Abstract

This document lists the changes to the MySQL Enterprise Monitor 3.4 product, beginning with the most recent release. Each release section covers added or changed functionality, bug fixes, and known issues, if applicable. For information about changes in a different MySQL Enterprise Monitor series, see the release notes for that series.

For additional MySQL Enterprise Monitor 3.4 documentation, see the MySQL Enterprise Monitor 3.4.10 Manual.

For legal information, see the Legal Notices.

For help with using MySQL, please visit either the MySQL Forums or MySQL Mailing Lists, where you can discuss your issues with other MySQL users.

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Changes in MySQL Enterprise Monitor 3.4.10 (2018-10-16)

- Functionality Added or Changed
- Bugs Fixed
Functionality Added or Changed

• The Tomcat server, bundled with the MySQL Enterprise Service Manager, has been upgraded to 8.5.34.

Bugs Fixed

• Under certain circumstances, Out Of Memory errors caused the MySQL Enterprise Monitor Agent to restart. In the previous release, the default agent heap size, defined by the `MEM_AGENT_JAVA_OPTS` parameter in the `setenv.sh/bat` file, has been increased to 128MB.

Important

In the previous release, this issue was corrected for new installations. As of this release, this issue is also corrected for upgrades.

If you changed `MEM_AGENT_JAVA_OPTS` to a value greater than 128MB, the value is not changed by the upgrade. If you changed `MEM_AGENT_JAVA_OPTS` to a value lower than 128MB, the upgrade process updates the value to 128MB.

Changes in MySQL Enterprise Monitor 3.4.9 (2018-09-13)

• Security Notes

• Bugs Fixed

Security Notes

• MySQL Enterprise Service Manager has been updated to use Apache Struts 2.3.35, which has been publicly reported as not vulnerable to CVE-2018-11776. (Bug #28577924)

Bugs Fixed

• Under certain circumstances, Out Of Memory errors caused the MySQL Enterprise Monitor Agent to restart. As of this release, the default agent heap size, defined by the `MEM_AGENT_JAVA_OPTS` parameter in the `setenv.sh/bat` file, has been increased to 128MB.

Note

The new default is set for new installations only. If you are upgrading from a previous version, you must edit the `setenv.sh/bat` manually.

If you have already customized this value, ensure the custom value is at least equal to 128MB.

Changes in MySQL Enterprise Monitor 3.4.8 (2018-07-24)

• Functionality Added or Changed

• Bugs Fixed

Functionality Added or Changed

• The installers were updated with improved Japanese and Chinese translations.

Also, to better support Japanese installations, the `configuration_report` files, generated by the installer, now use the `utf8` character set.
• The OpenSSL libraries used by the MySQL Enterprise Monitor installers and MySQL Enterprise Monitor Aggregator have been upgraded to 1.0.20.

• The MySQL server, bundled with the MySQL Enterprise Service Manager, has been upgraded to MySQL 5.7.23.

• The bundled JRE was updated to 1.8.0_181 for both the Agent and Service Manager.

Bugs Fixed

• Changes to the Query Analysis Reporting advisor’s configuration were ignored by the built-in agent of the MySQL Enterprise Service Manager. The changes were created correctly, but the built-in agent continued using the default schedule and configuration.

  Important
  This issue affected the built-in agent of the MySQL Enterprise Service Manager only. It did not affect the standalone MySQL Enterprise Monitor Agent.

  For information on this distinction, see MySQL Enterprise Monitor Component Overview.

  (Bug #27986851)

• The plus character (+) was added to search criteria on the Query Analyzer filter’s Value field. These characters were added if a search was performed, the Details page was opened for one of the search results, then the Query Analyzer page was opened again.

  For example, searching for `INSERT INTO `mem__quan` resulted in the string `INSERT+INTO +`mem__quan`.

• The agent upgrade option, --ignore-old-proxy-aggr was present in the MySQL Enterprise Monitor Agent and documentation. The upgrade from MySQL Enterprise Agent Proxy Service 2.3 is no longer supported.

• If the configuration of the Query Analysis Reporting advisor was changed, for example by disabling, then re-enabling, the Example Query or Explain, the Auto-Explain Threshold value was set to zero instead of to the default value of 100 milliseconds. This resulted in an error and no new queries were displayed on the Query Analyzer.

• The Example Statements configuration message, displayed if EXAMPLE/EXPLAIN query was not enabled, incorrectly referenced performance_schema_events_statements_history_size instead of performance_schema_events_statements_history_long_size.

• If the data retention policy was set to zero, or a negative value, and the MySQL Enterprise Service Manager was upgraded, the upgraded MySQL Enterprise Service Manager failed to start.

Changes in MySQL Enterprise Monitor 3.4.7 (2018-04-26)

  Important
  It is not possible to monitor MySQL 8 with this version of MySQL Enterprise Monitor, nor is it possible to configure this version of MySQL Enterprise Monitor to use MySQL 8 as its repository. To monitor MySQL 8, you must use MySQL Enterprise Monitor 8.0.

  • Functionality Added or Changed
MySQL Enterprise Monitor 3.4 Release Notes

• Bugs Fixed

Functionality Added or Changed

• The performance of the data aggregation process is improved in this release. (Bug #26950542)

• The MySQL server, bundled with the MySQL Enterprise Service Manager, has been upgraded to MySQL 5.7.22.

• The bundled JRE was updated to 1.8.0_172 for both the Agent and Service Manager.

Bugs Fixed

• The MySQL Enterprise Service Manager always used the default data purge values, regardless of what values were specified. (Bug #27869486)

• MySQL Enterprise Monitor Agent parsed all name=value pairs, even if they were inside comments, or outside legal config sections in a Cluster config.ini.

As of this release, only configuration values in legally defined sections are parsed. (Bug #27844552)

• The Query Analyzer’s Configure Query Analyzer link did not link to the Query Analyzer advisors. (Bug #27844552)

• The documentation did not clearly state that the GUI-based advisors could not be copied as the basis for custom advisors. Only expression-based advisors can be copied in this manner. (Bug #27731494)

• The Zoom links on the Query Analyzer page did not alter the graph time range. (Bug #27410942)

• The Last Seen column of the Unreachable Agents did not sort by date.

• On Windows platforms, the agent service description contained an incorrect version number.

• The emailed links were incorrect for events generated by the SQL Statement Generates Warnings or Errors and Average Statement Execution Time Advisor advisors.

• It was not possible to edit any notification groups other than the first 10 displayed. The remaining groups were displayed as inactive.

Changes in MySQL Enterprise Monitor 3.4.6 (2018-01-29)

• Functionality Added or Changed

• Bugs Fixed

Functionality Added or Changed

• As of this release, to improve the performance of the metric, Database File I/O, only the top 100 consumers are returned in the report. (Bug #27300501)

• It is now possible to specify the notification level for queries with warnings, or errors, on the SQL Statement Generates Warnings or Errors advisor. For more information, see SQL Statement Generates Warnings or Errors. (Bug #27280965)

• The OpenSSL libraries used by the MySQL Enterprise Monitor installers and MySQL Enterprise Monitor Aggregator have been upgraded to 1.0.2n.

• The MySQL server, bundled with the MySQL Enterprise Service Manager, has been upgraded to MySQL 5.7.21.
• The bundled JRE was updated to 1.8.0_162 for both the Agent and Service Manager.

• It is now possible to zoom in on selected ranges in timeseries graphs. Select a range on a graph and click the magnifying glass icon.

• As of this release, and as announced on the EoL announcement page, OS X 10.11 is no longer a supported platform for MySQL products.

Bugs Fixed

• The Server Has Anonymous Accounts advisor raised false-positive events for users with proxy rights, such as those provided by authentication plugins. For more information on proxy users, see Proxy Users.

As of this release, the advisor is renamed Server Has Anonymous Accounts Not Being Used As Proxies and can now differentiate between anonymous accounts and proxy users. (Bug #27179986)

Changes in MySQL Enterprise Monitor 3.4.5 (2017-12-08)

• Functionality Added or Changed

• Bugs Fixed

Functionality Added or Changed

• The Tomcat server, bundled with the MySQL Enterprise Service Manager, has been upgraded to 8.5.23.

• The bundled JRE was updated to 1.8.0_151 for both the Agent and Service Manager.

• As of this release, on Solaris platforms, the installer and upgrade installer check for the presence of the Oracle Developer Studio 12.5 Runtime libraries. If these libraries are not installed, the installation stops and displays an error.

Note

The installer also checks for auto-mounted installations in /opt/developerstudio12.5.

Oracle Developer Studio 12.5 Runtime libraries must be installed before running the MySQL Enterprise Monitor installers on Solaris.

• The MySQL server, bundled with the MySQL Enterprise Service Manager, has been upgraded to MySQL 5.7.20.

• The OpenSSL libraries used by the MySQL Enterprise Monitor installers and MySQL Enterprise Monitor Aggregator have been upgraded to 1.0.2m.

Bugs Fixed

• The service_manager privilege descriptions lacked examples. For more information, see MySQL Enterprise Monitor Repository. (Bug #27130180)

• The documentation incorrectly stated that a Service Manager user required privileges on the mysql.inventory table. The mysql.inventory table is no longer created. (Bug #27130103)

• Some selections were not properly displayed in the Column drop-down menus on the Query Analyzer's Advanced filter. (Bug #27110602)
• The bundled MySQL server did not include all the MySQL Enterprise Edition plugins, such as Audit and TDE, for Microsoft Windows platforms. The plugins were correctly delivered for Linux, Mac OS, and Solaris. (Bug #27110538)

• The advice page for the Prepared Statements Not Being Used Effectively advisor incorrectly referred to the variables Com_stmt_prepare and Com_stmt_execute. The correct variables are Com_prepare_sql and Com_execute_sql. (Bug #26949933)

• Timeseries graphs displayed old data, such as filesystems and network interfaces which were removed or no longer exist.

  As of this release, only recently reported, active assets are displayed in the timeseries graphs. (Bug #26942873)

• It was not possible to refresh a replication topology using the Rediscover Replication Topologies button. An error was displayed. (Bug #26900106)

• The link between two inactive nodes on the Replication topology view remained green, indicating an active connection. As of this release, links between inactive nodes are gray, indicating an unknown state. The same is now true for lines between active and inactive nodes. (Bug #26878020)

• Topology did not correctly display nodes which were not running. They were displayed in Green, instead of Yellow, indicating that the replication thread was not running. (Bug #26871473)

• Under certain circumstances, if you were upgrading to the previous version, it was necessary to edit server.xml and add maxHttpHeaderSize="65536" to each of the default connectors.

  As of this release, it is no longer necessary to manually edit server.xml, the upgrade installer checks and corrects the values automatically if they are set to a value less than 64K. If maxHttpHeaderSize is set to 64K or higher, the upgrader installer makes no changes. (Bug #26828438)

  References: See also: Bug #26391094.

• It was not possible to select the last graph in the drop-down menu on the Overview dashboard. (Bug #26679583)

• It was not possible to delete or edit a notification group if the subject contained braces, { or }. An error was displayed.

  As of this release, it is possible to edit, and correct, notification group subjects which contain unsupported characters. Also, an error is displayed on saving if the notification group's subject contains an unsupported character. (Bug #25535520)

• Under certain circumstances, bulk schedule changes were not correctly applied to the replication advisors, Group Replication Configuration and Group Replication Status.

• On the Advisors view, Filter and Expand filtered the advisor selection, but did not expand it as expected.

  Also, some Advisor controls were not correctly rendered after filtering.

• Expanding the Filter, on any page which includes the Asset Selector, disabled the Asset Selector's Show All Assets checkbox, unless it was already enabled.

  If Show All Assets was not enabled, expanding the Filter forced the Asset Selector to reload and display only MySQL instances.

• Under certain circumstances, the graphs in the Support Diagnostics archive could not be loaded in some browsers.
• The graphs tab of the Query Analyzer’s Query dialog was larger than the dialog which contained it.

• The Group Name icon was not displayed correctly on the Email Notification Group page.

• A rate limit exception caused a null pointer exception which stopped the MySQL Enterprise Service Manager from retrieving the sys schema version.

• OS X 10.13 was not reported as Mac OS X (High Sierra), but as Unknown.

• Data purge was not completed if the MySQL Enterprise Service Manager was restarted while the purge was running.

• Several elements of the drop-down menus on the Query Analyzer were not displayed correctly.

Changes in MySQL Enterprise Monitor 3.4.4 (2017-10-05)

Bugs Fixed

• A fatal error occurred when upgrading a MySQL Enterprise Service Manager installation which used an external repository instead of the bundled repository.

Note
The existing installation was unchanged.

(Bug #26870405)

• MySQL Enterprise Monitor Proxy closed unexpectedly while executing queries. A segmentation fault occurred. (Bug #26798914)

• The default settings for purging aggregate data were incorrect. As of this release, the default values are set as follows:
  • Remove Hourly Aggregated Metric Data Older Than: 1 year
  • Remove Daily Aggregated Metric Data Older Than: 10 years

• Under certain circumstances, while calculating the status of group replication partitions, a Null Pointer Exception was logged.

The error was transient and usually resolved in the next collection.

Changes in MySQL Enterprise Monitor 3.4.3 (2017-09-22)

• Functionality Added or Changed

• Bugs Fixed

Functionality Added or Changed

• It is now possible to specify an exclusion list of users with database-level privileges on all databases in the mysql.user table. This is done using a regular expression in the MySQL User Account advisor. An event is generated for any user which does not match the defined expression.

For more information, see MySQL User Account.
Note

This change replaces the Non-root User Has DB, Table, Or Index Privileges On All Databases advisor, and moves its functionality to the MySQL User Account advisor. If you changed the scheduling or thresholds on the Non-root User Has DB, Table, Or Index Privileges On All Databases advisor, the changes will be lost after upgrading to this version.

(Bug #26260456, Bug #11748288, Bug #25696565)

References: See also: Bug #17742263, Bug #26130781.

• The MySQL server, bundled with the MySQL Enterprise Service Manager, has been upgraded to MySQL 5.7.19.

Important

Changes have been made to the prerequisites of MySQL 5.7.19.

• libnuma.so.1 must be present on Linux platforms. The MySQL Enterprise Service Manager full and upgrade installers check for the existence of this library.

• During a MySQL Enterprise Service Manager upgrade, the upgrade installer runs the mysql_upgrade utility.

• The Tomcat server, bundled with the MySQL Enterprise Service Manager, has been upgraded to 8.5.16.

• The bundled JRE was updated to 1.8.0_141 for both the Agent and Service Manager.

• --mysql_ssl is no longer required by the MySQL Enterprise Service Manager installer and has been removed.

• Data Purge settings have been added for aggregated data. For more information, see Data Purge Behavior.

Bugs Fixed

• On the Advisors page, filtering for specific advisors did not return all the advisors filtered for. (Bug #26668301)

• On Linux, Unix, and Mac OS X platforms, the agent installer did not check the installation directory to ensure it had the required permissions to install MySQL Enterprise Monitor Agent in that location.

As of this release, the installer checks the directory for the appropriate permissions. If it does not have the rights to install to that location, it returns the following error message:

There has been an error.
The current installation directory could not be accessed by non-root users.
Please select a different installation directory or change the permissions to 755 for this directory.

(Bug #26551166)

• Under certain circumstances, such as filtering on many graphs on the All Timeseries page, the resulting graphs were not correctly populated with data. This was caused by the default value for the
maxHttpHeaderSize in the Tomcat configuration file, server.xml, which is set too low for large quantities of data. The value is set to 32K by default.

As of this release, the value of maxHttpHeaderSize is doubled, to 64K, and applied to both the SSL and non-SSL connector configurations in server.xml.

If you are upgrading to this version from a previous version, you must edit server.xml and add maxHttpHeaderSize="65536" to each of the default connectors.

If you are performing a clean installation of MySQL Enterprise Service Manager, you do not need to edit any files, the new values are included by default. (Bug #26391094)

• Sparkline graphs did not refresh dynamically.

• The Group Replication advisor, when expanded, listed MySQL instances which were not involved in Group Replication.

• Under certain circumstances, if the server hosting MySQL Enterprise Service Manager was restarted, MySQL Enterprise Service Manager failed to restart, logging the following error: Error creating bean with name 'groupReplicationMembership'.

• The Add a new graph drop-down menu was not displayed on the Overview dashboard.

• It was not possible to open a selected range of a timeseries graph in the Query Analyzer. The Query Analysis link did not behave as expected.

• An error was displayed when selecting the Table Statistics report: Unable to generate SYS Schema report for selected MySQL Server. (U0422).

As of this release, the agent’s Admin, General, and Limited users are granted the EXECUTE privilege.

Important
If you defined these users manually, you must grant them the EXECUTE privilege.

For more information, see Creating MySQL User Accounts for the Monitor Agent.

• the Data Purge Behavior drop-down menus displayed Never if the first-time setup was performed using the configuration utility, and the purge values set to any value not divisible by 7.

The values were correctly defined, this was a display issue, only.

• Graphs were not included in the Support Diagnostics report.

• It was not possible to edit multiple advisors using the Edit Selected button.

• Agent host names were not displayed in the list of agents on the Advisors page, only the alphanumeric agent ID was displayed in truncated form. This made it difficult to identify the agent.

As of this release, the agent is listed with the name of the host on which it is installed, instead of the alphanumeric ID.

• Clicking on the Database Availability graph, on the Overview dashboard, opened a blank page instead of the Events page.

• On Mac OS X platforms, the java_home_dir variable was not set properly by the installer. As a result, the configuration report contained the following error: ***unknown variable java_home_dir.
• On Linux, Unix, and Mac OS X platforms, the MySQL Enterprise Service Manager upgrade installer could not upgrade the installation if the installation directory contained files or directories created by a different user, or a user with permissions which differed from those of the user running the upgrade.

As of this release, the installers check the installation directory to ensure all files and directories have the correct permissions. If they do not, it exits with an informative error message.

• Under certain circumstances, it was not possible to monitor an instance which had previously been monitored and then deleted by MySQL Enterprise Service Manager.

• Graph data was not displayed for intervals of four or more days if the interval was defined on a combined graph.

Changes in MySQL Enterprise Monitor 3.4.2 (2017-07-05)

• Agent-specific Issues in 3.4.2
• Functionality Added or Changed
• Bugs Fixed

Agent-specific Issues in 3.4.2

• Important Change: As MySQL Enterprise Monitor is enhanced over time, it is not always possible to maintain backward compatibility between new MySQL Enterprise Service Managers and older MySQL Enterprise Monitor Agents. Running mismatched versions can result in unpredictable behavior.

The Wrong Version Agent Tracker advisor is updated in this release and renamed Unsupported Agent Version Advisor. This advisor checks all agents connecting to the MySQL Enterprise Service Manager and raises events for unsupported agents.

It is strongly recommended that you upgrade your agents after upgrading your MySQL Enterprise Service Manager. MySQL Enterprise Service Manager and MySQL Enterprise Monitor Agent should be the same version.

• If the following reports were run from a MySQL Enterprise Service Manager 3.4.1, which used older MySQL Enterprise Monitor Agents, a deserialization error occurred:
  • InnoDB Buffer Pool Usage
  • Processes
  • Lock Waits
  • Database File I/O
  • Table Statistics

Important

To run those reports, the MySQL Enterprise Monitor Agent version must match the MySQL Enterprise Service Manager version. That is, if you are running MySQL Enterprise Service Manager 3.4.2, you must also run MySQL Enterprise Monitor Agent 3.4.2.

(Bug #26307003)
• The MySQL User Account advisor in MySQL Enterprise Service Manager 3.4.1 could not evaluate data from MySQL Enterprise Monitor Agents of version 3.4.0 or earlier.

• If MySQL Enterprise Monitor Agents were upgraded before the MySQL Enterprise Service Manager, under certain circumstances they disconnected and threw serialization errors.

It is strongly recommended that you upgrade your agents after upgrading your MySQL Enterprise Service Manager. MySQL Enterprise Service Manager and MySQL Enterprise Monitor Agent should be the same version.

Functionality Added or Changed

• The following advisors were removed and their functionality added to the MySQL User Account:
  • Non-root User Has GRANT Privileges On All Databases
  • Non-root User Has Server Admin Privileges
  • Account Has Strong MySQL Privileges

For more information, see MySQL User Account. (Bug #26130781)

• The OpenSSL libraries used by the MySQL Enterprise Monitor installers and MySQL Enterprise Monitor Aggregator have been upgraded to 1.0.2l.

• As of this release, if you are using a MySQL Server repository other than the installation bundled with the MySQL Enterprise Service Manager installation, the installer checks the MySQL Server for the following, minimum requirements:
  • MySQL Server version: versions older then MySQL 5.7.9 are not supported.
  • SSL: SSL must be enabled on the MySQL Server.
  • `innodb_file_format:innodb_file_format` must be `barracuda`.
  • `innodb_file_per_table:innodb_file_per_table` must be enabled.

If any of those checks fail, the installer displays an error and cannot proceed until the configuration is corrected.

The upgrade process performs the same checks.

To check your repository is correctly configured, the MySQL Enterprise Service Manager's configuration utility is extended with the parameter `--mysql-check-requirements`.

For more information, see Service Manager Configuration Utilities.

Bugs Fixed

• It was not possible to install the MySQL Enterprise Service Manager on Solaris due to a missing file, `libstlport.so.1`. (Bug #26336679)

• The MySQL Enterprise Service Manager upgrade installer did not check the version of the MySQL server used as the repository. If the repository version was less than 5.7.9, the upgrade completed, but MySQL Enterprise Service Manager did not behave as expected.

As of this release, the MySQL Enterprise Service Manager upgrade package requires MySQL server 5.7.9, or later, and will not install if the version is lower than 5.7.9. (Bug #25953683)
• Validation messages were not displayed on the Settings page after a successful change was made.

Changes in MySQL Enterprise Monitor 3.4.1 (2017-06-06)

• Functionality Added or Changed

• Bugs Fixed

Functionality Added or Changed

• The Replication Configuration advisor now generates an event if `slave_pending_jobs_size_max` or `slave_max_allowed_packet` are less than the source's `max_allowed_packet`. (Bug #25996472)

• It is now possible to specify an exclusion list of users with global privileges on the `mysql.user` table. This is done using a regular expression in the MySQL User Account advisor. An event is generated for any user which does not match the defined expression.

For more information, see MySQL User Account.

Note

This change replaces the Account Has Global Privileges advisor, and moves its functionality to the MySQL User Account advisor. If you changed the scheduling or thresholds on the Account Has Global Privileges advisor, they will be lost after upgrading to this version.

(Bug #17742263)

• The Tomcat server, bundled with the MySQL Enterprise Service Manager, has been upgraded to 8.5.14.

• The bundled JRE was updated to 1.8.0_131 for both the Agent and Service Manager.

• An agent installer is now available for FreeBSD 11.

Bugs Fixed

• The Replication dashboard did not correctly represent groups if one of the members left the group and MySQL Enterprise Service Manager could not monitor that member. MySQL Enterprise Service Manager displayed the last known state of the member instead of displaying it as Unreachable and graying-out the Group Plugin status. (Bug #26136352)

• The Statement Type drop-down list on the Query Analyzer page contained incorrectly named entries, formatted as `form.label.statementType.option.NAME`. (Bug #26132066)

• Under certain circumstances, if a custom graph was created, then deleted, and the MySQL Enterprise Service Manager was upgraded to 3.4, the user interface of the upgraded MySQL Enterprise Service Manager failed to load. (Bug #26122041)

• A Null Pointer Exception was logged if the Average Statement Execution Time advisor was enabled but all its notice thresholds were disabled. (Bug #25872561)

• The Query Analyzer's Explain Query tab did not display long queries correctly. As of this release, long keys are wrapped on multiple lines. (Bug #25517867)

• Under certain circumstances, the last instance of a group was truncated in the Group Replication dashboard's Topology view.
• Custom filters which were not edited were displayed as edited on the Query Analyzer and graphs pages.

• Under certain circumstances, graphs would not load on the Backup dashboard's History tab.

• After an upgrade from MySQL Enterprise Service Manager 3.1, or 3.2, to 3.3 or higher, the Backup dashboard's Backup Run Time History and Backup Lock Time History displayed zeroes for instances monitored since before the upgrade.

• Under certain circumstances, if a overrides were defined on MySQL instances in an advisor, both the parent and child schedules were evaluated for the overridden instance, instead of child schedule only. As a result, duplicate collections were performed and incorrect events displayed.

• The upgrade process prompted you to re-import SSL certificates from the backup of the previous version. This is not necessary unless you are using LDAP and had imported your own SSL certificates into the keystore of the JRE bundled with MySQL Enterprise Monitor. The prompt has been updated.

• Under certain circumstances, a monitored MySQL instance could be reported as having two, different server_uuid values. This could happen if the monitored instance was part of a replication topology, or installed in a docker container, and used Host Plus Data Directory from the MySQL Instance Identity Source menu.

• Microsoft Windows 2016 Server systems were reported as Unknown.

Changes in MySQL Enterprise Monitor 3.4.0 (2017-05-03)

Important

It is not possible to upgrade to MySQL Enterprise Monitor 3.4 from versions preceding MySQL Enterprise Monitor 3.1. To upgrade an older version, you must first upgrade to MySQL Enterprise Monitor 3.1 before running the MySQL Enterprise Monitor 3.4.0 upgrade process.

The upgrade installer generates an error if you attempt to upgrade an older version to 3.4.

Important

As of this release, only MySQL Server 5.7.9, or higher, is supported for the MySQL Enterprise Service Manager repository. If you are using an external repository, not the version bundled with the MySQL Enterprise Service Manager installer, you must upgrade it to at least MySQL Server 5.7.9 before upgrading your MySQL Enterprise Service Manager to 3.4.

The installers generate an error if you attempt to use a MySQL Server version older than 5.7.9.

MySQL Enterprise Service Manager 3.4's bundled repository is MySQL Server 5.7.18.

• Performance Tuning Enhancements in MySQL Enterprise Monitor 3.4
• Replication Monitoring Enhancements in MySQL Enterprise Monitor 3.4
• Functionality Added or Changed
• Bugs Fixed
Performance Tuning Enhancements in MySQL Enterprise Monitor 3.4

- **Important Change**: Graph performance for long-period graphs is improved. Timeseries data is aggregated, allowing for faster data retrieval.

If you upgrade to MySQL Enterprise Monitor 3.4.0, all existing timeseries data is aggregated when the MySQL Enterprise Service Manager first starts. A progress bar is displayed on the **Overview** dashboard indicating the completeness of the aggregation process.

**Note**

While the timeseries data is being aggregated for the first time, no performance enhancements are evident in the graph response times. Performance improvement is evident only after the process completes and the timeseries data is retrieved from the new, aggregated data.

(Bug #18140123)

- **Important Change**: The page-loading times of the MySQL Enterprise Service Manager user interface are improved.

Replication Monitoring Enhancements in MySQL Enterprise Monitor 3.4

- **Important Change**: The **Replication** dashboard is extended to provide monitoring support for Group Replication, introduced in MySQL Server 5.7.17.

The **Topology** view provides a visual representation of your group replication topologies and the **Status** drilldowns are updated with Group Replication-specific information. The status of the entire group is reported on, including node-failure tolerances and whether the group has quorum.

In addition, new replication advisors, **Group Replication Configuration** and **Group Replication Status**, provide continuous analysis of the condition of your group replication topologies. The configuration advisor analyzes the configuration of the servers, checking for misconfigurations which could lead to unstable or insecure installations, and the status advisor continuously monitors for servers which go offline, or fall out of sync with the other members of the cluster.

The group replication advisors also populate the following group-level graphs:

- **Group Replication - Transactions Rows Validating - Per Member**
- **Group Replication - Transactions Checked - Per Member**
- **Group Replication - Conflicts Detected - Per Member**
- **Group Replication - Transactions In Queue - Per Member**

Functionality Added or Changed

- It is now possible to define filter intervals of three, six, and nine months, and one, or two years in the Timeseries and Query Analyzer graph filters. (Bug #11746539)

- The `super_read_only` variable is now represented in the **Replication** dashboard’s instance drilldowns. The configured value is displayed in the **Replication Configuration** section.

- The backup bar charts, **Backup Run Time History** and **Backup Lock Time History**, are replaced by **Full Backup Run Time History** and **Incremental Backup Run Time History** timeseries graphs. The run and lock time information is now displayed in the full and incremental backup graphs.
• The **Account Has An Overly Broad Host Specifier** advisor is removed in this release. Its functionality is included in the new **MySQL User Account** security advisor. This new advisor also enables you to exclude users from event generation using regular expressions.

**Bugs Fixed**

• The documentation erroneously stated that SSL certificates which existed in the previous installation must be manually imported after an upgrade.

  The upgrade creates a backup of any existing SSL certificates and imports them into the upgraded version as part of the upgrade process. (Bug #25833748)

• MySQL Enterprise Service Manager stopped responding if a custom graph was imported, and the graph’s definition included a hyphen (-) in the name.

  If a service restart was attempted, an **Unexpected token** error was logged and Tomcat would not start. (Bug #25761280)

• MySQL Enterprise Monitor Agent and MySQL Enterprise Service Manager configuration utilities did not clearly state that they must be run while MySQL Enterprise Monitor Agent and MySQL Enterprise Service Manager are stopped.

  The documentation was also updated with this information. (Bug #25697013)

• Network speeds were incorrectly reported on the **Network Interfaces** table of the **MySQL Instances** dashboard. (Bug #25636784)

• OS X 10.12 Sierra was not recognized and was listed as Unknown. (Bug #25511036)

• If MySQL Enterprise Monitor Agent encountered an error, it failed to restart due to a permissions issue. The **mysql-monitor-agent.pid** ran as root and could not be stopped by the **agentrestart.sh** which runs under the same user as MySQL Enterprise Monitor Agent.

  As of this release, the **mysql-monitor-agent.pid** is created with the permissions 644 (-rw-r--r--). (Bug #24667408)

• On Windows platforms, it was not possible to install to a path which contained spaces on any drive other than the C:\ drive.

  For example, trying to install to **D:\Program Files\MySQL\Enterprise\Monitor** failed, while **C:\Program Files\MySQL\Enterprise\Monitor** succeeded. (Bug #24482872)

• The MySQL Enterprise Monitor Agent was not properly displayed as running and monitoring an instance. This occurred if it was stopped and its monitored instance removed from the MySQL Instances dashboard, and then the MySQL Enterprise Monitor Agent was restarted.

• Empty groups were not displayed on the **Advisors** page.

• It was not possible to edit a replication group's description. The change was not saved.

• A number of minor UI issues were corrected in this release. Issues such as double colons (::) in the system uptime frame, duplicated icons on buttons, and so on.

• If an instance was renamed on the **MySQL Instances** dashboard, the instance name was not updated immediately elsewhere in the user interface.

• The backup bar charts, **Backup Run Time History** and **Backup Lock Time History**, displayed extra zeroes after an upgrade from MySQL Enterprise Service Manager 3.2 to 3.3 or 3.4.