes downtime with automatic failover. In addition, it can stream transactional data for real-time analytics using messaging systems like Kafka.

MariaDB ColumnStore

MariaDB ColumnStore provides a powerful open source analytics solution. It leverages a pluggable storage engine to handle analytic workloads while keeping the same ANSI SQL interface that is used across the MariaDB portfolio. With massive parallel processing (MPP) architecture, MariaDB ColumnStore runs queries in parallel across all nodes. For complex analytics, MariaDB ColumnStore supports queries like complex joins, aggregation, window functions and userdefined functions.

MariaDB Enterprise Cluster (Powered by Galera)

MariaDB Galera Cluster, an open source active-active, multimaster synchronous replication solution for MariaDB Enterprise Server in combination with MariaDB MaxScale, provides high availability, scalability and automated failover for mission-critical transactional workloads. It provides parallel replication and data consistency across all nodes and automatically manages the identification and removal of failed nodes as well as rejoining new or repaired nodes. With MariaDB Enterprise Cluster, there's no chance of lost transactions and significant replica lag or client latency.

CAPABILITIES

Scalability

Scale out databases/data warehouses with parallel query and scale out reads with replication or multi-writer clustering.

High availability

Maintain continuous availability and hide failures from applications using multi-writer clustering and zero-interruption failover features such as transaction replay.

Disaster recovery

Recover from accidental/malicious data loss with MariaDB Flashback (i.e., online rollback), and be prepared for outages by taking online, non-blocking backups (full and incremental).

Security

Prevent data breaches and DDoS attacks, while protecting sensitive/personal information with full end-to-end encryption, dynamic data masking, query throttling and fine-grained privileges.

Oracle compatibility

Take advantage of Oracle Database and PL/SQL compatible data types, sequences, triggers and stored procedures to simplify migration.

JSON + Relational Data

Enjoy greater schema flexibility and faster development with hybrid relational/JSON data models, storing data as JSON and querying it with a complete set of JSON functions.

Vector

Vector Search is a new feature of MariaDB Enterprise Server that turns it into a relational vector database for AI applications. Natively integrated, it enables retrieval of complex data types without the need to integrate multiple databases.

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