



MARIADB TX 3.0

Born of the community. Raised in the enterprise.

MariaDB TX is a complete enterprise open source database solution for modern applications and workloads – lightweight connectors, an advanced database proxy and firewall, a general-purpose database with pluggable, purpose-built storage engines, multi-master clustering, tools for database administrators and developers and notification services.

WHAT'S NEW

Oracle compatibility

MariaDB TX 3.0 introduces Oracle compatibility to support Oracle data types, sequences and stored procedures/functions with control statements, static and dynamic SQL (including cursors with parameters), triggers and packages.

Temporal tables and queries

MariaDB TX 3.0 introduces built-in system-versioned tables (SVTs) to automatically and transparently store current and historical versions of rows, and temporal syntax to query them based on a specific point in time, between two specific points in time or all time.

Purpose-built storage

MariaDB TX 3.0 introduces the general availability of MyRocks, a space- and write-optimized storage engine developed by Facebook and recommended for write-intensive workloads, and Spider, a distributed storage engine recommended for storage and/or write scalability and concurrency.

Advanced security

MariaDB TX 3.0 introduces partial data masking and full data obfuscation to protect sensitive security and/or personally identifiable information (SSI/PII) from unauthorized access – necessary for regulatory compliance, including the EU General Data Protection Regulation (GDPR).

ENTERPRISE RELIABILITY

High availability

Ensure uptime for mission-critical applications with clustering, replication and automatic failover.

Performance

Meet user expectations with multi-core processors and a multi-threaded architecture.

Disaster recovery

Recover from unexpected failure with backup and restore or point-in-time rollback.

Scalability

Sustain business growth by scaling on demand with distributed, multi-master storage.

Security

Protect customer data with roles, encryption, data obfuscation/masking and query blocking.

Schema flexibility

Create hybrid data models with built-in JSON functions and instant add column.



FEATURES AND CAPABILITIES

High availability

- Automatic failover
- Transparent query routing
- Multi-master clustering
- Lossless semi-synchronous replication
- Multi-source replication

Disaster recovery

- Backup and restore
- Point-in-time rollback
- Delayed replication

Security

- Data obfuscation
- Data masking (full and partial)
- Pluggable authentication
- Roles
- User resource limits
- Transparent data encryption (TDE)
 - Temporary files
 - Tablespaces or tables
 - Logs
- Query blocking
- Auditing
- Result limiting

Scalability

- Compression
 - Columns
 - Tables: rows or pages
- Consistent reads
- Read-write splitting

Performance

- Fast connection creation
- Thread pool
- Query result caching
- Bulk insert streams
- NUMA interleave (InnoDB)

Oracle compatibility

- Data types

- Sequences
- Stored procedures and functions
- Packages
- Dynamic SQL
- Cursors with parameters

Storage

- MyRocks: write performance
- Spider: scalability and/or concurrency
- InnoDB: general-purpose

SQL

- Temporal subclauses (e.g., AS OF)
- User-defined aggregate functions
- Ordered-set aggregate functions
- INTERSECT/EXCEPT
- Table value constructors
- DDL/SELECT lock timeout
- Common table expressions
- Window functions
- JSON functions

Schema

- System versioned tables
- Instant ADD COLUMN
- Invisible columns
- Check constraints
- Default value functions/expressions
- Multiple triggers per type per table
- Virtual column indexes
- Spatial indexes
- Decimal scale of 38

Integration

- Change-data-capture streams

Tools and services

- Administration
- Monitoring
- Notifications

mariadb.com

Americas: sales-AMER@mariadb.com
Europe, Middle East, Africa: sales-EMEA@mariadb.com
Asia Pacific: sales-APAC@mariadb.com

© Copyright 2019 MariaDB Corporation Ab, Tekniikantie 12, 02150 Espoo, Finland. MariaDB is a trademark or registered trademark of MariaDB Corporation.