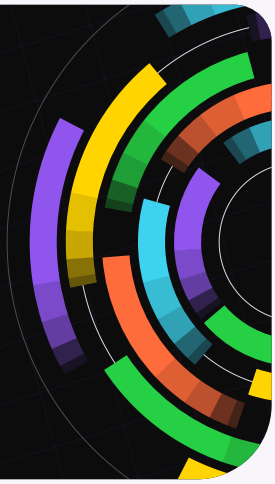
mariaDB

MariaDB Analytics

Your choice of two engines to break down the barriers to insight



01 Overview

Organizations that need to analyze information as it is created are held back by the divide between OLTP and OLAP systems and by slow, error-prone ETL. MariaDB Enterprise Platform offers two analytics engines: MariaDB ColumnStore and MariaDB Exa.

02 Key benefits

Ad hoc analytics at scale

MariaDB ColumnStore stores data in columns distributed across a cluster of servers and executes complex queries in parallel on petabytes of data. Deploy it as a standalone analytics solution or with MariaDB Enterprise Server as a query accelerator.

OLAP on live InnoDB data

ColumnStore accesses InnoDB data in near-real time and runs parallel OLAP queries straight from your transactional data. There is no separate pipeline to maintain and no delayed batch inserts to analyze live data.

Real-time analytics with Exa

MariaDB Exa unites MariaDB with Exasol's in-memory engine. Thousands of users can analyze large amounts of data at once, and Exa's Virtual Schema framework provides live access to MariaDB without separate ETL or staging areas, lowering TCO.

Neither workload slows the other

MariaDB continues to deliver transactional throughput while the analytics engine handles complex analytical queries. MariaDB Exa runs on additional servers, so heavy analytical load is offloaded from your MariaDB Enterprise Servers.

10x to 1,000x faster queries with MariaDB Exa's massively parallel, in-memory processing, as stated by MariaDB

03 Key features

COLUMNSTORE

- Columnar, distributed storage
- Parallel query processing
- No complex schemas or indexes
- Red Hat Enterprise Linux 10

COLUMNSTORE OPS

- Read replicas on shared storage
- Automated, checked upgrades
- cpimport error isolation
- CMAPI backup and restore

MARIADB EXA

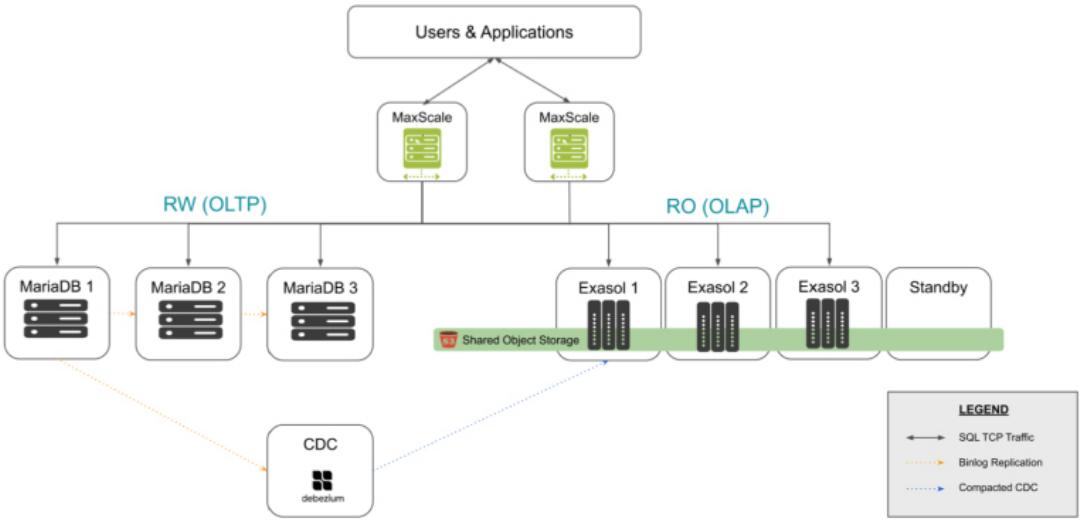
- Exasol in-memory MPP engine
- Thousands of concurrent users
- Virtual Schema live access
- Integrated AI/ML execution

EXA DEPLOYMENT

- On-premises
- Microsoft Azure
- Amazon Web Services
- Hybrid cloud

04 How it works

ColumnStore is ideal for intermittent, ad hoc analytic queries and is included in MariaDB Enterprise Platform. MariaDB Exa suits environments where users regularly submit complex analytical queries or load is continuously heavy. In the Exa architecture, write requests go to the MariaDB servers, binlog data is processed through CDC and loaded into the Exasol servers, and read requests go to MariaDB for transactional queries and to Exasol for analytical queries.



MariaDB Exa architecture

Contact MariaDB

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