Expand Encrypted OS Disk Partition in Windows_Encryption

Last updated by | Kevin Gregoire | Mar 29, 2022 at 11:47 AM PDT

Tags	
cw.Azure-Encryption	cw.How-To

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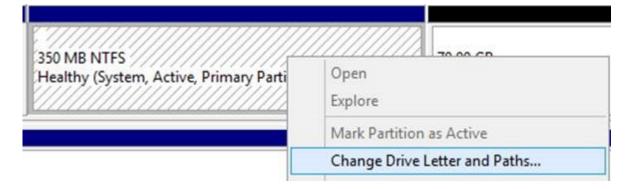
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Summary

In this TSG you will find steps for expanding an encrypted OS disk in Windows.

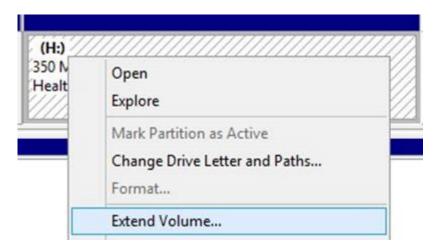
Instructions

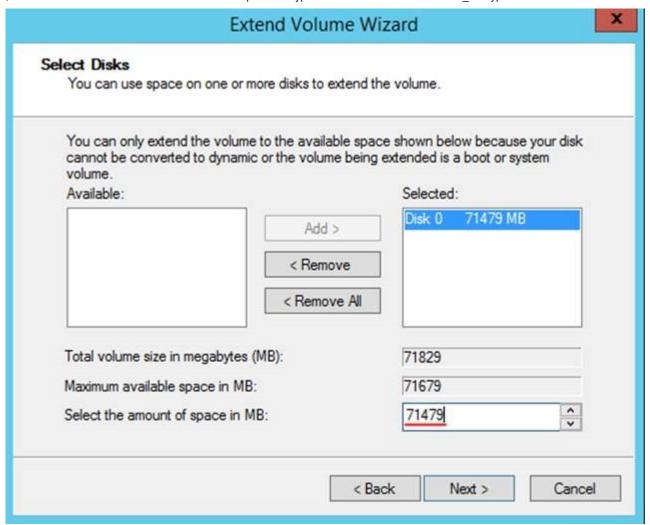
- 1. Make a backup of the VM OS disk.
- 2. Deallocate the VM from Azure portal and expand the OS disk size. Then start it.
- 3. Login to the VM. In Disk Management tool, assign a driver letter to the reserved partition that is 350 MB. For example, you can assign drive letter H: to it.





4. Add the free space into H: drive, but leave at least 200 MB in the right end of the disk:

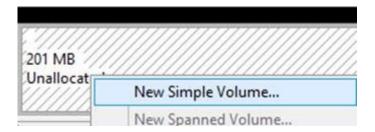


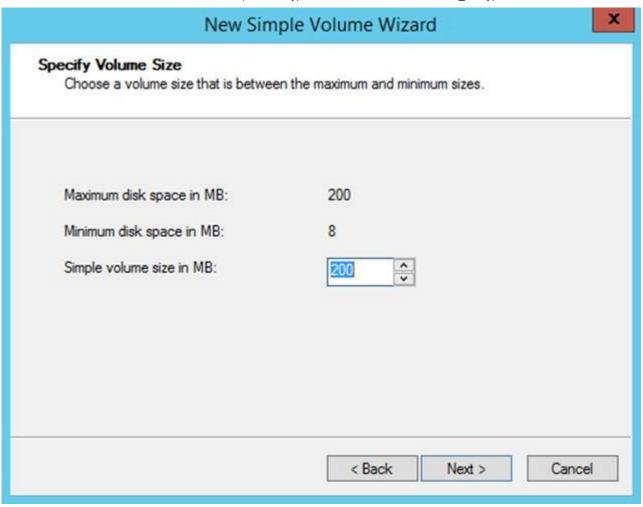


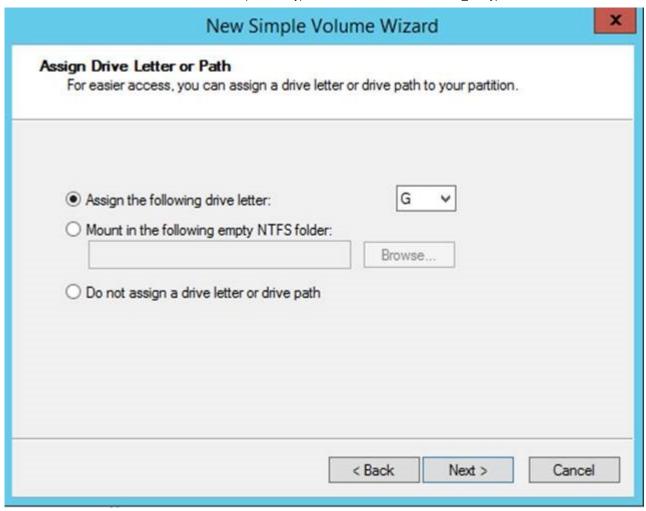
The disk partition layout will look like this after this step:

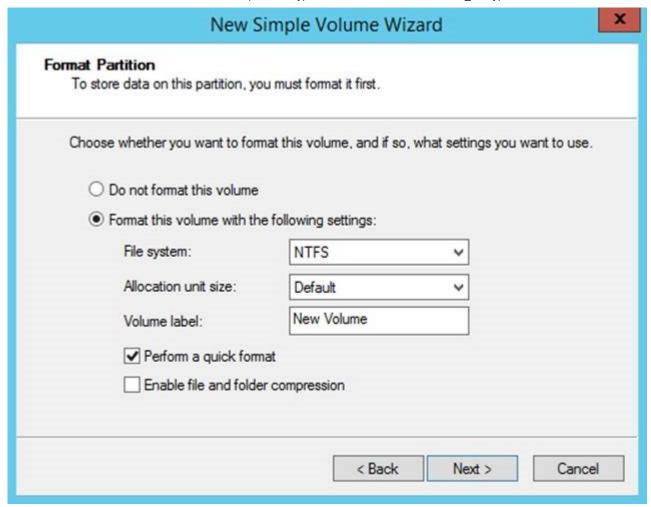


5. Create a new volume in the last unallocated partition and assign drive letter G: to it.

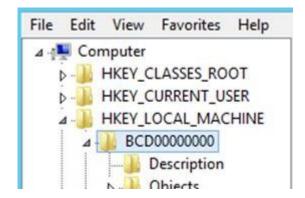


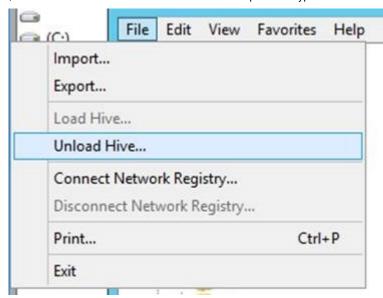






- 6. Open CMD and run the following command to create a new set of boot files from C:\windows into G: drive: bcdboot C:\windows /s G:
- 7. Open regedit, select HKEY_LOCAL_MACHINE\BCD00000000, then unload hive.





8. Copy the current bcd file from H:\boot to replace G:\boot:

(we do this because the BCD file created by step 6 does not contain the Azure specific configurations.) if you don't want to do the copy, at least follow the "Set the Boot Configuration Data (BCD) settings" part in https://docs.microsoft.com/en-us/azure/virtual-machines/windows/prepare-for-upload-vhd-image

```
C:\Users\rujin>copy H:\boot\bcd G:\boot\bcd
Overwrite G:\boot\bcd? (Yes/No/All): Yes
1 file(s) copied.
```

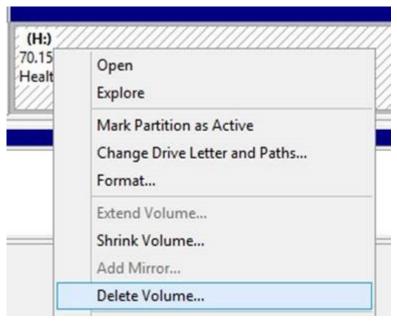
9. Run the following command to change boot manager guid from H:\ to G:

```
C:\Users\rujin>bcdedit /store G:\boot\bcd /enum /v
```

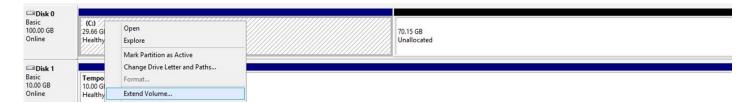
```
Windows Boot Manager
                        {9dea862c-5cdd-4e70-acc1-f32b344d4795} <<<<<
identifier
device
                        partition=H:
description
                        Windows Boot Manager
locale
                        en-us
inherit
                        {7ea2e1ac-2e61-4728-aaa3-896d9d0a9f0e}
displayorder
                        {05d0826e-19a2-4380-968f-4b45f971812d}
toolsdisplayorder
                        {b2721d73-1db4-4c62-bf78-c548a880142d}
                        30
timeout
..... · ·
```

bcdedit /store G:\boot\bcd /set {9dea862c-5cdd-4e70-acc1-f32b344d4795} device partition=G:

- 10. In Disk Management, right click G:, select "mark partition as active" and Click Yes to confirm.
- 11. Restart the VM.
- 12. Log in VM again. In disk management, delete the H: partition and click Yes to confirm:



13. Then expand C drive with the free space:



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