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# MySQL Enterprise Backup 3.11 Release Notes

## Abstract

This document lists the changes to the MySQL Enterprise Backup 3.11 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 Backup series, see the release notes for that series.

For additional MySQL Enterprise Backup 3.11 documentation, see the [MySQL Enterprise Backup User's Guide \(Version 3.11.1\)](#).

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 .....	1
Changes in MySQL Enterprise Backup 3.11.1 (2014-11-05) .....	3
Changes in MySQL Enterprise Backup 3.11.0 (2014-09-02) .....	3
Index .....	4

## Preface and Legal Notices

This document lists the changes to the MySQL Enterprise Backup 3.11 product, beginning with the most recent release.

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## Changes in MySQL Enterprise Backup 3.11.1 (2014-11-05)

### Bugs Fixed

- The copying of the relay log files from a MySQL slave server into a backup (which has been the default behavior of MySQL Enterprise Backup since 3.11.0) crashed MySQL Enterprise Backup when the server is of version 5.5. (Bug #19904912)
- The copying of the binary log files from the server into a backup (which has been the default behavior of MySQL Enterprise Backup since 3.11.0) caused some databases to be silently skipped over during the backup process when (1) the binary log files were located in the server's data directory, and the name of any database matched the data directory's base name or (2) the binary log files were located in a subdirectory of the data directory. (Bug #19883801)

## Changes in MySQL Enterprise Backup 3.11.0 (2014-09-02)

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

### Functionality Added or Changed

- MySQL Enterprise Backup now supports optimistic backup, a two-phase backup process that can potentially improve performance for backing up and restoring huge databases in which only a small number of tables are modified frequently. See [Making an Optimistic Backup](#) for details. (Bug #17981060)
- MySQL Enterprise Backup now throws an error when the `--include-tables` and `--exclude-tables` options are used with no arguments. The same applies to the legacy option of `--include`. (Bug #11786043)
- MySQL Enterprise Backup now supports online selective restore of tables from a backup created using [transportable tablespaces \(TTS\)](#) (that is, a backup created with the `--use-tts` option). See [Restoring Selected Tables from a TTS Backup](#), for details.
- To enrich the full-instance backups that MySQL Enterprise Backup has been performing since release 3.9, the following log files are now included in all backups by default:
  - Binary log files: The inclusion of the binary log files allows MySQL Enterprise Backup to take a snapshot of a server and clone it to its exact state. It also allows a [point-in-time recovery \(PITR\)](#) of a MySQL database following an incremental backup. You can skip backing up the binary logs by using the new option `--skip-binlog` with your backup command.
  - Relay log files: they are included when a slave database in a replication setup is being backed up. Their inclusion saves the time and resources required for fetching the relay logs from the master when the slave is being restored. You can skip backing up the relay logs by using the new option `--skip-relaylog` with your backup command.
  - The slave status log files: Usually named `master.info` and `relay-log.info`, they are included when a slave database is being backed up.

Note that the inclusion of these log files may significantly increase the size of a backup, the backup time, and the I/O resource required for a backup if the database is large, or when there have been a large amount of events taking place on the MySQL server, making the binary and relay logs very large. Consider using the `--skip-binlog` or `--skip-relaylog` option if resource or performance issues arise.

For offline backups, four new options, `--log-bin-index`, `--relay-log-index`, `--master-info-file`, and `--relaylog-info-file`, are introduced for specifying the locations of the log index files and slave status log files, in order for `mysqlbackup` to find those files when they are not at their usual locations.

## Bugs Fixed

- A `list-image` operation failed for a backup in the Barracuda format when the page size of it was different from the default value of 16K, with `mysqlbackup` complaining that the page size was illegal. It was because `mysqlbackup` always assumed the default page size and validated the actual page size of the backup against it. This fix removed the unnecessary page size validation for a `list-image` operation, so `mysqlbackup` does not throw an error in the situation. (Bug #19275345)
- `mysqlbackup` failed to restore tables from a backup created using transportable tablespace (TTS) if the value of the system variable `innodb_file_format` on the server was different from the file format of the backed up tables. With this fix, the restore will work in the situation as long as the `--force` option has been used, which will temporarily set `innodb_file_format` to the correct value. (Bug #19184474)
- The file `backup_variables.txt` was not copied from a backup to the server's data directory during a `copy-back` operation. With this fix, the file is now copied, allowing incremental backups to be taken or applied afterwards on the server. (Bug #19163872)
- Using the `--use-tts` option with a restore operation crashed `mysqlbackup`. With this fix, instead of `mysqlbackup` crashing, a proper error is thrown in the situation (as `--use-tts` is only for backup operations). (Bug #19163136)
- When packing an incremental backup directory into a single file using the `backup-dir-to-image` subcommand, the parameter `--innodb_page_size` was not properly read and set, and `mysqlbackup` threw an error for a mismatch of the parameter between its specifications in the backup configurations and the InnoDB file header of the backup. With this fix, `mysqlbackup` now sets `--innodb_page_size` correctly for an image created from an incremental backup directory. (Bug #19140046)
- The server connection option `--skip-secure-auth` was not working with `mysqlbackup`, and connection to a MySQL server using old password format was refused. With this fix, the option can now be used. Also, starting from MySQL Enterprise Backup 3.11, this option is necessary for any connection using the old password format. (Bug #19044667)
- For an `apply-incremental-backup` operation, `mysqlbackup` threw an assertion error when the option `incremental-backup-dir` was missing from the command. This fix make `mysqlbackup` check for the option and then give the proper error message ("Missing or empty `--incremental-backup-dir` option specified") in such a case. (Bug #18911368)
- The `backup-dir-to-image` operation failed for compressed backup directories with a complaint by `mysqlbackup` that the data file for the backup did not exist. It was due to the wrong handling of data file names for compressed backups by `mysqlbackup`, which has now been fixed. (Bug #18860234)
- An incremental backup might fail when there were multiple threads configured for `mysqlbackup`, with one thread deleting an `.ibd` file and then another thread trying to open it. This fix makes sure the conflict does not occur in the multithread situation. (Bug #18231960)

## Index

### A

`apply-incremental-backup`, 3

## **B**

backup-dir-to-image, 3  
binary log, 3

## **C**

copy-back, 3

## **F**

file format, 3

## **I**

incremental backup, 3  
incremental backups, 3  
innodb-page-size, 3

## **L**

list-image, 3

## **O**

optimistic backup, 3

## **P**

partial backup, 3

## **S**

selective restore, 3  
skip-secure-auth, 3

## **T**

TTS, 3

## **U**

use-tts, 3

