# Installing VMware Player to Run Ubuntu Linux on a Windows Machine
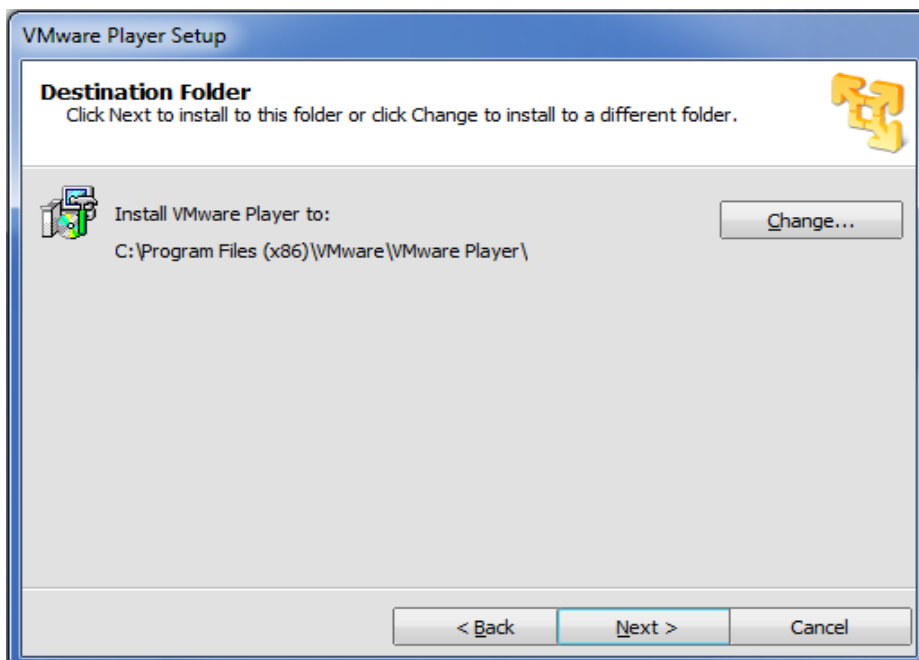
Check that you are connected to the internet before beginning (open Internet Explorer or Firefox or similar).
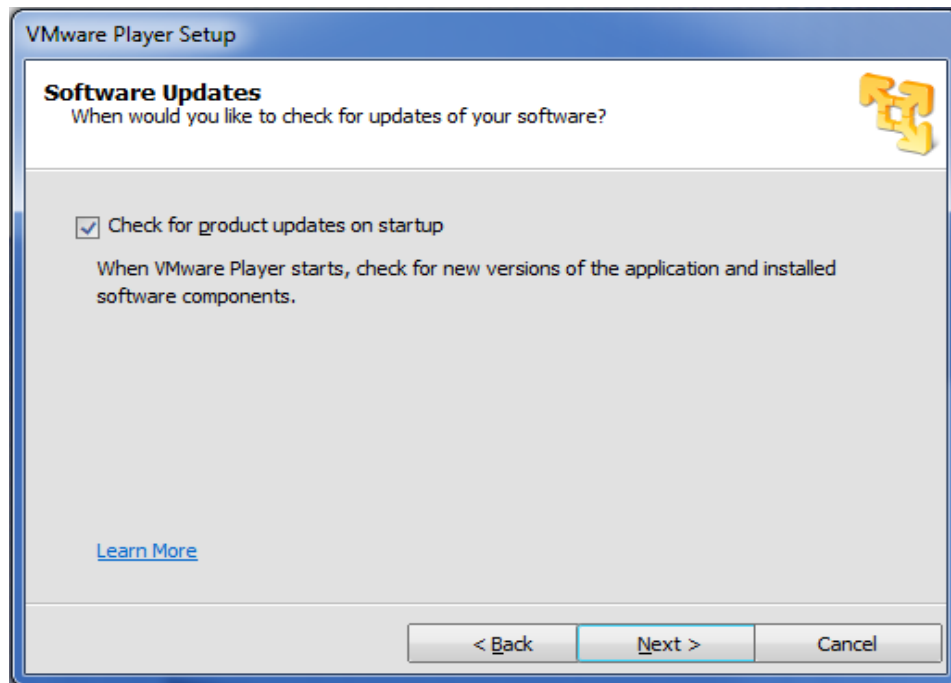
Installing VMware Player

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/

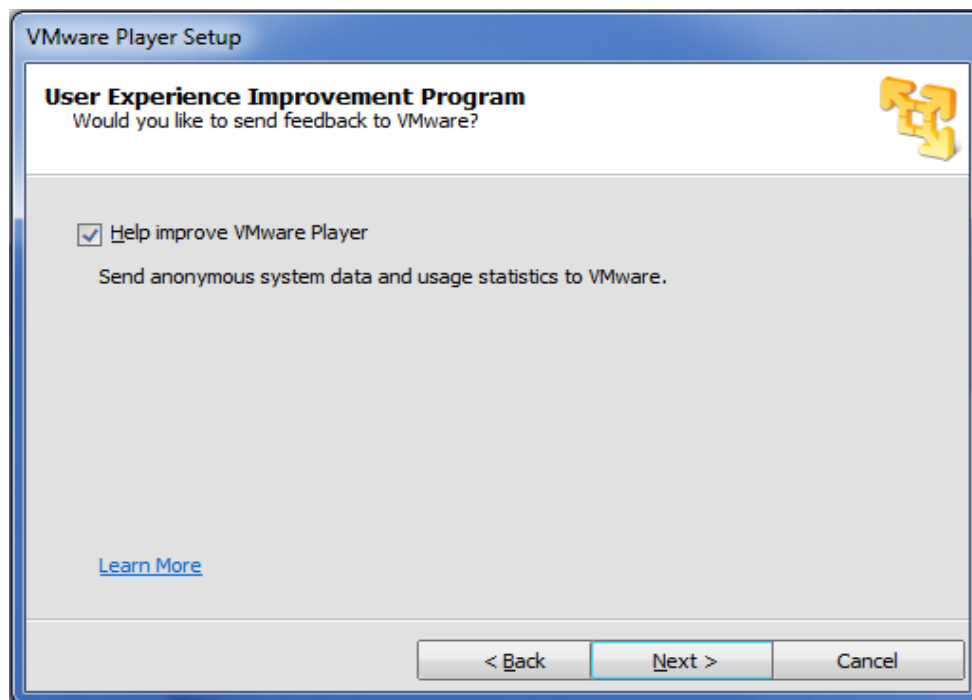2. Run the setup file (VMware-player-5.0.2-1031769.exe). Allow it to make changes to your computer if asked.
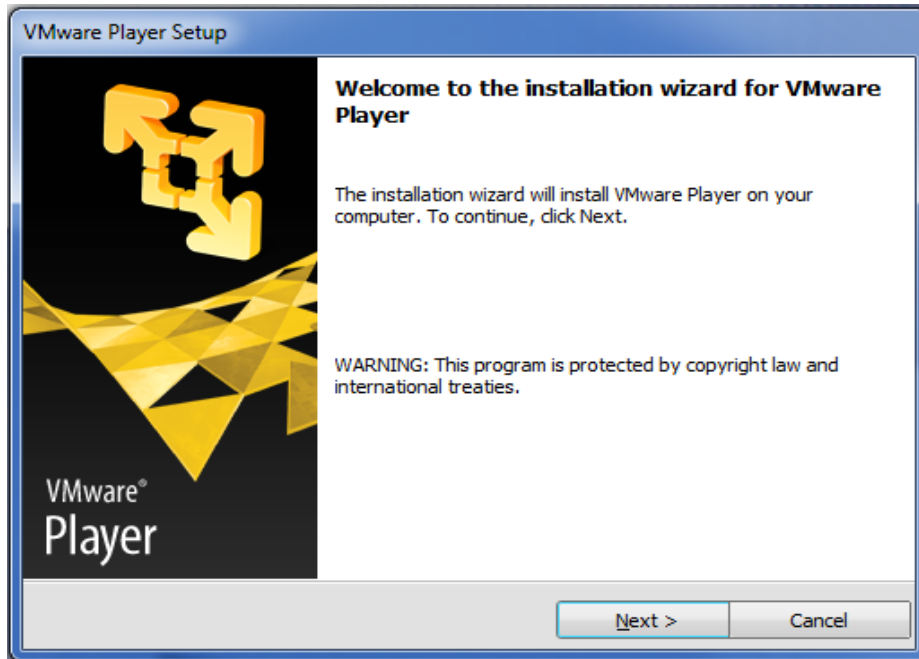
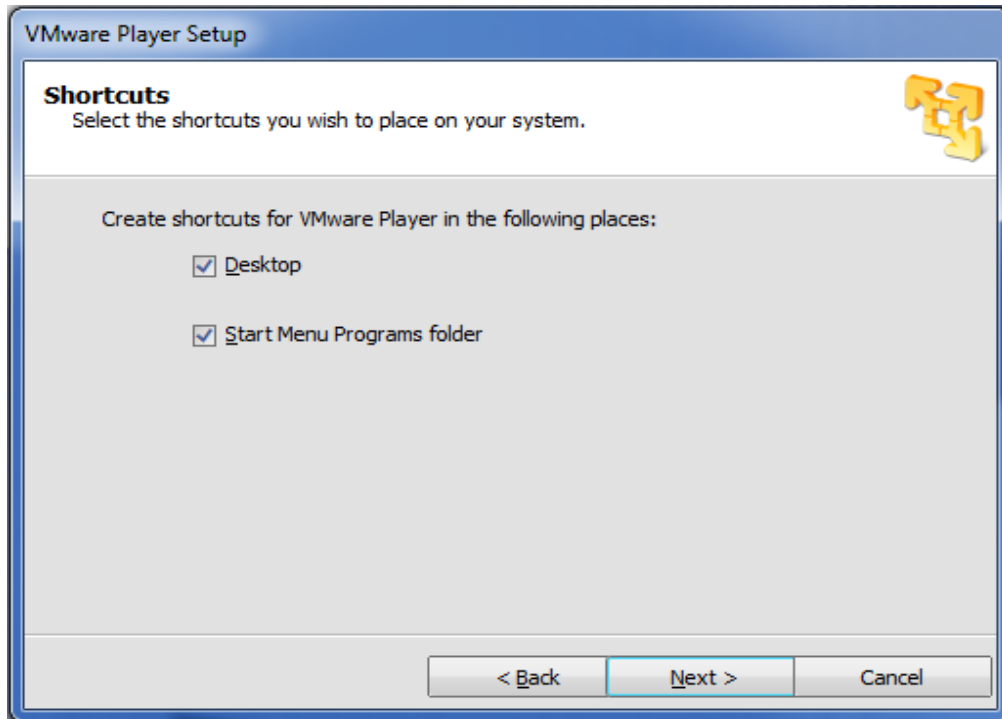3. Follow the instructions given (allow drivers to be installed if asked).
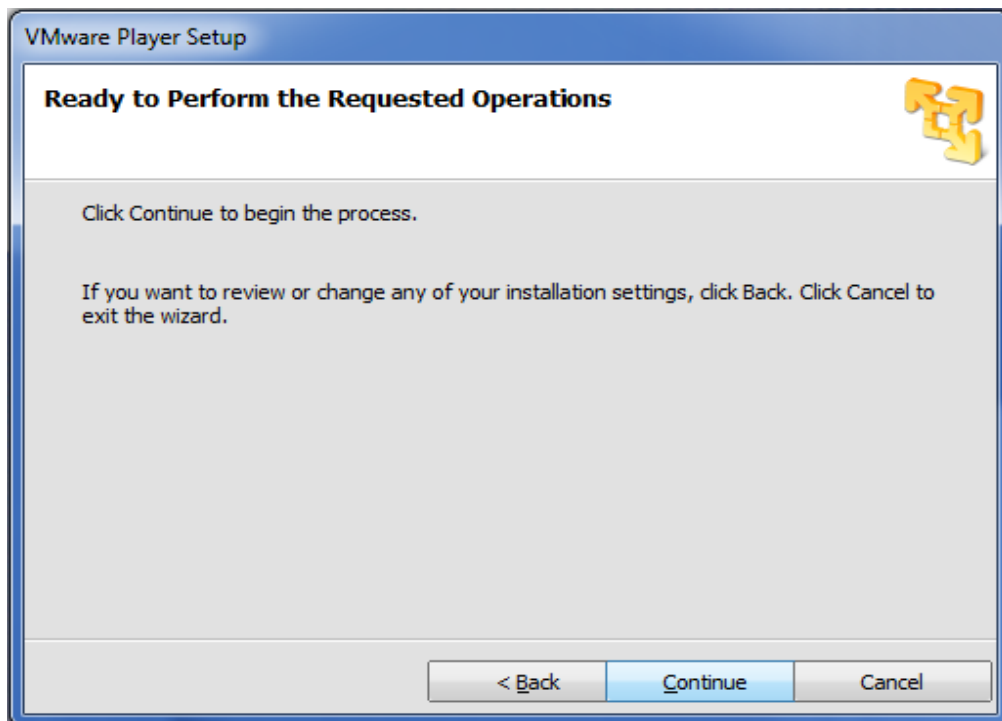
4. Continue following the instructions

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

5. And continue

VMware Player Setup

User Experience Improvement Program
Would you like to send feedback to VMware?

☑ Help improve VMware Player

Send anonymous system data and usage statistics to VMware.
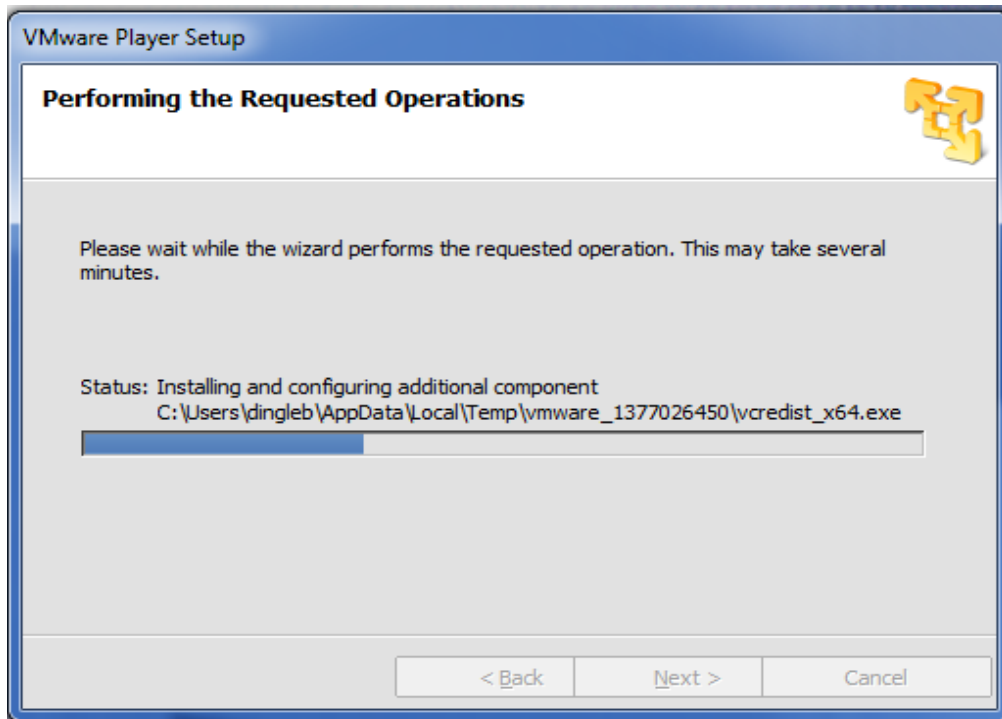
Learn More

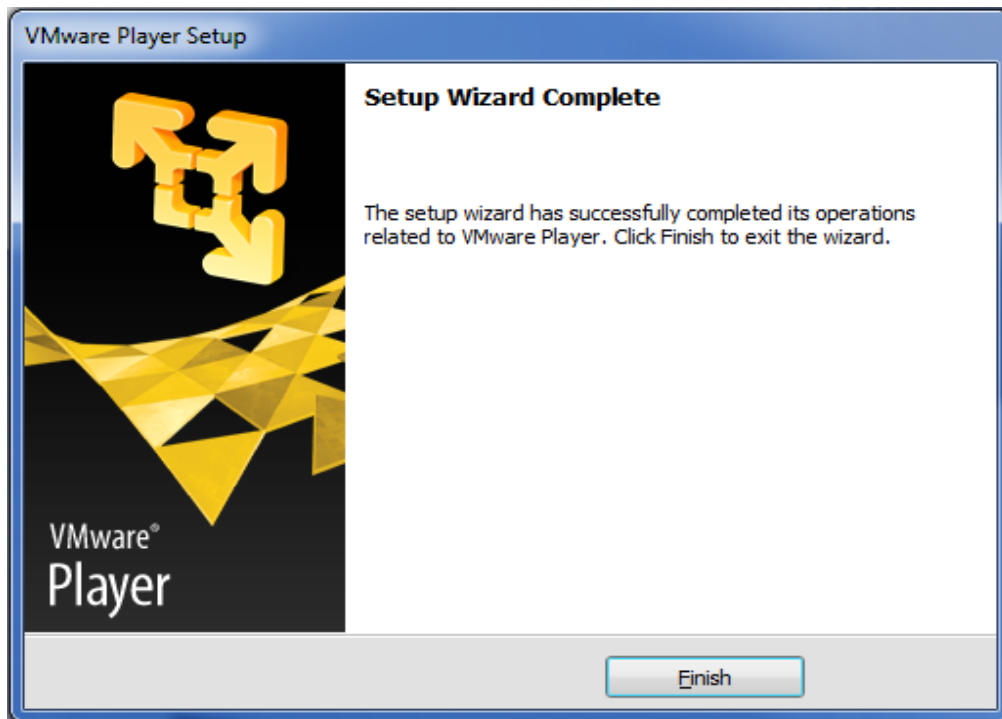< Back | Next > | Cancel

6. Keep going

7. Continue

8. Continue

9. Keep Going

10. And now to Ubuntu Linux…

Install Ubuntu – with all the power to you

Here there are several ways you can go. At this point YOU become responsible for remembering things.
So **pay attention**. In the steps below, you will need:

    A.   The Ubuntu ISO file, **ubuntu-12.04.2-desktop-i386.iso**
         from the provided media or
         download from: http://www.ubuntu.com/download/desktop (version 12.04 LTS, 32-bit)
    B.   A user name – I suggest using your first name.
    C.   Yet another password. Make it simple – like *passCS244*

Be certain you have an internet connection before continuing! Open Internet Explorer, Firefox or similar.

1. Open VMware Player (it may pause briefly as it starts) and choose "Create a New Virtual Machine
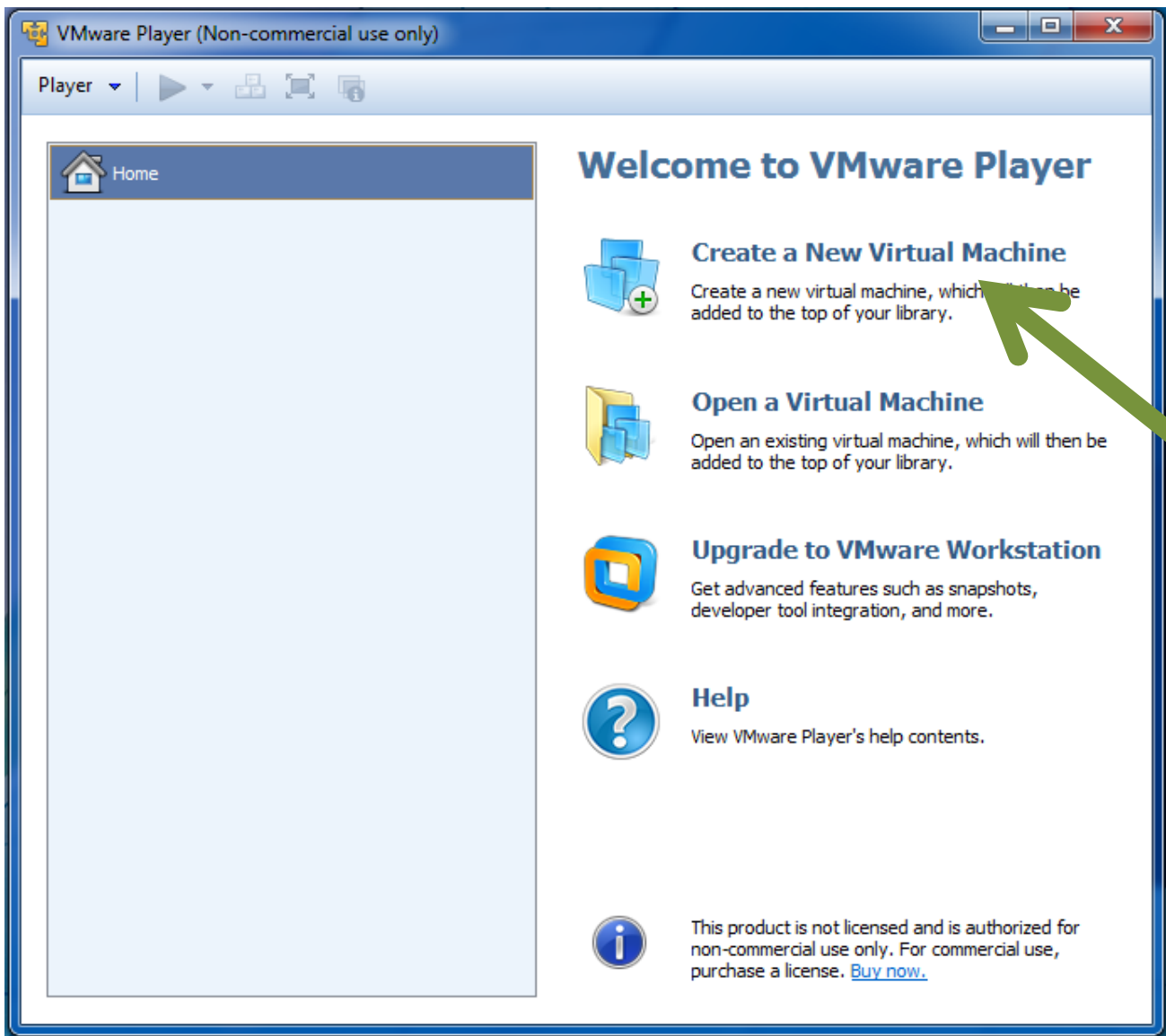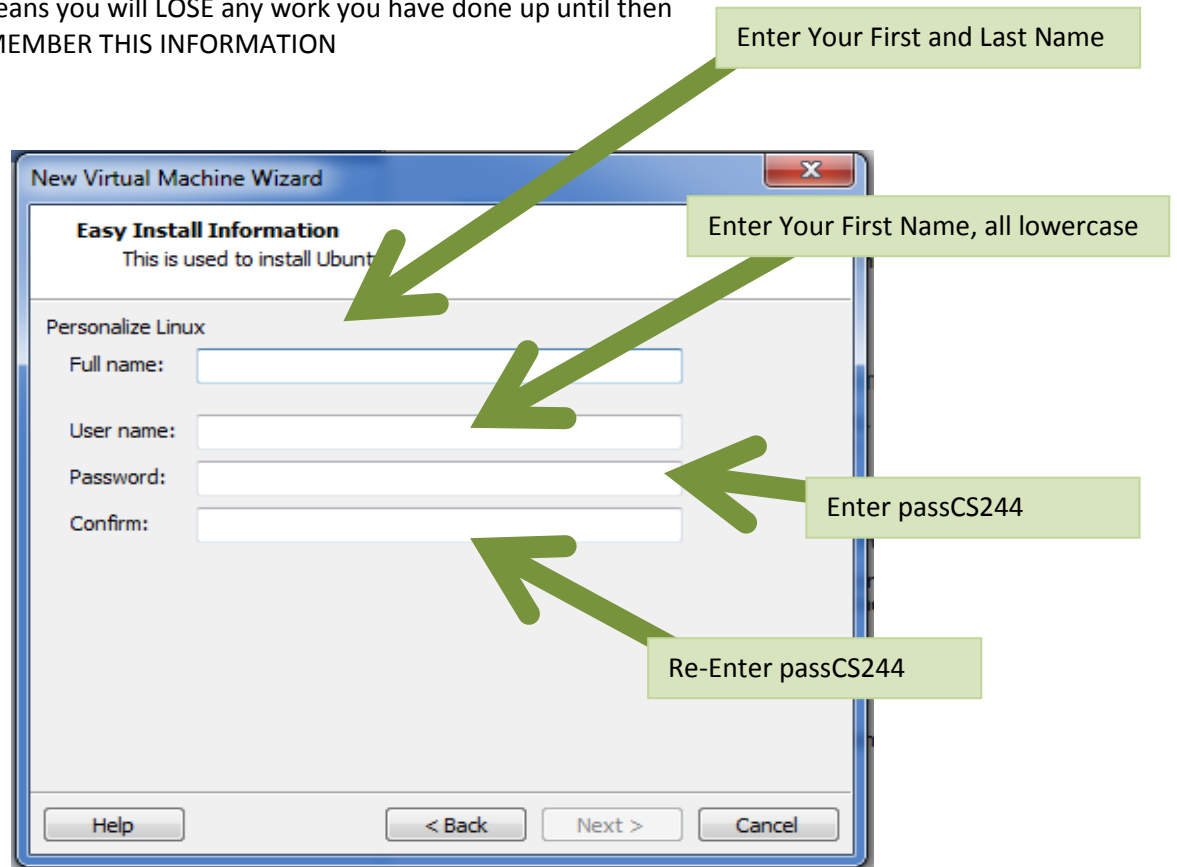
2. You will be installing Ubuntu directly from the ISO file (**ubuntu-12.04.2-desktop-i386.iso**)
   So click the second option and browse to that file
   Once you have selected the file, VMware Player will automatically detect Ubuntu and will show that it will be installed with "Easy Install"
   After selecting the ISO file click Next
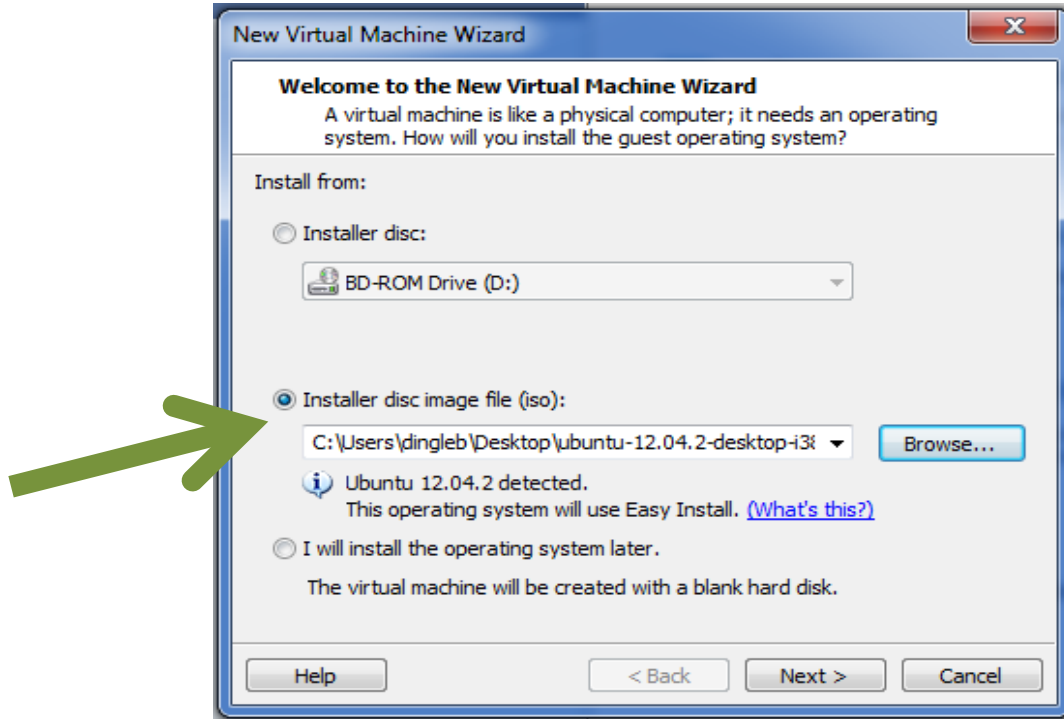
3. Next you will be prompted for:
   a. Full Name – so **Enter Your First and Last Name**
   b. User Name –I suggest using your first name –so **Enter Your First name (all lowercase)**
   c. Password – I suggest something easy – so **Enter passCS244**
   d. Confirmation of the password – so **Re-Enter passCS244** or your own chosen password

   NOTE: YOU MUST REMEMBER THIS INFORMATION
   If you forget it, you will likely end up needing to re-install Ubuntu
   This means you will LOSE any work you have done up until then
   So REMEMBER THIS INFORMATION

Enter Your First and Last Name

Enter Your First Name, all lowercase

New Virtual Machine Wizard

Easy Install Information
This is used to install Ubunt

Personalize Linux

Full name:

User name:

Password:

Enter passCS244

Confirm:

Re-Enter passCS244

Help   < Back   Next >   Cancel

Note the User Name must be all lowercase letters and numbers 0 to 9

Note the Password must be at least 8 characters long

If those criteria are not met then you will see error messages pop up and you will have to choose something different

4. Choose the name for you virtual machine – **Enter Ubuntu**
   And the path to save it – **Leave it as it defaults**

New Virtual Machine Wizard

Name the Virtual Machine
What name would you like to use for this virtual machine?

Virtual machine name:

Ubuntu

Location:

C:\Users\dingleb\Documents\Virtual Machines\Ubuntu   Browse...

< Back   Next >   Cancel
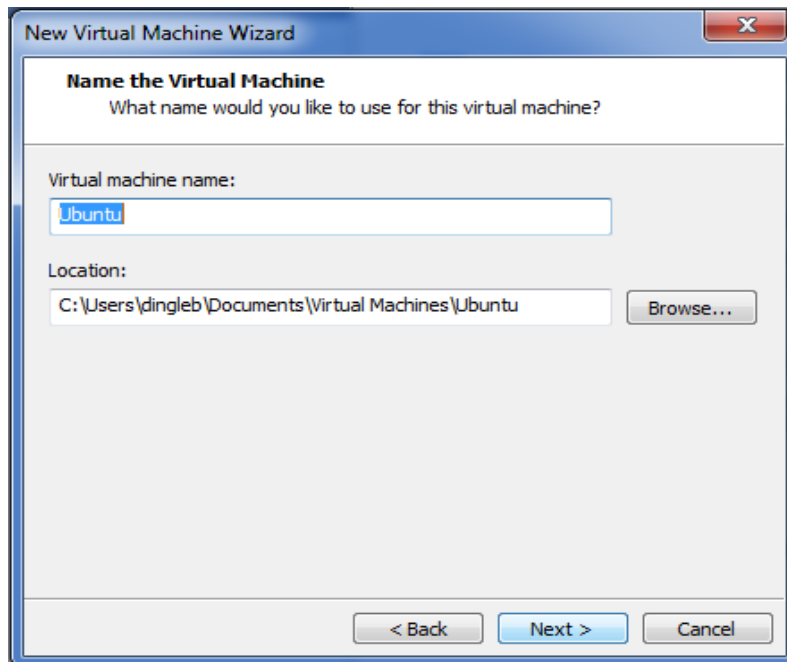
5. You now can choose how much space the Ubuntu virtual machine disk will have available. The default is 20 GB.
   That is probably enough space. You may increase it if you want.
   You also can store the machine's hard disk as one file or multiple. Either option will work.

New Virtual Machine Wizard

Specify Disk Capacity
How large do you want this disk to be?

The virtual machine's hard disk is stored as one or more files on the host computer's physical disk. These file(s) start small and become larger as you add applications, files, and data to your virtual machine.

Maximum disk size (GB):   20.0

Recommended size for Ubuntu: 20 GB

○ Store virtual disk as a single file

● Split virtual disk into multiple files

   Splitting the disk makes it easier to move the virtual machine to another computer but may reduce performance with very large disks.

Help   < Back   Next >   Cancel

6. You now get a chance to review the settings and go back if you want.
   Click Finish when satisfied with the settings.
   Note: If you select the bottom check box, the Ubuntu Virtual Machine will automatically start when the installation completes successfully. It is recommended to leave it checked.
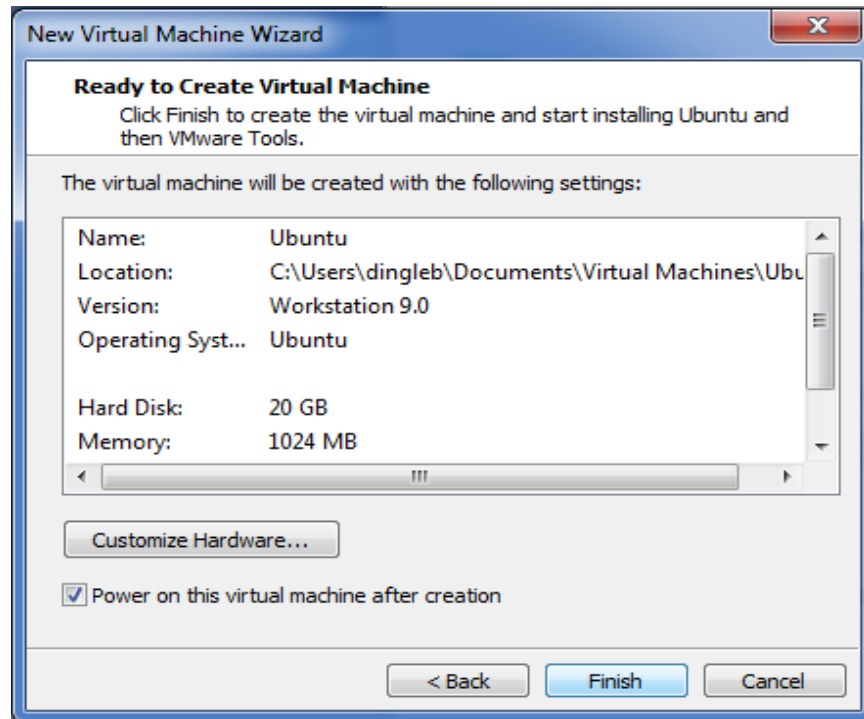
This is where you may need an internet connection active and working.

Various pop ups may occur at this point in time.

Agree to them all.

Some examples of what you may see follow.

The following is OKAY… don't panic if you see it (and don't worry if you don't see it)
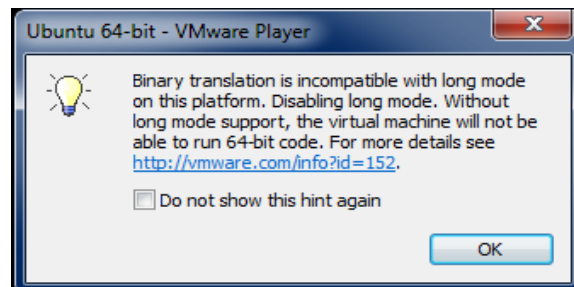
Agree to things such as:
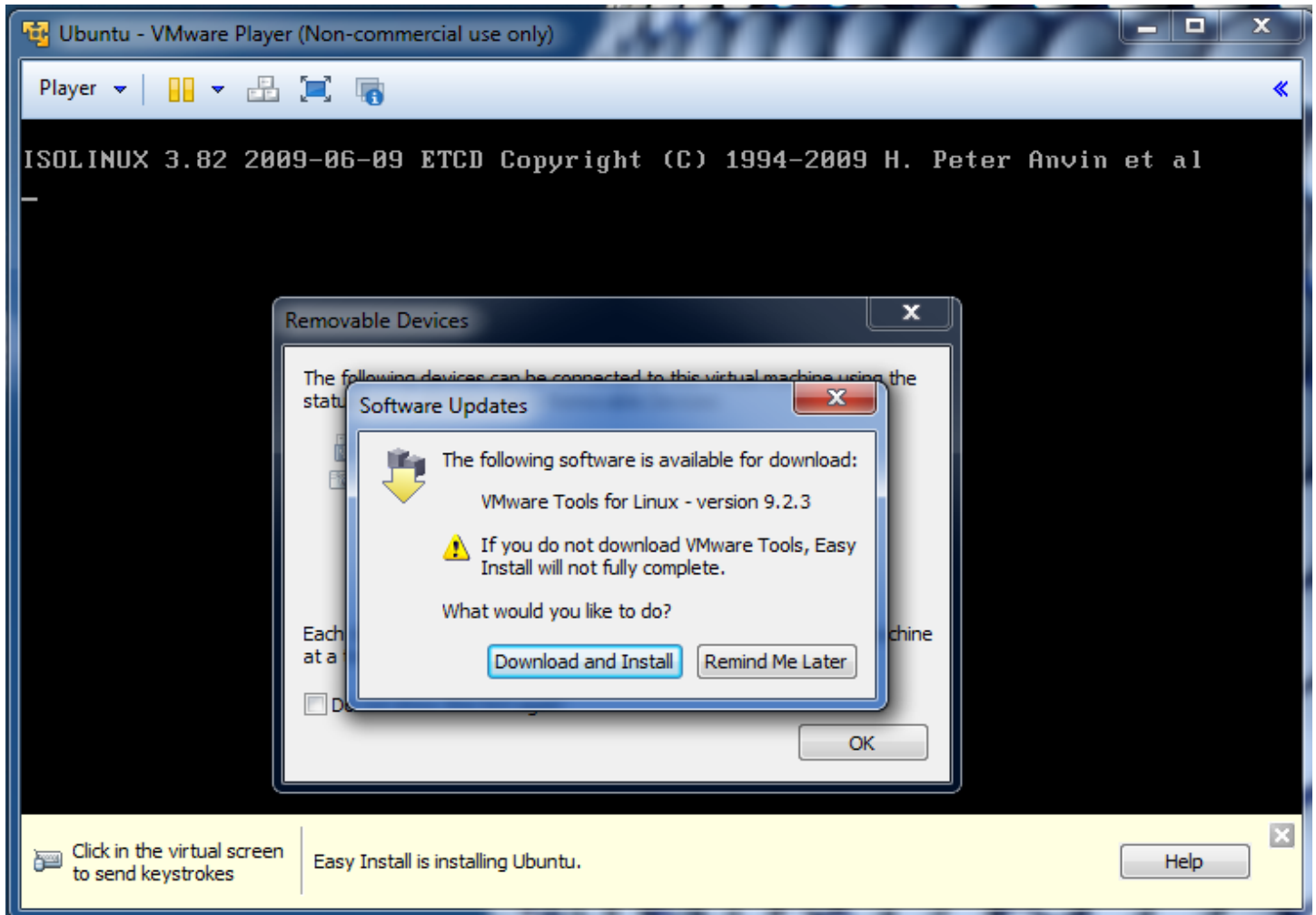
The following is also OKAY if you see it (and okay if you do not):

Notice the big colorful screen in the background…
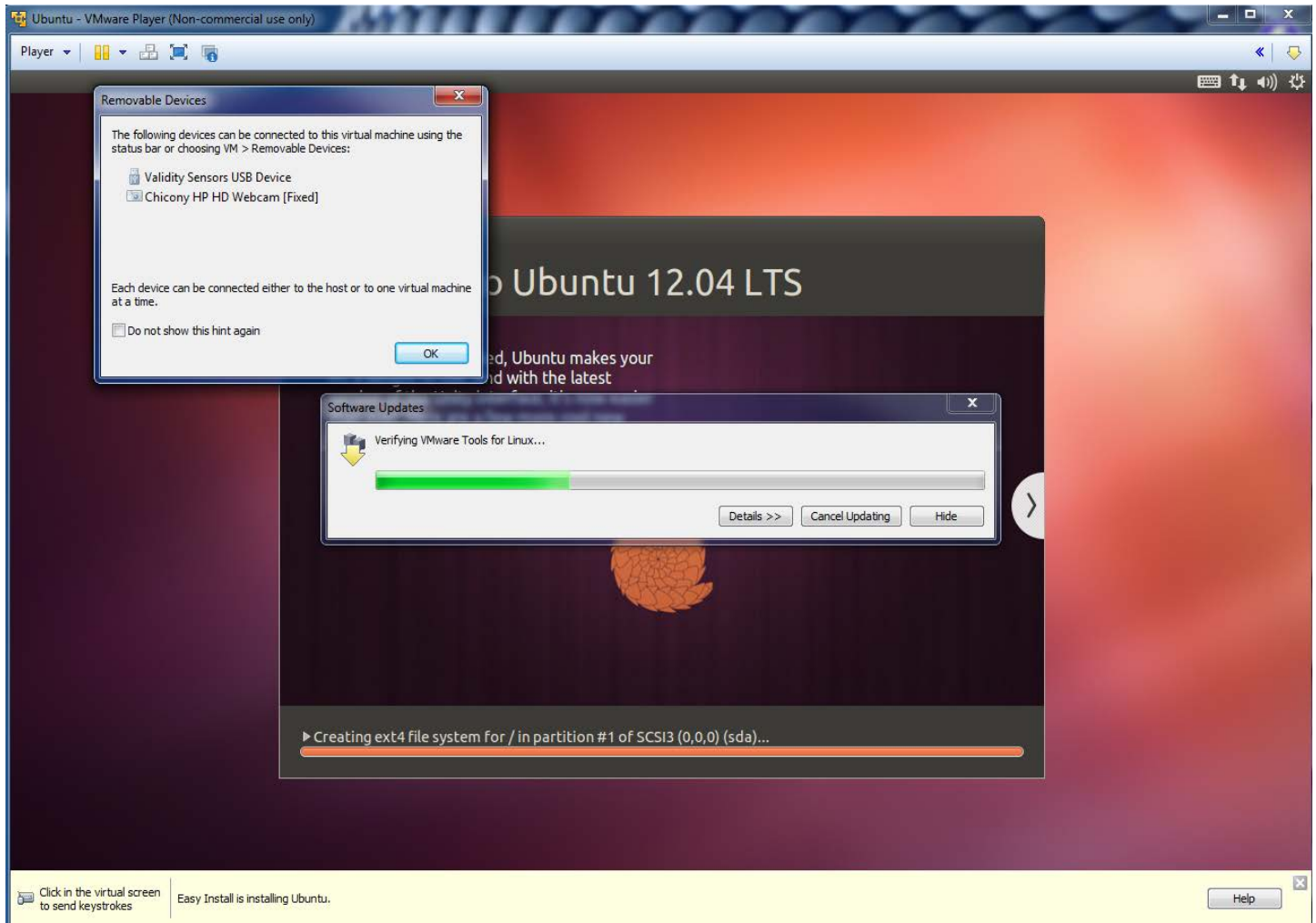
Most of the time you will be looking at something like the following:
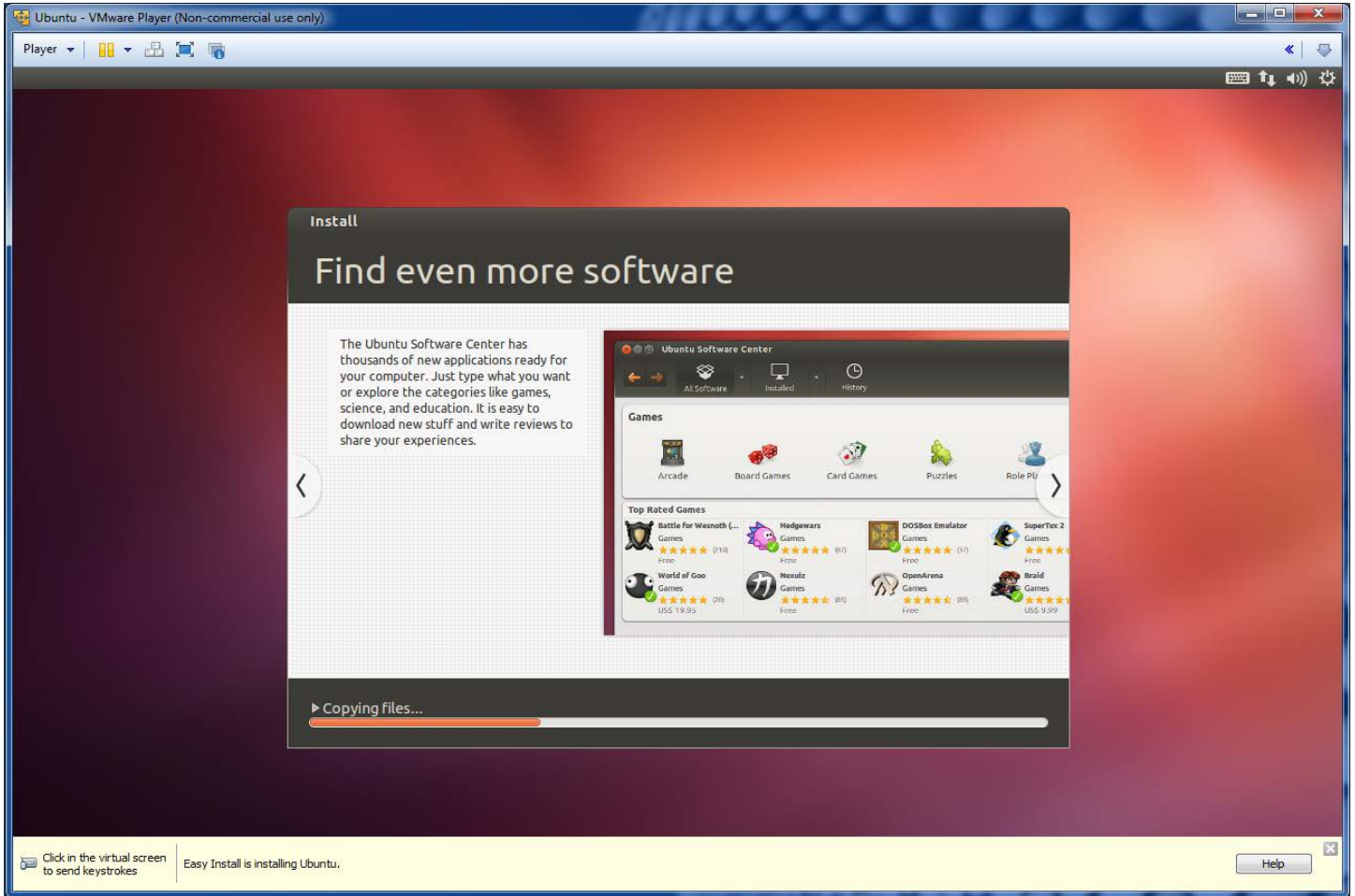
Towards the end you will see something like:
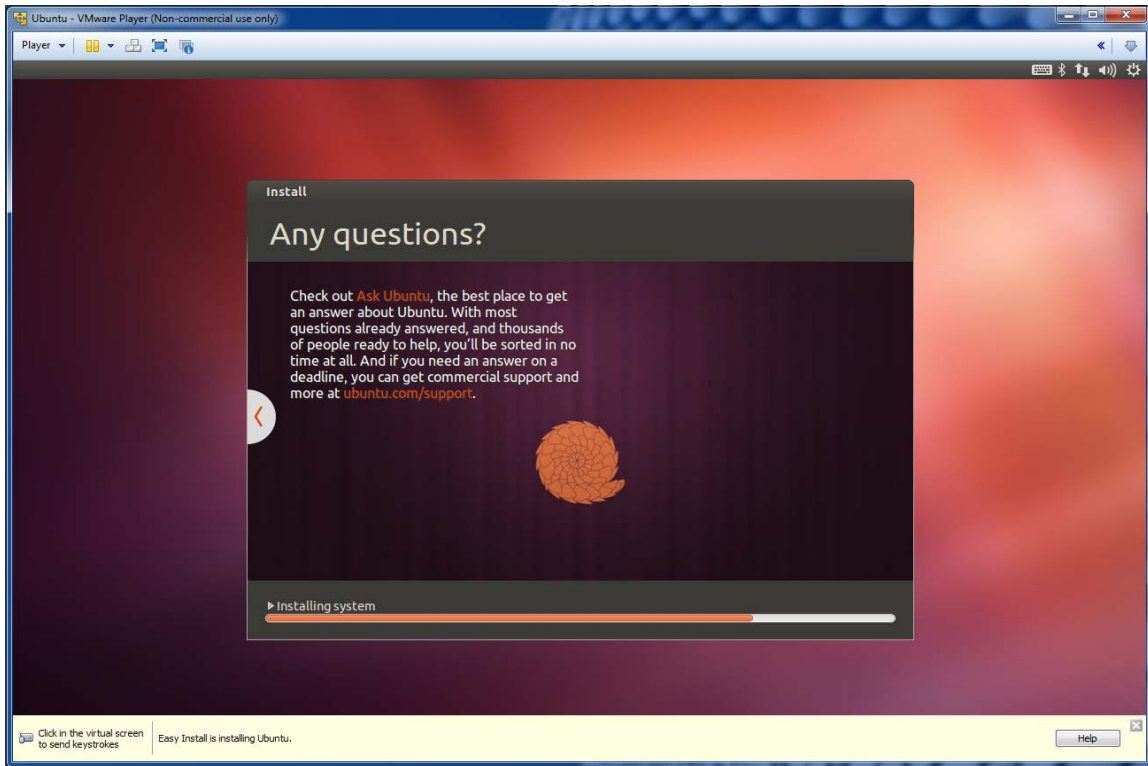
It may then flash several black screens with text like:
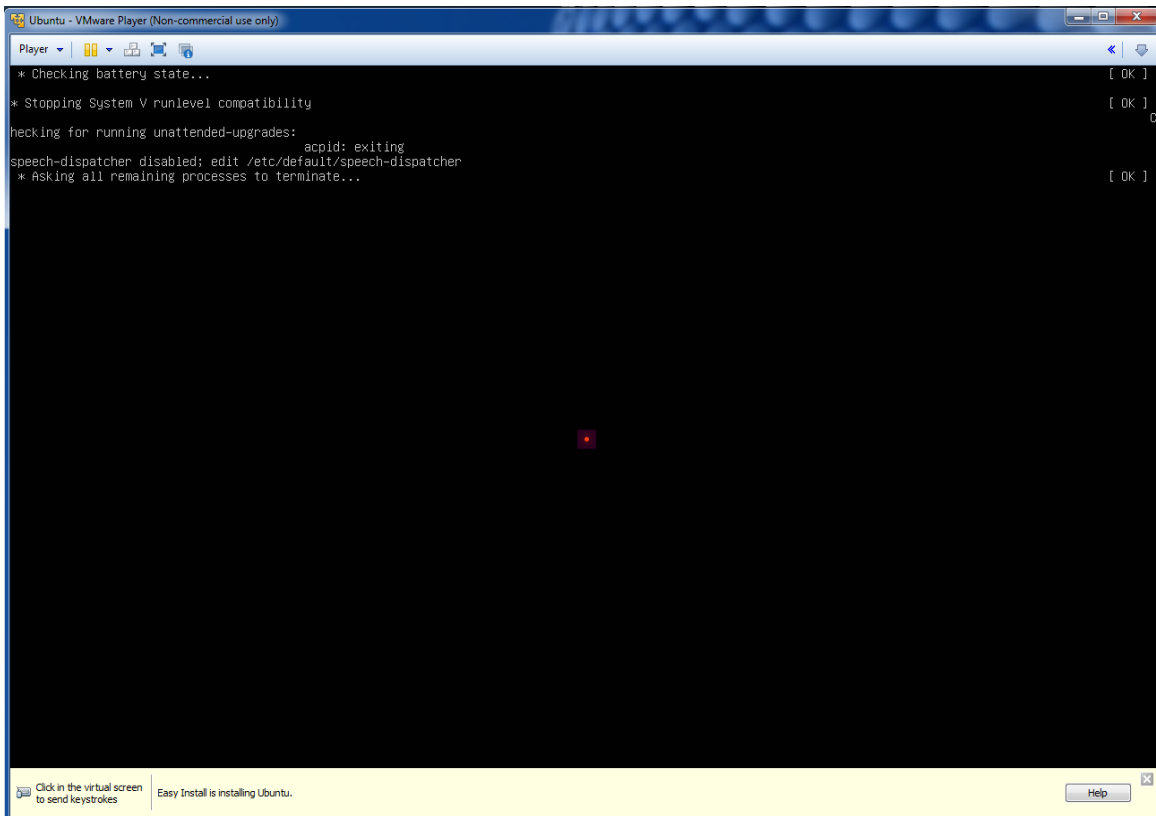
After which you should see a screen similar to:
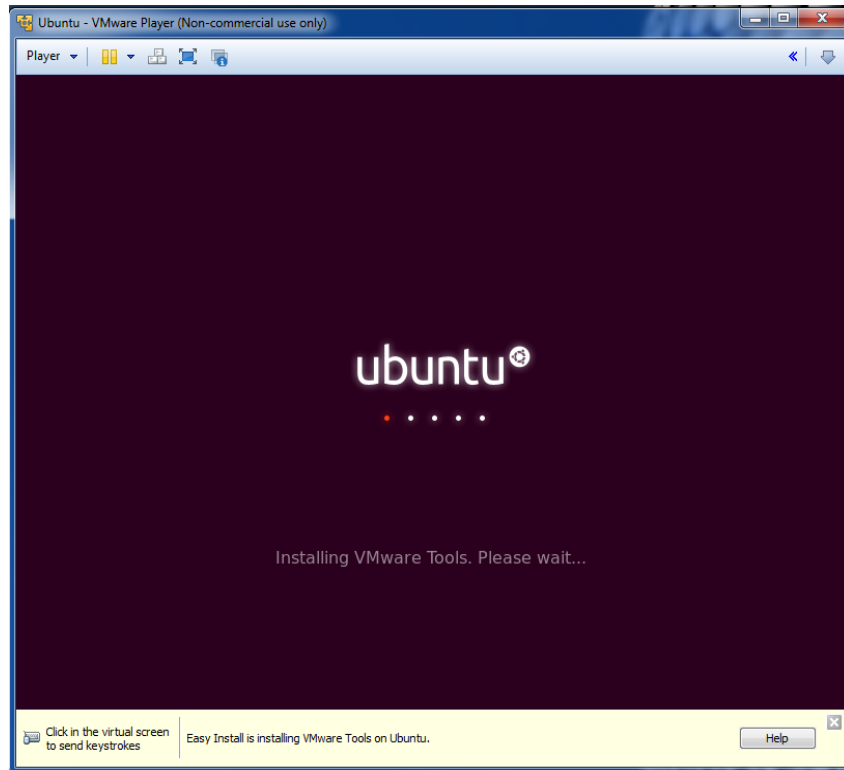
Possibly followed by another black screen that should quickly flash away
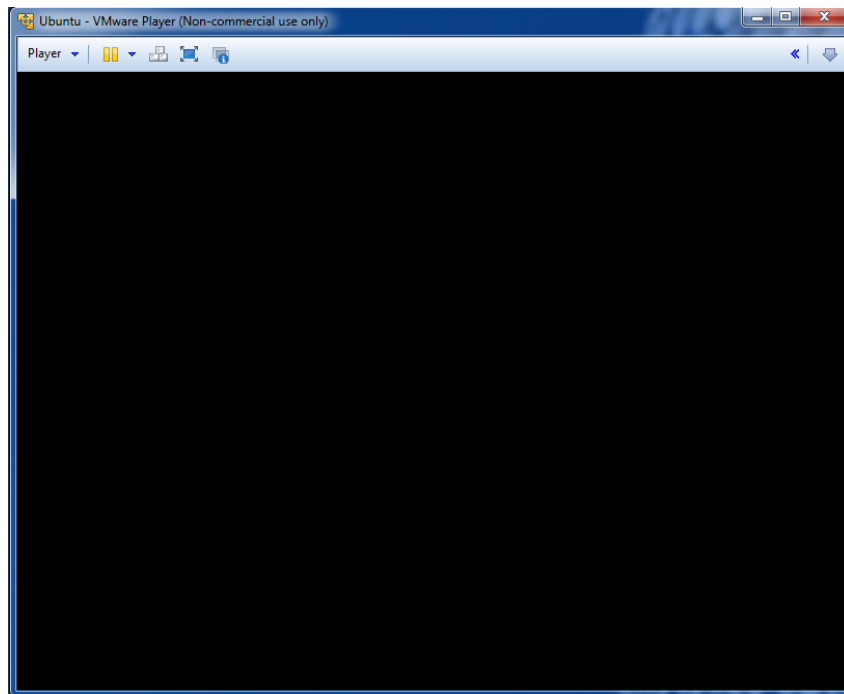
7. And FINALLY you will be able to log into your Ubuntu Virtual Machine
   You are almost done
   You will still need to make sure you actually get a usable C++ compiler out of all this (see farther below)

You should now see a screen similar to the following (but with your first name, not mine)
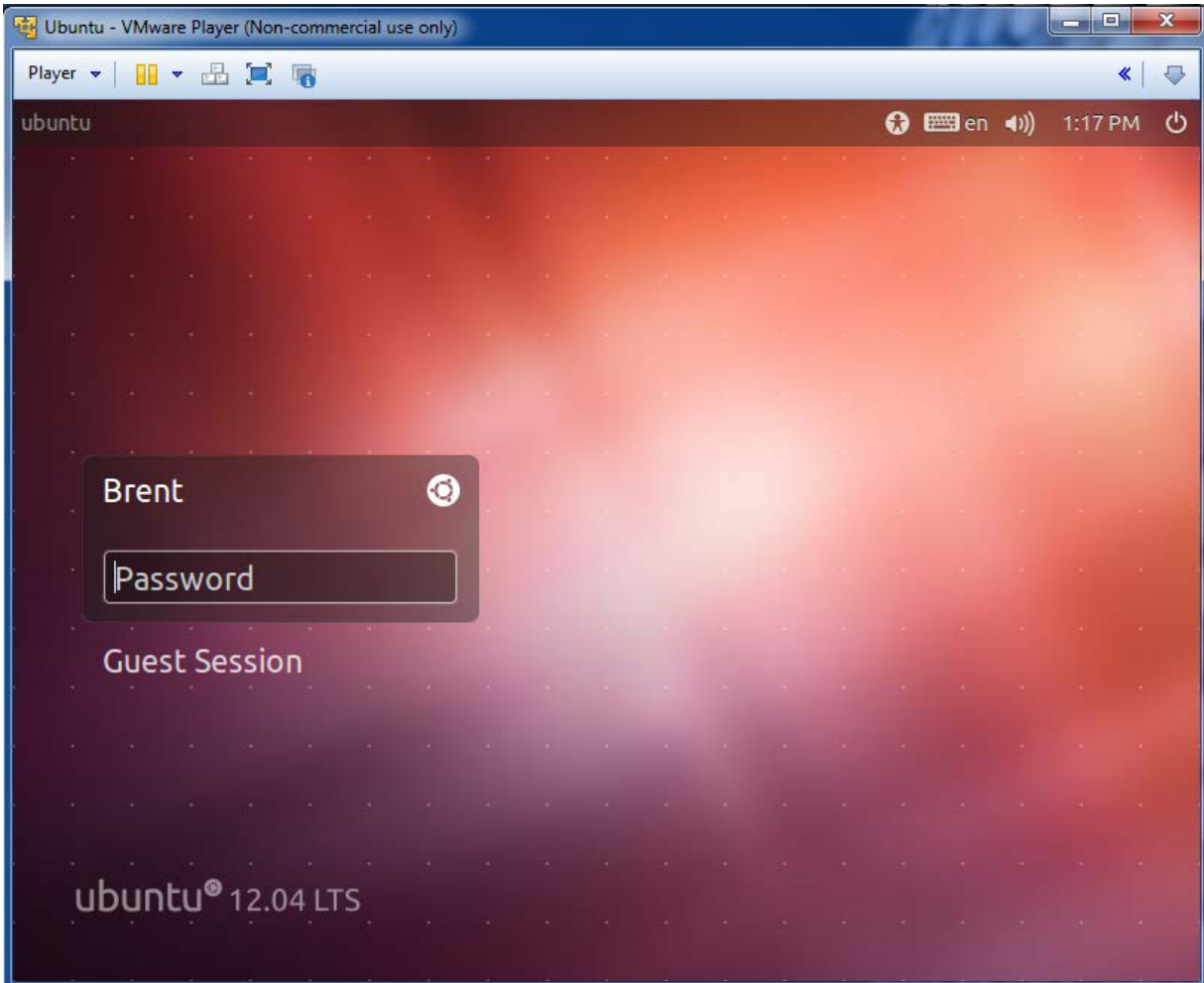
If you would like a second viewpoint on these directions or encounter some oddities, particularly due to lack of internet access… very similar instructions to the above may be found at:

http://www.howtogeek.com/howto/11287/how-to-run-ubuntu-in-windows-7-with-vmware-player/

(last checked August, 2013)

Additionally

You now have an Ubuntu Linux virtual machine.
It *should* already have an internet connection, if it installed properly.

Updating Ubuntu Linux
You will now need to make sure it has all the updates it needs.

A quick (sometimes unreliable) check
to see if updates are needed is to click on the
power switch button in the upper right corner:

Click on the power button

What does it say here?
Software Up to Date?
Updates Available?
Check for Updates?

This is NOT always accurate.
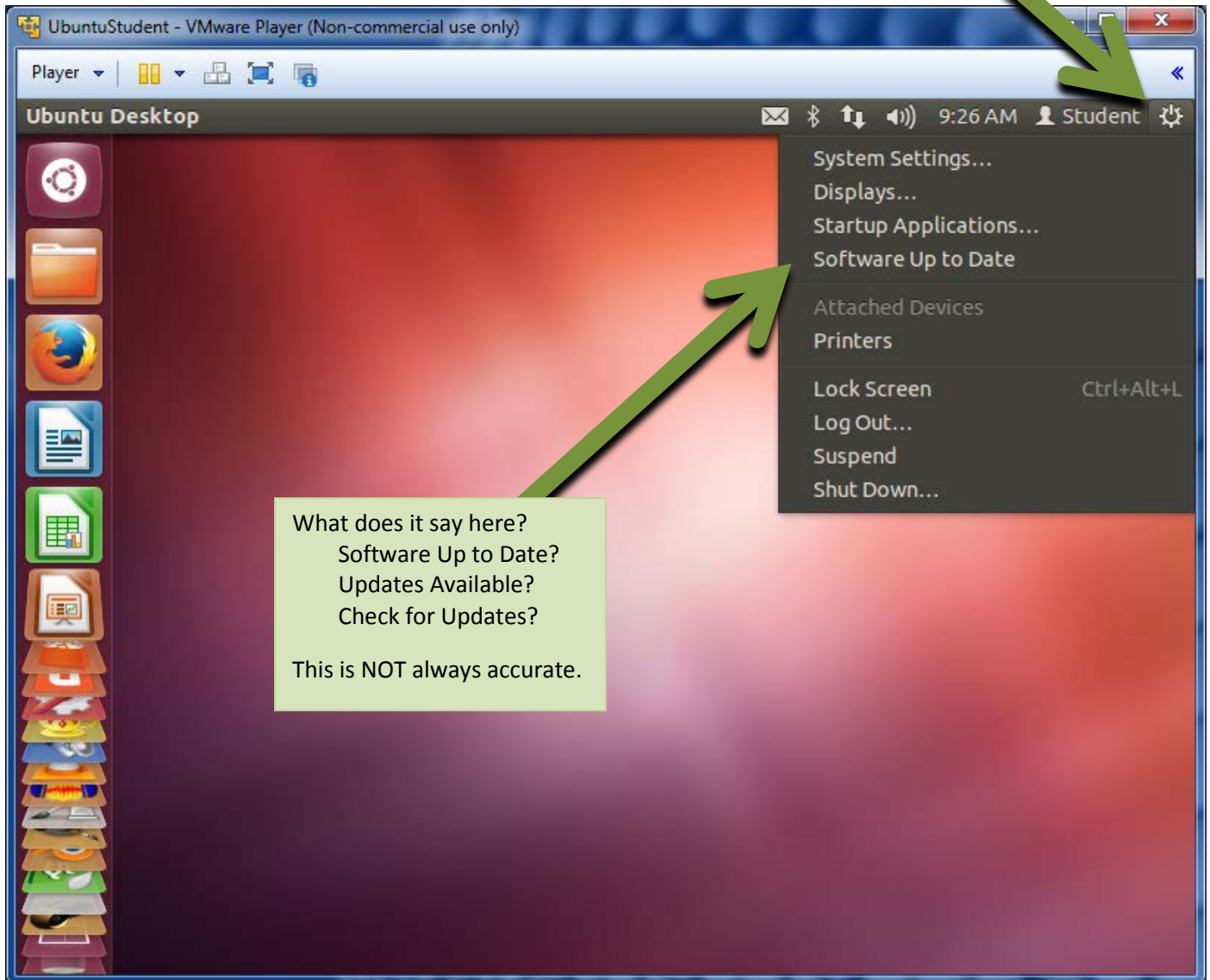
You may also check to see if updates are needed by going to System Settings:
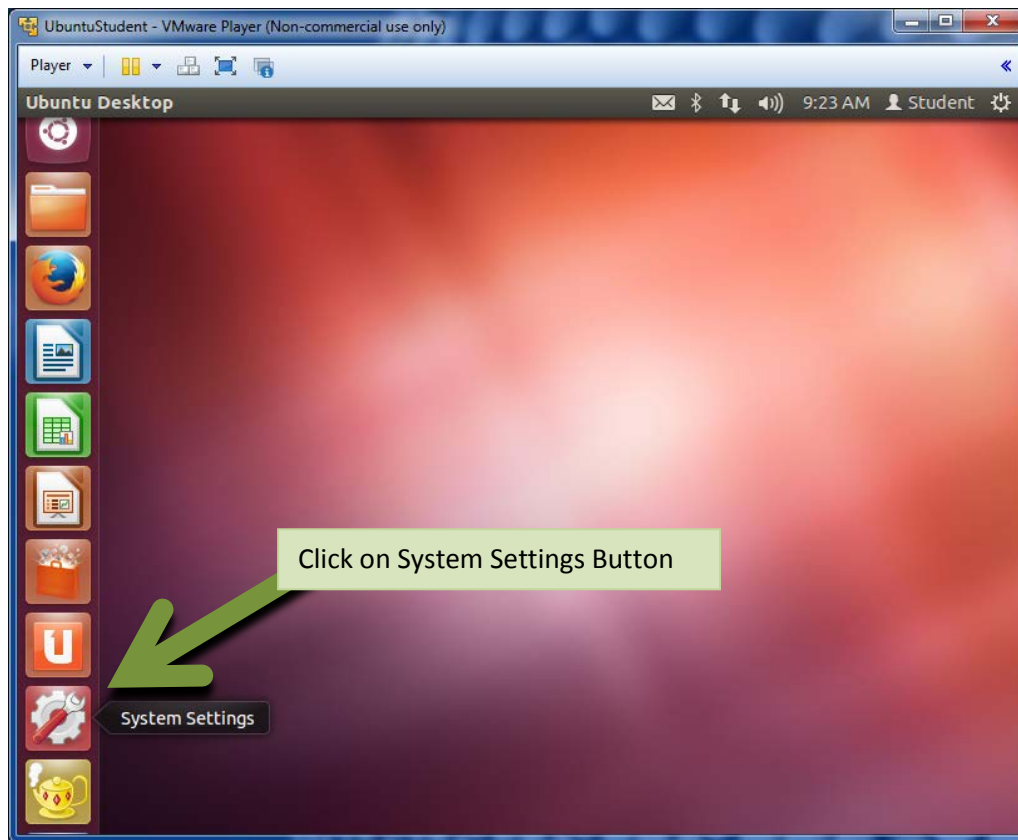
Then click on Details:
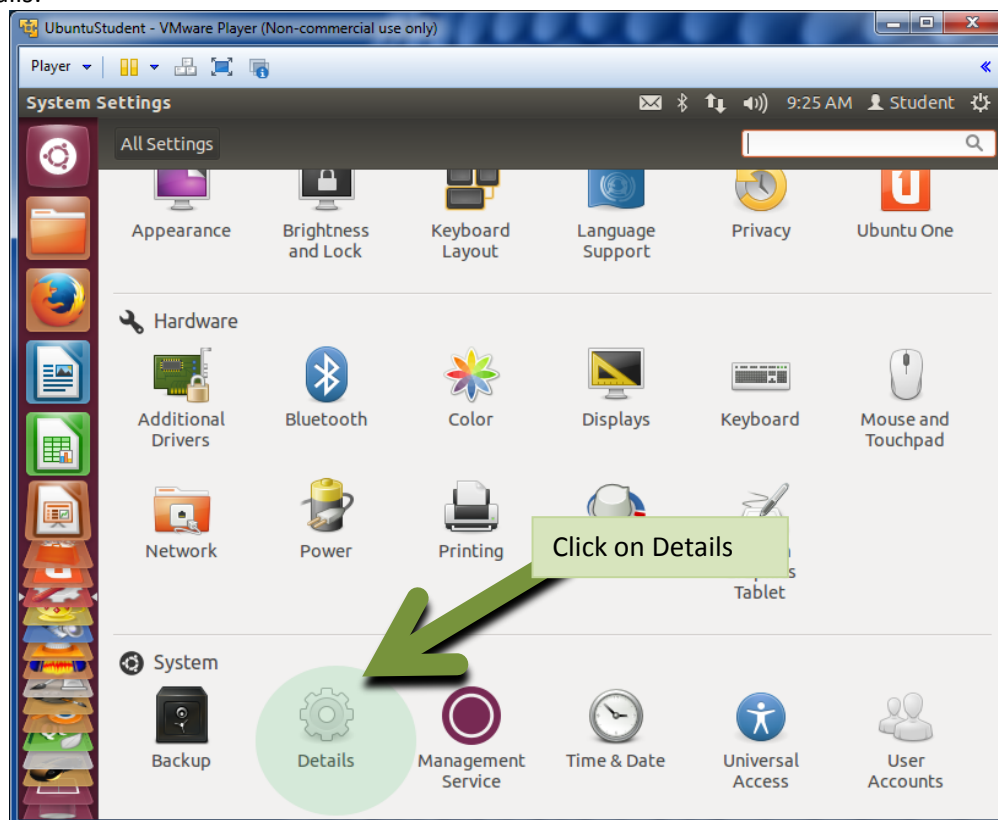
You will then see something like:
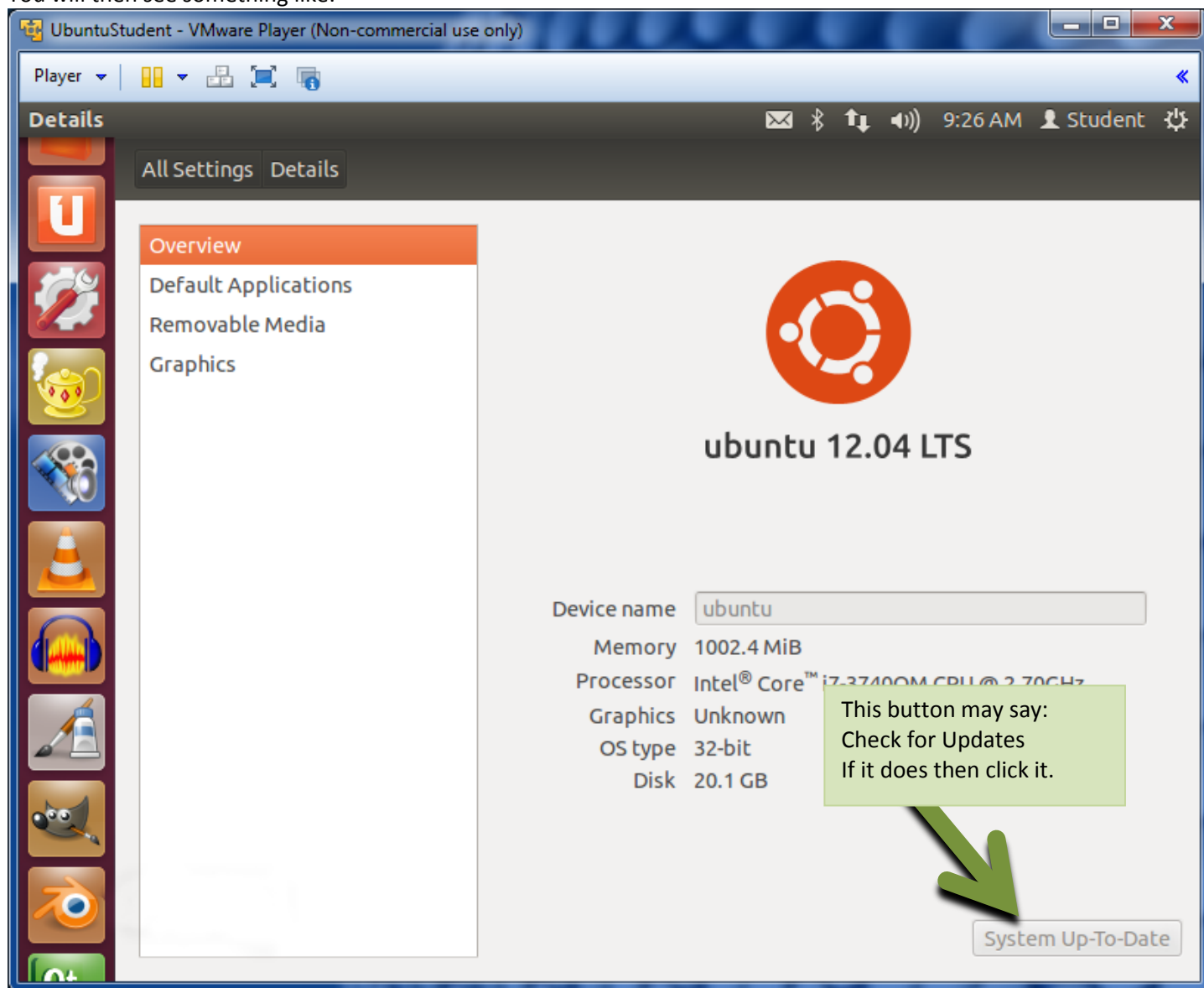
From there it is usually pretty straight forward.

Installing GNU C++ Compiler, aka g++

You will also need to install the GNU C++ compiler, called g++.
Be sure you have an internet connection before continuing with the below.

First go to a terminal prompt (via Dash Home):
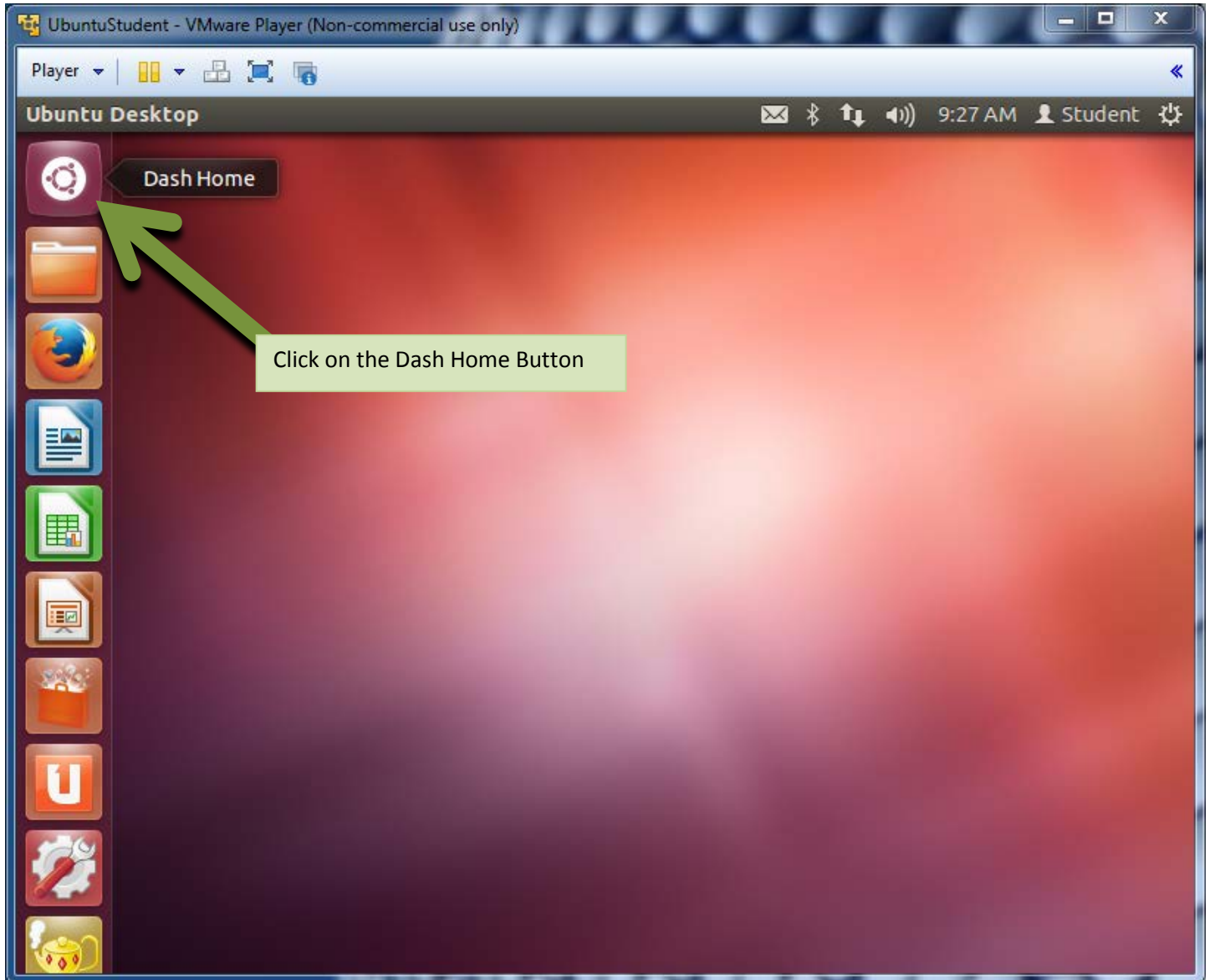
Next do a search for the "terminal" application:

Type: terminal

These three icons should appear,
maybe others too.

You are looking for the one
labeled Terminal,
highlighted in white above.
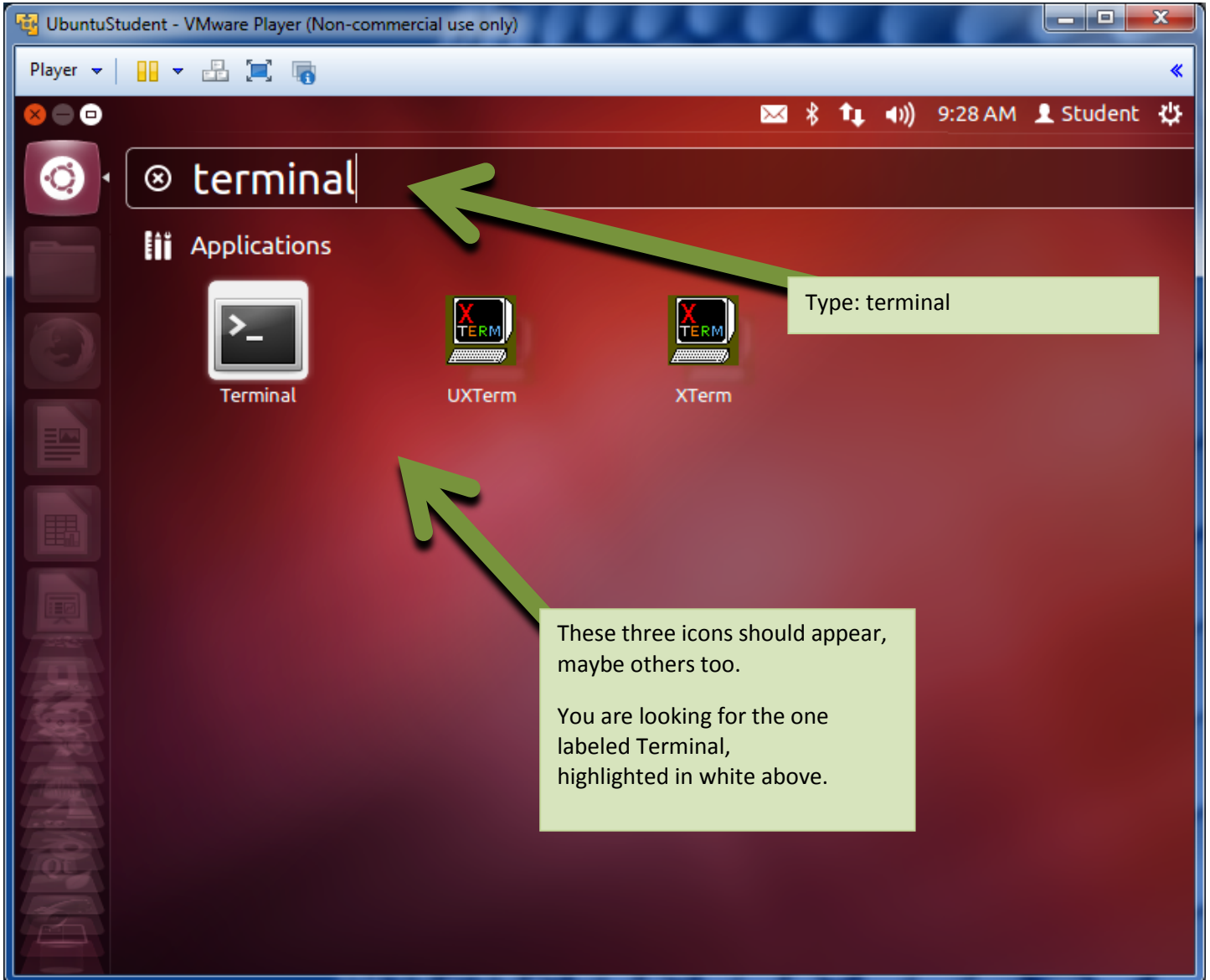
Find the Terminal Application and click on it:

That one is the one you want to start with.
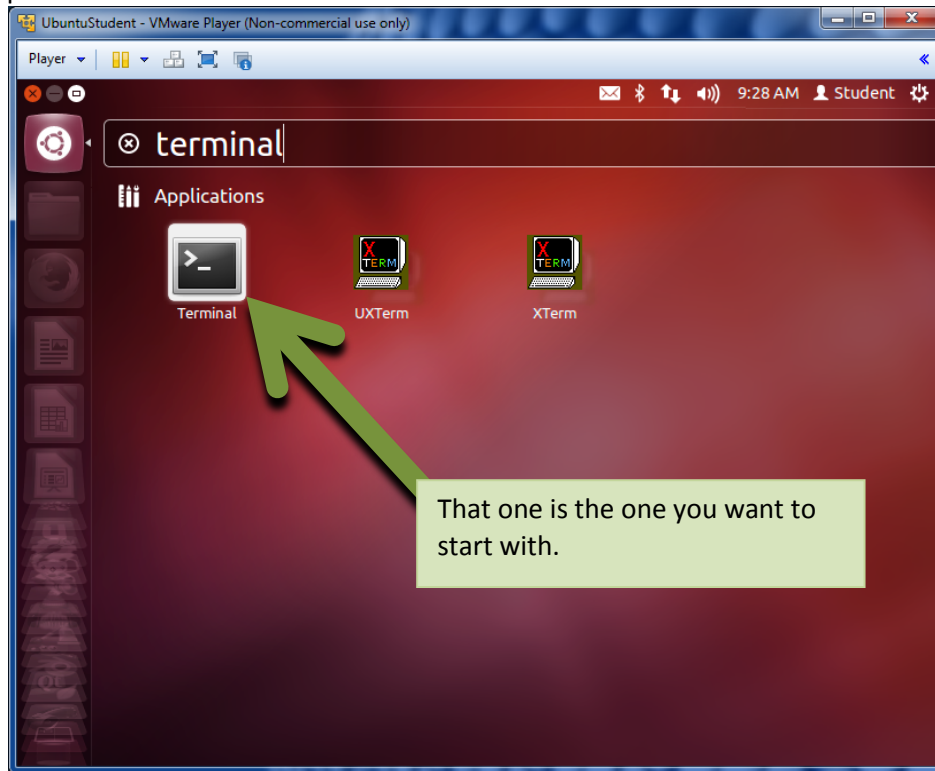
At the prompt you should type the following:

sudo apt-get update

and then hit enter.

This will produce output that looks something like:

Now type

sudo apt-get upgrade

and press enter

This produces output something like:

Now type

sudo apt-get install build-essential

and press enter

This produces output something like:

Enter Y for yes when prompted.

This produces output something like:

This should complete the install of g++ on your Ubuntu Linux Virtual Machine.

To verify it is installed you can type

gcc –v

and press enter *(notice there is a space between the c and the dash)*

This should produce something like:

And then

make –v

and pressing enter, should produce something equally reasonable, such as:

Additional Programs

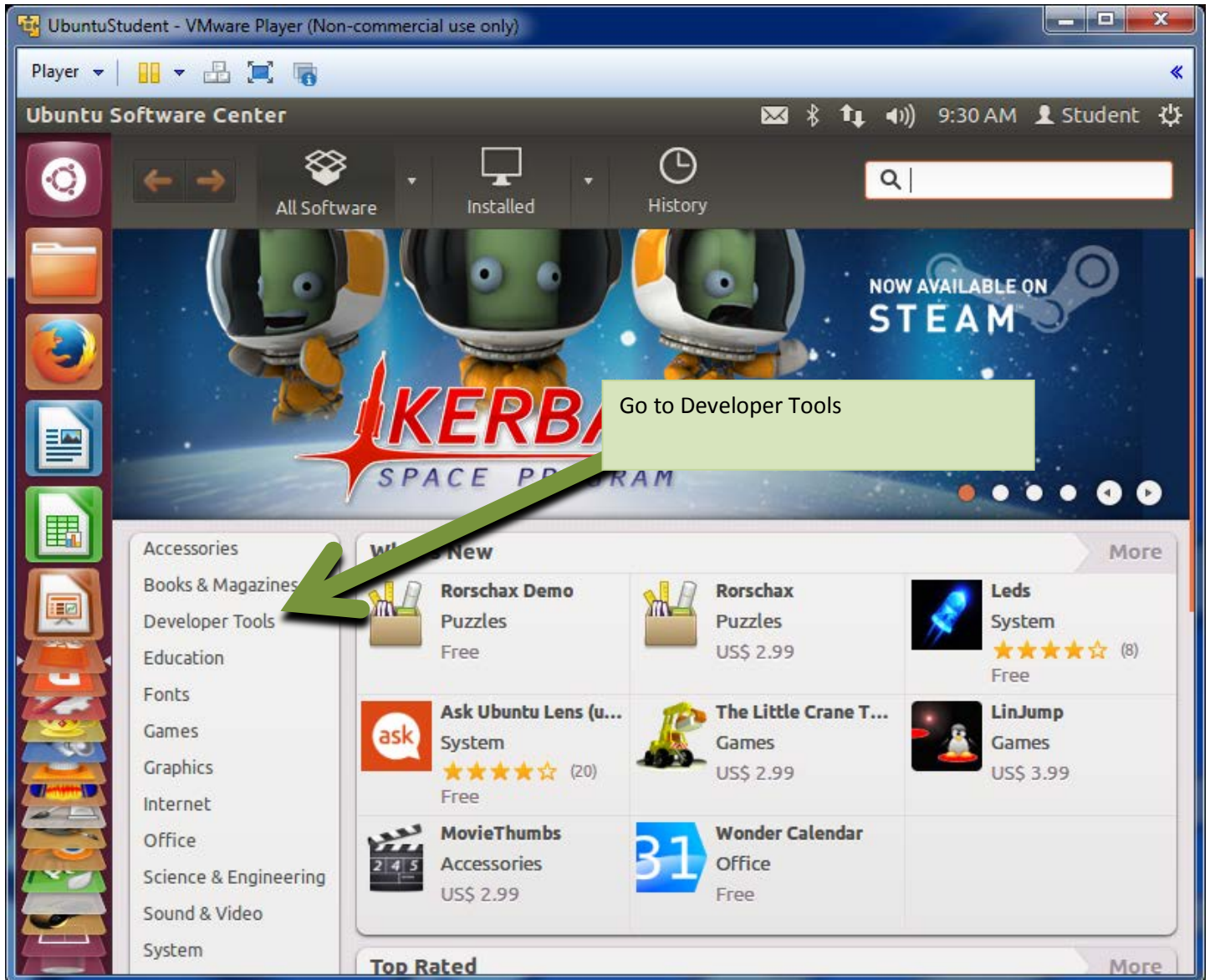You will likely want to install some form of Integrated Development Environment (IDE).
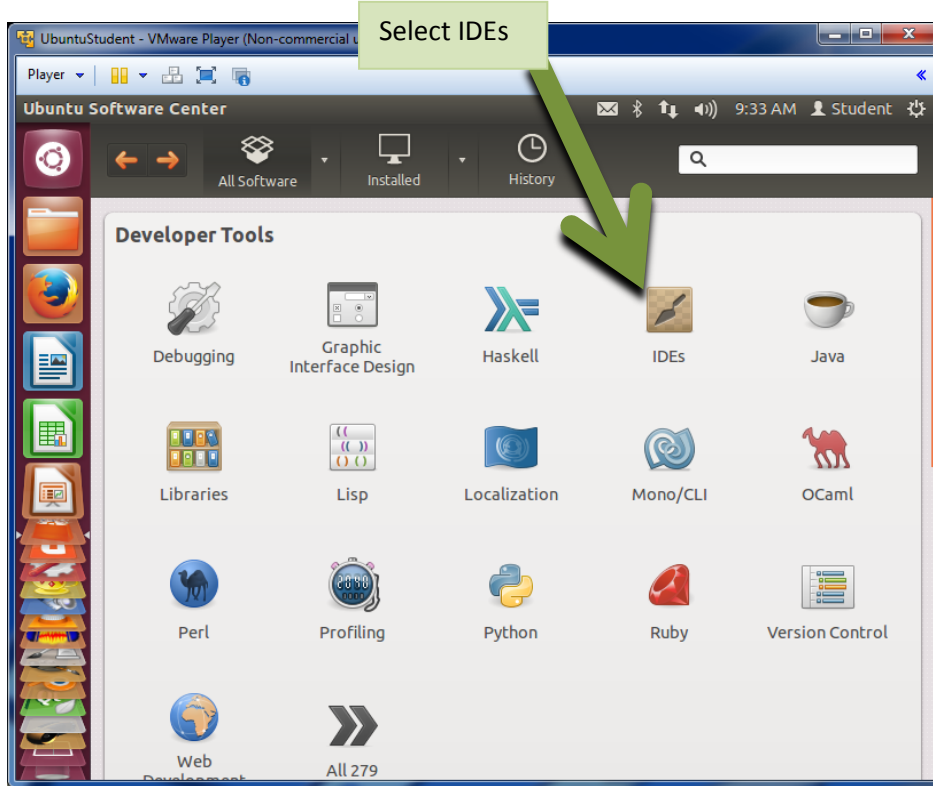**Again, be sure you have an internet connection before continuing with the below.**

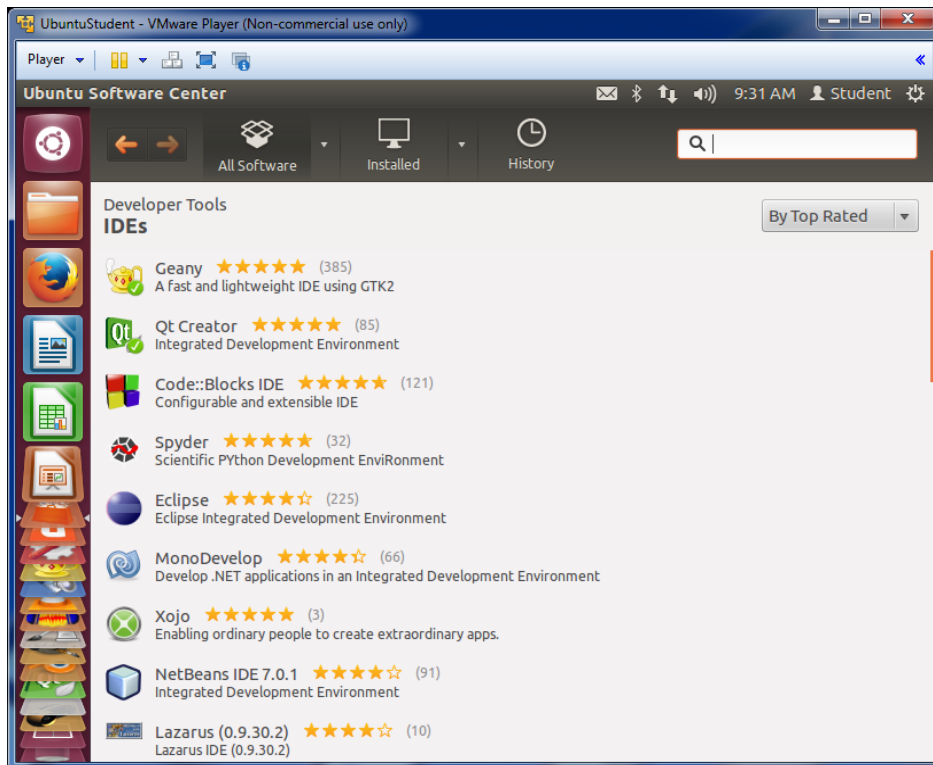So click on the Ubuntu Software Center Button:
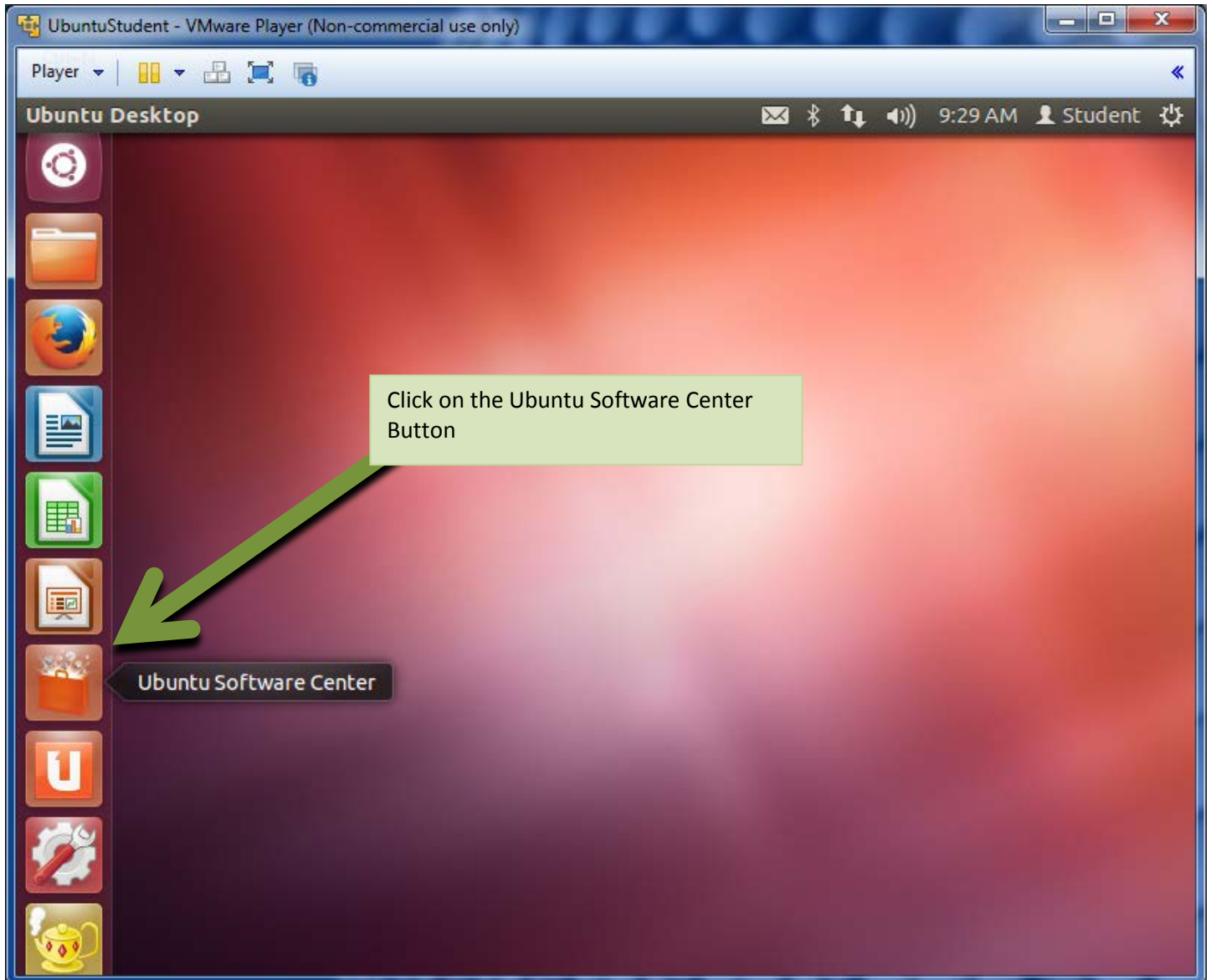
You will now see something like the below.
You will want to go to Developer Tools

You should see something like the below
Now select IDEs

This brings up a list of IDEs available.
Choose the one you want. For Data Structures the Geany IDE may work well.

And there may be other programs you want to, or need to, install.
But that is left up to you.