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# MySQL Router 9 Release Notes

## Abstract

This document contains release notes for the changes in MySQL Router 9 through 9.6.0.

For additional MySQL Router documentation, see <https://dev.mysql.com/doc/mysql-router/en/>.

Updates to these notes occur as new product features are added, so that everybody can follow the development process. If a recent version is listed here that you cannot find on the download page (<https://dev.mysql.com/downloads/>), the version has not yet been released.

The documentation included in source and binary distributions may not be fully up to date with respect to release note entries because integration of the documentation occurs at release build time. For the most up-to-date release notes, please refer to the online documentation instead.

For legal information, see the [Legal Notices](#).

For help with using MySQL, please visit the [MySQL Forums](#), where you can discuss your issues with other MySQL users.

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## Preface and Legal Notices

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## Changes in MySQL Router 9.6.0 (2026-01-20, Innovation Release)



### Note

These release notes were created with the assistance of MySQL HeatWave GenAI.

## Functionality Added or Changed

- In previous releases, the periodic updates to the `last_check_in` field of the `mysql_innodb_cluster_metadata.routers` table generated very large binary logs. This was caused by MySQL Router storing full configuration details in the `attributes` field of the `mysql_innodb_cluster_metadata.routers` table and the entire row being copied to the binary log every time `last_check_in` was updated.

As of this release, a new version of the Metadata Schema is added, v2.4.0. In this version, `last_check_in` is moved to a new table, `mysql_innodb_cluster_metadata.router_stats`.

If the schema version is less than 2.4.0, MySQL Router carries on using `mysql_innodb_cluster_metadata.routers.last_check_in`.

If the schema version is 2.4.0, or higher, MySQL Router uses `mysql_innodb_cluster_metadata.router_stats.last_check_in`. (Bug #37926324, WL #17027, WL #17028)

## Changes in MySQL Router 9.5.0 (2025-10-21, Innovation Release)



### Note

These release notes were created with the assistance of MySQL HeatWave GenAI.

## Bugs Fixed

- Removed !SSLv3 from the default cipher list. SSLv3 support is disabled explicitly. The !SSLv3 filter incorrectly removed valid ciphers from the allowed cipher list. (Bug #38205463)
- It was not possible for MySQL Router to retrieve metadata if from a secondary node if it was lagging and had not yet received the `router_id` from the primary. Errors were returned similar to the following:

```
Error reading router.options from v2_cs_router_options: did not
find router entry for router_id, Unable to fetch live
group_replication member data from any server in cluster
```

As of this release, if a `router_id` is not found, MySQL Router proceeds to the next server on the list until it locates valid metadata. (Bug #38132603)

- IPv6 endpoints were logged as `::1:12435` instead of `[::1]:12345`. IPv6 addresses with ports are now properly escaped. (Bug #38122485)
- Under certain circumstances, restarting MySQL Router could result in an empty `state.json` file, leading to restart failures. Errors were returned similar to the following:

```
Error parsing file dynamic state file: Parsing JSON failed at
offset 0: The document is empty.
```

(Bug #38099912)

- The HTTP plugin misinterpreted the `bind_address=*` configuration and bound to the loopback address, only. (Bug #38084833)

## Changes in MySQL Router 9.4.0 (2025-07-22, Innovation Release)



### Note

These release notes were created with the assistance of MySQL HeatWave GenAI.



### Important

MySQL Router now features full support for MySQL REST Service in on-premise configurations. See the announcement blog post [HeatWave REST Service](#) and the [Quick Start Guide](#) for details about MySQL REST Service.

- [Deprecation and Removal Notes](#)
- [Functionality Added or Changed](#)
- [Bugs Fixed](#)

## Deprecation and Removal Notes

- As of this version, MySQL Router's HTTP/2 feature is disabled, to allow for future refactoring. (Bug #38055103)

## Functionality Added or Changed

- Binary packages that include `curl` rather than linking to the system `curl` library have been upgraded to use `curl` 8.16.0. (Bug #38448034)

- MySQL Router now generates SSL certificates with a validity period of one year, aligning with best practices that recommend a validity period of no more than 397 days. This change affects the auto-generated certificates created during the bootstrap process. Error messages related to certificate validity may be encountered if using previously generated certificates with longer validity periods. (Bug #37936725)

## Bugs Fixed

- MySQL Router's logger created a lock on every log call, even if logging was disabled.  
As of this release, the logger now acquires locks only when logging is enabled. (Bug #38044378)
- Fixed an issue related to debug logging. (Bug #38009073)
- Users created with a comment in their definition were unable to connect using MySQL Router. Error messages were returned similar to the following:

```
ERROR 1045 (28000): Access denied
```

(Bug #37903358)

- Routing Guidelines, introduced in 9.2.0, did not treat `bind_address=localhost` as a valid target when generated from the MySQL Router configuration. (Bug #37844427)
- It was not possible to build MySQL Router with GCC 15 on Fedora 42 due to missing includes. (Bug #37769606)
- After a DNS failure, the destination was not added to quarantine and could not be checked for availability after the connection was restored. Errors were returned similar to the following:

```
resolve(host) failed: Name or service not known
```

(Bug #37617712)

- Under certain circumstances, with Connection Sharing enabled, MySQL Router could crash due to a race condition in the connection pool. MySQL Router tried to close a connection while also making that connection available to another thread. Errors were returned similar to the following:

```
Process Core Dump (PID XXXXXX/UID 0)  
Resource limits disable core dumping for process XXXXXX (mysqlrouter)
```

(Bug #37303055)

## Changes in MySQL Router 9.3.0 (2025-04-15, Innovation Release)

### Bugs Fixed

- The check for servers from a newer series and the lack of support for servers from a newer series, introduced in MySQL Router 9.2.0, is reverted in this release.

As of this release, MySQL Router 9.3.0 can connect to MySQL Servers from a newer series. A warning is displayed, but the connection is supported. (Bug #37690477)

References: See also: Bug #36041256.

- Dollar-quoted strings were not supported. A syntax error was returned. (Bug #37538219)
- The `http_server` plugin would throw an uncaught exception and terminate when given an invalid URL. Now the exception is caught with a 400 HTTP (Bad Request) error returned to the client. (Bug #37499075)
- Improved `close_connection_after_refresh=0` behavior for statements making an `UPDATE` statement, which would always create a new connection. Now cached connections to the `PRIMARY` are used for `UPDATE` queries, as otherwise a new connection is opened for each update. (Bug #37453301)
- It is no longer necessary to escape string values in Routing Guideline tags with `\`. Such string values are still supported, but not necessary. (Bug #37408429, Bug #37408370)
- If a client without the `SESSION TRACK` capability, or without enabling `trackSessionState` (MySQL Connector/J), connected to the Read/Write splitting port of MySQL Router, updates could fail with an error similar to the following:

```
Buffer length is less than expected payload length.
```

(Bug #36374232)

- Empty and commented out statements were not allowed with Read-Write splitting enabled. (Bug #116952, Bug #37391353)
- Enabling the `ANSI_QUOTES sql_mode` was not allowed with Read-Write splitting enabled, and queries with it enabled would log an 'Unknown column' warning. (Bug #116950, Bug #37391347)

## Changes in MySQL Router 9.2.0 (2025-01-21, Innovation Release)

- [Functionality Added or Changed](#)
- [Bugs Fixed](#)

### Functionality Added or Changed

- Added a new `close_connection_after_refresh metadata_cache` option to control whether a connection remains open for future metadata refresh operations. If set to 0 (default), the `metadata_cache` keeps the connection open if the refresh succeeded and if the next refresh is to the same MySQL server. Setting it to 1 is similar to previous behavior, in that the connection is closed after each metadata refresh operation. (WL #16652)
- The `destinations` option now supports Unix domain sockets. (WL #16582)
- This release introduces Routing Guidelines, a flexible and unified configuration interface enabling users to customize routing behavior. Routing Guidelines are defined as a JSON document, stored in the metadata schema.

Use the MySQL Shell AdminAPI `RoutingGuideline` class to interact with these guidelines, and see the [MySQL Shell 9.2.0 release notes](#) for additional information. (WL #14119)

### Bugs Fixed

- **Important Change:** MySQL Router no longer supports MySQL Server versions from a newer series. The metadata is checked and discarded for servers from a newer series, a check that executes during bootstrap and during periodic metadata refresh operations. A newer version in the same series is supported. For example, MySQL Router 8.4.4 supports MySQL Server 8.4.5 but not MySQL Server 9.0.0. (Bug #36041256)

- Because building with `CMAKE_BUILD_TYPE=Debug` disables optimizations, `std::vector.resize()` attempted to initialize every byte before each read from an encrypted socket. Memory usage was improved to account for this. (Bug #37385923)
- Accessing the `/routes/{name}/connections` REST API endpoint while also benchmarking queries through the router could cause the router to unexpectedly halt. (Bug #37251508)
- OpenID Connect authentication stopped functioning for a connection with the following scenario: the default authentication plugin was set to `openid_connect`, the MySQL Router connection pool was enabled, and the connection was in the pool ready for reuse. (Bug #37190332)
- When `stats_updates_frequency` was set to an unexpected value, MySQL Router would log a warning during each metadata refresh thus clogging the logs. Now the warning is logged just once, unless the value changed. (Bug #116951, Bug #37391164)

## Changes in MySQL Router 9.1.0 (2024-10-15, Innovation Release)

- [Functionality Added or Changed](#)
- [Bugs Fixed](#)

### Functionality Added or Changed

- Added *OpenID Connect* support, which is available as of MySQL Enterprise Edition Server 9.1.0. (WL #16466)

### Bugs Fixed

- With connection sharing enabled, changing the password of an active connection yielded a vague "Lost connection" error instead of indicating that reauthentication failed. (Bug #36981282)
- Updated `<cstring>` and `<iostream>` header usage by adding or removing their inclusion as needed, and annotated the functions utilized from each. (Bug #36946579, Bug #36951336)
- Replaced most uses of `std::enable_if<>` and `std::enable_if_t<>` with the `requires` keyword introduced in C++20, to limit the visibility of methods. This improves the error messages and stack traces. (Bug #36939919)
- On macOS, AddressSanitizer (ASan) discovered a potential issue with connection pooling that could cause Router to unexpectedly halt. (Bug #36935988)
- Bootstrapping against a MySQL account that used the `mysql_native_password` authentication plugin with MySQL Router 9.0 from a standalone (zip or tar.gz) package would exit with an error indicating that the plugin was not available. (Bug #36915646)
- Improved the dependency injection mechanism (DIM) to increase performance in a multithreaded environment. DIM is no longer controlled by a single mutex. (Bug #36846616)
- In some cases, the LogFilter would execute when a log message wasn't logged. (Bug #36841009)
- Improved HTTP request handling performance by using the ICU regex implementation instead of `std::regex`. (Bug #36797250)
- Improved HTTP request handling to better scale for a large number of parallel connections. (Bug #36796808)
- Building with the MSVC "Build Solution" target now excludes building `mysqlxmessages_shared`, which was already defined as `EXCLUDE_FROM_ALL`. (Bug #36719728)

- A TLS shutdown was not executed when Read-Write splitting was used and a prepared statement needed to be prepared on the Write node but the current connection was on the Read node. (Bug #36715733)
- Connections in the connection pool were closed without waiting for the server to close the connection which affected the TLS session reuse cache. This affected connection sharing and Read-Write splitting as both let the connection pool close their connections. (Bug #36715372)
- Greatly improved HTTP/2 compatibility for the REST API. (Bug #36697876)
- With Read-Write splitting enabled and after the PRIMARY switched its role to SECONDARY, all write statements would fail with an error indicating that the MySQL server is running in super\_read\_only mode. Now it drops the client connection like it does without Read-Write splitting. (Bug #114594, Bug #36591958)

## Changes in MySQL Router 9.0.1 (2024-07-23, Innovation Release)

This release contains no functional changes and is published to align its version number with that of the MySQL Server 9.0.1 release.

## Changes in MySQL Router 9.0.0 (2024-07-01, Innovation Release)



### Important

This release is no longer available for download. It was removed due to a dependency on a version of the server which is also no longer available for download. See [MySQL 9.0.0 Release Notes](#). Please upgrade to MySQL Router 9.0.1 instead.

## Bugs Fixed

- System variable changes were not propagated when read-write splitting was enabled. (Bug #36674083)
- Current schema changes were not propagated to shared connections when both read-write splitting and connection sharing were enabled. (Bug #36663727)
- Increased the maximum `router_id` value from 999999 to 4294967295 ( $2^{32}-1$ ). This also affects how the internal `metadata_cache` `user` name is defined. (Bug #36393211)