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# MariaDB Server 10.4 Roadmap - DRAFT

# 10.4 Dates

## 10.4 will be a time based release

- 23 November 2018 - First beta release
- 12 February 2019 - Final feature freeze date
- GA at end of May

# Long Term Vision for MariaDB

## Adaptable

- Every data use case should be covered by MariaDB
- The perfect database for every use case

## Enterprise Grade

- Provide enterprise grade open source alternative
- All enterprise features included
- Enterprise grade security, documentation and services

## Autonomous Database

- A self tuning and self healing database that is easy to use

Instant ALTER TABLE for InnoDB

MariaDB TX and AX becomes  
MariaDB Platform

Enterprise Security Features For MariaDB Server

# Instant ALTER TABLE for InnoDB

# Instant ALTER for InnoDB

- Instant ADD COLUMN as last column came with MariaDB Server 10.3
- New instant actions to be added for
  - DROP COLUMN
  - ADD COLUMN anywhere
  - Ordering of rows
  - ALTER TABLE on collation or charset changes
  - NOT NULL to NULL
  - converting varchar to char

# MariaDB TX and AX becomes MariaDB Platform

# MariaDB ColumnStore Integration

- MariaDB ColumnStore for 104. does not require a patched Server Binary
- Changes in MariaDB Server
  - Pushdown conditions for ORDER BY and LIMIT
  - join pushdown to storage engines
- Changes for ColumnStore Engine
  - Pushdown aggregates
  - Replication
  - ORDER BY

# Enhanced Security Features For MariaDB Server

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- Enhanced Authentication and Privilege System
  - Password expiration
  - multiple alternative authentication methods for the same user
  - disable user accounts
  - REVOKE for privileges
- SSL
  - refresh certificate without server restart
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- Crash save PAM Plugin
- Audit Plugin Enhancements
  - enforced logging when changing audit log settings
  - enhanced informations for CONNECT information
  - user based filtering via system table
  - support of Roles
  - auditing log to MariaDB Instance
- Focus on OpenSSL (now Apache licensed)
  - remove yassl

# Other Task and Long Term Features

# Other tasks and Long Term Features

- Crash save system tables by using Aria
- Galera 4 for MariaDB
- Performance Schema enhancements and SYS\_SCHEMA
- support of parentheses (brackets) in UNION/EXCEPT/INTERSECT operations
- Features which require more preparations in 10.4 to be available in 10.5+
  - Storage Engine independent Foreign Key Support
  - Server internal Backup solution



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**Thank you**