

ECE 361 Lab #5 Setup

Lab Setup

In order to setup the platform for the lab, please follow these steps:

- Download and install VirtualBox (based on your laptop specifications):
<https://www.virtualbox.org/>
- Download the VM image from:
https://drive.google.com/open?id=1gd_FzHbX6Vqhuyz7Se2vr0I_50urwF2f
- Un-compress the archive to get the **.vdi** disk image
- To create a new VirtualBox VM from the disk image:
 - Click on the **"New"** button in the VirtualBox Manager
 - Input a name for your new VM (e.g. ece361)
 - Select **"Linux"** as the type, and choose **"Ubuntu (64-bit)"**¹ for the version. Then click **"Next"**
- When configuring the amount of memory to allocate for the VM, you should provide a minimum of 1 GB, though **2 GB** is recommended. Then click **"Next"**
- When selecting the hard drive, select **"Use an existing virtual hard drive file"** and browse to the disk image downloaded earlier. Then click **"Create"**
- Before starting up the VM, perform the following:
 - Select it in the VirtualBox Manager and go to **"Settings"**
 - Select **"Network"** on the left-hand panel
 - Then the **"Adapter 1"** tab on the right
 - Double-check to ensure it has been **enabled**, and the **"Attached to"** field is set to **"Bridged Adapter"**
 - In the dropdown menu next to the **"Name"** field, select the interface² your current laptop or computer is using for internet connectivity

If you have any questions regarding the setup, use the discussion board. You should now be able to boot up your VM by simply double-clicking on the new entry in the VirtualBox Manager. Allow up to a couple of minutes before it boots up.

¹ If you don't see any 64-bit options and your computer is less than 5 years old, see this blog:
<http://www.fixedbyvonnice.com/2014/11/virtualbox-showing-32-bit-guest-versions-64-bit-host-os/>

² If you don't see any interfaces listed, try re-installing while using an Administrator count on your computer, and select **Yes** for any pop-ups that asks to install extra stuff (even if it says your network may be interrupted)

The image provided is an Ubuntu Linux with a lightweight desktop environment (LXDE). You will do your work within the terminal windows of the desktop. You may log into it with the username/password: **ubuntu/ece361**