

# How to Convert and Replace a Barracuda Networks Virtual Appliance VHD File with a VHDX Format File

https://campus.barracuda.com/doc/43844318/

This article applies to all Barracuda Vx products offered with Microsoft Hyper-V 2008, 2008 R2, 2012, 2012 R2, 2016 and 2022.

This article assumes you have licensed and deployed your **Barracuda virtual appliance**.

Use the steps in this article to convert and replace a Barracuda virtual appliance .**vhd** file with a .**vhdx** format file.

### Step 1. Convert the VHD File to VHDX Format

1. Log in to Microsoft Hyper-V, and select the virtual machine (VM) where the VHD file to be converted resides:

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🚆 Hyper-V Manager			Actions		
WIN-308Q3AHN17P	Virtual Machines			WIN-308Q3AHN17P	
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	<	I		🝰 Edit Disk	
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2. Right-click the VM, and click **Turn Off**.



- 3. From the **Action** menu, click **Edit Disk**.
- 4. The **Edit Virtual Hard Disk Wizard** displays. Click **Next**, and on the next page click **Browse** to navigate to and select the disk you want to convert from .**vhd** format to .**vhdx** format.
- 5. Click Next. In the Choose Action page, select Convert:

Edit Virtual Hard Disk Wizard				
Choose Actio	on			
Before You Begin Locate Disk Choose Action Choose Disk Format Choose Disk Type Configure Disk Summary	<ul> <li>What do you want to do to the virtual hard disk?</li> <li>Compact This option compacts the file size of a virtual hard disk. The storage capacity of the virtual hard remains the same. </li> <li>Convert This option converts a virtual hard disk by copying the contents to a new virtual hard disk. The right virtual hard disk can use a different type and format than the original virtual hard disk. </li> <li>Expand This option expands the capacity of the virtual hard disk.</li></ul>			
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 Click Next. In the Convert Virtual Hard Disk > Choose Disk Format page, select VHDX to convert the .vhd to .vhdx format:

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Edit Virtual Hard Disk Wizard     Convert Virtual Hard Disk	
Before You Begin Locate Disk Choose Action Choose Disk Format Choose Disk Type Configure Disk Summary	<ul> <li>What format do you want to use for the converted virtual hard disk?</li> <li>VHD Supports virtual hard disks up to 2,040 GB in size.</li> <li>VHDX</li> <li>This format supports virtual disks up to 64 TB and is resilient to consistency issues that might occ from power failures. This format is not supported in operating systems earlier than Windows Ser 2012.</li> </ul>
	< Previous Next > Finish Cance

 Click Next. In the Convert Virtual Hard Disk > Choose Disk Type page, select the type of disk to use for the converted virtual hard disk:

Barracuda Networks recommends selecting **Fixed size** as the disk type.



Before You Begin Locate Disk Choose Action Choose Disk Format Choose Disk Type Configure Disk Summary	<ul> <li>What type do you want to use for the converted virtual hard disk?</li> <li>Fixed size</li> <li>This type of disk provides better performance and is recommended for workloads that are sensit to disk performance. The virtual hard disk file that is created initially uses the size of the virtual hard disk and does not change when data is deleted or added.</li> <li>Dynamically expanding</li> <li>This type of disk provides better use of physical storage space. The virtual hard disk file that is created is small initially and changes as data is added.</li> </ul>

8. Click **Next**. In the **Configure Disk** page, specify the name and location for the VHDX to be saved, and then click **Next**.

Verify the disk name ends with .**vhdx**, e.g., **barracuda.vhdx**.

9. The **Summary** page displays a summary of the operation; verify all fields are correct, and then click **Finish**. Allow the operation to complete before proceeding.

#### Step 2. Replace the VHD File with the VHDX Format



- 1. Right-click the VM, and click **Settings**. In the **Settings** window, click **Hard Drive** in the left pane.
- 2. In the right pane, select **Virtual hard disk**, and then click **Browse** to navigate to and select the .**vhdx** file created in *Step 1. Convert the VHD File:*

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Barracuda Virtual Apliance	
Add Hardware BIOS Boot from CD Memory 3500 MB Processor 2 Virtual processors IDE Controller 0 Hard Drive BarracudaWebAppFirewall+ IDE Controller 1 DVD Drive None SCSI Controller Network Adapter	<ul> <li>Hard Drive</li> <li>You can change how this virtual hard disk is attached to the virtual machine. If an operating system is installed on this disk, changing the attachment might prevent the virtual machine from starting.</li> <li>Controller:</li> <li>Location:</li> <li>IDE Controller 0</li> <li>Ø (in use)</li> <li>Meda</li> <li>You can compact, convert, expand, merge, reconnect or shrink a virtual hard disk by editing the associated file. Specify the full path to the file.</li> <li>Ø Virtual hard disk:</li> <li>D:[htyper-V[Wirtual Hard Disks]BarracudaWebAppFirewall-vm4.2.3-fw7.9.0.021</li> <li>New Edit Inspect Browse</li> <li>Physical hard disk:</li> <li>If the physical hard disk, you want to use is not listed, make sure that the disk is offline. Use Disk Management on the physical computer to manage physical hard disk.</li> <li>To remove the virtual hard disk, click Remove. This disconnects the disk but does not delete the associated file.</li> </ul>

- 3. Click **OK** to save your changes.
- 4. Start the VM.

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#### Figures

- 1. view\_addin.png
- 2. choose\_action.png
- 3. disk\_format.png
- 4. edit\_virtual\_disk.png
- 5. select\_virtual\_disk.png

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