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Setting up Ubuntu 14.04 on VirtualBox on Windows

Note: I have done a reasonable amount of VM setup and it can sometimes get a bit hairy with edge cases and sometime just in general. One common issue might be enabling virtualization in your BIOS. <https://en.wikipedia.org/wiki/BIOS>. If issues are encountered then try exploring forums on the internet, if none of this works then just shoot an email.

* Step 1: Grocery list
  + Windows laptop (they say that Windows 10 is not officially supported yet)
    - Hopefully everyone has at least 4GB of RAM
    - At least around 7 GB of memory free
    - Internet
* Step 2: Installation of VirtualBox
  + Download Oracle’s VirtualBox 5.02: <https://www.virtualbox.org/wiki/Downloads>
  + Run all the updates that might pop up for VirtualBox when you install it
* Step 3: Create your Ubuntu 14.04 Virtual Machine
  + Download an iso image to install: <http://www.ubuntu.com/download/desktop>
  + In VirtualBox:
    - Select New and follow the setup guide (most default values are what you want to be using but do not just click next blindly on every page)
      * Note: If all you see are 32 bit operating systems you may need to enable virtualization in your BIOS, if you don’t know what this means talk to us.
      * Recommended memory: 2GB or more depending on your computer
      * Recommended Virtual Hard Disk size: 10GB or more depending on your computer
    - Launch your new VM and install Ubuntu <https://xkcd.com/456/>
      * On the “Select start-up disk” page, select the folder icon on the right and find the iso image that you downloaded
      * Follow the rest of the installation (note when it says “erase disk and install Ubuntu”, this is just clear the space you allocated the VM not your Windows install)
      * Note that the first reboot won’t work because it thinks that you still have the fake installation cd in the drive. Close it out and start it again.
      * Install guest additions on the VM: Click Devices on the toolbar, Insert Guest Addition CD
  + Configure your Virtual Machine settings
    - Make sure your Virtual Machine is off so you can edit the settings. On the VirtualBox main window, highlight your VM from the list and then click on settings. Go to display. Slide up the Video Memory to ~64MB. Click “Enable 3D Acceleration”
  + Change display settings of Virtual Box to enable screen sizes other than “tiny”
    - Virtual Box -> Devices -> Insert Guest Edition CD Image
    - Say yes to all the dialog boxes that appear
    - Reboot Ubuntu
    - (You will have to do this every time you update Ubuntu)

NOTE: This is only after you have install Ubuntu 14.04 on your Beagle Bone (this is outlined in another document)

* Step 4: Connect your BeagleBone
  + Connect your BeagleBone Black into the usb port on your computer. On your VM window select Devices, find your beaglebone and click on it. This redirects the usb port to the virtual machine.