

# Restore failed - Write failed - Permission denied

## WriteFileSystemData failed

This bug has been resolved in [Macrium Reflect v7.1.2695](#) and later. Please **take the 'Other Tasks' > 'Check for updates'** menu option if you are experiencing this problem.

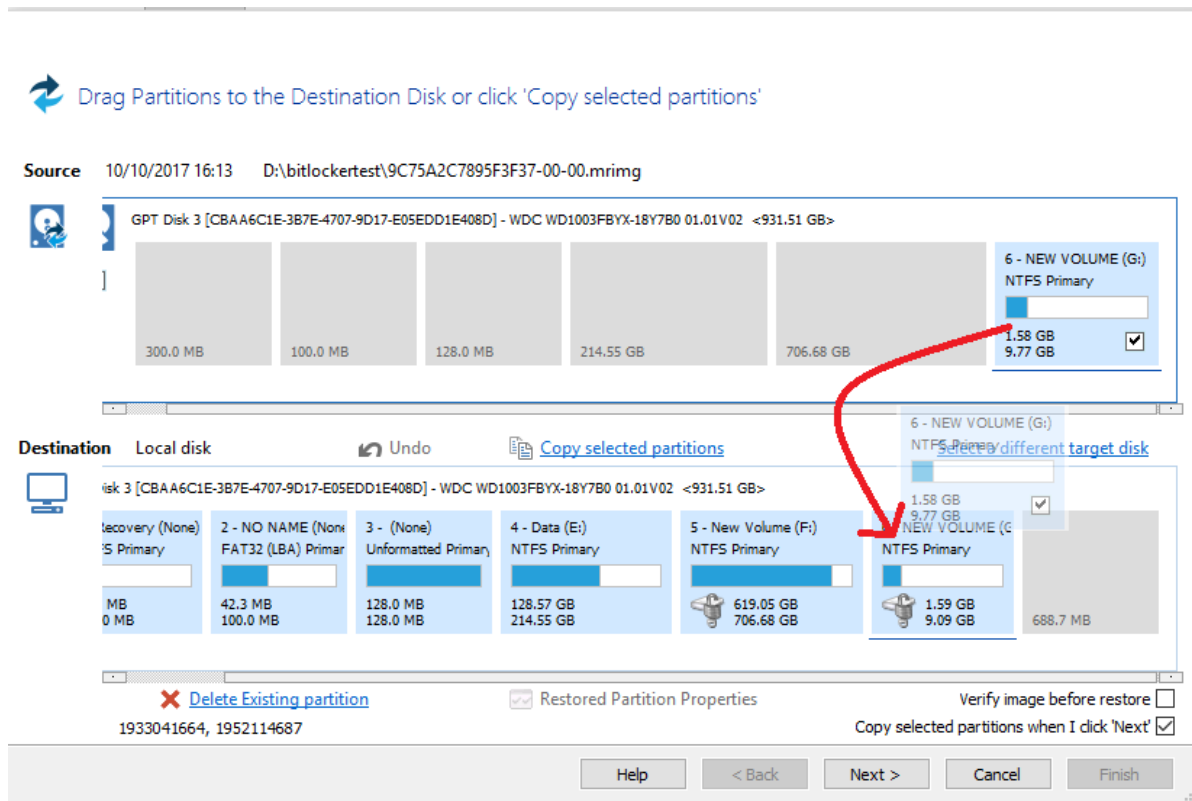
A restore to a BitLocker volume can fail with the following error shown in the restore log:

```
Restore failed - Write failed - 13 - Permission denied
WriteFileSystemData failed pDataRun == NULL RemapMFTRRecord failed
```

When using **'Drag and Drop'** to restore to an unlocked BitLocker partition, Macrium reflect will **incorrectly** attempt to perform a **BitLocker Live Restore** if the result of the operation is to shrink or extend the restored partition.

For more information on BitLocker Live Restore please see: [BitLocker Restore/Clone Outcomes](#)

In this example, drive 'G' on the target has been shrunk and the restore will error if Drag and Drop is used to replace the target partition.



## Force a BitLocker Removal Restore

To force a **BitLocker Removal Restore** where the source and target partitions are a different size, **click 'Copy Selected Partitions'**. This will automatically delete the target partition before restoring.

Alternatively, when using **'Drag and Drop'**, first delete the current partition manually by **clicking the target partition with the left mouse button and clicking 'Delete Existing Partition'**.

Drag Partitions to the Destination Disk or click 'Copy selected partitions'

Source 10/10/2017 16:13 D:\bitlockertest\9C75A2C7895F37-00-00.mrimg

GPT Disk 3 [CBAA6C1E-3B7E-4707-9D17-E05EDD1E408D] - WDC WD1003FBYX-18Y7B0 01.01V02 <931.51 GB>

Partition	Size	Format	Type
1	300.0 MB	NTFS	Primary
2	100.0 MB	NTFS	Primary
3	128.0 MB	NTFS	Primary
4	214.55 GB	NTFS	Primary
5	706.68 GB	NTFS	Primary
6 - NEW VOLUME (G:)	1.58 GB / 9.77 GB	NTFS	Primary

Destination Local disk Undo Copy selected partitions Select a different target disk

GPT Disk 3 [CBAA6C1E-3B7E-4707-9D17-E05EDD1E408D] - WDC WD1003FBYX-18Y7B0 01.01V02 <931.51 GB>

Partition	Size	Format	Type
1 - Recovery (None)	0 MB	NTFS	Primary
2 - NO NAME (None)	42.3 MB / 100.0 MB	FAT32 (LBA)	Primary
3 - (None)	128.0 MB / 128.0 MB	Unformatted	Primary
4 - Data (E:)	128.57 GB / 214.55 GB	NTFS	Primary
5 - New Volume (F:)	619.05 GB / 706.68 GB	NTFS	Primary
6 - NEW VOLUME (G:)	1.59 GB / 9.09 GB	NTFS	Primary

Delete Existing partition Restored Partition Properties Verify image before restore Copy selected partitions when I click 'Next'

Help < Back Next > Cancel Finish

Then 'Drag and Drop' the source partition to the target free space.

Drag Partitions to the Destination Disk or click 'Copy selected partitions'

Source 10/10/2017 16:13 D:\bitlockertest\9C75A2C7895F37-00-00.mrimg

GPT Disk 3 [CBAA6C1E-3B7E-4707-9D17-E05EDD1E408D] - WDC WD1003FBYX-18Y7B0 01.01V02 <931.51 GB>

Partition	Size	Format	Type
1	300.0 MB	NTFS	Primary
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5	706.68 GB	NTFS	Primary
6 - NEW VOLUME (G:)	1.58 GB / 9.77 GB	NTFS	Primary

Destination Local disk Undo Copy selected partitions Select a different target disk

GPT Disk 3 [CBAA6C1E-3B7E-4707-9D17-E05EDD1E408D] - WDC WD1003FBYX-18Y7B0 01.01V02 <931.51 GB>

Partition	Size	Format	Type
1 - Recovery (None)	27.1 MB / 300.0 MB	NTFS	Primary
2 - NO NAME (None)	42.3 MB / 100.0 MB	FAT32 (LBA)	Primary
3 - (None)	128.0 MB / 128.0 MB	Unformatted	Primary
4 - Data (E:)	128.57 GB / 214.55 GB	NTFS	Primary
5 - New Volume (F:)	619.05 GB / 706.68 GB	NTFS	Primary
6 - NEW VOLUME (G:)	1.58 GB / 9.77 GB	NTFS	Primary

Delete Existing partition Restored Partition Properties Verify image before restore Copy selected partitions when I click 'Next'

Help < Back Next > Cancel Finish

The restored partition can also be resized if necessary.

Please note that after the restore BitLocker must be re-enable as described here: [BitLocker Restore/Clone Outcomes](#)

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