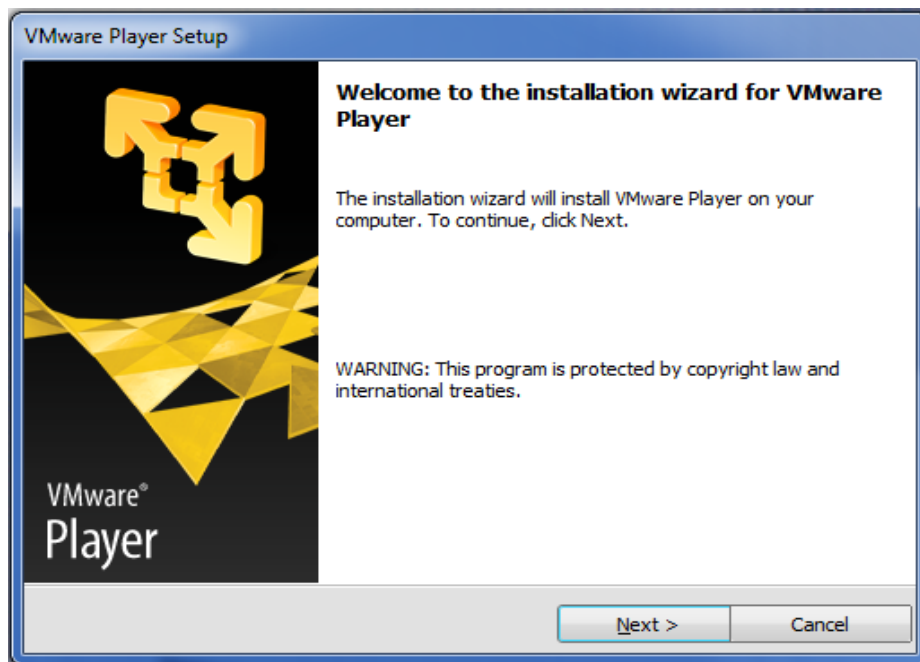# Installing VMware Player and Ubuntu Linux – Easier Way
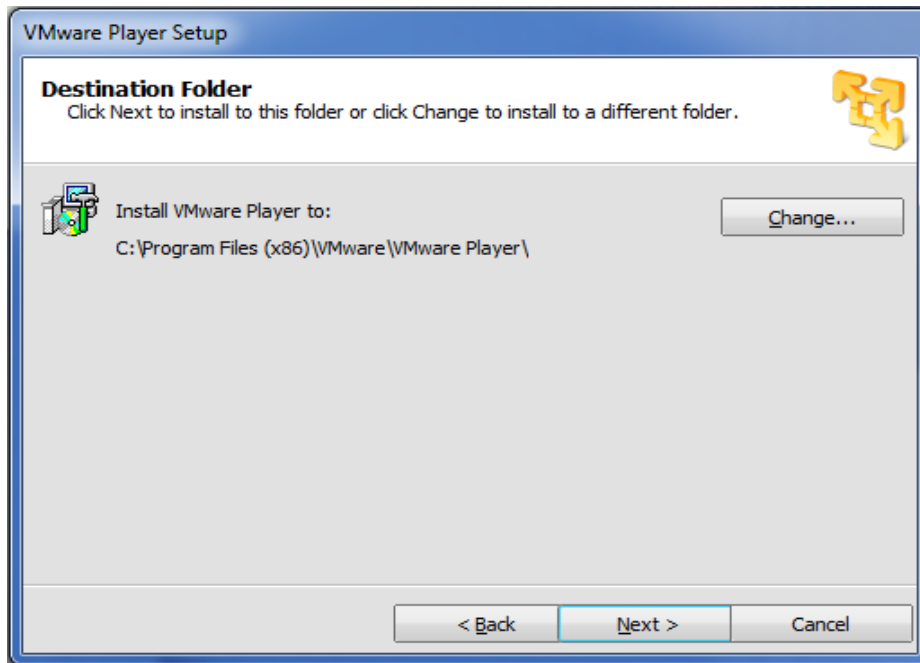
Check that you are connected to the internet before beginning (open Internet Explorer or Firefox or similar).
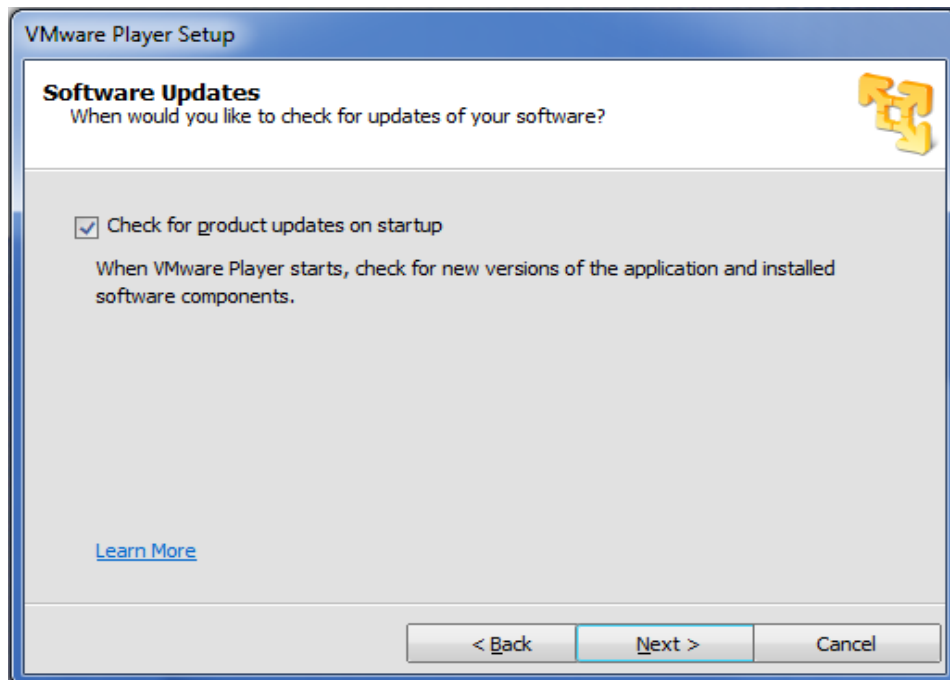
Installing VMware Player

1. Obtain the installation/setup file for VMware Player (**VMware-player-5.0.2-1031769.exe**)
Copy this file from the provided media or
Download it from: http://www.vmware.com/products/player/

2. Also copy the Virtual Machines/UbuntuStudent folder and all its files to your laptop.
Recommend copying this to your Documents folder.
Thus you will have a folder: Documents/Virtual Machines/UbuntuStudent
The files in that folder will be used later.

3. Run the setup file (VMware-player-5.0.2-1031769.exe). Allow it to make changes to your computer if asked.
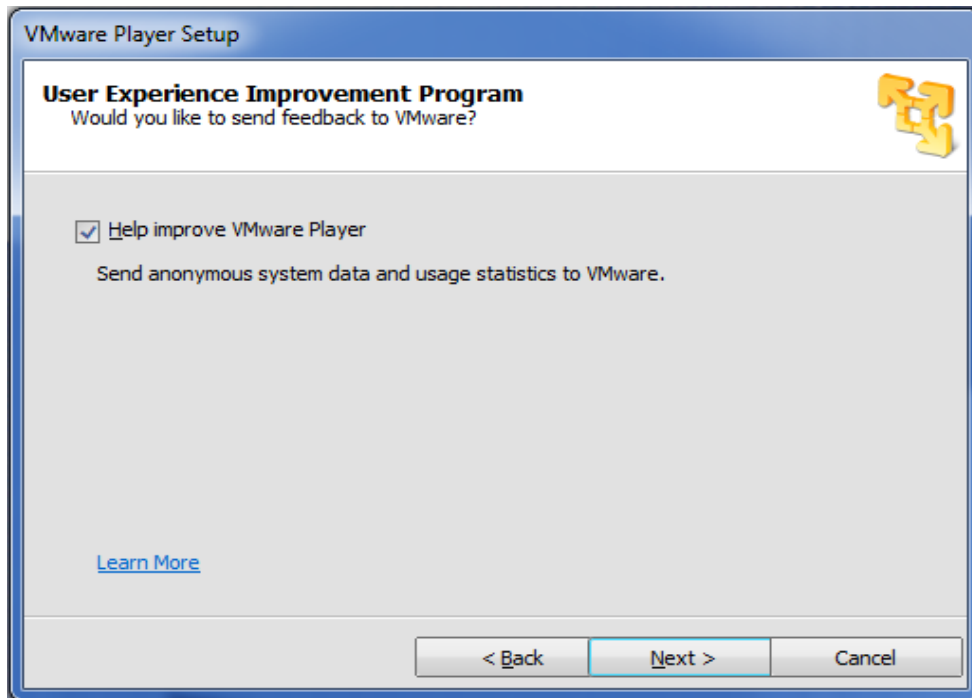
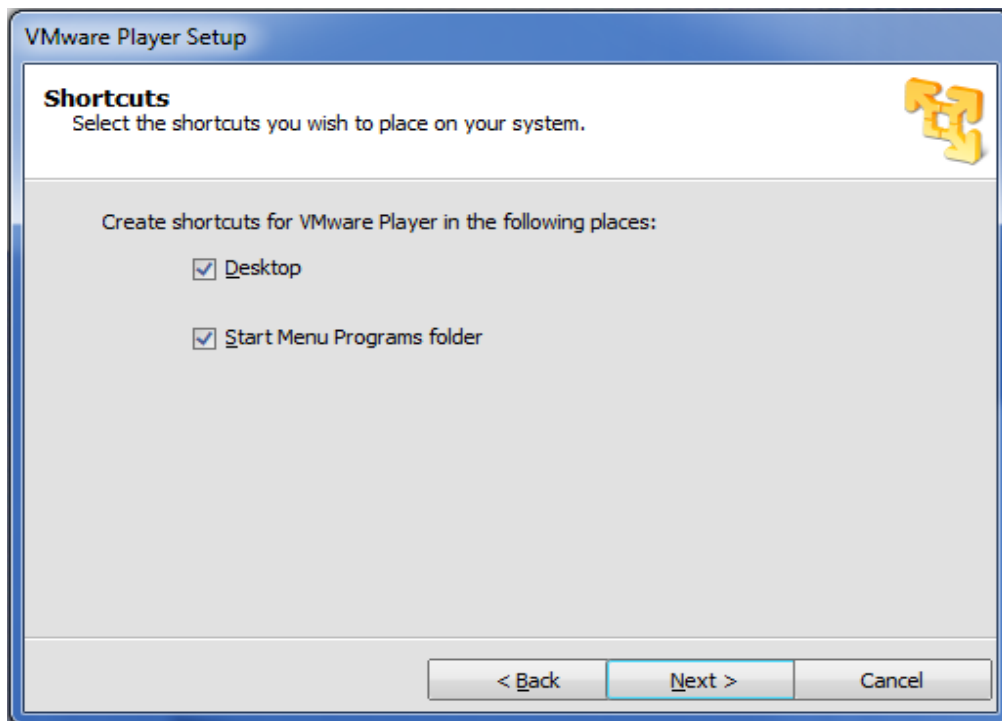4. Follow the instructions given (allow drivers to be installed if asked).

VMware Player Setup

Destination Folder
Click Next to install to this folder or click Change to install to a different folder.

Install VMware Player to:

C:\Program Files (x86)\VMware\VMware Player\

Change...

< Back   Next >   Cancel

5. Continue following the instructions

VMware Player Setup

Software Updates
When would you like to check for updates of your software?

☑ Check for product updates on startup

When VMware Player starts, check for new versions of the application and installed software components.
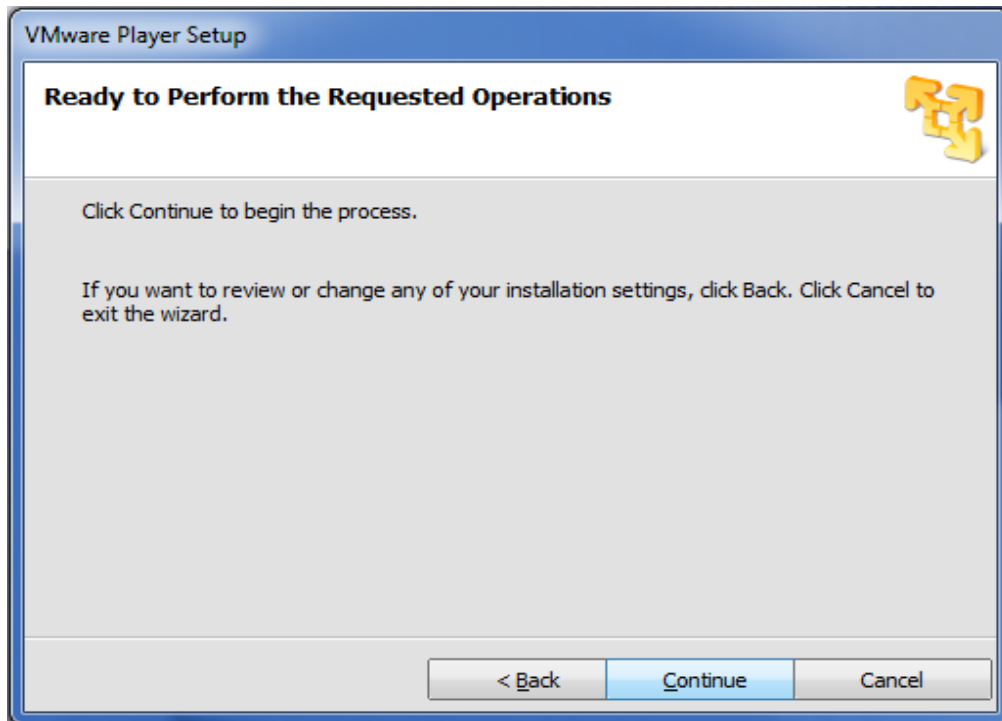
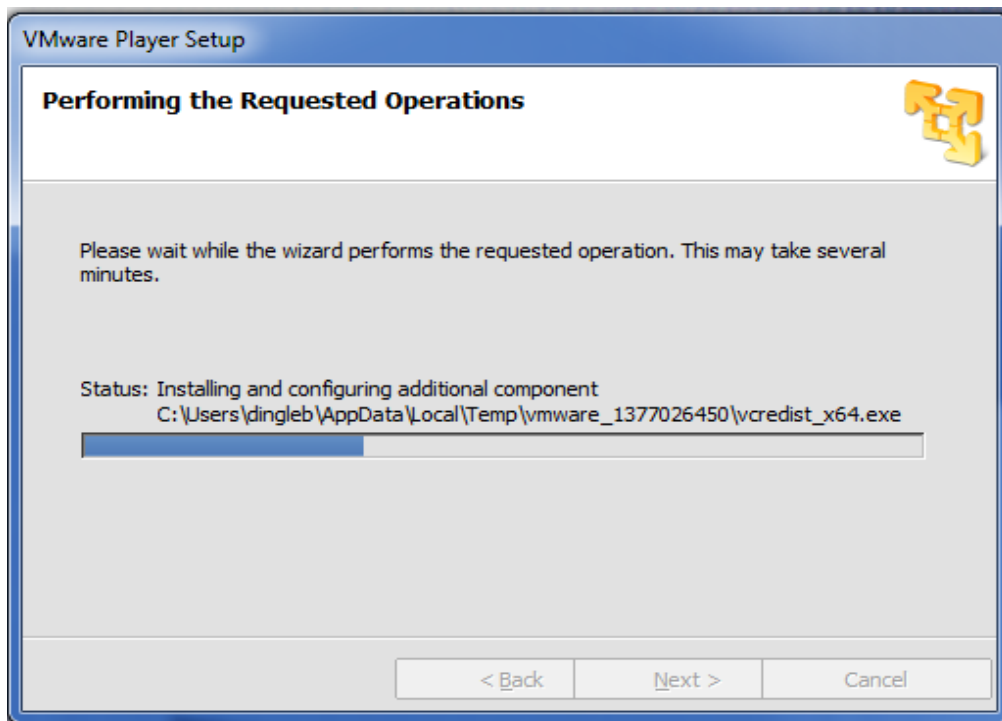Learn More

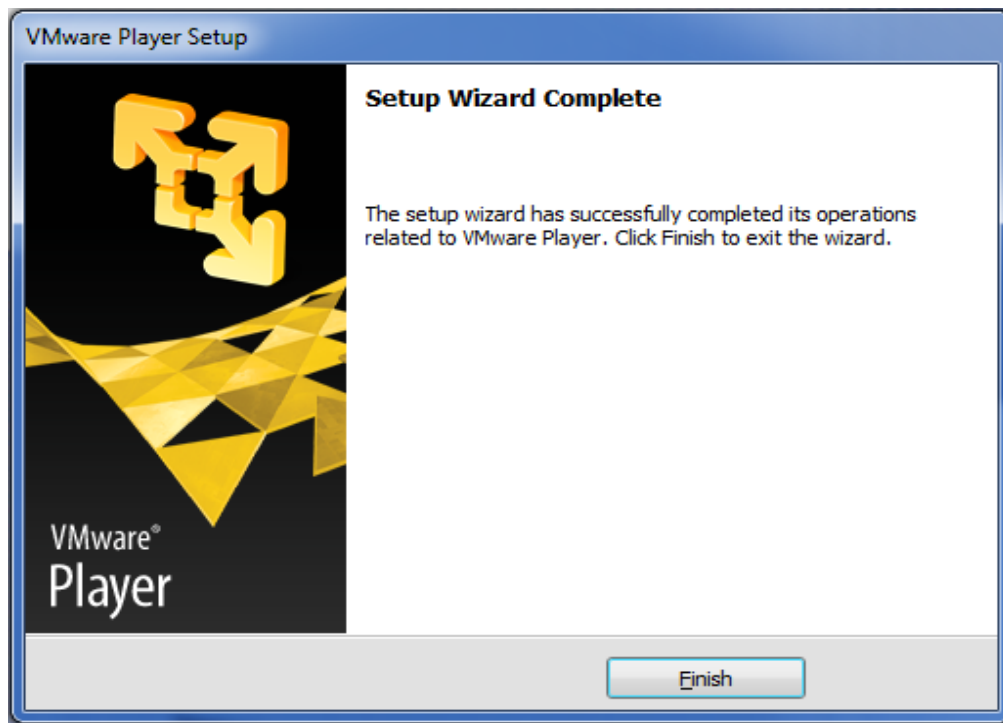< Back   Next >   Cancel

6. And continue


7. Keep going

8. Continue

9. Continue

10. Keep Going

11. And now to Ubuntu Linux…

Installing Ubuntu Linux – Easy Way

This way provides you a "pre-setup" Ubuntu Linux virtual machine. It *should* allow you to avoid some time consuming downloads and installation waiting. It has most, if not all, the software you will need for the class already installed. Thus it will be called the "easy way." You are free to try the "from scratch way" if you want. But this easy way is strongly encouraged at least for the initial effort.

1. If you have not already done so,
   Copy the provided Virtual Machines/UbuntuStudent folder and all its files to your laptop.
   Suggest you copy this to your Documents folder.
   Thus you will have a folder: Documents/Virtual Machines/UbuntuStudent

2. Run VMware Player and Select: Open Virtual Machine
   You do NOT need to upgrade to VMware Workstation, so "skip" it if asked.
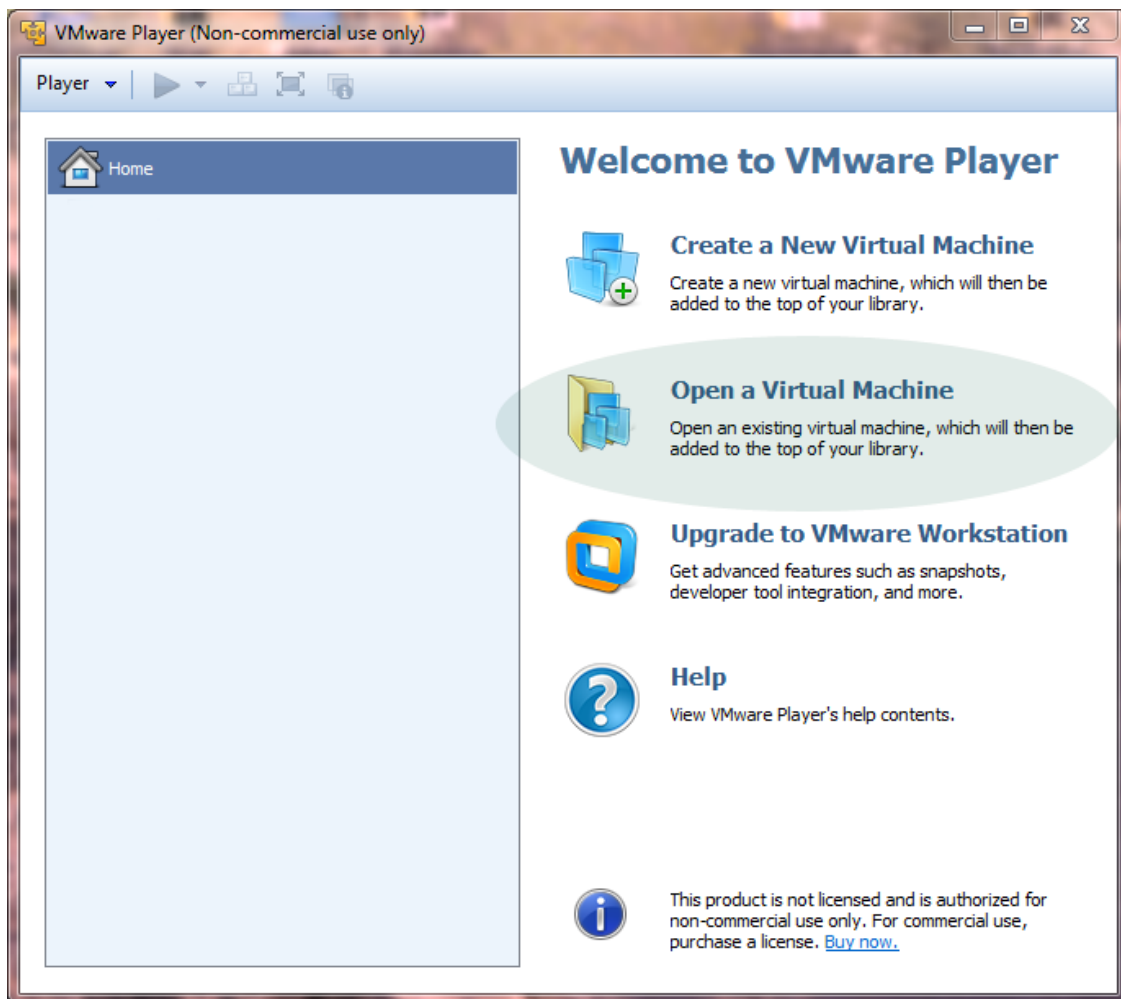
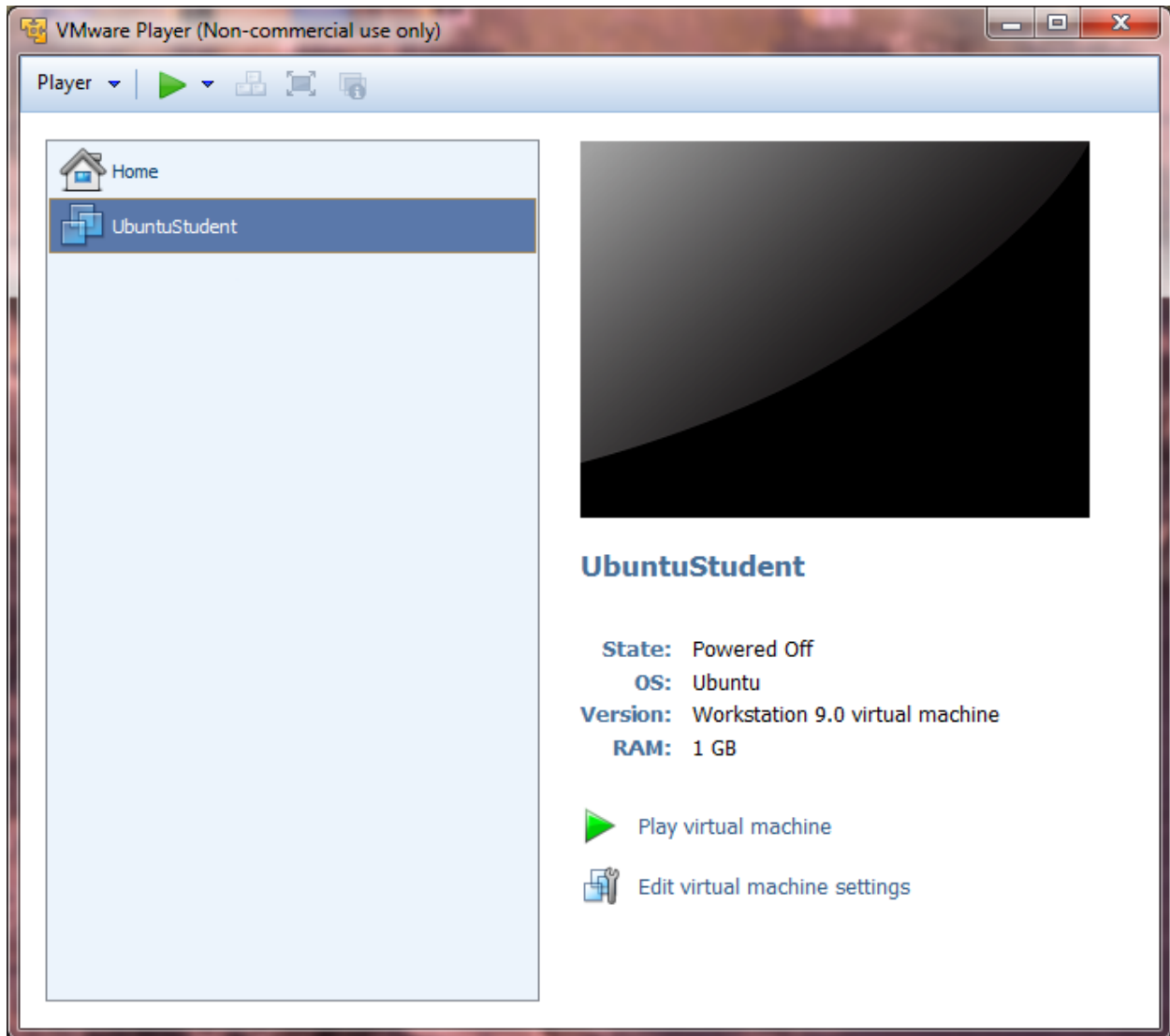3. Browse to where you copied the UbuntuStudent folder *(and then press open or double click)*
   e.g. Documents/Virtual Machines/UbuntuStudent
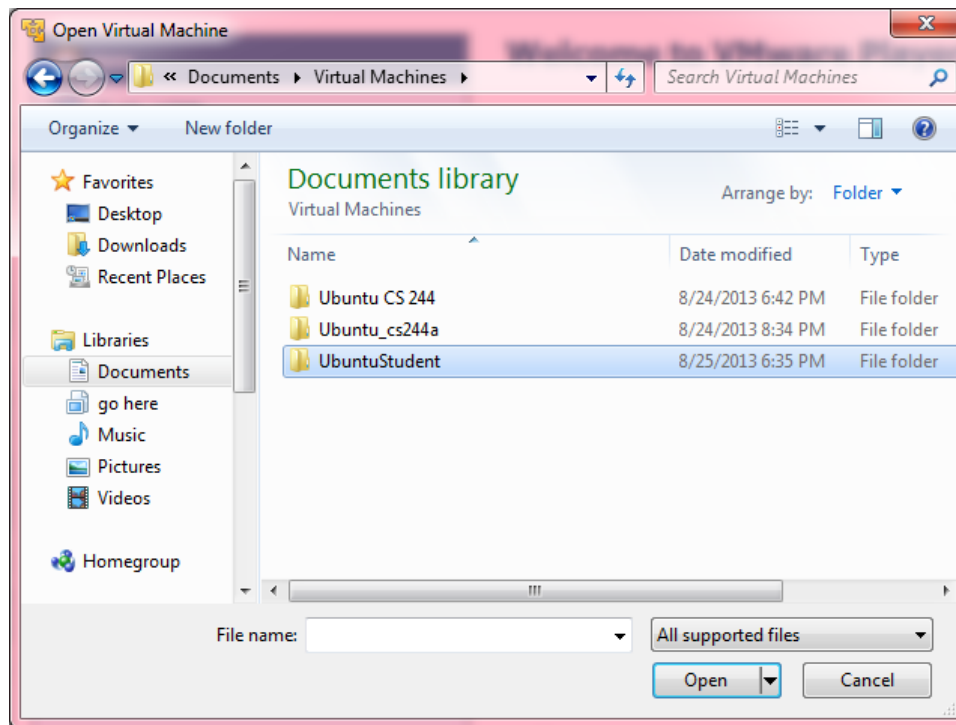
4. Select the UbuntuStudent.vmx file (and press the open button or double click the file)
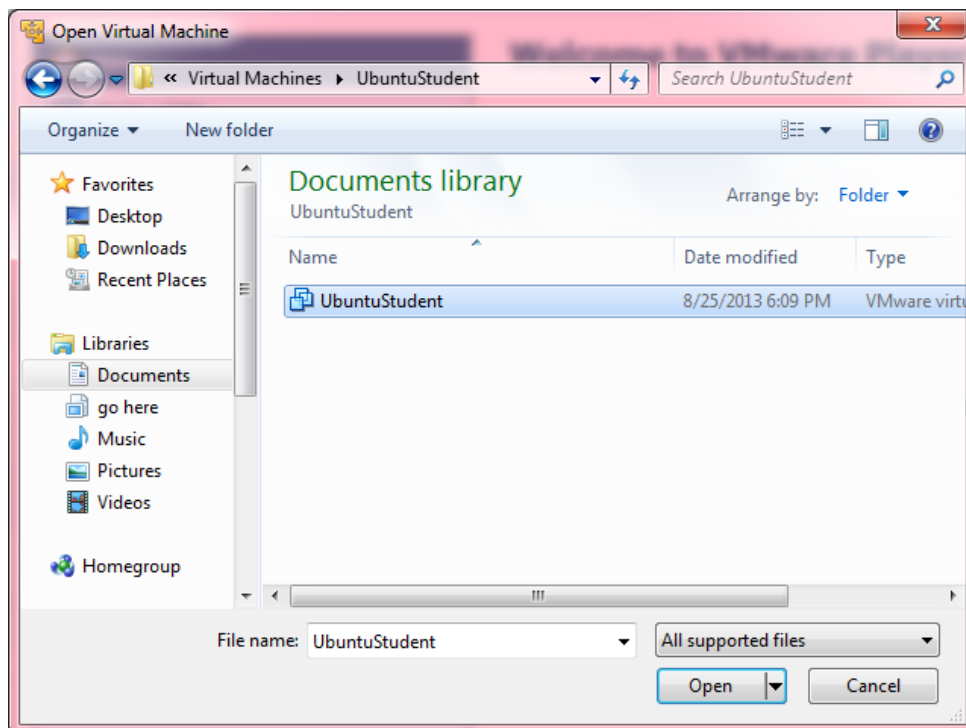
5. This will add the virtual machine to your VMware Player.
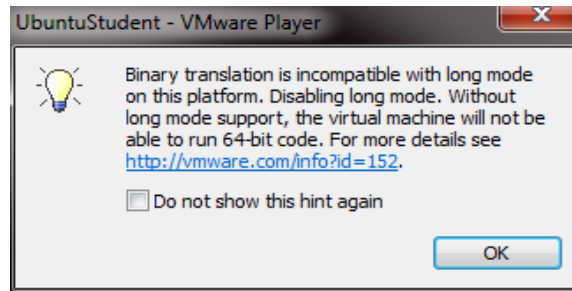   You should now see something like:

6. Select/highlight UbuntuStudent on the left side and
   Press the green play button
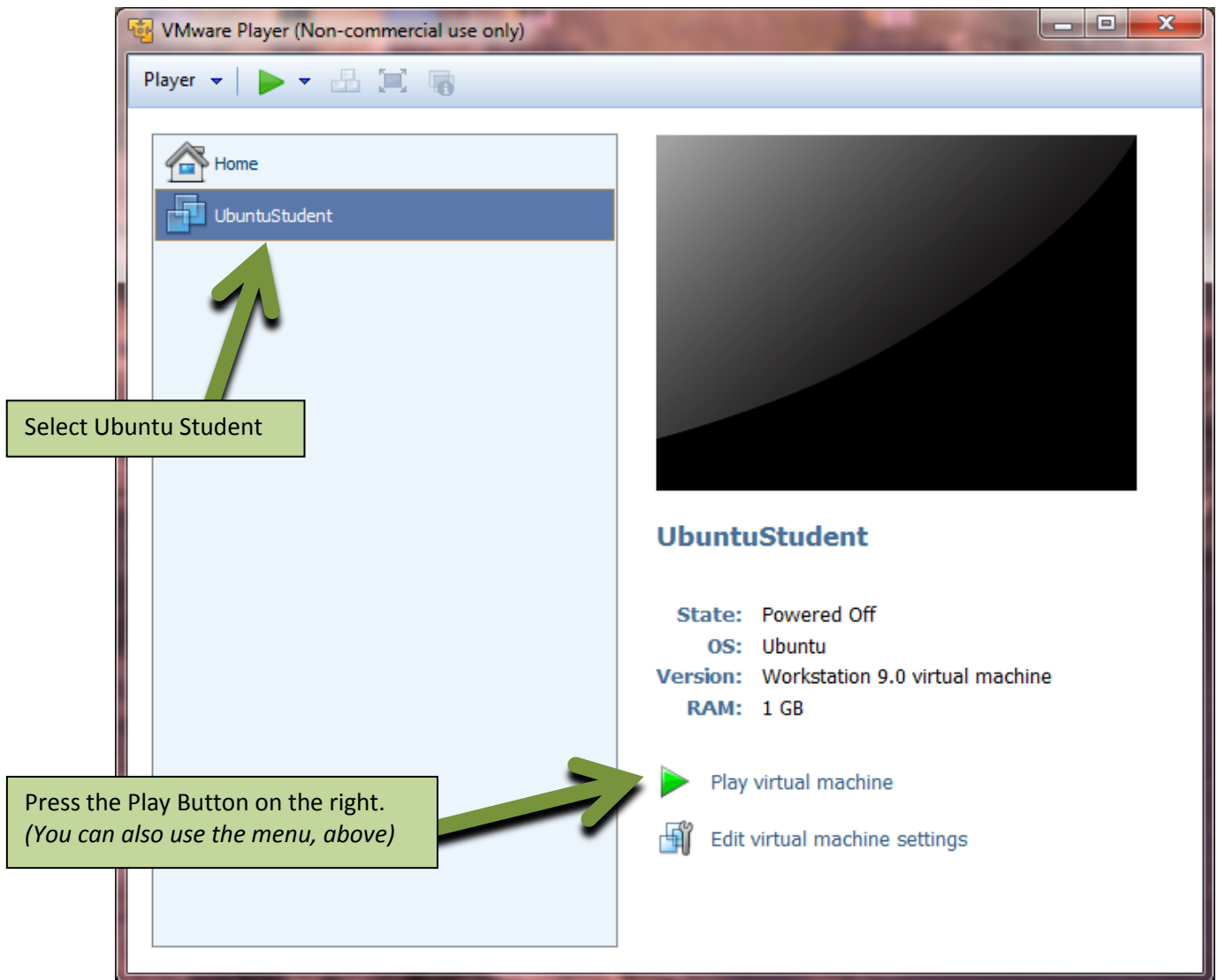
7. You may or may not see notifications such as:
    Just press OK.

This is okay. Just press the OK button.

8. The first time you run (press the play button) you may see the following:

    Press the **"I copied it"** button
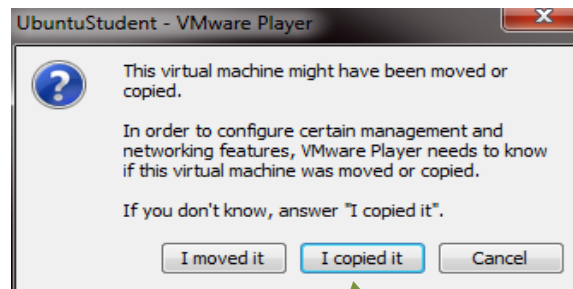
Press the **I copied it** button

9. You may, or may not, also see more notifications like the following. Just press OK.

Removable Devices

The following devices can be connected to this virtual machine using the status bar or choosing VM > Removable Devices:

Microdia Laptop_Integrated_Webcam_2M

Each device can be connected either to the host or to one virtual machine at a time.

☐ Do not show this hint again

OK
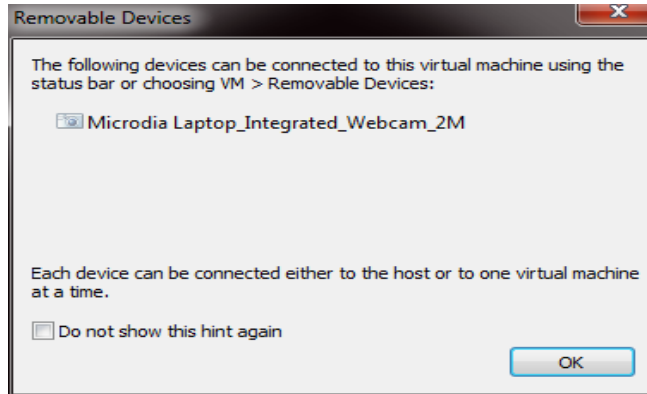
This is okay. Press the OK button.

10. If all is well, you will eventually see something like:
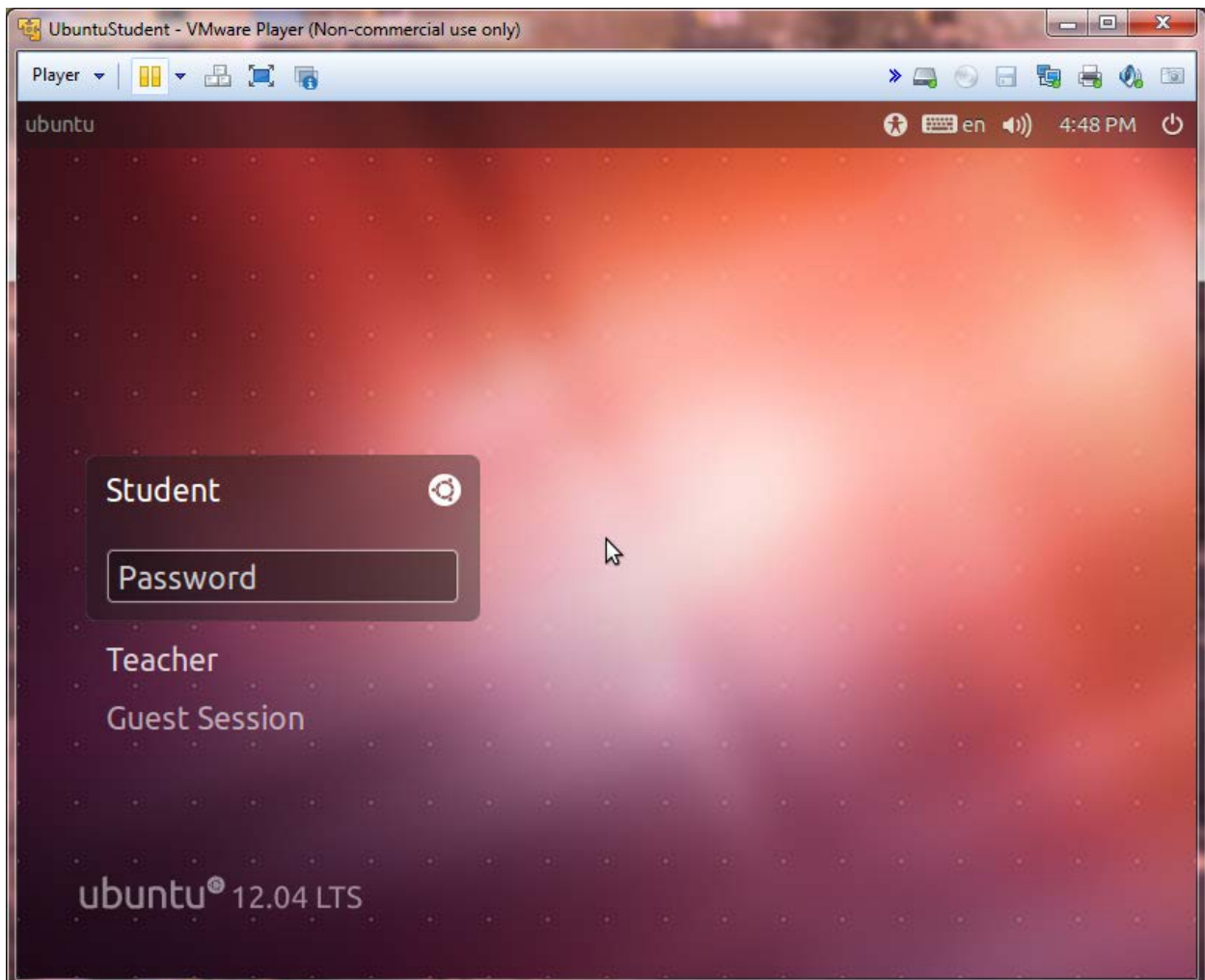
11. The password for student is: **passCS244**

12. The teacher account is there just in case something goes wrong with the Student account.

13. Login as the Student using the above password and you should see something like:

14. On the left side you will see a variety of programs have already been installed.

15. One that might be useful to this class is Geany.
    Its tile looks like a teapot.
    If you click on it you will see something like:
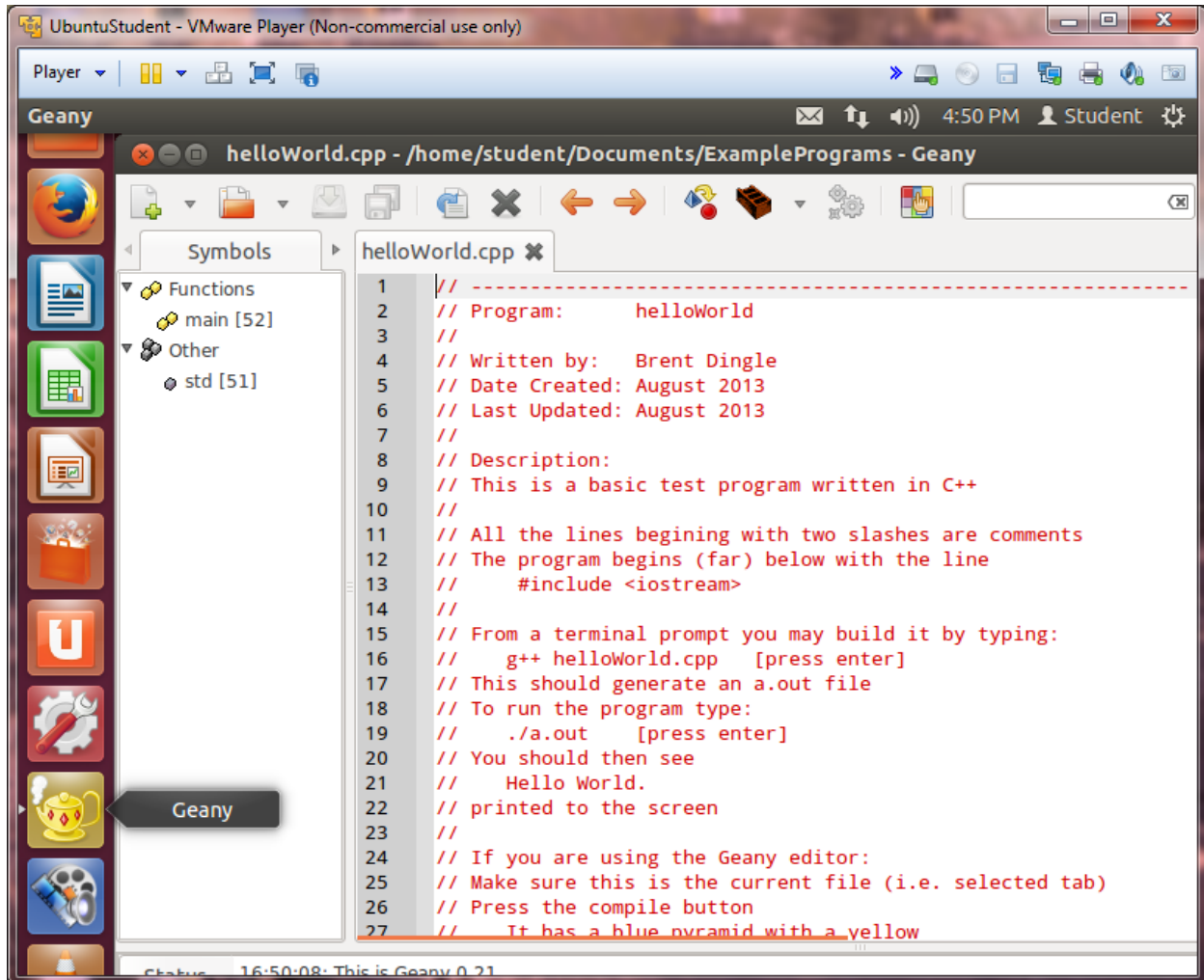
16. This is one of many Integrated Development Environments you may find useful for this class.
    It is already linked to the C++ compiler (GNU's g++).
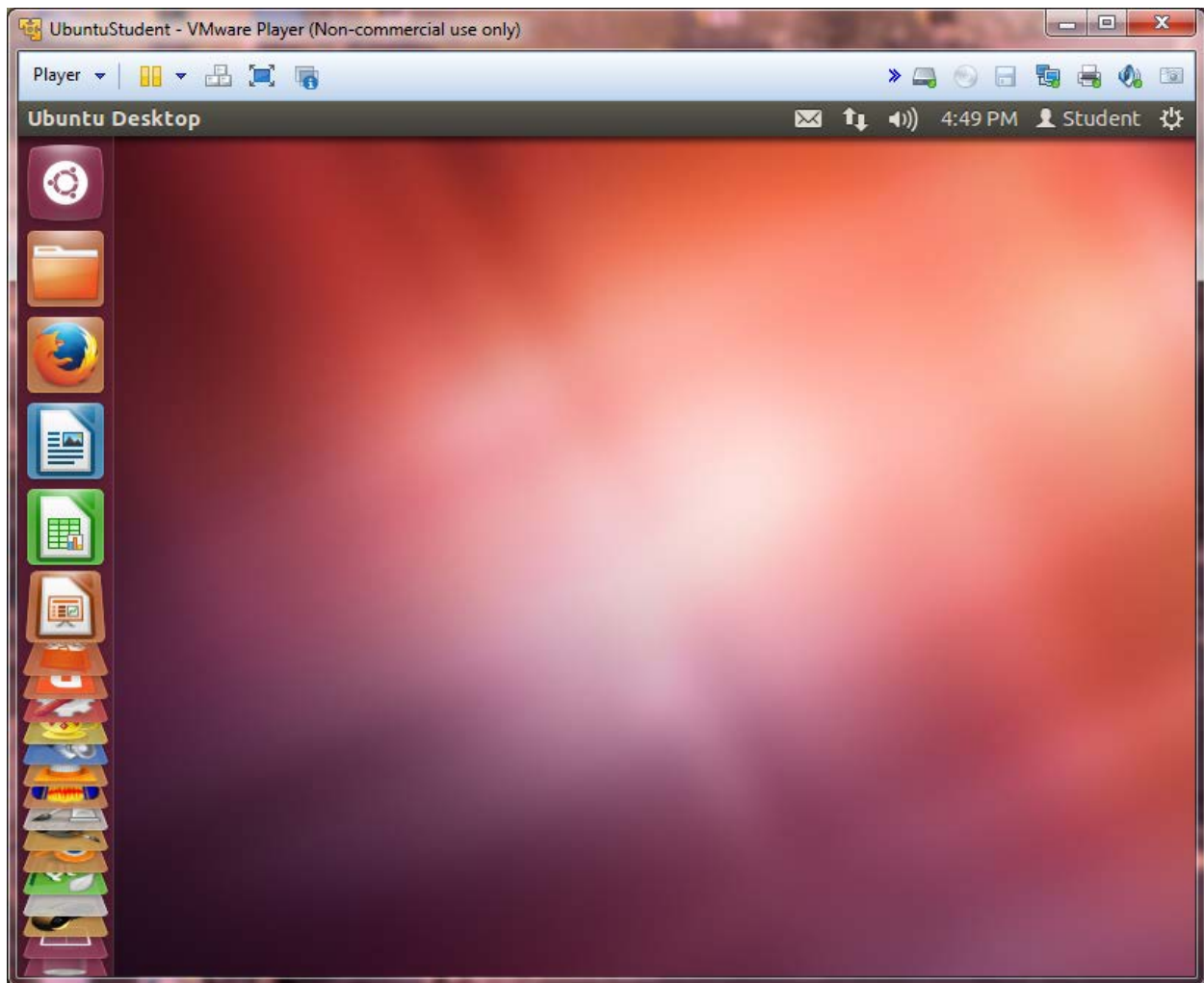   So you may compile, build, and test run your programs using this IDE.
    It *seems* to support copy/paste between itself and programs running in windows.

17. You do NOT have to use this IDE, you may use any like. Instructor support will vary.

18. You may also opt to NOT use any IDE and instead open a terminal window and use editors such as *vi* and then type the compile/build commands by hand.

19. HOWEVER, read the assignments carefully. They may specifically state your programs be able to be compiled, built and run in specific ways (usually to facilitate grading).

20. You may log out, or turn off the virtual machine by clicking the upper right power symbol. Be sure you save everything before logging off or shutting down.

Press here to logout or turn off the machine.

Suggest turning it off when not in use.
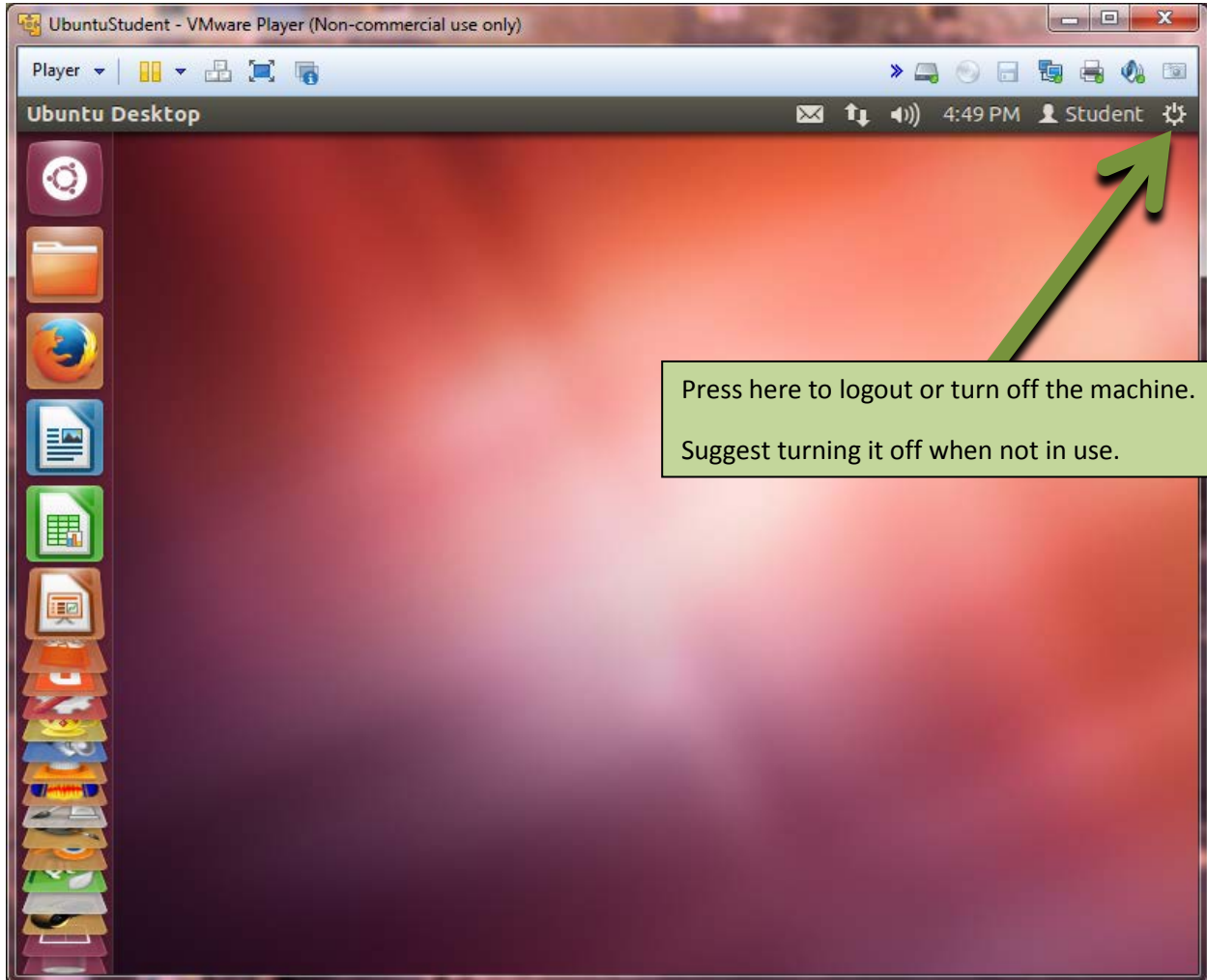
21. Firefox is the default web browser in Ubuntu Linux.
    When you first go somewhere using it (like www.uwstout.edu)
    the university's network may require you to "register your machine."
    This should have happened the first time you opened a web browser in windows also.
    For it to actually work, it may require you to be physically connected to the network.
    (i.e. Ethernet cable plugged into the wall)

Firefox is the default web browser in Ubuntu Linux.
It may take you automatically to a university webpage to register your machine (in this case the UbuntuStudent Virtual Machine). This may seem strange but is ok.
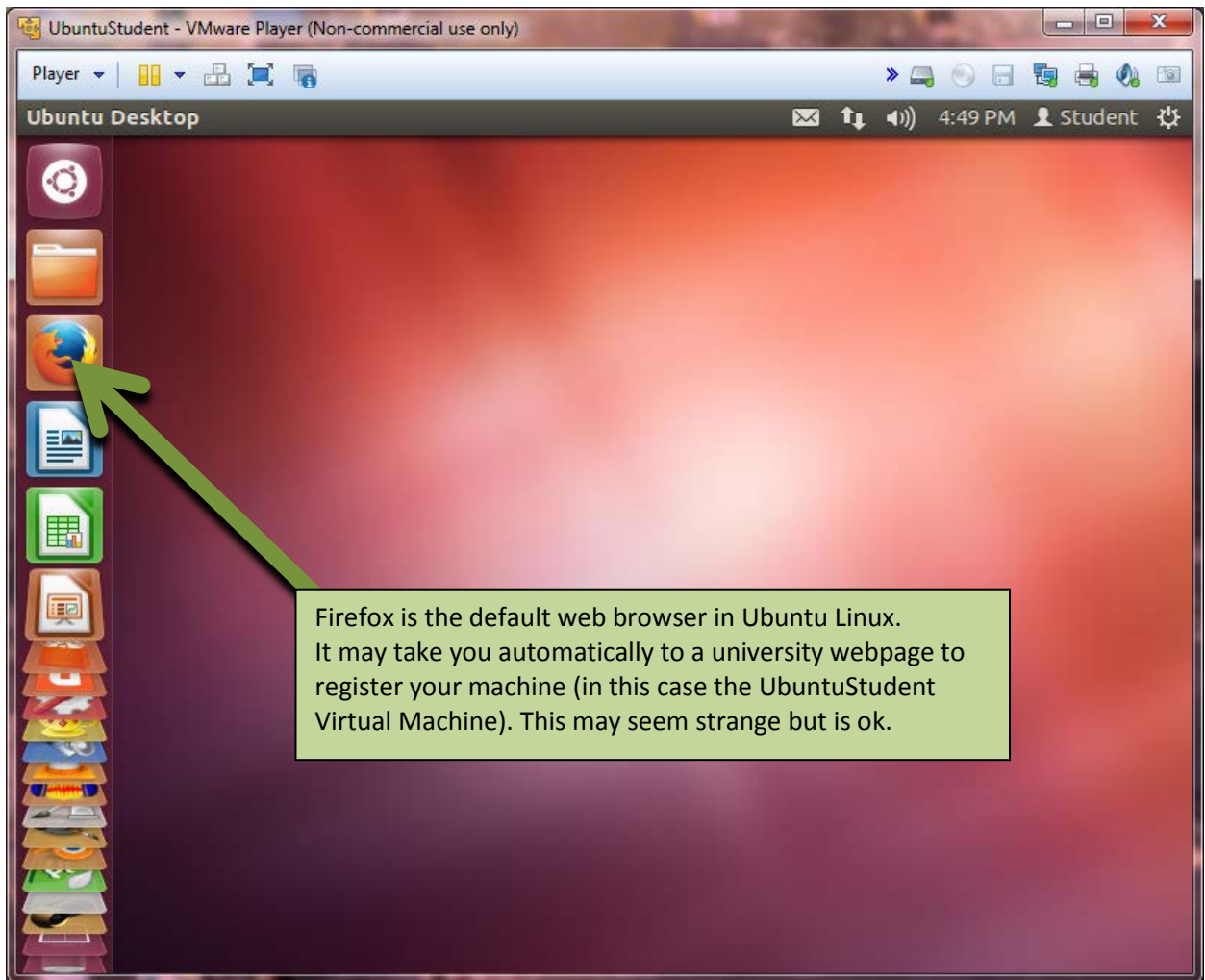
22. You may also want to maximize the screen to cover up everything in Windows.
    Press the expand screen button near the top left-ish part of the window.
    Once expanded, you may reverse this (shrink the screen back to a window) by pressing a similar button you will see near the top of the fully expanded screen.
    If you toggle between expanded and windowed and expanded and windowed and…
    Things may get a little messed up.
    This can usually be fixed by logging off the virtual machine, or shutting it down.
    Be sure to save everything before logging off or shutting down.

Press the "expand screen" button to maximize this window to take up your entire screen space.

This is like the "full screen" option in video games, or online videos.
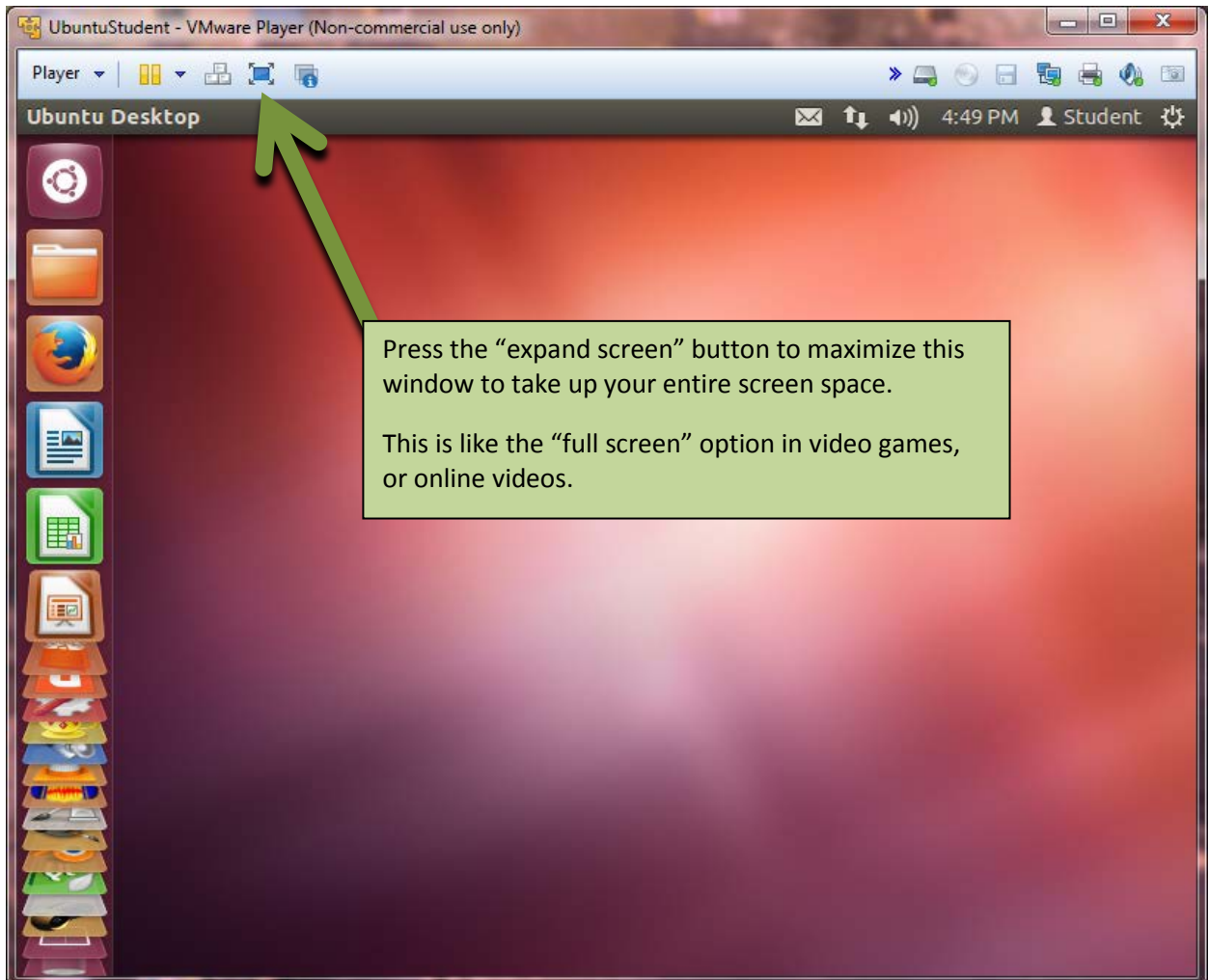
Other Items

IMPORTANT:

You may potentially create **a large number of programs and files** while logged into the **Ubuntu Linux Virtual Machine**.

These files are stored "inside" the virtual machine.

Windows will NOT be able to see them.

If the virtual machine becomes corrupted, deleted, or you change/lose/forget your password(s) to the virtual machine account(s) you will likely lose all those files.

There are several ways to minimize the risk of this loss occurring.

Because you will have internet access while logged into the virtual machine,
you may, among other things, email important files to yourself.

Another option is:
It seems some of the editors when running in the virtual machine WILL ALLOW you to select all, copy, and then paste them into a program running on Windows.
Example:
     In Ubuntu Linux (running as a window in Windows)
          Run Geany
          Open or create a file
          Select all (CTRL-A)
          Copy the selection (CTRL-C)
     In Windows
          Run Wordpad (or Notepad or Word)
          Create a new document
          Paste (CTRL-V)

Note: This copy-paste is slow and tedious. Likely best reserved as a final effort. It may not work with all editors. It may only work sometimes. So test it out for small cases before depending on it to work.

In similar fashion, the Ubuntu Linux Virtual Machine CANNOT see files saved by Windows programs.

So do not try to write your program using a program running in windows and then try to compile the files in Ubuntu Linux, you will not be able to find them.

However, you might be able to reverse the above steps to move files from Windows to Ubuntu.
(i.e. email them to yourself, then use the browser in Ubuntu to check your email, then download them to someplace in Ubuntu Linux, OR open the file in a Windows editor and try to paste it into an editor that is running in Ubuntu Linux)

Trouble Shooting

If Firefox does not seem to open/go anywhere you may not have a network connection.

This may be outdated…

First thing to try:
> On the VMware Player screen click the Devices menu at the top.
> Select Network Adapter and then NAT.

Second thing to try:
> Also go to Ubuntu (login as Student)
> Find the networking icon (two computers),
> > Or the icon for signal strength/radio signal bars, on the top bar near the far right.
> Double click it.
> If available select "Auto eth2" or   "Auto eth3"
> This should find the internet connection.