
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.

Document generated on: 2025-02-14 (revision: 29648)

Table of Contents

Preface and Legal Notices	1
Changes in MySQL Shell 9.2.0 (2025-01-21, Innovation Release)	3

Preface and Legal Notices

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

Legal Notices

Copyright © 1997, 2025, Oracle and/or its affiliates.

License Restrictions

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

Warranty Disclaimer

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

Restricted Rights Notice

If this is software, software documentation, data (as defined in the Federal Acquisition Regulation), or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs (including any operating system, integrated software, any programs embedded, installed, or activated on delivered hardware, and modifications

of such programs) and Oracle computer documentation or other Oracle data delivered to or accessed by U.S. Government end users are "commercial computer software," "commercial computer software documentation," or "limited rights data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, reproduction, duplication, release, display, disclosure, modification, preparation of derivative works, and/or adaptation of i) Oracle programs (including any operating system, integrated software, any programs embedded, installed, or activated on delivered hardware, and modifications of such programs), ii) Oracle computer documentation and/or iii) other Oracle data, is subject to the rights and limitations specified in the license contained in the applicable contract. The terms governing the U.S. Government's use of Oracle cloud services are defined by the applicable contract for such services. No other rights are granted to the U.S. Government.

Hazardous Applications Notice

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Trademark Notice

Oracle, Java, MySQL, and NetSuite are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Inside are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Epyc, and the AMD logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

Third-Party Content, Products, and Services Disclaimer

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

Use of This Documentation

This documentation is NOT distributed under a GPL license. Use of this documentation is subject to the following terms:

You may create a printed copy of this documentation solely for your own personal use. Conversion to other formats is allowed as long as the actual content is not altered or edited in any way. You shall not publish or distribute this documentation in any form or on any media, except if you distribute the documentation in a manner similar to how Oracle disseminates it (that is, electronically for download on a Web site with the software) or on a CD-ROM or similar medium, provided however that the documentation is disseminated together with the software on the same medium. Any other use, such as any dissemination of printed copies or use of this documentation, in whole or in part, in another publication, requires the prior written consent from an authorized representative of Oracle. Oracle and/or its affiliates reserve any and all rights to this documentation not expressly granted above.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

Access to Oracle Support for Accessibility

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

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

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

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 $num
```

(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)

