# MySQL Router 8.1 Release Notes

#### **Abstract**

This document contains release notes for the changes in each release of MySQL Router 8.1.

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**

This document contains release notes for the changes in each release of MySQL Router 8.1.

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# Changes in MySQL Router 8.1.0 (2023-07-18, Innovation Release)

- · Functionality Added or Changed
- Bugs Fixed

### **Functionality Added or Changed**

TLS sessions from client to router and router to server can now be cached and resumed when needed.
 This shortens the connection handshake, saving time and resources.

The following configuration options were added:

- Client TLS session cache:
  - client\_ssl\_session\_cache\_mode: Enables or disables the cache for client-router TLS sessions.
  - client ssl session cache size: Defines the maximum number of sessions cached.
  - client\_ssl\_session\_cache\_timeout: Defines the maximum amount of time, in seconds, a session remains in the cache. If the timeout is reached, and the session is not reused, the session is removed from the cache and the connection is closed.
- Server TLS Session Cache:
  - server ssl session cache mode: Enables or disables the cache for router-server sessions.
  - server\_ssl\_session\_cache\_size: Defines the maximum number of sessions cached.
  - server\_ssl\_session\_cache\_timeout: Defines the maximum amount of time, in seconds, a session remains in the cache. If the timeout is reached, and the session is not reused, the session is removed from the cache and the connection is closed.

The TLS session caches are enabled by default. (WL #15573)

• The status\_update\_frequency changes introduced for ClusterSets in MySQL Router 8.0.31 are extended to apply to Clusters and ReplicaSets, but only for Metadata Schema version 2.2.0 or higher.

See WL#15230 for more information. (WL #15599)

If MySQL Router connects to a server and the connection is refused with a transient error, such as maxconnections reached, MySQL Router now retries the connection after a number of seconds defined
in the new configuration option connect\_retry\_timeout. (WL #15721)

· MySQL Router supports InnoDB Cluster Read Replicas.

MySQL Router reads the values defined in the metadata field, v2\_router\_options.router\_options.read\_only\_targets, to retrieve routing information for read-only traffic.

v2\_router\_options.router\_options.read\_only\_targets is populated by the AdminAPI method <code>cluster.setRoutingOption()</code> which sets the routing policy to one of the following values with the read only targets option:

- all: all Read Replicas and Secondary cluster members are used for read-only traffic.
- read\_replicas: only Read Replicas are used for read-only traffic.
- secondaries: only Secondary cluster members are used for read-only traffic.



#### Note

If read\_only\_targets is not present, or set to a value other than all, read\_replicas, or secondaries, MySQL Router defaults to secondaries.

A warning is logged if a value other than all, read\_replicas, or secondaries is used.

(WL #15086)

• MySQL Router now supports tracing of statements as they are processed by MySQL Router from client to server and the response to the client. The trace is returned as JSON.

This enables debugging, testing, application connection comparisons, and so on.

See MySQL Router Set Trace. (WL #15582)

### **Bugs Fixed**

- Deprecated ciphers were removed from the default cipher lists of client\_ssl\_cipher and server\_ssl\_cipher. Triple-DES ciphers and DSS ciphers are no longer permitted. (Bug #35489217)
- It was not possible to run two MySQL Routers as services on the same Microsoft Windows host. (Bug #35453506)
- MySQL Router failed to start if configured to use ECC certificates. The following error was displayed: no RSA certificate. (Bug #35317484)
- Connections were not shared if the client enabled CLIENT\_MULTI\_STATEMENTS with COM\_SET\_OPTION. (Bug #35263986)
- SHOW WARNINGS did not behave as expected if connection sharing was enabled. It did not return all the status-flags, such as autocommit. (Bug #35213196)
- Client authentication failed if the client authenticated with a password and a default authentication method other than caching\_sha2\_password. The error message included: using password: NO. (Bug #35195287)
- Connection sharing was disabled if a change-user operation occurred, resetting the user's stored password. As of this release, if a change-user operation is called, the existing connection is updated with the new credentials. (Bug #35189721)

• The client's character set was not restored when their connection was restored from the connection pool.