Computer System Engineering
50.005
Dr. David Yau

Week 1:
Objective: Preparing the environment for CSE course

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Introduction

- In this course, we highly recommend Ubuntu virtual machine for the labs.
- Each student can choose between Java and C to solve programming activities in the labs
- This slides will help you to get your environment ready for the labs, please do all the steps before coming to the first lab!

- Three important steps are needed by you:
  1. Download and Install Vmware or Vbox.
  2. Install Ubuntu machine in your laptop, either by importing it in Vmware or Vbox
  3. Install JDK compiler for the student who wants to use JAVA (IDE: eclipse), OR
     Install GCC compiler for the students who wants to use C

Vmware/VBox and Ubuntu Installation

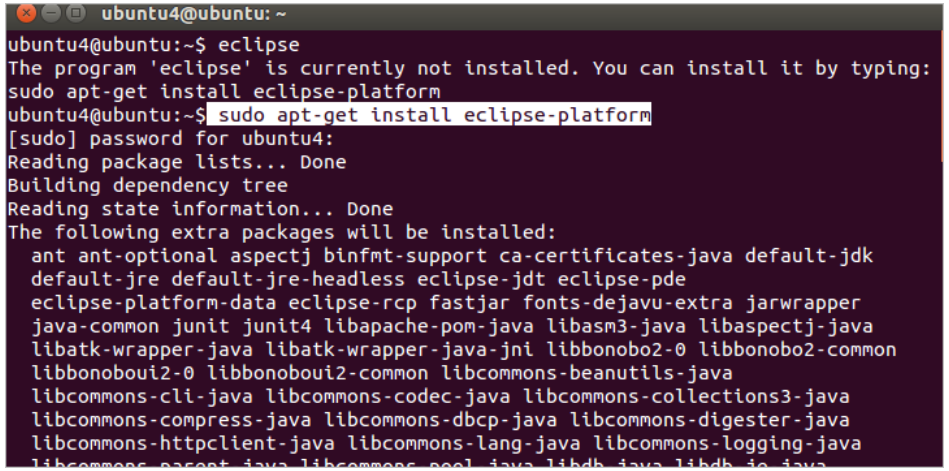
- To download and install Vmware or VBox in your laptop, please check the following link, but before that you need to download the iso image for Ubuntu to be able to do step 8 in the link!
  - Vmware:
    http://www.wikihow.com/Install-VMware-and-Use-VMware-to-Install-Ubuntu
  - VBox
    http://www.wikihow.com/Install-Ubuntu-on-VirtualBox

- To download the iso image for Ubuntu, there are many websites: check the correct image based on your laptop specification (i.e. 32bits vs 64bits, Vmware vs Vbox and etc…)
  - http://www.osboxes.org/ubuntu/
  - https://www.virtualbox.org/wiki/Linux_Downloads

Eclipse

- After your Ubuntu machine gets ready to be used, install Eclipse by:
  1. Open your terminal by typing (Ctrl+Alt+t):
  2. sudo apt-get update
  3. sudo apt-get install eclipse-platform

  (or you can install it from the software center directly)



Now, you should able to compile your JAVA code using Eclipse.

C

- After your Ubuntu machine gets ready to be used, install C by:
  1. Open your terminal by typing (Ctrl+Alt+t):
  2. sudo apt-get update
  3. sudo apt-get upgrade
  4. sudo apt-get install build-essential
  5. gcc -v
  6. make –v

  Now, you should able to compile software using C compilers.

NOTES:

- If you have any problem in the installation, please email us before starting with lab1.
- We have no time to fix your Ubuntu, Eclipse or GCC installing problems in the lab! We will start programming by the first lab.

- Don’t hesitate to ask for help from the teachers by email, we can have small meeting to fix your problems if needed!

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- Good Luck! ☺