**Lab 1 – Dual boot to Windows 2016**

**Description:**  In this first lab of building a vhdx and installing windows 2016 into it and then dual boot to it.

This lab should work for both 8.1 and Windows 10 Machines.

**MUST NOT have any type of drive encryption. IF you have enabled drive encryption (like bitlocker) you will need your recovery key.**

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| Creating the VHDX | |
|  | 1. Open Disk Management. (**right click** on the **start** button) 2. Choose **Action ->Create VHD** from upper menu. 3. Enter a location for the VHD (**C:\VMS**) and a name (**win16**) 4. Enter **30** as a size, and change dropdown to **GB.** 5. Choose **VHDX** format and dynamically expanding. 6. Click **ok** |
| **The new VHD file is created and automatically mounted and visible in Disk Management.** | 1. In disk manager right click the new disk and select **Initialize Disk.** (Right click on the Icon… not the empty space representing the disk.) 2. When the initialize disk window appears Select **MBR** (Master Boot Record) and Click on the **OK** button. 3. Right Click on the Unallocated space and choose **New Simple Volume.** 4. The New Simple volume wizard will appear, Click **Next** on the welcome screen. 5. Click **next** on the Specify Volume Size window. 6. Change the driver letter dropdown to be **Q** and click **next**. 7. On format partition, Click **Next** 8. Q drive will now appear. |
| **Mount your ISO.** | 1. Find your Windows 2016 ISO in explorer. 2. Right Click on it and choose **Mount** (as D in my case) |
| **Apply the image to the hard drive.** | 1. Start a command prompt as an administrator. (right click on start menu)   **Dism /apply-image /imagefile:D:\sources\install.wim /index:2 /applydir:Q:\** |
| **Setup your machine to dual boot to this new installation of windows.** | 1. Open up a command prompt and type   **bcdboot Q:\windows**   1. Restart your computer and you will have another option to boot to. |