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
Enhanced Security Features For MariaDB Server

- 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
- 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
Thank you