



PlanetScale

Are you ready to leave MySQL 8.0 behind?

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SCaLE 23x - MySQL track

Pasadena, CA - Fri Mar 6th, 2026

Who am I?

- Living in Ghent, Belgium 🇧🇪
- Bachelor Computer Science
- ~30 years Linux user / admin
- ~20 years PHP developer
- ~15 years MySQL DBA
- 4th year at PlanetScale
- Currently Enterprise Customer Engineer
- Father of Leander



MySQL

- ❄ Most popular open-source database
- ❄ 30 years last year
- ❄ Default database of choice for a long time



MySQL releases

- Before new major release every 2-3 years
- 5.1 -> 5.5 -> 5.6 -> 5.7
- Re-numbered 5.8 to 8.0
- Every quarter point release until EOL
 - 5.1.73 -> EOL Dec 2013
 - 5.5.62 -> EOL Dec 2018
 - 5.6.51 -> EOL Feb 2021
 - 5.7.44 -> EOL Oct 2023
 - 8.0.44 -> will be one more release 8.0.45 and then EOL in Apr 2026

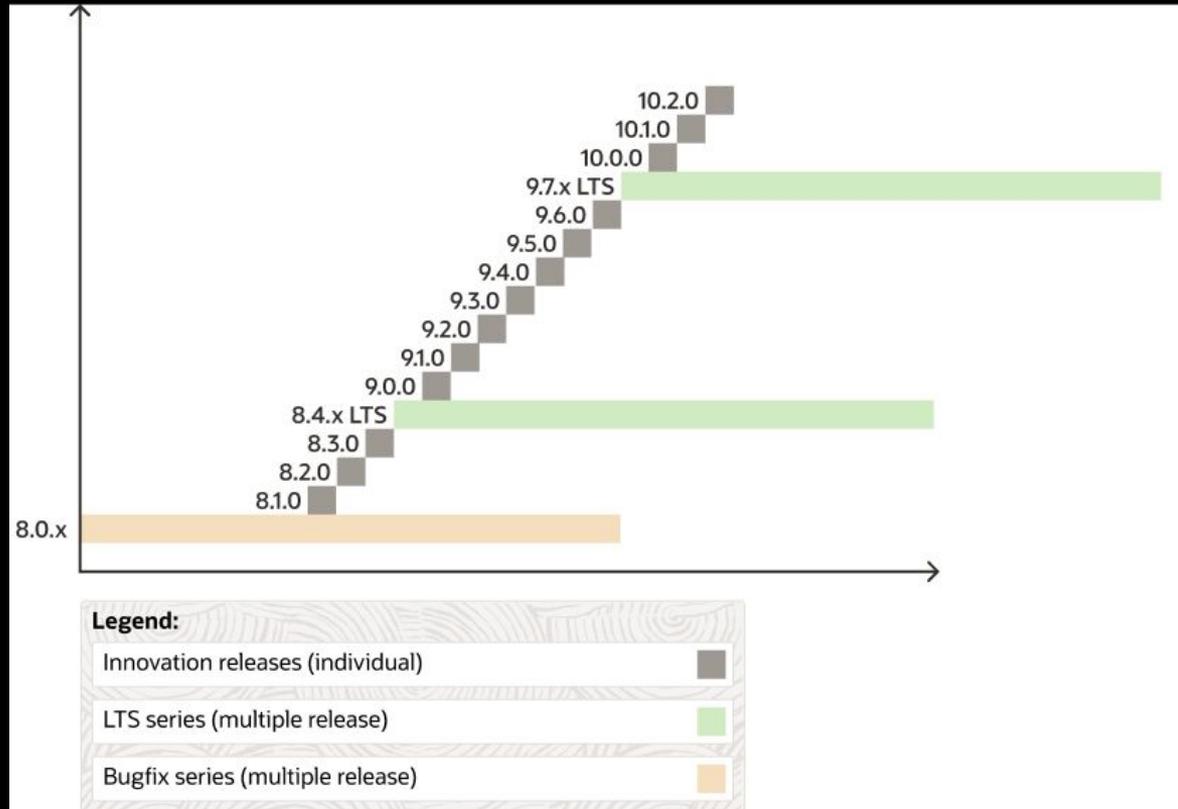


MySQL releases

- Typically MySQL has 2 supported major releases
- But when 5.7 went EOL only 8.0 left as supported
- New release plan
 - Innovation releases, every quarter
 - LTS releases every time an previous version goes EOL
- Current LTS:
 - 8.0 (current 8.0.44) -> goes EOL in April 2026
 - 8.4 (current 8.4.6)
- Next LTS: 9.7.0



MySQL releases



Version numbering issues

- MySQL vs MariaDB
 - Fork by original MySQL author
 - New version numbering started at 10.0
 - Current LTS version 11.8.5 (EOL June 2028)
- Watch out for many tools checking version 10 or above
-> assuming it will be MariaDB!!



Innovation releases

- Not meant for production workload
- Good to test new features before stable
- Only one release per IR (8.1.0, 8.2.0, ...)
- Every 3 months



LTS series

- Legacy LTS 8.0 (bugfix releases)
 - Last release 8.0.45 in Apr 2026
- 8.4.x
 - Current version 8.4.6 (Jan 2026)
- 9.7.x
 - Expected release 9.7.0 (Apr 2026)



MySQL 8.4.x

- Removed deprecated old 5.7 syntax
 - SLAVE -> REPLICA
 - SHOW SLAVE STATUS -> SHOW REPLICA STATUS
 - START/STOP SLAVE -> START/STOP REPLICA
 - ...
 - MASTER -> REPLICATION SOURCE
 - CHANGE REPLICATION SOURCE TO ...
 - MASTER -> BINARY LOG
 - SHOW BINARY LOG STATUS
- Update your scripts and tooling!!



MySQL 8.4.x

- Inplace upgrades
 - Starting MySQL 8.4 binaries on a 8.0 datadir
 - This will upgrade the datadir to 8.4
 - No rollback

DO NOT RUN THIS THE FIRST TIME IN PRODUCTION



MySQL 8.4.x

- Removal of `mysql_native_password` authentication plugin
 - disabled by default in 8.4.x
 - can still be turned ON
 - upgrade existing (super-)users
 - you will not be able to log in anymore!



MySQL 8.4.x

- Removed `AUTO_INCREMENT` for `FLOAT` and `DOUBLE`
- Removed `expire_logs_days`
 - replaced by `binlog_expire_logs_seconds`
- Removed old `ssl` parameters
 - The `--ssl`, `--skip-ssl`, and `--admin-ssl` server options, as well as the `have_ssl` and `have_openssl` server system variables



MySQL 9.7.x

- Upcoming LTS release (April 2026)
- Contains features from innovation releases
 - Decoupled FK's from storage engine (9.6.0)
 - Native `VECTOR` data type (9.0.0)
 - JavaScript stored procedures
 - New Hypergraph optimizer available by default
 - Performance improvements
- Commitment from Oracle to work closer with the community



How to upgrade

- Replication provides the upgrade path
 - 8.0.x -> 8.4.x
 - 8.4.x -> 9.7.x
- Restore a backup onto a new instance
 - upgrade the instance to the new major release
 - hook it up in replication



How to upgrade

- First verify if replication keeps up
- Later start sending reads to the new version
- Verify if backups (and restores) are working
- Finally upgrade the primary



Upgrading Group Replication

- Rolling in-group upgrade
 - Newer version server can join the group as SECONDARY
 - Never promote a newer version to PRIMARY as long as there are still older versions in the group



Upgrading Group Replication

- Rolling migration upgrade
 - Remove group members one by one
 - Create a new group with the upgrade members
 - Set up async replication between the old group and the new



Upgrading Group Replication

- Rolling duplication upgrade
 - Create a new group with the new version
 - Set up async replication between the old group and the new



Questions?



