MaxScale Overview

Functionality and a Renewed Approach to GPL Licensing

MariaDB ServerFest Berlin, September 17

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MaxScale Overview

- Functionality
 - Read-Write-Splitting
 - Automatic failover
 - Transaction Replay
- License

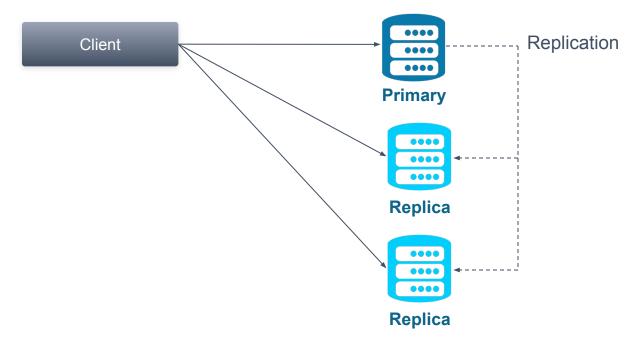


Sometimes things are simple...



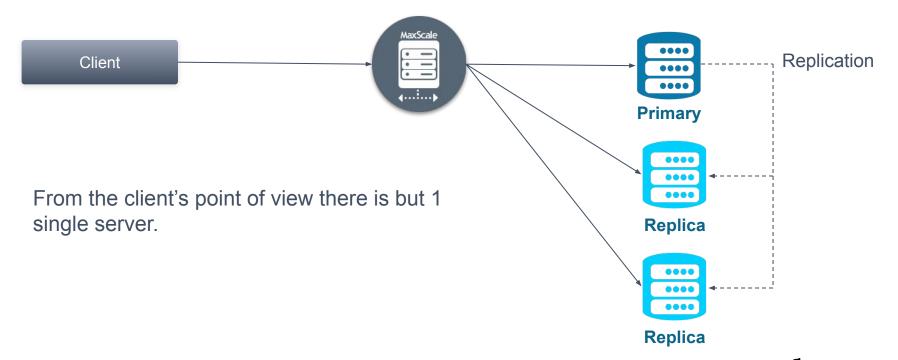


...but usually they aren't



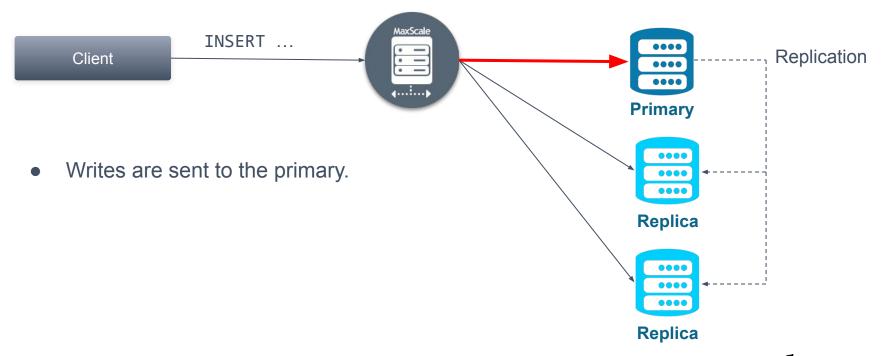


MaxScale Simplifies



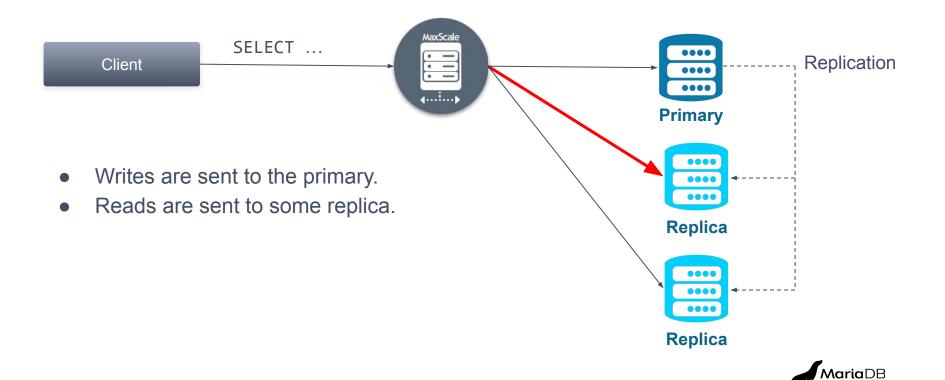


Read Write Splitting

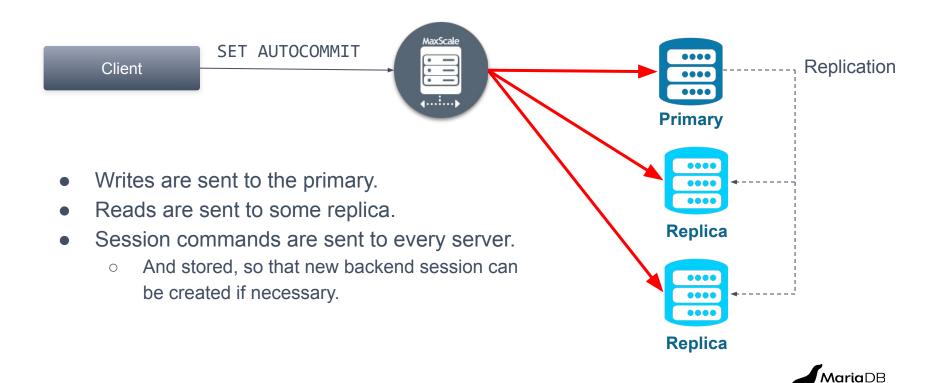




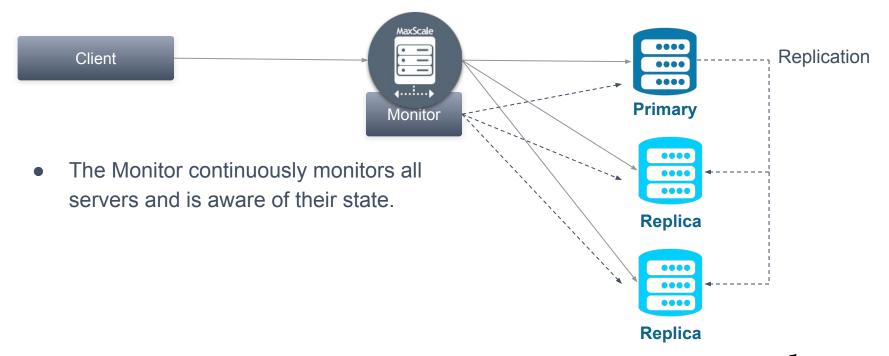
Read Write Splitting



Read Write Splitting



Auto Failover





Auto Failover

Client

Replication

Primary

Scale detects

Replica

Replica

- If the primary goes down, MaxScale detects that and takes action.
- By default, this will cause the client connection to break.
 - But not if transaction replay is enabled.



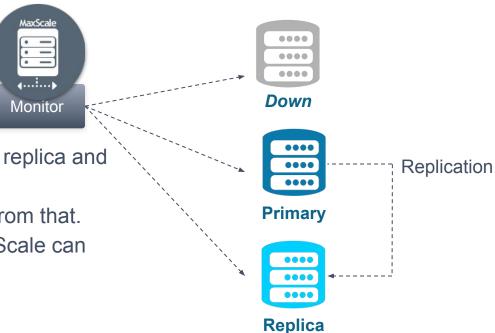
Auto Failover

Client

The monitor picks the most suitable replica and makes it into the primary.

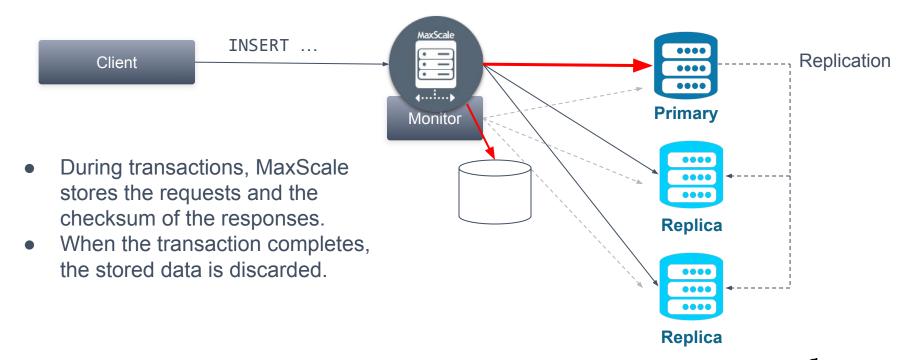
Modifies other replicas to replicate from that.

 If the old primary comes back, MaxScale can rejoin it as a slave.



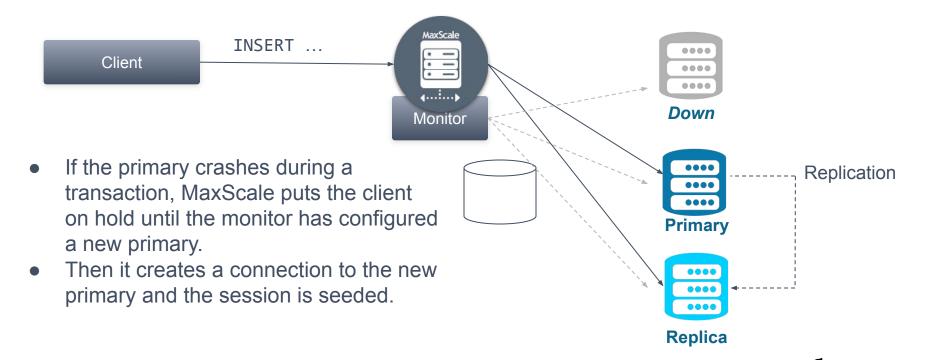


Transaction Replay



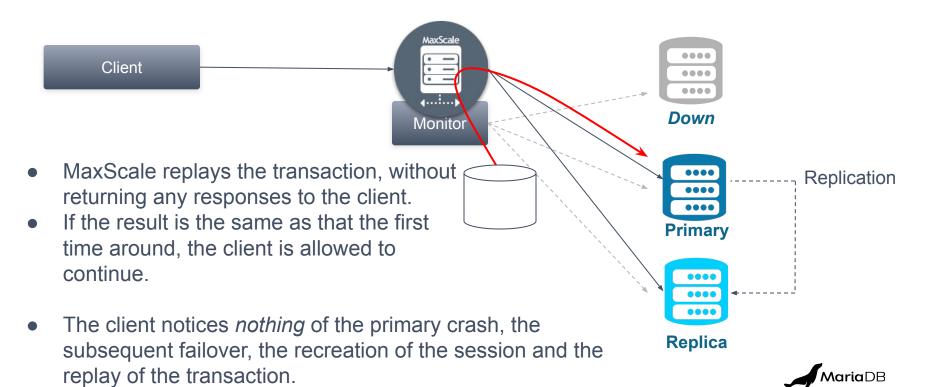


Transaction Replay



MariaDB

Transaction Replay



License - First one, then another.

- Business Source License 1.1
 - Free use of the software for non-commercial purposes.
 - Production use permitted, provided no more than two servers are used.
 - Turns into GPL at Change Date or unconditionally after 4 years.
- GPL
- Approach
 - Change Date is set as 3 years from the date the first version is released.
 - Earlier Change Date was updated at each maintenance release.
 - We are committed to supporting the GPL version for 5 year.
 - Earlier no explicit commitment.
 - Accept contributions.
- Goal
 - Get MaxScale included in distributions (Fedora first and it is well on its way).



MaxScale Versions

Version	21.06	22.08	23.02	23.08	24.02	24.08
Licence	GPL	BSL	BSL	BSL	BSL	BSL
Change Date	2024-06-03	2025-09-12	2026-03-20	2026-09-21	2027-04-10	2027-09-09

- MaxScale 21.06 became GPL in June 2024.
 - Read-write-splitting, automatic failover and transaction replay are all available in 21.06.
 - MaxScale 6.4 was renamed to 21.06 in June 2024, to align all version numbers.



From another angle

