MySQL Cluster Manager 8.0 Release Notes

Abstract

This document contains information about changes in successive versions of MySQL Cluster Manager 8.0, starting with the most recent release (MySQL Cluster Manager 8.0.26). Changes in previous MySQL Cluster Manager releases can be found afterwards, ordered from newest to oldest.

For additional MySQL Cluster Manager 8.0 documentation, see https://dev.mysql.com/doc/mysql-cluster-manager/8.0/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 Cluster Manager 8.0.26 (2021-07-20, General Availability)

Version 8.0.26 is the first General Availability release of the 8.0 series of MySQL Cluster Manager. It is suitable for use with MySQL NDB Cluster 8.0, 7.6, and 7.5.

Listed below are functionality changes and bug fixes for MySQL Cluster Manager 8.0.26, in comparison to release 1.4.8.

• Functionality Added or Changed

• Bugs Fixed

Functionality Added or Changed

• Important Change: There are a number of important changes going from MySQL Cluster Manager 1.4 and 8.0; see What's New in MySQL Cluster Manager 8.0? for details. Users of MySQL Cluster Manager 1.4 should make sure they understand those changes before they migrate to MySQL Cluster Manager 8.0.

• Agent: Status detection for a management or data node has become more efficient, as mcmd no longer relies on reading the log of the node to determine its readiness. (Bug #31446224)

• Client: The file hierarchy under the collected-files folder created by the collect logs command has been reorganized. See the description for the collect logs command for details. (Bug #27921828)

• Client: The mcml client delivered in the stand-alone MySQL Cluster Manager package for Linux platforms (which does not include the NDB Cluster binaries) no longer has a dependence on a mysql client already installed on the system. (Bug #14032410)

Bugs Fixed

• Agent: The memory size returned by the show settings command using the --hostinfo option was not always consistent. It was because the value was not rounded off to the nearest megabyte by a consistent method, and this patch corrects the issue. (Bug #32788118)

• Agent: mcmd quit unexpectedly when running the import config command for a 8.0.24 or 8.0.25 cluster with an ndb_mgmd node ran with the --print-full-config option. (Bug #32785972)

• Agent: An update process command failed when a node was started with the --nowait-nodes option. With this fix, the option is allowed, but a warning is issued saying the option is not preserved after the update. The same applies now to the --initial-start and --logbuffer-size options, for the relevant node types. (Bug #32288203)

• Agent: When MySQL Cluster Manager was upgraded from 1.4.2 to 1.4.8, if the mcmd user on the mysqld nodes had localhost as its host, connections cannot be established to the mysqld nodes after the upgrade. It was because the upgrade changed the host for the user account to 127.0.0.1. With this patch, when connection fails for 'user'@'127.0.0.1', mcmd attempts 'user'@'localhost'. (Bug #32131361)

• Agent: After assigning explicitly each node to a node group, the cluster cannot be started if the node group IDs did not start from zero or were not consecutive numbers. This patch removes the restrictions. (Bug #31837504)

• Agent: The delete site command failed with the complaint that the site contains clusters even when it did not. (Bug #31739439)

• Agent: Where some command caused a process to fail (Error 7006), a warning from the log was displayed in place of the error message that explained the actual problem. (Bug #31496860)
• **Agent:** Sometimes, a node remained running even after the `mcm` client reported that it had been stopped successfully. It happened when `mcmd` experienced troubles with hostname resolutions, and this patch eliminated the unnecessary hostname lookups. (Bug #31399903)

• **Agent:** An `mcmd` agent might consume a disproportionately large amount of the host's CPU power when there was a long log of highly repetitive messages that `mcmd` tried to examine. This patch limits the extent by which `mcmd` would go backward in time when examining the log messages, in order to avoid the problem. (Bug #31364594)

• **Agent:** An `mcmd` agent quit unexpectedly during an `import config` command when a `mysqld` query returned an error or if the query failed due to a connection problem. (Bug #31336743)

• **Agent:** An `mcmd` agent quit unexpectedly during an `import config` command when a `mysqld` query returned an error or if the query failed due to a connection problem. (Bug #31336743)

• **Agent:** A `get` command failed with the complaint that the host's package was not defined if, after a cluster was created, a package was added to a host outside of the cluster, and then the host executed the `get` command on the cluster. It was because the `mcmd` agent did not look up package information from the configuration store, and this patch makes it do that. (Bug #31293854)

• **Agent:** An `mcmd` agent quit unexpectedly during an `import config` command when a `mysqld` query returned an error or if the query failed due to a connection problem. (Bug #31336743)

• **Agent:** A memory leak occurred for a `restore cluster` command run for an NDB 8.0 cluster when the `mcmd` agent failed to make a connection to a `mysqld` node. (Bug #30761243)

• **Client:** Hostnames longer than 64 characters were not supported by MySQL Cluster Manager. With this patch, the limit is extended to 255 characters. (Bug #29459484)

• When the MySQL Cluster Manager binaries for Red Hat Enterprise Linux/Oracle Enterprise Linux 7 was run on a Red Hat Enterprise Linux/Oracle Enterprise Linux 8 system, the operating system complained that the `libnsl.so.1` library was missing. However, the library was not really required. With this fix, the complaint disappears. (Bug #30996729)

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