EE4204 Computer Networks I (Part 1) **Socket Programming Assignment**

Install Ubuntu on Oracle VirtualBox (Prepared by Amogh P.C., Ex-Graduate Assistant)

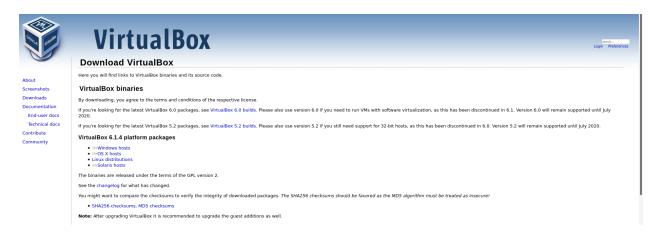
Lecturer: Assoc. Prof. Mohan Gurusa, my, elegm@nus.edu.sg

Install Ubuntu on Oracle VirtualBox

Download oracle virtual box and ubuntu OS

Oracle VirtualBox

- 1) Go to https://www.virtualbox.org/wiki/Downloads
- 2) Download <u>VirtualBox</u> latest version (currently 6.1.4) platform packages for WIndows or OS X (MAC users)
- 3) Run the executable file. Continue with the installation of VirtualBox with the defaults. This will open VirtualBox at the end of the installation.



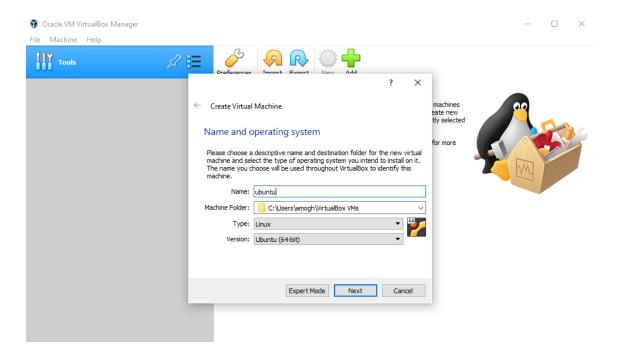
Ubuntu Desktop

Download the latest version of Ubuntu from https://ubuntu.com/download/desktop

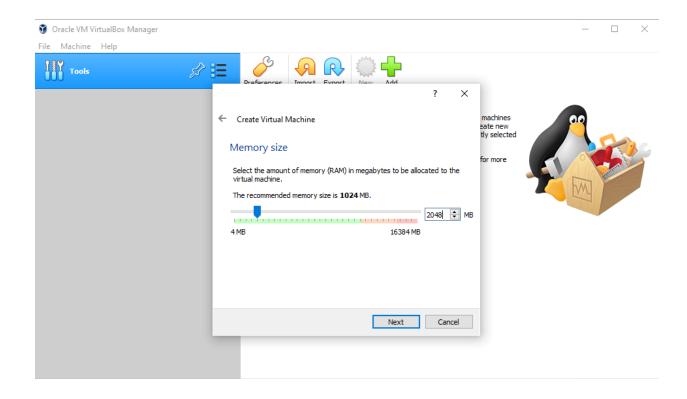


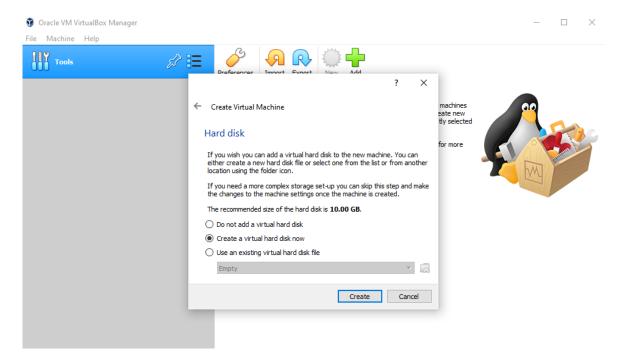
Installation screenshots

Open Oracle VirtualBox

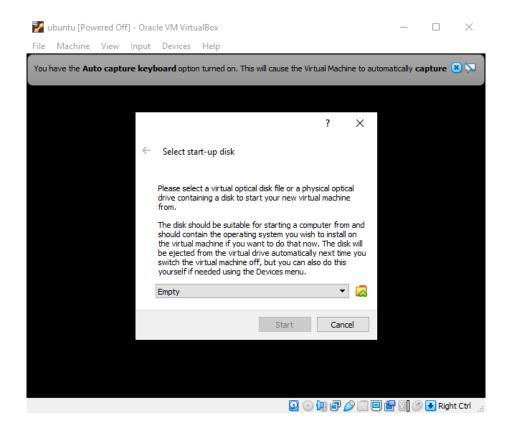


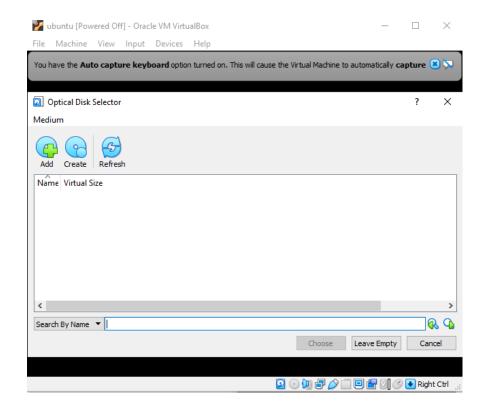
Keep memory around $4GB \sim 4096$ (recommended)



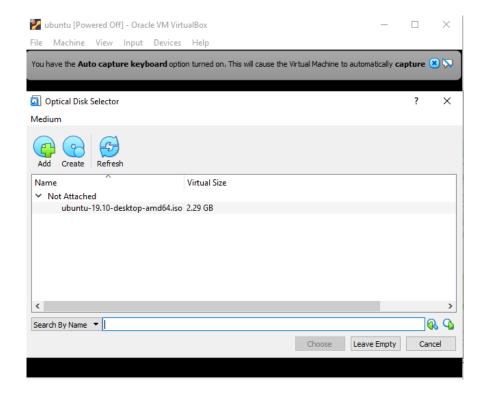


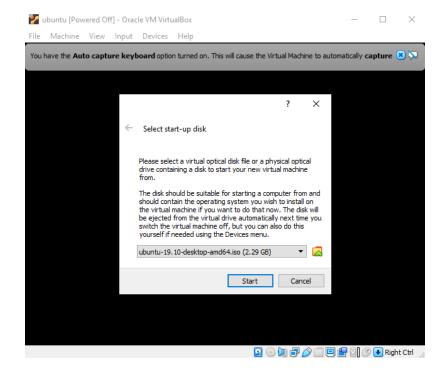
Select the ubuntu image



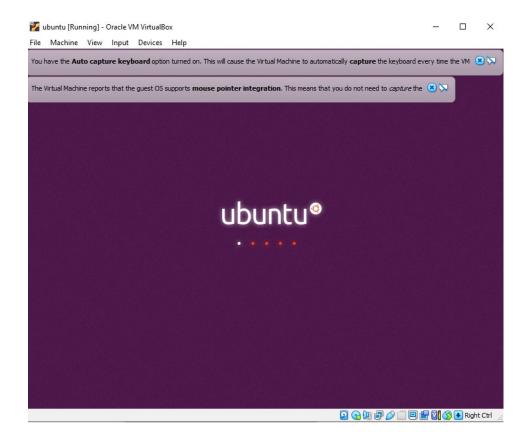


Click add and Choose the ubuntu .iso image downloaded

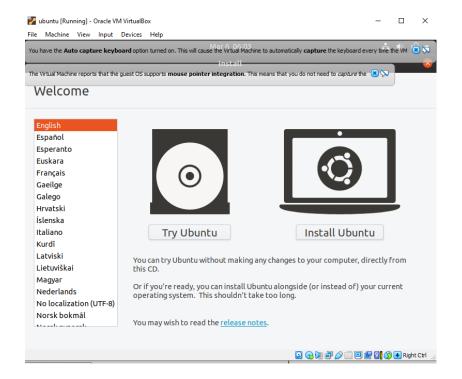




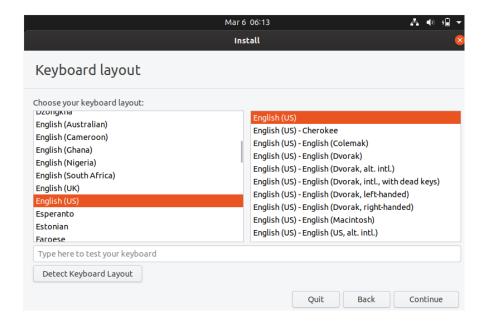
Click start installation of ubuntu starts form there



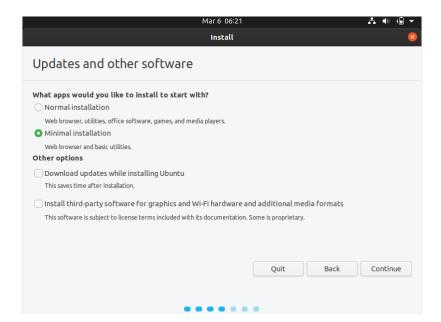
Choose install ubuntu

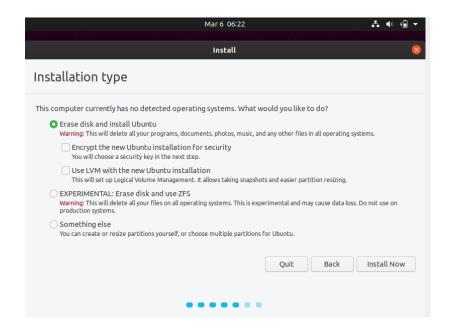


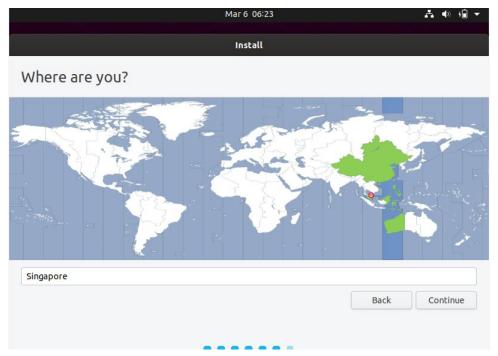
Use default keyboard settings



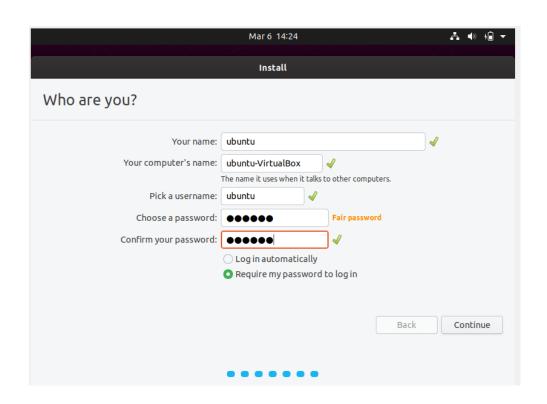
Choose minimal installation, We don't need any other default ubuntu softwares

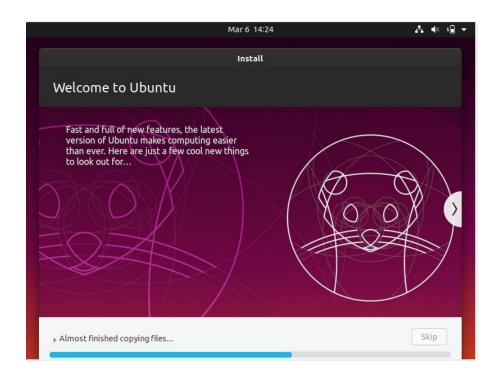


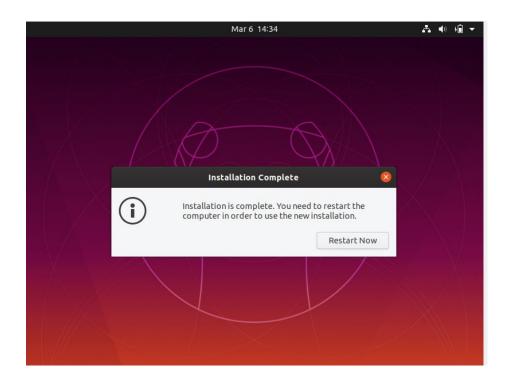




Pick a username and password

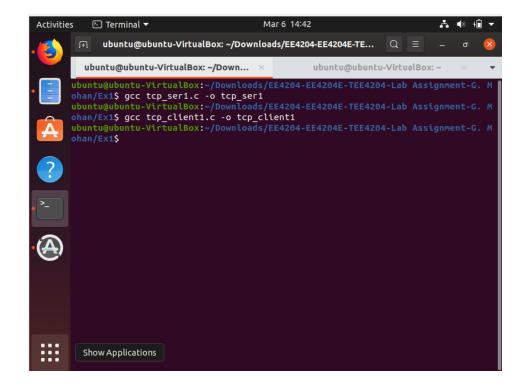




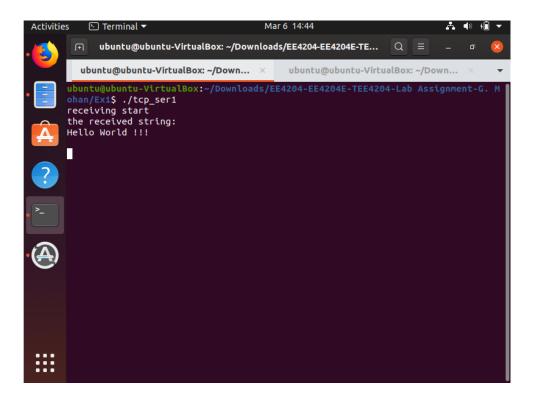


Done with the installation of ubuntu in oracle virtual box

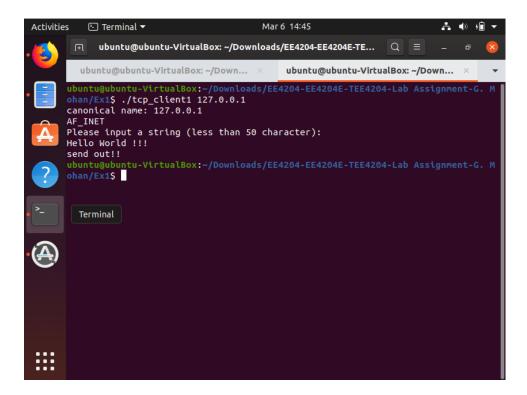
Open the terminal and compile the both client and server programs



Run the server in Terminal 1



Run the client in another terminal with an argument as server ip (127.0.0.1) in Terminal 2



Please note as we are running both client and server in the same machine.

The IP address 127.0.0.1 a special-purpose IPv4 address called localhost or loopback address is used as servers IP

