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.

Document generated on: 2021-09-16 (revision: 23321)

Table of Contents

Preface and Legal Notices .................................................................................................................. 1
Changes in MySQL Cluster Manager 8.0.26 (2021-07-20, General Availability) ................................ 3
Index ............................................................................................................................................. 5

Preface and Legal Notices

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.

Legal Notices

Copyright © 2009, 2021, Oracle and/or its affiliates.

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.

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.
If this is software 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" or "commercial computer software documentation" 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.

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.

Oracle and Java 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.

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.

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
Access to Oracle Support for Accessibility

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit https://www.oracle.com/corporate/accessibility/learning-support.html#support-tab.

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 `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_mgmtd` 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 `mysqlld` nodes had `localhost` as its host, connections cannot be established to the `mysqlld`
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 mysql query returned an error or if the query failed due to a connection problem. (Bug #3136743)

- **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 mysql 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
--host-info, 3
--print-full-config, 3

A
add hosts, 3
Agent, 3

C
Client, 3
cloud hosts, 3
collect logs, 3
CPU usage, 3
create site, 3

H
hostname, 3

I
Important Change, 3

L
Linux platforms, 3

R
remove hosts, 3
restore cluster, 3

S
show settings, 3

U
update process, 3
upgrade, 3

W
Windows, 3