Restore to VHD

How to create a VHD and restore a backup to the VHD using Macrium Reflect.

This article applies to Windows 7 and higher versions on Windows.

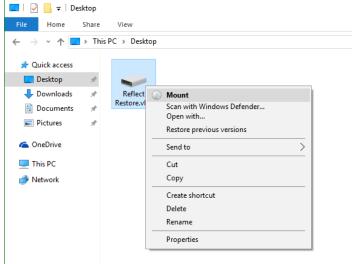
1. This section will take you through the creation of a VHD using the Windows Disk Management console and the mounting process.

| - | | | consol | - | | | | _ | |
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| 📅 Disk Managemer | nt | | | | | | - | | |
| <u>File</u> <u>Action</u> <u>V</u> iew | ı <u>H</u> elp | | | | | | | | |
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| Volume | Layout | Туре | File Syste | m Status | Capacity | Free Spa | % Free | | |
| - (C:) | Simple | Basic | NTFS (Bit | | | 2.43 GB | 2 % | | |
| System Reserved | Simple | Basic | NTFS | Healthy (S | 350 MB | 317 MB | 91 % | | |
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| — Disk 0 | | | | | | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| Basic | System Reserve | ed | | (C;) //////////////////////////////////// | | | | | |
| Basic 111.79 GB | 50 MB NTFS | | | 111.45 GB NTFS (Bit | Locker Encrypt | ed) | | | |
| Basic 111.79 GB | | | nary Parti | | Locker Encrypt File, Crash Dur | ed) mp, Primary Part | tition) | | |
| Basic 111.79 GB | 50 MB NTFS | | nary Parti | 111.45 GB NTFS (Bit | Locker Encrypt = File, Crash Dur | ed) mp, Primary Parl | tition) | | |
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| Basic 111.79 GB | 50 MB NTFS Healthy (System, | | nary Parti | 111.45 GB NTFS (Bit | Locker Encrypt File Crash Du | ed) mp. Primary Part | tition) | | |

Page 1

| 📅 Disk Mana | | | | | | | | ×. |
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| | | | | | | | - | × |
| File Action | View Help | _ | | | | | | |
| Ref | resh | | | | | | | |
| Volur Res | can Disks | Type F | File System | Status | Capacity | Free Spa | % Free | |
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| Sy: Att | ach VHD | Basic N | NTFS | Healthy (S | 350 MB | 317 MB | 91 % | |
| All | Tasks > | | | | | | | |
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| - Disk 0 | | | | | | | | |
| Basic 111.79 GB | System Rese 350 MB NTFS | | (C:) | 5 GB NTFS (BitL | ////////////////////////////////////// | n | | |
| Online | | em, Active, Primary | | hy (Boot, Page) | | | tition) | |
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| Unallocated | Primary partitio | on | | | | | | |
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| set your de | sired options | and click OK | to genera | ate the VHL | at the set | location. | | |
| Create and | Attach Virtual H | lard Disk | | | × | | | |
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| Specify the v | irtual hard disk lo | ocation on the ma | achine. | | | | | |
| Location: | | | | | | | | |
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| C:\Users*L | | op \Reflect Resto | pre.vna | Browse | | | | |
| C:\Users*U | | op \Reflect Resto | ore.vna | Browse | | | | |
| Virtual hard o | | op\Reflect Resto | 100 | <u>B</u> rowse GB | ~ | | | |
| Virtual hard o | lisk <u>s</u> ize: | op \Reflect Resto | | | ~ | | | |
| Virtual hard o | | op \Reflect Resto | | | ~ | | | |
| Virtual hard o | lisk <u>s</u> ize: | op \Reflect Resto | | | ~ | | | |
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d. Locate the VHD in Windows Explorer and mount it by right clicking the icon and selecting the Mount option.



| е. | Once Mounted, Macrium Reflect Backup tab and Disk Management console will now show the mour | nted VHD. |
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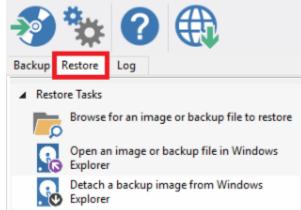
| 📅 Disk Managem | nent | | | | | | _ | | × |
|--|-------------------------|-------------------------------|---------------------------|-------------------------|--------------------------|----------------|----------|-----|---|
| <u>File Action V</u> i | iew <u>H</u> elp | | | | | | | | |
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| Volume | Layout | Туре | File System | Status | Capacity | Free Spa | % Free | | |
| - (C:) | Simple | Basic | NTFS (BitLo | | | 2.39 GB | 2 % | | |
| System Reserved | d Simple | Basic | NTFS | Healthy (S | . 350 MB | 317 MB | 91 % | | |
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| - Disk 0 | | | | | | | | | |
| Basic | System Rese | | (C:) | | | | | | |
| 111.79 GB Online | 350 MB NTFS | | | | itLocker Encrypte | | - | | |
| Online | Healthy (Syst | em, Active, Prima | iry Partii Hea | ithy (Boot, Pag | je File, Crash Dur | np, Primary Pa | rtition) | | |
| | | | | | | | | | |
| Disk 2 | | | | | | | | | |
| Basic 100.00 GB | 100.00 GB | | | | | | | | |
| Online | Unallocated | | | | | | | | |
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| Unallocated | Primary partiti | on | | | | | | | |
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| Macrium Reflect - Server Edition | nn uf 1 1091 Technisian | a Lisense Emises en 26/02/ | 16 | | | | | - 0 | × |
| File View Backup Restore | | s cicense - expires on 20/02/ | 10 | | | | | - 0 | ^ |
| Backup Restore | | | | | | | | | |
| Backup Tasks Image selected disks or | n this computer | Create a backup | | | | | | | |
| | | () Refresh | | | | | | | _ |
| Create a File and Folde | rbackup | | E3] - KINGSTON SV300537A1 | 20G 600ABBF0 <111.79 GE | | | | | |
| Other Tasks Add drivers to technici | an's rescue media | 1 - System Re NTFS Active | iserved (None) | | 2 - (C:) NTFS Primary | | | | |
| | | 32.7 MB 350.0 MB | | v | 109.05 GB 111.45 GB | | | v | 2 |
| Details | | Actions 🔻 | | | | | | | |
| System Reserved File System: NTFS | | Clone this disk | 🕵 Image ti | nis disk | | | | | |
| Free Space: 317.3 MB Total Size: 350.0 MB | | | Msft Virtual Disk 1.0 <1 | 00.00 GB> | | | | | |
| Start Sector: 2,048 End Sector: 718,847 | | | | | | | | | |
| | | | | | | | | | |
| | | 100.00 GB | | | | | | | |
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If the VHD is not visible in Reflect after it has been mounted, please click the O Refresh button.

2. This section will take you through the restore process of your image to the VHD.

Before you begin: You must have a backup image of the disk ready to restore.

a. On the main screen, select Restore.



Backup images available to be restored are shown in the main pane.

b. Select the image you wish to restore and click Restore Image.

| lmage Re | tore File and Folder Restore | | |
|----------|--|----------------------------|------------------------------|
| to Be | wse for an image file 🕚 Refresh 🛛 🦷 Folders to search | | |
| R | MBR Disk 1 [86E9FAE3] - KINGSTON SV300537A120G 600ABBF0 <111.79 GB> | | |
| | 1 - System Reserved (None) NTFS Active | 1 2 - (Ci) NTFS Primary | |
| | 27.5 MB | 96.54 G8 | |
| | 350.0 MB | 111.45 GB | |
| Sort by | Backup Date Location File Name Images that contain drive: Al Driv | 20 V | View Load Errors |
| | | 55 Y | |
| | 59D67613EA69D68D-00-00.mrimq Folder: C:\User\Desktop\69D67613EA69D680-00-00.mrimg Type: Full | | Browse Image < Restore Image |
| | Date: 20/01/2016 12:22 mage ID: 69D67613EA69D68D | | Verify Image + Other Actions |

c. The next dialog gives you the opportunity to modify the destination properties.

Moving and Resizing the restored partition

(i

By default, partitions restore to their original locations if you **click 'Copy selected partitions'**. However, to drag partitions to different locations and resize them to use the available space. Simply drag the source partition to any available partition or free space on the target disk. You can also delete partitions on the target disk to make space. For more destination options and further information, see Modifying restored partition properties.

Drag and drop the disk partitions from the Source image to the Destination VHD.

| 🕏 Dra | ag Parti | tions to the Destination Disk or click 'Cop | y selected partitions' | |
|-------------|----------|---|----------------------------|--------------------------------|
| Source | | 6 12:22 C:\Users\Desktop\69D67613EA69D68D-0 MBR Diek 1 [86E9FAE3] - KINGSTON SV300537A120G 600AB | 3F0 <111.79 GB> | |
| | | T - System Reserved (None) NTFS Active | 2 - (C:) NTFS Primary | |
| | | 27.5 MB 350.0 MB | 98.54 GB 111.45 GB | |
| Destination | n Loca | disk 🖌 <u>Undo</u> 🖹 Cop | y selected partitions | Select a different target disk |
| | R | Disk 3 [F7D597D7] - Msft Virtual Disk 1.0 <100.00 GB> | | |
| | | 27.5 MB 350.0 MB | 99.66 GB | |
| | > | Delete Existing partition | tored Partition Properties | Verify image before restore |
| | | | Help < Back | Next > Cancel Finish .:: |

d. Click Next to restore the image onto the VHD.

| Resto | re Summary | |
|-------|---|---|
| \$ | Image File: Image ID: Date: Time: Image Type: | \\psnas\Public\Gosha\pcBU\69D67613EA69D68D-00-00.mrimg 69D67613EA69D68D 20 January 2016 12:22 Full |
| | Source Disk: Geometry: BPB: Destination Disk: | MBR Disk 1 [86E9FAE3] - KINGSTON SV300S37A120G 600ABBF0 <111.79 GB> 14593\63\512 0\0\0 Disk 3 [F7D597D7] - Msft Virtual Disk 1.0 <100.00 GB> |
| | Verify: Delta: SSD Trim: | N Y Y |
| Sched | lules | None |
| Onera | tion 1 of 1 | |
| opord | Restore Partition: Drive Letter Start Sector: End Sector: Partition Type: | 1 - System Reserved NTFS 27.5 MB / 350.0 MB None 2.048 718.847 Active |
| 114 | dvanced Options | Help < Back Next > Cancel Finish |

e. A summary screen is displayed confirming the choices that have been made, click Finish.

Note: You may need to run Macrium ReDeploy to enable a restored system image to boot into the Hyper-V VM. Please see Re-deploying to new hardware for more information.