

How to create a Recovery partition to customize Windows recovery

This article will guide you to restore Windows to its original state with pre-installation by creating a custom Recovery partition.

Most computers today with OEM pre-installed Windows have Factory Recovery partitions. This partition allows users to restore Windows 10 to their original state as transferred from the factory.

Although a practical feature, restoring Windows to its original state from the manufacturer's Recovery partition means restoring the computer to its original state with all OEM bloatware and trial software, Windows. updated, etc.

This article will guide you to restore Windows to its original state by formatting the Recovery OEM partition and using that space to create your own partition. Then set up or install from the beginning of Windows, fully update, install the software, create user accounts and before starting to use Windows, get the Windows image to create the install.wim file. Use this file to set up a custom Recovery partition.

1. How to backup and restore Windows 10 from System Image
2. Complete how to use all backup and restore tools on Windows 10
3. Summary of some simple ways to Reset Windows 10

1. Get the Windows image

Note: If your Windows 10 has been fully updated, installed software, created user accounts, customized Windows, skip from Step 1 to Step 3.

Step 1 . Full Windows 10 update.

Step 2 . Create a user account, install the software you want to use in the Windows recovery image.

Step 3 . Customize Windows as you like, change the theme or other settings.

Step 4 . When finished, start the computer from the Windows installation media. When you see the Windows Setup screen select the keyboard and the area that appears, press `Shift + F10` to open the Command Prompt.



Step 5 . Type **DISKPART** (1) and press **Enter** to start the disk partitioning utility.

Step 6 . When booting from Windows installation media, the drive letter may differ from normal boot. Enter the command **LIST VOL** (2) to check the partition character.

Step 7 . We need to get the Windows partition and save the install.wim file to another partition (internal or external drive) or on the shared network folder. Check the temporary drive letter for the Windows system partition. In this case, drive **D:** (3). If you save the image retrieved to another partition on the same computer, check its drive letter. In this example, you can select the drive **E:** (4) as the location to save the Windows image, but we will save it on the shared network.

Step 8 . Enter the **EXIT** command to exit **DISKPART** (5).

Step 9 . This is an optional step if you want to save the image on a shared network.

If you want to save the image on the shared network folder on another computer, you first need to initialize the network service with the **wpeinit** command (6), then map the shared folder on the computer to the drive letter localized.

The shared network path is **servershare** , where the **server** is the computer name with the shared folder or drive and **share** is the **shared** drive or folder name. In this case, we have the shared folder on the computer, **AGM-W10PRO03** , called **Storage** and the path is **AGM-W10PRO03Storage** .

In this example, we will map the shared network directory to drive **Z:** use the following command. Enter the network login information (username and password for the **server** when notified (7):

```
net use Z: agm-w10pro03storage
```

Step 10 . Now, you can get Windows with a customized WIM file with DISM. Switch / **imagefile:** followed by the path and file name for the DISM command where the Windows image is stored. In this case, the image is saved to **install.wim** to the mapped network drive **Z:.** Switch / **capturedir:** Followed by the drive letter, colon,

backslash says DISM knows which drive contains Windows installation (in this example **D:** drive). Change the information to your case.

The command to get image is as follows: (8)

```
dism / capture-image /imagefile:Z:\install.wim / capturedir: D: / name: "Recovery"
```

```
Administrator: X:\windows\system32\cmd.exe
Microsoft Windows [Version 10.0.17134.1]
Not enough memory resources are available to process this command.

X:\Sources>diskpart 1
Microsoft DiskPart version 10.0.17134.1

Copyright (C) Microsoft Corporation.
On computer: MINMINPC

DISKPART> list vol 2

Volume ## Ltr Label Fs Type Size Status Info
-----
Volume 0 C DVD_ROM UDF DVD-ROM 7503 MB Healthy
Volume 1 Recovery NTFS Partition 499 MB Healthy
Volume 2 D Windows 10 NTFS Partition 65 GB Healthy
Volume 3 FAT32 Partition 100 MB Healthy
Volume 4 E Data NTFS Partition 126 GB Healthy

DISKPART> exit 5
Leaving DiskPart...

X:\Sources>wpeinit 6

X:\Sources>net use Z: \\agm-w10pro03\storage 7
Enter the username for 'agm-w10pro03': Karl
Enter the password for agm-w10pro03:
The command completed successfully.

X:\Sources>dism /capture-image /imagefile:Z:\install.wim /capturedir:D:\ /name:"Recovery" /compress:maximum 8

Deployment Image Servicing and Management tool
Version: 10.0.17134.1

Saving image
[=====100.0%=====]
The operation completed successfully.

X:\Sources>
```

Step 10 . When done, close the Command Prompt, close the Windows Setup window and select the zone. Windows will restart and let the computer boot normally into Windows.

2. Prepare Recovery partition

Step 1 . Create a new partition on any internal HDD or SSD by minimizing the existing drive or using unallocated space, naming it **Recovery** .

The partition size should be the size of the custom install.wim file + 1GB, rounding up to the next full GB. That is, if the custom install.wim file is 6.2 GB, plus 1GB, we will have 7.2 GB, rounded up to 8GB (8,192 MB) for Recovery partition.

Step 2 . Mount Windows 10 ISO (same version and build number with Windows image) as a virtual DVD drive (right click on ISO image, select **Mount**). Copy its content to the new Recovery drive.

Step 3 . On the Recovery drive, browse to the **Sources** folder and delete the install.wim or install.esd file in case your ISO is created with the Windows Media Creation Tool. Replace the deleted WIM or ESD file by copying the custom install.wim file into the same directory.

3. Add Recovery partition to the boot menu

Step 1 . Copy the following batch code and paste it into the new Notepad text file or other text editor.

Code:

```
@ECHO OFF TITLE Add Recovery to Windows boot menu :SETLETTER CLS ECHO. ECHO #####
```

Also you can download the batch file on this link.

<https://www.tenforums.com/attachments/tutorials/197691d1532941989-factory-recover>

Note : Unblock the batch file before downloading.

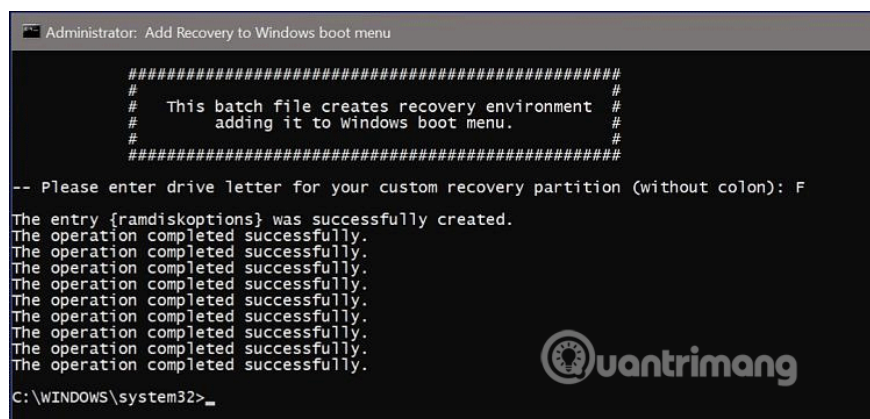
Step 2 . This batch file is for UEFI-based computers with SSD / HDD GPT partitions. If your computer uses a BIOS-based system with an MBR-formatted drive, change the winload.efi in line 21 to winload.exe.

Step 3 . Save the file with the .bat file extension. Example: recovery.bat

Step 4 . Open Command Prompt as admin, run the batch with the full path. For example, if save it as recovery.bat in the Scripts folder on drive E:, enter the following command:

```
E: Scriptsrecovery.bat
```

Step 5 . The batch file will run, ask the drive letter for the Recovery partition you created and set the recovery environment to add it to the boot menu.



```
Administrator: Add Recovery to Windows boot menu

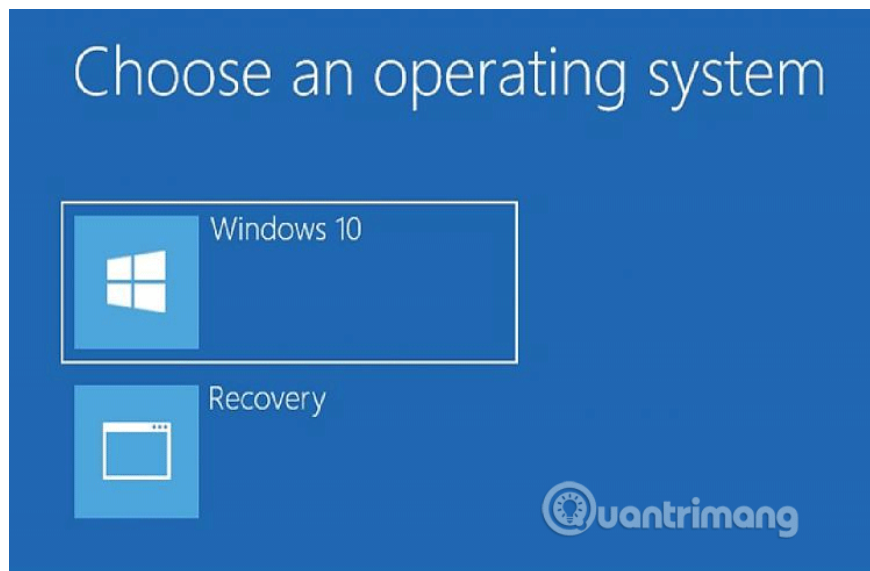
#####
#
#   This batch file creates recovery environment #
#   adding it to windows boot menu.           #
#
#####

-- Please enter drive letter for your custom recovery partition (without colon): F

The entry {ramdiskoptions} was successfully created.
The operation completed successfully.
The operation completed successfully.
The operation completed successfully.
The operation completed successfully.
The operation completed successfully.
The operation completed successfully.
The operation completed successfully.
The operation completed successfully.
The operation completed successfully.
The operation completed successfully.

C:\WINDOWS\system32>_
```

That's it, now you will have the Recovery option in the boot menu. Select it and run Windows Setup, you can install a new Windows 10, restore the custom image to the correct state when the custom image is created. Everything is still there, from custom themes, user accounts and installed software.



Tip: If the system disk has a problem and does not display the boot menu, you can restore it from the custom Recovery partition by booting from the Windows installation media and running Windows Setup manually from the Recovery partition.

For example : If your Recovery partition has a drive letter **F :**, launch Command Prompt by pressing **Shift + F10** when Windows Setup displays the zone selection screen, then enter the following command:

```
F: Setup.exe
```

Windows Setup will run from the Recovery partition.

I wish you all success!

You finished reading the article "**How to create a Recovery partition to customize Windows recovery**" edited by the [TipsMake](#) team. We hope this article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank you for reading and for following us regularly.