

REPLACING A PHYSICAL HARD DRIVE IN A TWO- WAY-MIRRORED "STORAGE SPACE" IN "WINDOWS 8"



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EXECUTIVE SUMMARY

"Storage Spaces" is a feature in "Windows 8..". that provides for various hard drive enhancements including real-time, automatic drive mirroring so that two hard drives always contain the same data files and folders in real time. Here is the procedure for replacing a physical hard drive in a two-way-mirrored "Storage Space".

REPLACING A
PHYSICAL HARD
DRIVE IN A
TWO-WAY-
MIRRORED
"STORAGE SPACE"

Replacing A Physical Hard Drive In A.. "Storage Space" (continued)

- You cannot logically remove a physical hard drive from a mirrored "Storage Space" unless you first add in another hard drive to the "Storage Pool":

Replacing A Physical Hard Drive In A.. "Storage Space" (continued)

Step 0: Physically remove one of the hard drives from a two-way-mirrored "Storage Space". (If the activity light of the hard drive is blinking, wait for it to stop blinking.)

Replacing A Physical Hard Drive In A.. "Storage Space" (continued)

Step 1: Start "File Management" and check to see if you can still access the "Storage Space". If you are unable to access the "Storage Space", start "Disk Managment", then assign a drive letter to the "Storage Space".

Replacing A Physical Hard Drive In A.. "Storage Space" (continued)

Step 2: Attach a USB 2, USB 3, eSATA, or SATA hard drive to your computer.

Step 3: Press Windows + x.

Step 4: Click on "Control Panel" in the pop-up "Power Users Menu".

Replacing A Physical Hard Drive In A.. "Storage Space" (continued)

Step 5: Locate and double-click on the "Storage Spaces" applet.

Step 6: A "Storage Spaces" window will be displayed.

Step 7: Click on "Add drives".

Storage Spaces

Control Panel > All Control Panel Items > Storage Spaces

Control Panel Home

Create a new pool and storage space

Manage Storage Spaces

Use Storage Spaces to save files to two or more drives so that your files remain safe, even when a drive fails. Storage Spaces also enables you to easily add more drives if you run low on capacity.

[Change settings](#)

Storage Pool

Warning

Using 5.00 GB of 1.58 TB pool capacity

Unhealthy drives; check drive health

[Create a storage space](#)
[Add drives](#)
[Rename pool](#)

Storage Spaces



StorageSpace07 (S:)
Two-way mirror
814 GB logical size
Using 4.00 GB

Warning
Reduced resiliency; check drive health

[View files](#)
[Rename](#)
[Delete](#)

Physical Drives



ST310003 33AS USB Dev...
Attached via an unrecog...
930 GB
0.26 % used

Warning
Selected for data reallocation

[Rename](#)
[Remove](#)



Seagate FreeAgent Pro U...
Attached via USB
698 GB
0.35 % used

OK

[Rename](#)

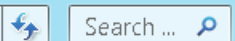
See also

[File History](#)

[BitLocker Drive Encryption](#)

Replacing A Physical Hard Drive In A.. "Storage Space" (continued)


Step 8: A "Select drives to add to the storage pool" window will be displayed:




Select drives to add to the storage pool

Formatted drives



 The following drives might contain files. If you use a formatted drive to create a storage pool, Windows permanently deletes all the files on that drive. You can't recover the files by using the Recycle Bin.

<input type="checkbox"/>		ST310005 28AS USB Dev... Attached via USB 931 GB	Disk 8 Online	View files Take offline
<input type="checkbox"/>		WDC WD30EZRS-00J99B... Attached via RAID 2.72 TB	Disk 0 Online	View files Take offline

Add drives

Cancel

Replacing A Physical Hard Drive In A.. "Storage Space" (continued)


Step 9: Place a checkmark for the hard disk drive that you wish to add to the storage pool:

Add Drives

Control Panel > All Control Panel Items > Storage Spaces > Add Drives

Select drives to add to the storage pool

Formatted drives

 The following drives might contain files. If you use a formatted drive to create a storage pool, Windows permanently deletes all the files on that drive. You can't recover the files by using the Recycle Bin.

<input checked="" type="checkbox"/>		ST310005 28AS USB Dev... Attached via USB 931 GB	Disk 8 Online	View files Take offline
<input type="checkbox"/>		WDC WD30EZRS-00J99B... Attached via RAID 2.72 TB	Disk 0 Online	View files Take offline



Add drives Cancel

Replacing A Physical Hard Drive In A.. "Storage Space" (continued)

**Step 10: Click on the "Add drives"
button:**


Add Drives



Control Panel > All Control Panel Items > Storage Spaces > Add Drives

Search ...

Select drives to add to the storage pool

Formatted drives

 The following drives might contain files. If you use a formatted drive to create a storage pool, Windows permanently deletes all the files on that drive. You can't recover the files by using the Recycle Bin.

<input checked="" type="checkbox"/>		ST310005 28AS USB Dev... Attached via USB 931 GB	Disk 8 Online	View files Take offline
<input type="checkbox"/>		WDC WD30EZRS-00J99B... Attached via RAID 2.72 TB	Disk 0 Online	View files Take offline

Add drives

Cancel

Replacing A Physical Hard Drive In A.. "Storage Space" (continued)

Step 11: "Storage Spaces" will start "Repairing.." the newly-added hard drive by copying data files and folders from the existing hard drive to the newly-added hard drive.

Control Panel Home

Create a new pool and storage space

Manage Storage Spaces

Use Storage Spaces to save files to two or more drives so that your files remain safe, even when a drive fails. Storage Spaces also enables you to easily add more drives if you run low on capacity.

[Change settings](#)

Storage Pool

Warning

Using 5.25 GB of 2.49 TB pool capacity

Unhealthy drives; check drive health

[Create a storage space](#)
[Add drives](#)
[Rename pool](#)

Storage Spaces



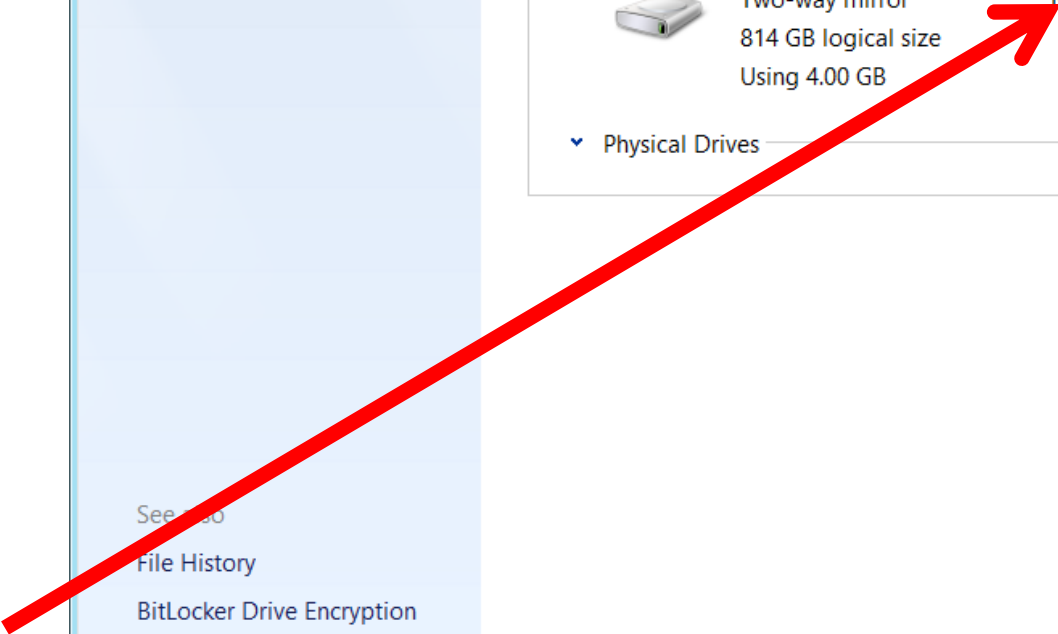
StorageSpace07 (S:)
Two-way mirror
814 GB logical size
Using 4.00 GB

Warning
Repairing (12 %)

[View files](#)
[Rename](#)
[Delete](#)

Physical Drives

See also
[File History](#)
[BitLocker Drive Encryption](#)



Replacing A Physical Hard Drive In A.. "Storage Space" (continued)

Step 12: Click on "Remove" for the hard drive that you wish to logically remove from the "Storage Space".

Storage Spaces

Control Panel > All Control Panel Items > Storage Spaces

Search ...

Control Panel Home

Create a new pool and storage space

Manage Storage Spaces

Use Storage Spaces to save files to two or more drives so that your files remain safe, even when a drive fails. Storage Spaces also enables you to easily add more drives if you run low on capacity.

[Change settings](#)

Storage Pool

Warning

Using 5.25 GB of 2.49 TB pool capacity

Unhealthy drives; check drive health

[Create a storage space](#)
[Add drives](#)
[Rename pool](#)

Storage Spaces



StorageSpace07 (S:)
Two-way mirror
814 GB logical size
Using 4.00 GB

Warning
Repairing (37%)

[View files](#)
[Rename](#)
[Delete](#)

Physical Drives



ST310005 28AS USB Dev...
Attached via USB
930 GB
0.26 % used

OK

[Rename](#)



ST310003 33AS USB Dev...
Attached via an unrecog...
930 GB
0.02 % used

Warning
Selected for data reallocation

[Rename](#)
[Remove](#)



Seagate FreeAgent Pro U...
Attached via USB
698 GB
0.35 % used

OK

[Rename](#)

See also

[File History](#)

[BitLocker Drive Encryption](#)

Replacing A Physical Hard Drive In A.. "Storage Space" (continued)

**Step 13: Click on the "Remove"
button:**

Remove a Drive

« All Control Panel Items ▶ Storage Spaces ▶ Remove a Drive

Search ...

File Edit View Tools Help

Confirm removal of the drive

Drive to remove



ST310003 33AF USB Dev...
Attached via an unrecog...
930 GB
0.02 % used



Warning
Selected for data
reallocation

Remove drive

Cancel

Replacing A Physical Hard Drive In A.. "Storage Space" (continued)

Step 14: Click on the downward pointing caret to the left of "Physical Drives":

Storage Spaces

Control Panel > All Control Panel Items > Storage Spaces

Control Panel Home

Create a new pool and storage space

Manage Storage Spaces

Use Storage Spaces to save files to two or more drives so that your files remain safe, even when a drive fails. Storage Spaces also enables you to easily add more drives if you run low on capacity.



[Change settings](#)

Storage Pool

Using 5.00 GB of 1.58 TB pool capacity

[Create a storage space](#)
[Add drives](#)
[Rename pool](#)

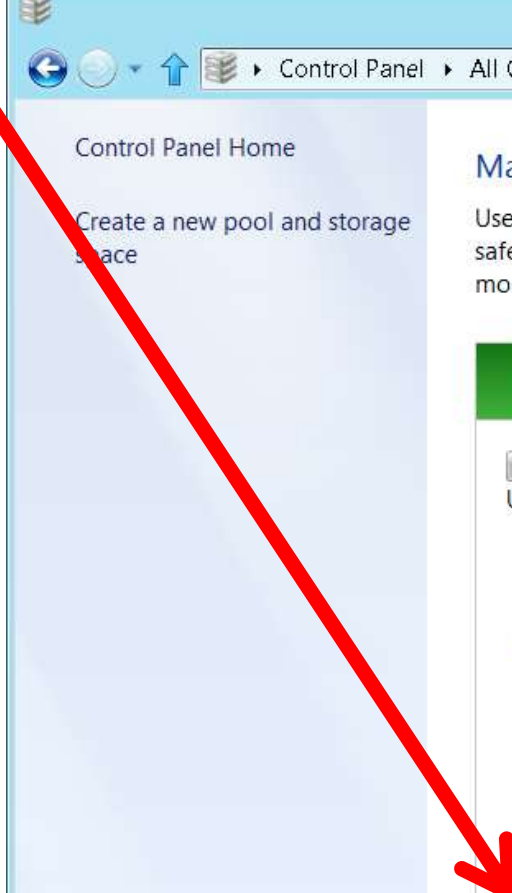
Storage Spaces

	StorageSpace07 (S:) Two-way mirror 814 GB logical size Using 4.00 GB	 OK	View files Rename Delete
---	---	--	--

Physical Drives

See also

- File History
- BitLocker Drive Encryption



Replacing A Physical Hard Drive In A.. "Storage Space" (continued)

Step 15: Note that the hard drive that you wanted logically-removed from the "Storage Space" is no longer displayed:

Storage Spaces

Control Panel > All Control Panel Items > Storage Spaces

Search ...

Control Panel Home

Create a new pool and storage space

Manage Storage Spaces

Use Storage Spaces to save files to two or more drives so that your files remain safe, even when a drive fails. Storage Spaces also enables you to easily add more drives if you run low on capacity.

 Change settings

Storage Pool

OK 

Using 5.00 GB of 1.58 TB pool capacity

[Create a storage space](#)
[Add drives](#)
[Rename pool](#)

Storage Spaces



 StorageSpace07 (S:)  OK
Two-way mirror
814 GB logical size
Using 4.00 GB

[View files](#)
[Rename](#)
[Delete](#)

Physical Drives

 ST310005 28AS USB Dev...  OK
Attached via USB
930 GB
0.26 % used

[Rename](#)

 Seagate FreeAgent Pro U...  OK
Attached via USB
698 GB
0.35 % used

[Rename](#)

See also

[File History](#)

[BitLocker Drive Encryption](#)

