# BitLocker Drive Encryption Guide

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How to create a virtual hard drive and encrypt it with BitLocker

1. Click Start button

2. Click Control Panel on right side

3. Click on BitLocker Drive Encryption
4. Click on Disk Management

5. Click on Action in Disk Management

6. Click on Create VHD
7. In Location put the path that you want your Virtual Hard Drive to use. In Virtual Hard Disk Size put the size of drive you need. Under hard disk format it is recommend that you use a fixed size format. Click ok after you have made your selections.

8. After the virtual hard disk is created you will need to find your virtual hard disk and right click under the name of the disk (Disk 3 in our example). You will then need to click on Initialize Disk.
9. Click Ok

10. After the disk is initialized, right click the area beside the left are (Should the area that say unallocated) and click New Simple Volume.
11. Click Next

12. Click Next
13. Assign the drive letter of your chose and click next (Please note I assigned the Drive letter X not F as shown below).

14. Format this volume and add the volume label, then click next.
15. Click Finish

16. On the desktop click on the icon that says Computer (My Computer), then right click on your new drive and click Turn on BitLocker.
17. Check the box “Use a password to unlock the drive” and enter in your password (This password will unlock your drive) and then click Next.

18. You will need to Save your recovery key to a file or print it (Keep this file/page in a secure location) and the click Next.
19. Click Start Encrypting.

20. Click Close
How to Mount and Open your VHD after you restart your Computer

1. From the desktop click Start Button.

2. Click Control Panel on right side of start menu.

3. Click on BitLocker Drive Encryption
4. Click on Disk Management (Bottom left corner)

5. Click on Action dropdown menu and click Attach VHD.
6. Enter location of Virtual Hard Disk and click OK.

7. Enter your password and click Unlock.

8. Exit out and return to desktop, click on Computer (My computer), and then click on drive.
Encrypting removable drives (Flash drives, External Hard drives, etc.)

1. From the desktop click Computer (My Computer).

2. Right click the removable drive that you want to encrypt and then click Turn on BitLocker.
3. Click Start Encrypting.

![Image of BitLocker Drive Encryption dialog showing the option to start encrypting]

4. Enter password that will unlock drive and Click Next.

![Image of BitLocker Drive Encryption dialog showing the option to enter a password]

5. Save or print recovery key and Click Next.

6. When Encryption is complete Click Close.
How to detach your virtual hard drive

1. Follow Steps 1-4 of How to create a virtual hard drive and encrypt it with Bitlocker and Click on Disk Management.

2. Find the drive you want to detach and Right Click on the left side and Click Detach VHD.

3. Click Ok and you are done.
How make a lock drive shortcut. (This will lock your encrypted drive without dismounting it)

1. From the Desktop Right Click anywhere on the Desktop and Click New and then Click Shortcut.

2. In the box labeled “Type the location of the item:” insert the following path “C:\Windows\System32\manage-bde.exe -lock X: -forcedismount” and Click Next. If your drive is not X change the drive letter after –lock to the drive letter you want to lock.
3. In the box labeled “Type a name for this shortcut” insert the name for the shortcut (I used “Lock Drive X”) and Click Finish.

4. Once the shortcut is created you will need to go to the desktop and Right Click the new shortcut and Click Properties.
5. Click Advanced button.

6. Check “Run as administrator” box and Click Ok.
7. Click the Change Icon button.

8. You may get this error box, Click Ok.
9. In the “Select an icon from the list below:” box, select the image that you want to display on your lock icon and Click Ok.

10. Exit to your desk and your icon should look something like this.