

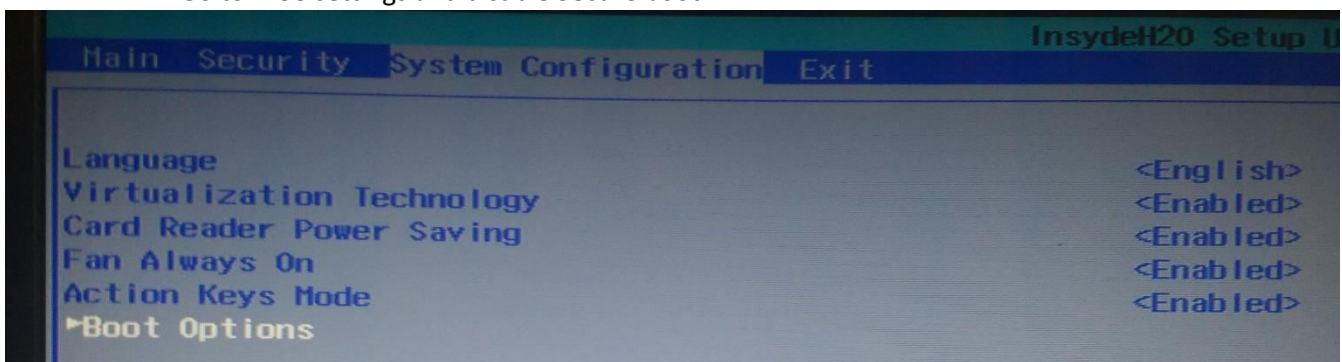
# Dual Boot PC (Windows and Ubuntu) with UEFI

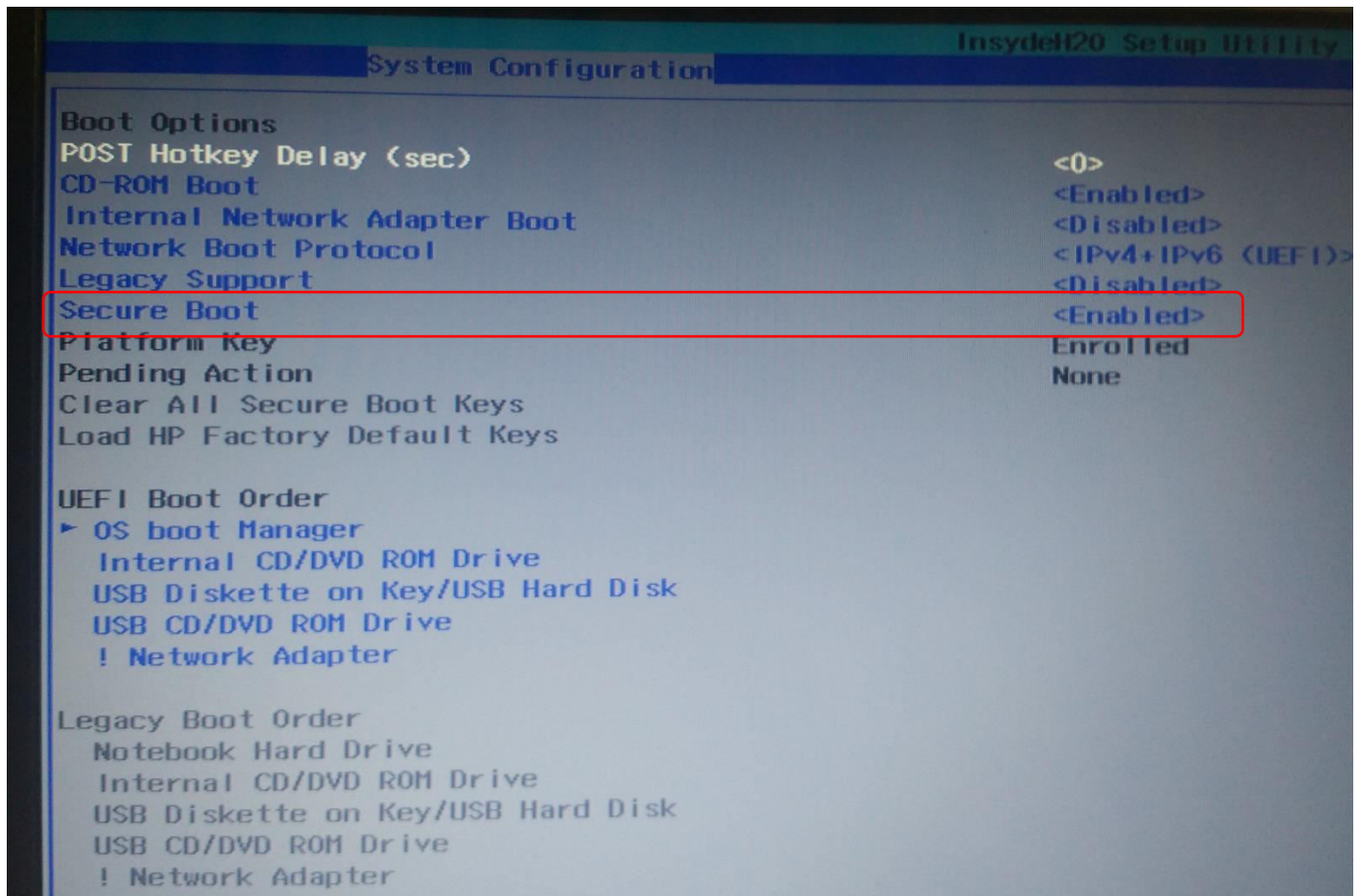
1. Disable Fastboot in Windows Power settings
  - Search for and open “Power options” in the Start Menu.
  - Click “Choose what the power buttons do” on the left side of the window.
  - Click “Change settings that are currently unavailable.”
  - Under “Shutdown settings” make sure “Turn on fast startup” is enabled
2. Check which drive has more than 100GB free space and select which drive to shrink
3. Defragment that drive first
  - Select your hard drive and click Analyze.
  - Check the percentage of fragmented files in the results
  - Click on defragment this drive and wait till process completes (this takes a lot of time)
  - When Windows is done, your drive should say 0% fragmented in the Optimize Drives utility.
4. Unallocate partition from that drive
  - Open Disk Management and right click on the partition you want
  - Select the “Shrink Volume” option
  - In option enter amount to shrink put 102400MB (for 100 GB Linux partition)
  - Click on “Shrink” and wait
  - You should get something like this



Volume Label	File System	Size	Health
System Res	100 MB NTF		Healthy (Sys)
Win7_Pro (C:)	245.62 GB NTFS		Healthy (Boot, Page File, Crash Dump)
		200.00 GB	Unallocated
Recovery (D:)	20.04 GB NTFS		Healthy (Primary Partition)

5. Create bootable Ubuntu pendrive using Rufus software
  - Download Ubuntu 16.04 ISO image from official site
  - Extract file if downloaded in .rar format
  - Download Rufus software
  - Open Rufus.exe (no need to install)
  - Insert your USB stick
  - Rufus will update to set the device within the Device field
  - If the Device is incorrect, select the correct one from the device field's drop-down menu
  - When asked select path to Ubuntu iso file
  - Select MBR partition for UEFI
  - Click OK and say yes to Hybrid image
  - Wait till process is done
6. Boot into BIOS mode
  - Shut down Windows
  - Press Power On button and quickly press startup pause button (usually escape or F12)
  - Go to BIOS settings and disable Secure boot

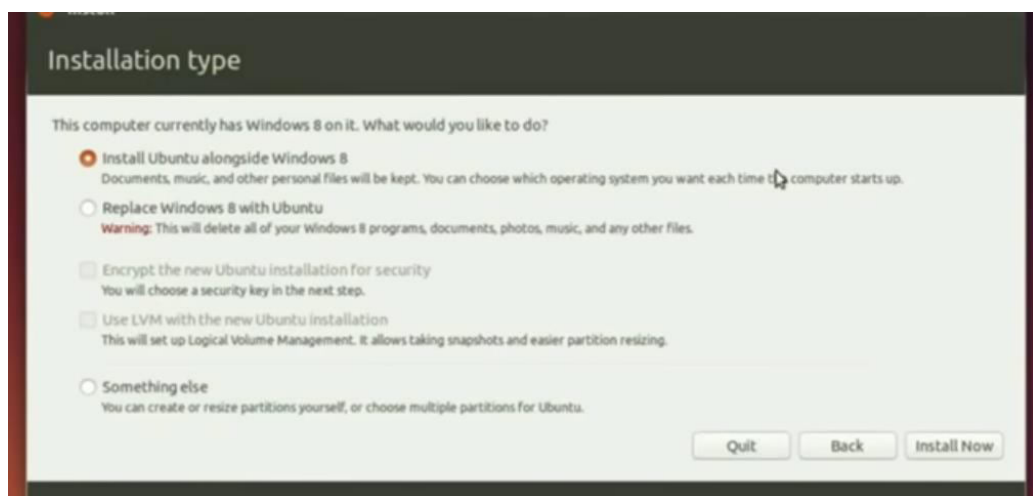




- Save and exit
- Again go into BIOS settings
- Select “boot from” options menu
- Select your USB drive and press enter
- Ubuntu installation will start

#### 7. Ubuntu installation

- Select Install Ubuntu
- Check Install Third party software
- Next screen will show something like this



- **Always select Install alongside Windows** and click on Install now (If this option is not shown seek help)
- Further options are fairly easy and just follow on screen instructions

## 8. Next Steps

- After completion installation shut down computer
- Press power button and following possible things will happen
  - i. Windows will directly boot up
  - ii. GRUB screen will appear showing OS selection menu where windows and Ubuntu is listed  
Your Dual boot is successful
- For people who had Windows direct boot up:
  - i. When you are in Windows desktop, hover the mouse in left corner, right click and select administrator's command prompt
  - ii. Then run the following command:

```
bcdedit /set "{bootmgr}" path \EFI\ubuntu\grubx64.efi
```
  - iii. Shut down PC and restart
  - iv. GRUB screen will appear showing OS selection menu where windows and Ubuntu is listed  
Your Dual boot is successful