
MySQL Operator Release Notes

Abstract

This document contains release notes for the changes in each release of MySQL Operator for Kubernetes.

For additional MySQL Operator for Kubernetes documentation, see [MySQL Operator for Kubernetes](#).

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 General Availability release of MySQL Operator for Kubernetes.

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Changes in MySQL Operator for Kubernetes 9

Changes in MySQL Operator for Kubernetes 9.5.0-2.2.6 (Not yet released, Innovation Release)

Version 9.5.0-2.2.6 has no release notes, or they have not been published because the product version has not been released.

Changes in MySQL Operator for Kubernetes 9.4.0-2.2.5 (2025-07-22, Innovation Release)



Note

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

Functionality Added or Changed

- Support for affinity rules and nodeSelector have been added to the [mysql-operator](#) Helm chart, to allow control for scheduling. (Bug #38085499)
- The cipher suites usable by the MySQL Operator for Kubernetes are now limited to the following, which satisfy Oracle's security standards:
 - TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA384
 - TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384
 - TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA256
 - TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256
 - TLS_DHE_RSA_WITH_AES_256_GCM_SHA384
 - TLS_DHE_RSA_WITH_AES_128_GCM_SHA256
 - TLS_DHE_RSA_WITH_AES_256_CBC_SHA256
 - TLS_DHE_RSA_WITH_AES_128_CBC_SHA256

Support for other ciphers has been removed. (Bug #37998747)

Changes in MySQL Operator for Kubernetes 9.3.0-2.2.4 (2025-05-09, Innovation Release)

Functionality Added or Changed

- *For the Enterprise Edition only:* MySQL Operator for Kubernetes now supports creating [backups](#) to cloud storage using the MySQL Enterprise Backup tool, and restoring such backups to server instances in InnoDB Clusters. Backups can be one-off or scheduled, and both full and incremental backups are supported.



Note

Backup to S3 is only supported on the AWS home region.

(WL #16632, WL #16633)

- *For the Enterprise Edition only:* MySQL Operator for Kubernetes now supports the creation of [InnoDB ClusterSet](#), which consists of a primary InnoDB Cluster and zero or more replica clusters. Within each ClusterSet, data is replicated from the primary to the replica clusters by asynchronous replication channels. MySQL Operator for Kubernetes can trigger a [switchover](#), replacing a primary cluster by its replica cluster. [Emergency failovers](#) of the primary clusters are also supported.

Each InnoDB Cluster is put into an InnoDB ClusterSet when it is created by MySQL Operator for Kubernetes: It can either be in a new ClusterSet as its single and primary cluster, or it can join a specific, pre-existing ClusterSet as a replica cluster. (WL #16661)

Changes in MySQL Operator for Kubernetes 9.2.0-2.2.3 (2025-02-04, Innovation Release)

Bugs Fixed

- Using `initDB.clone` in an `InnoDBCluster` specification to provision (clone) a new MySQL server from a MySQL server not managed by MySQL Operator for Kubernetes would fail, as the source server did not have the "localroot" user that is created by the operator. Now the provided user credentials are used for set up rather than requiring a "localroot" user. (Bug #37355357)
- The minimum supported MySQL Router and MySQL Server version is now 8.0.28, which is when MySQL Router added the `--conf-set-option` configuration option. (Bug #37202312)
- All log entries are no longer posted as events.

Changes in MySQL Operator for Kubernetes 9.1.0-2.2.2 (2024-10-15, Innovation Release)

Bugs Fixed

- Added configuration options to alter or disable the *init container* that executes as root to change permissions on mounted data directories for MySQL.

This change adds a new `datadirPermissions` specification with optional `fsGroupChangePolicy` and `setRightsUsingInitContainer` configuration options. (Bug #37083815)

Changes in MySQL Operator for Kubernetes 9.0.1-2.2.1 (2024-07-23, Innovation Release)

Bugs Fixed

- Information from Kubernetes Secrets are no longer passed as environment variables to containers. (Bug #36355629)

Changes in MySQL Operator for Kubernetes 9.0.0-2.2.0 (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 Operator for Kubernetes 9.0.1-2.2.1 instead.

Bugs Fixed

- Router is now unregistered from the InnoDB Cluster metadata when a router pod is deleted. (Bug #36658788)

Changes in MySQL Operator for Kubernetes 8.x

Changes in MySQL Operator for Kubernetes 8.4.6-2.1.8 (2025-07-22, LTS Release)

This release contains no functional changes, aside from the standard MySQL Shell upgrade to match the MySQL Operator for Kubernetes version.

Changes in MySQL Operator for Kubernetes 8.4.5-2.1.7 (2025-05-09, LTS Release)

Version 8.4.5-2.1.7 has no release notes, or they have not been published because the product version has not been released.

Changes in MySQL Operator for Kubernetes 8.4.4-2.1.6 (2025-02-04, LTS Release)

Bugs Fixed

- All log entries are no longer posted as events.

Changes in MySQL Operator for Kubernetes 8.4.3-2.1.5 (2024-10-15, LTS Release)

This release contains no functional changes, aside from the standard MySQL Shell upgrade to match the MySQL Operator for Kubernetes version.

Changes in MySQL Operator for Kubernetes 8.4.2-2.1.4 (Not released (Skipped), LTS Release)

This version was skipped to align the version number with the MySQL Server 8.4.2 release.

Changes in MySQL Operator for Kubernetes 8.4.1-2.1.4 (2024-07-01, LTS Release)

This release contains no functional changes, aside from the standard MySQL Shell upgrade to match the MySQL Operator for Kubernetes version.

Changes in MySQL Operator for Kubernetes 8.4.0-2.1.3 (2024-04-30, LTS Release)

Functionality Added or Changed

- Added the ability to configure the cluster's [host name](#) as used by the operator, which defaults to `{pod}.{cluster name}-instances.{namespace}.svc.{cluster domain}`.

The new `MYSQL_OPERATOR_FQDN_TEMPLATE` environment variable can override the default value, and the new `InnoDBCluster spec.serviceFqdnTemplate` property can overwrite the value for a cluster. This value can not be changed after creating the InnoDB Cluster.

The default template value is `{service}.{namespace}.svc.{domain}`, and the generated host is prefixed with the pod name. The meaning of these template values: `{service}` is the name of the generated headless service, such as `mycluster-instances`; `{namespace}` is the Kubernetes namespace where the InnoDB Cluster is deployed, such as `default`; and `{domain}` is the Kubernetes cluster domain, which defaults to `cluster.local`. (WL #16167)

Changes in MySQL Operator for Kubernetes 8.3.0-2.1.2 (2024-01-16, Innovation Release)

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

Functionality Added or Changed

- The operator now adds imagePullSecrets to the ServiceAccount it creates instead of adding them to the StatefulSet pod template. However, if you supply an existing ServiceAccount then the operator will add the pull secrets to it. (WL #15911)
- Switched from using keyring plugins to keyring components, which only impacts the OCI keyring. Keyring files and encrypted files already used components. (WL #15999)

Bugs Fixed

- Enabling a MySQL keyring would not install the keyring_udf plugin on secondary servers, which caused errors when attempting to use the plugin. Now the keyring_udf plugin is installed on all instances.

In addition, now the `keyring` `fileName` property defaults to "mysql_keyring" as the file name, and the `fileName` file path value is now relative to the mount point of the `storage` property value when before it accepted a full file path. (Bug #35983060)

- With Istio enabled, finalizers for terminated MySQL pods were not removed thus the MySQL pods would not terminate. (Bug #34718687)

- Added timezone support for backup schedules, a feature added in Kubernetes 1.25.

Thanks to Eldin Didic for the contribution. (Bug #113149, Bug #36029313)

- Changing the schedule time for a backup cronjob had no affect; the old cronjob value was preserved and used. (Bug #111794, Bug #35636172)

Changes in MySQL Operator for Kubernetes 8.2.0-2.1.1 (2023-10-25, Innovation Release)

Functionality Added or Changed

- Added the ability to define custom MySQL Router bootstrap options. An example InnoDBCluster definition entry that increases the maximum number of connections using the new `router.bootstrapOptions` array option:

```
...
router:
  bootstrapOptions:
    - --conf-set-option=DEFAULT.max_connections=1024
...
```

Updating this option restarts the underlying Deployment to apply the settings.

In addition to `bootstrapOptions`, a new array option named `router.option` is passed to MySQL Router during runtime. (Bug #35205271)

- Improved MySQL Server log file handling; this includes options to configure whether logs are collected, to set `--log-error-verbosity`, and to define log location. In addition, fluentd log aggregation support was added which includes fluentd customization operator properties. (WL #15351)
- Added functionality that enables certificate-based authentication between cluster members with X509 certificates for users, unless `tls.useSelfSigned = true`. (WL #15704)
- Added properties to configure the Service type, which still defaults to ClusterIP but now also allows NodePort and LoadBalancer. Additionally, the port type defaults to `mysql-rw` but now also allows `mysql-ro` and `mysql-rw-split`. (WL #15818)
- Added support for Read Replicas with a new `readReplicas` property. This utilizes MySQL Shell AdminAPI functionality that was added in MySQL Shell 8.1.0. (WL #15271)

Changes in MySQL Operator for Kubernetes 8.1.0-2.1.0 (2023-07-26, Innovation Release)

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

Functionality Added or Changed

- The cron jobs created by scheduled backups reference an operator image, and this operator image version now gets updated. (WL #15583)
- Added metric provider support for each MySQL server managed by the operator. (WL #15584)

Bugs Fixed

- Updating labels and annotations in the InnoDB Cluster object did not update them in each associated server StatefulSet and Router Deployment. (Bug #35200956)
- When an InnoDB Cluster was deleted after the last remaining pod was terminated due to rolling restart, then the finalizer was not removed. (Bug #35200413)

Changes in MySQL Operator for Kubernetes 8.0

Changes in MySQL Operator for Kubernetes 8.0.43-2.0.19 (2025-07-22, General Availability)

This release contains no functional changes, aside from the standard MySQL Shell upgrade to match the MySQL Operator for Kubernetes version.

Changes in MySQL Operator for Kubernetes 8.0.42-2.0.18 (2025-05-09, General Availability)

Version 8.0.42-2.0.18 has no release notes, or they have not been published because the product version has not been released.

Changes in MySQL Operator for Kubernetes 8.0.41-2.0.17 (2025-02-04, General Availability)

Bugs Fixed

- All log entries are no longer posted as events.

Changes in MySQL Operator for Kubernetes 8.0.40-2.0.16 (2024-10-15, General Availability)

This release contains no functional changes, aside from the standard MySQL Shell upgrade to match the MySQL Operator for Kubernetes version.

Changes in MySQL Operator for Kubernetes 8.0.39-2.0.15 (Not released (Skipped), General Availability)

This version was skipped to align the version number with the MySQL Server 8.0.39 release.

Changes in MySQL Operator for Kubernetes 8.0.38-2.0.15 (2024-07-01, General Availability)

This release contains no functional changes, aside from the standard MySQL Shell upgrade to match the MySQL Operator for Kubernetes version.

Changes in MySQL Operator for Kubernetes 8.0.37-2.0.14 (2024-04-30, General Availability)

This release contains no functional changes, aside from the standard MySQL Shell upgrade to match the MySQL Operator for Kubernetes version.

Changes in MySQL Operator for Kubernetes 8.0.36-2.0.13 (2024-01-16, General Availability)

Bugs Fixed

- With Istio enabled, finalizers for terminated MySQL pods were not removed thus the MySQL pods would not terminate. (Bug #34718687)

Changes in MySQL Operator for Kubernetes 8.0.35-2.0.12 (2023-10-25, General Availability)

This release contains no functional changes, aside from the standard MySQL Shell upgrade to match the MySQL Operator for Kubernetes version.

Changes in MySQL Operator for Kubernetes 8.0.34-2.0.11 (2023-07-26, General Availability)

This release contains no functional changes, aside from the standard MySQL Shell upgrade to match the MySQL Operator for Kubernetes version.

Changes in MySQL Operator for Kubernetes 8.0.33-2.0.10 (2023-05-19, General Availability)

Bugs Fixed

- Fixed a known limitation of the 8.0.33-2.0.9 release, which was: if an existing InnoDB Cluster was initially created using MySQL Operator 8.0.30-2.0.6 or earlier, then an update to 8.0.33-2.0.9 failed with an `Init:Error` error when one of the server pods was updated. This happened even if there had already been an update to 8.0.32-2.0.8. (Bug #110865, Bug #35341880)

Changes in MySQL Operator for Kubernetes 8.0.33-2.0.9 (2023-04-18, General Availability)

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

Known Limitation

- A known limitation of this release: if an existing InnoDB Cluster was initially created using MySQL Operator 8.0.30-2.0.6 or earlier, then an update to 8.0.33-2.0.9 fails with an `Init:Error` error

when one of the server pods is updated. This happens even if there had already been an update to 8.0.32-2.0.8.

Either apply the following workaround to 8.0.33-2.0.9 before performing the upgrade, or instead upgrade to the 8.0.33-2.0.10 release that followed.

```
$> kubectl patch sts mycluster --patch '{"spec": { "template": { "spec": {  
  "containers": [ { "name": "sidecar", "command": ["mysqlsh",  
    "--pym", "mysqloperator", "sidecar", "--pod-name", "${MY_POD_NAME}",  
    "--pod-namespace", "${MY_POD_NAMESPACE}", "--datadir",  
    "/var/lib/mysql"] } } ], "initContainers": [ { "name": "initconf", "command":  
    ["mysqlsh", "--log-level=@INFO", "--pym", "mysqloperator",  
    "init", "--pod-name", "${MY_POD_NAME}", "--pod-namespace",  
    "${MY_POD_NAMESPACE}", "--datadir", "/var/lib/mysql"] } ] } } }'}
```

(Bug #110865, Bug #35341880)

Functionality Added or Changed

- Updating a MySQL server image now also updates the MySQL Operator sidecar to the latest version. (WL #15452)
- Added custom cluster domain detection to allow name's other than "cluster.local" for services inside the cluster. The operator detects the domain on startup, or alternatively instead of detection it uses either the new MYSQL_OPERATOR_K8S_CLUSTER_DOMAIN environment variable or the new k8sClusterDomain option in Helm. (WL #15512)
- The default container registry changed from DockerHub to the Oracle Container Registry (OCR). This change includes both the prefix and image naming scheme. For example, "mysql/mysql-operator" becomes "container-registry.oracle.com/mysql/community-operator" with similar changes for the router, server, and operating system.

Local registry mirrors must change images names to the community-[server|router|operator] format instead of mysql-[server|router|operator]. (WL #15579)

Bugs Fixed

- Added labels and annotations to the "create backup job" backup pods. (Bug #35082223)
- Dropped `securityContext` capabilities for MySQL server and router by setting their capabilities to `drop: - ALL`. (Bug #35078555)
- The primary service for a MySQL InnoDBCluster did not expose MySQL Router's REST API. The port name `router-rest` was added that evaluates to `8443`. (Bug #34925361)
- Installing or upgrading a MySQL InnoDBCluster with Helm would ignore a `router.podSpec` definition if `tls.useSelfSigned` was enabled. (Bug #110212, Bug #35131229)
- Added helm functionality to disable lookups for MySQL Operator.

Thanks to Mayank Mohindra for the contribution. (Bug #109746, Bug #35015230)

- Renaming a backup profile name caused MySQL Operator to throw an exception every minute.

(Bug #109419, Bug #34910811)

Changes in MySQL Operator for Kubernetes 8.0.32-2.0.8 (2023-01-17, General Availability)

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

Functionality Added or Changed

- Added support for the following MySQL server enterprise keyring features: keyring UDF functions, `keyring_file`, `keyring_encrypted_file`, and `keyring_oci`. This adds a new "keyring" element to the InnoDB Cluster specification. (WL #15267)

Bugs Fixed

- An unhandled exception was emitted by `dba.removeInstance()` if the finalizer of the pod being deleted (due to eviction, scale down, version upgrade, or general STS change) was not removed; the operation would remain stuck in the terminating state. (Bug #34860802)
- Defining a repository URL with a trailing slash was not recognized as a valid URL. (Bug #34731139)
- Added `podLabels` and `podAnnotations` support for InnoDB cluster and backup profiles. (Bug #34728086, Bug #34733731)
- The `readinessprobe.sh` script could not write to `/mysql-ready` as a shortcut to indicate readiness for the container. It's now written to `/tmp/mysql-ready` and functions for new InnoDB clusters. (Bug #34719171)
- InnoDB cluster deployment could create a second router before the first router was terminated, and do so when one router was expected. (Bug #34689594)
- The MySQL InnoDBCluster helm charts did not allow specifying the `podSpec` for a router. This prevented specifying settings such as affinity for the deployed routers. (Bug #34659086)
- Operator now supports a `spec.initDB.dump.options` object as a dictionary of key-value pairs that are directly passed to MySQL Shell's `loadDump()`. (Bug #34648640)
- Added a `securityContext` specification to backups that allows the backup pod to execute and store files as user `mysql:mysql` instead of user `root:root`. This also adds a new `initContainer` named `fixdumppdir` that changes the mounted directory to `mysql:mysql`. (Bug #34559403)
- Altered security context capabilities by changing the following privileges from 'add' to 'drop': `DAC_OVERRIDE`, `SETGID`, `SETUID`, `SYS_NICE`, and `SYS_RESOURCE`. (Bug #108196, Bug #34568118)

Changes in MySQL Operator for Kubernetes 8.0.31-2.0.7 (2022-10-11, General Availability)

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

Functionality Added or Changed

- Added AWS S3 support, a feature added in MySQL Shell 8.0.30.

This extends the `dumpInstance.storage` and `initDB.storage` properties to include an `s3` property with `bucketName` and `credentials`. The `credentials` property is a Kubernetes Secret with `awsAccessKeyId`, `awsSecretAccessKey`, `awsSessionToken` (optional), `region`, and `s3EndpointOverride` (optional). (WL #15115)

Bugs Fixed

- Dropped compatibility for Kubernetes 1.20 and older. (Bug #34624864)
- The `dumpOptions` definition defined in a MySQL Backup request was ignored. (Bug #34569963)
- Fixed cluster controller that would prevent the operator to transition the cluster to a ready state when using `initDB.dump.storage`. (Bug #34568096)

- The operator now only checks changes to InnoDBCluster related secrets. (Bug #34537538)

Changes in MySQL Operator for Kubernetes 8.0.30-2.0.6 (2022-09-05, General Availability)

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

Functionality Added or Changed

- The 8.0.30 enterprise edition installs MySQL Shell 8.0.29 instead of 8.0.30. (Bug #108189, Bug #34519959)
- Enterprise data masking and encryption functions are now enabled by default for enterprise versions. (WL #15224)

Bugs Fixed

- Added error handling to account for the MySQL Server 8.0.29 removal. (Bug #34537780)
- For Helm, added support to customize the podSpec section. (Bug #34491762)
- For Helm, added support to customize the `storageClassName` field.
Our thanks to Alberto Clemente for the contribution. (Bug #108083, Bug #34472884)
- For Helm, added support to select the MySQL Edition (as either 'community' or 'enterprise').
Our thanks to Alberto Clemente for the contribution. (Bug #108082, Bug #34472883)

Changes in MySQL Operator for Kubernetes 8.0.30-2.0.5 (2022-07-26, General Availability)

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

Functionality Added or Changed

- Updated the following dependencies: Kopf from v1.33.0 to v1.35.4, and the Kubernetes client from v18.20.0 to v23.6.0. (WL #15047)
- Group replication now uses the MySQL protocol to establish connections instead of the internal XCom communication infrastructure. Newly created clusters use the MySQL Protocol via port 3306, whereas clusters created using a previous version will continue to use XCom on port 33061.

This also changes the minimum supported MySQL Server version from v8.0.24 to v8.0.27. (WL #15225)
- Added cert-manager (a CNCF project) support. (WL #15231)

Bugs Fixed

- Backup cron jobs were not deleted when their associated InnoDB Cluster was deleted. (Bug #33788741)
- Removed the `AUDIT_READ` securityContext capability; a feature introduced in Linux Kernel 3.16 which is too new for some K8s installations, such as Enterprise Linux 7. (Bug #107322, Bug #34218300)

- Added mycnf support in the InnoDB Cluster helm chart.

Thanks to Ales Verbic for the contribution. (Bug #107082, Bug #34095308)

Changes in MySQL Operator for Kubernetes 8.0.29 (2022-04-26, General Availability)



Important

Because [MySQL Server 8.0.29 was removed](#), attempts to pull in MySQL Server 8.0.29 images will fail. Instead, upgrade to MySQL Operator for Kubernetes 8.0.30.

MySQL Operator for Kubernetes reached General Availability status in version 8.0.29. Release notes were added after this release, beginning with 8.0.30.

Changes in MySQL Operator for Kubernetes 8.0.28 (2022-01-18, Development Milestone)

There are no release notes for this release.

