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 8.0.27). 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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Table of Contents

Preface and Legal Notices

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Changes in MySQL Cluster Manager 8.0.27 (2021-10-19, General Availability)

Bugs Fixed

- **Agent:** Formats of the `.xml` configuration files in the `/var` folder under the MySQL Cluster Manager installation directory have been modified, to correct some minor issues. (Bug #33312186)
- **Agent:** `mcmd` quit unexpectedly when, in an `import config` operation, it ran into a file system error as it tried to access a cluster installation. With this fix, a proper error is thrown in the situation. (Bug #33173565)
- **Agent:** When using the `.msi` installer to install MySQL Cluster Manager on Windows platforms, the default target location was `C:\Program Files (x86)` even if MySQL Cluster Manager is a 64-bit software. Also, the installation ended up in `C:\Program Files (x86)` even if users chose `C:\Program Files` as its target location. These were because the installer mistook the software to be 32 bit, and that has been corrected by this patch. (Bug #33097025)

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 8.0.27 , 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 `mcm` 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:** 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:** On Windows platforms, an add hosts operation failed with a timeout at an attempt to add cloud hosts using computer names. (Bug #31095584)
- **Agent:** The create site command failed when the the name of the host for the `mcmd` agent was resolved to 127.0.1.1 by the operating system (which is the case in, for example, the default network setup for Ubuntu systems). (Bug #31012284)
- **Agent:** When all hosts of a cluster were restarted and remove hosts was the last command executed before that, if hostname resolutions failed for all the hosts with all the agents after the restart, the site for the cluster would then disappear from the site list. This was due to all the agents removing their hosts from the site in that situation, each thinking its own host had been removed by other agents. With this fix, at recovery, an agent now creates a repository backup before removing itself form a site, in order to avoid the inadvertent loss of the site configuration metadata. Also, a test on hostname resolution on all site members is performed before an agent removes itself from a site, and if the test fails, the remove hosts command is not executed. (Bug #30889457)
- **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)

Index

Symbols

A

C

H

I

L

R

S

U

W

X