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# MySQL Shell 9.2 Release Notes

## Abstract

This document contains release notes for the changes in MySQL Shell 9.2.

For additional MySQL Shell documentation, see <http://dev.mysql.com/>.

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

- [AdminAPI Added or Changed Functionality](#)
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## AdminAPI Added or Changed Functionality

- 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.

A Routing Guideline document classifies all destinations in the topology and enables you to define strict rules on what type of client session is connected to what member of the topology.

A new class, `RoutingGuideline` is added to the AdminAPI. See the [AdminAPI](#) section of the [MySQL Shell JavaScript API](#) or the [MySQL Shell Python API](#).

The following methods were added to the Cluster, ClusterSet, and ReplicaSet classes:

- `create_routing_guideline(name[, json[, options]])`
- `get_routing_guideline([name])`
- `routing_guidelines()`
- `remove_routing_guideline(name)`
- `import_routing_guideline(file, [options])`

The following methods were updated:

- `set_routing_option()`
- `routing_options()`

- `router_options()`
- `list_routers()`

See [Routing Guidelines](#). (WL #14022, WL #14023)

## AdminAPI Bugs Fixed

- `replicationLag` of `ReplicaSet.status()` returned `null` if replication was idle.

As of this release, the following changes were made:

- `replicationLag` is set to `null` if the replication connection, or SQL thread, is not running.
- `replicationLag` is set to `applier_queue_applied` when the last queued transaction matches the last applied transaction, or the applying transaction count is 0 (zero).

(Bug #35914505)

- It was not possible to remove a member from a ReplicaSet using `ReplicaSet.removeInstance()` with the `force` option enabled, if the member was in an ERROR state. (Bug #35282392)
- The ReplicaSet metadata schema table, `INSTANCES`, was not populated properly when upgrading the metadata schema to version 2.2.0. As a result, MySQL Router did not recognize the topology and rejected connections to it. (Bug #116231, Bug #37101286)

## Utilities Added or Changed Functionality

- As of this release, MySQL Shell no longer supports Instance Metadata Service (IMDS) v1. (Bug #37380810)
- The schema `MYSQL_AUTOPILOT` is excluded by dump and load operations with `ocimds:true`. (Bug #37278169)
- As of this release, the upgrade checker utility writes all compatibility issues and fixes to the log file, instead of only writing to the console. (Bug #37154456)
- The `util.checkForServerUpgrade` check, `routineSyntax` is renamed to `syntax` and now uses the SQL version of the target server for the syntax checks.

See [Utility Checks](#). (Bug #36589651, Bug #35640118, WL #16236)

- It is now possible to dump and load binary logs using the following new utilities:
  - `util.dumpBinlogs (outputUrl, {options})`: Dumps binary logs generated since a specific point in time to the given local or remote directory.
  - `util.loadBinlogs (outputUrl, {options})`: Loads binary log dumps created by MySQL Shell from a local or remote directory.

See [MySQL Shell Utilities](#). (WL #15977)

## Utilities Bugs Fixed

- If `convertBsonTypes` was enabled, the JSON import utility failed when importing negative BSON values.

An error similar to the following was returned:

```
ValueError: Unexpected data, expected to find an integer string processing extended JSON for $nu
```

(Bug #37243264)

- Amazon RDS made the following changes in 8.0.36:

- It is no longer possible to grant `BACKUP_ADMIN`.
- It is no longer possible to lock MySQL system tables.

As a result, consistent dumps from Amazon RDS are not possible.

As of this release, if locking the MySQL system tables fails with an Access Denied error, a warning is printed and the dump continues.

Additionally, for non-Amazon RDS instances, if the user has the `BACKUP_ADMIN` privilege and `LOCK INSTANCE FOR BACKUP` succeeds, the MySQL system tables are not locked. (Bug #37226153)

- Under certain circumstances, such as a large amount of data chunking, the `maxRate` dump option did not properly limit the throughput due to a gap between the start of the dump and the start of the data dump. As of this release, `maxRate` is used only when data is being dumped. (Bug #37216767)
- MySQL Shell could hang when running a dump with `consistent: true` under an account which lacked privileges to execute `FLUSH TABLES WITH READ LOCK`.

As of this release, query events are checked only if they contain data, and `GRANT` and `REVOKE` statements are flagged as unsafe. (Bug #37158908)

- The upgrade checker utility returned a false positive for foreign keys defined on tables in the Cluster metadata schema. (Bug #36975599)
- The `importTable` utility generated the following error if run over an X Protocol connection:

```
Util.importTable: A classic protocol session is required to perform  
this operation. (RuntimeError)
```

As of this release, similarly to the other dump, export, load, and copy utilities, `importTable` creates a classic connection for the operation. (Bug #34582616)

## Functionality Added or Changed

- As of this release, the Google V8 JavaScript engine is replaced by Oracle GraalVM. (Bug #34370637)
- As of this release, the default value of `history.autoSave` is changed to `true`, enabling the command history by default. (Bug #31746532)

## Bugs Fixed

- In MySQL Shell 8.0.40, RPM installation failed on Oracle Linux 8 due to a dependency on Python 3.9. As of this release, MySQL Shell bundles Python 3.13. (Bug #37479400)
- If a Windows account name contained non-ASCII characters, MySQL Shell could not load Python plugins because the file path was not correctly encoded. "No such file or directory" error was returned. (Bug #37105233)

- Under certain circumstances, a Ctrl+c key combination could lead to a deadlock. (Bug #35998250)