

CEG5101 Modern Computer Networking
Prepared by Graduate Assistant: Mr. Binghui Wu and Ms. Divya D Kulkarni
Lecturer: Assoc. Prof. Mohan Gurusamy
ECE Department, CDE., National University of Singapore

Laboratory 0
Install Ubuntu on Oracle VirtualBox

LEARNING OBJECTIVES

Upon successful completion of this laboratory, the students will be able to learn:

- i. To download and install Ubuntu on VirtualBox

EQUIPMENT

- i. *Hardware* – Laptop/Computer with internet access

DISCUSSION

1.1 Oracle VirtualBox

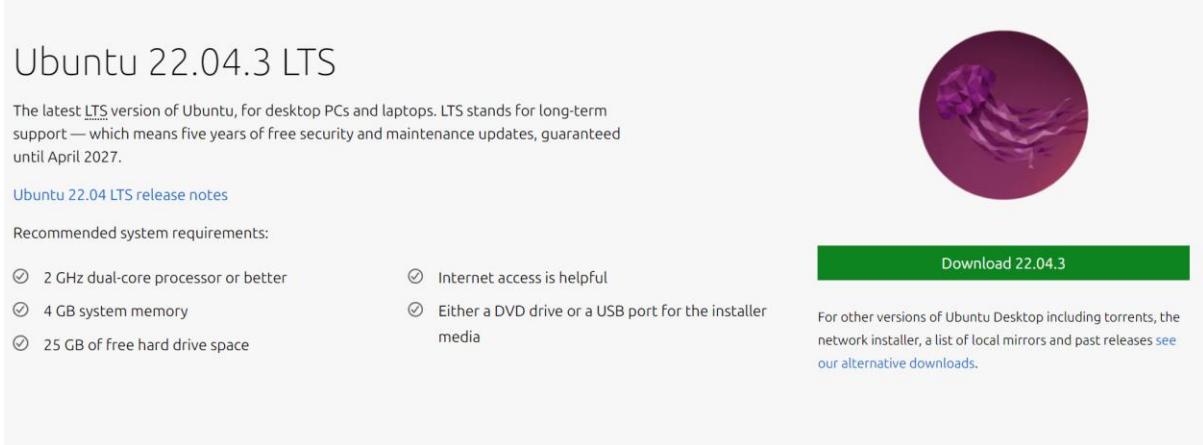
- a. Go to <https://www.virtualbox.org/wiki/Downloads>
- b. Download [VirtualBox](#) latest version (currently 7.0.10) platform packages for Windows or OS X (MAC users)
- c. Run the executable file. Continue with the installation of VirtualBox with the defaults. This will open VirtualBox at the end of the installation.



The screenshot shows the 'Download VirtualBox' page of the VirtualBox website. The page features a large 'VirtualBox' logo at the top left. On the left side, there's a vertical navigation menu with links: About, Screenshots, Downloads, Documentation, End-user docs, Technical docs, Contribute, and Community. The main content area is titled 'Download VirtualBox'. It contains several sections: 'VirtualBox binaries' (with a note about license terms), 'VirtualBox 7.0.10 platform packages' (listing supported hosts like Windows, macOS, Linux, Solaris, and Solaris 11 IPS), 'VirtualBox 7.0.10 Oracle VM VirtualBox Extension Pack' (with a note about upgrading guest additions), and 'VirtualBox 7.0.10 Software Developer Kit (SDK)' (listing supported platforms). There are also links for 'SHA256 checksums, MDS checksums' and 'Note: After upgrading VirtualBox it is recommended to upgrade the guest additions as well.'

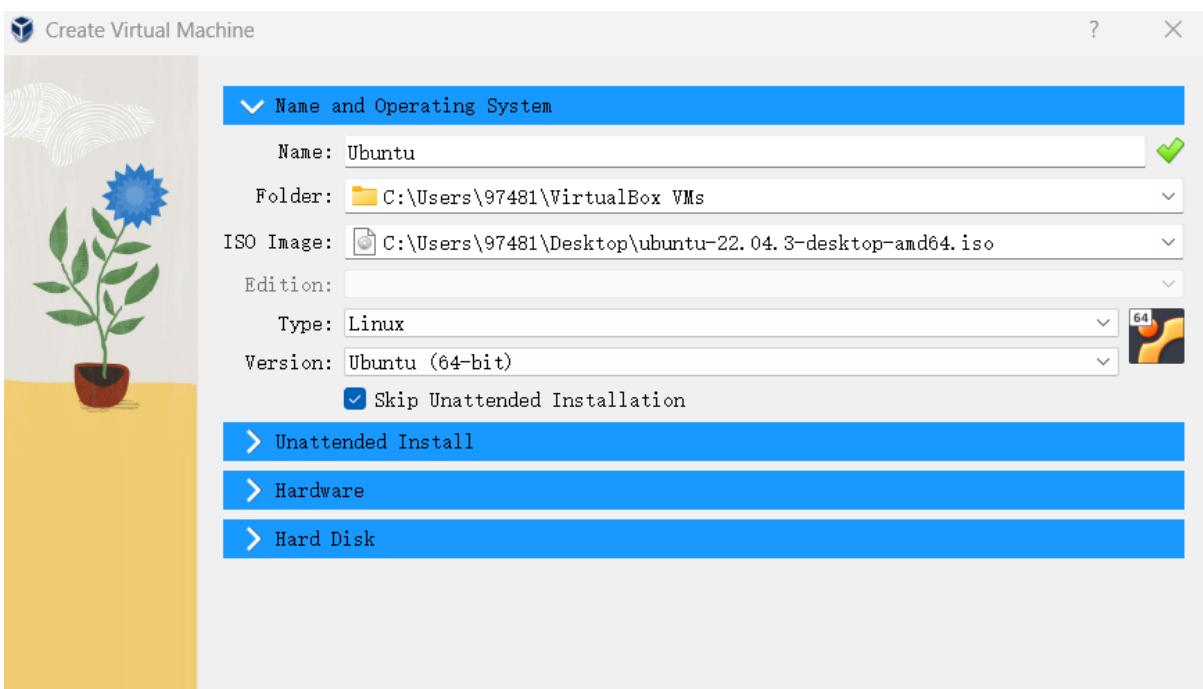
1.2 Ubuntu Desktop

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

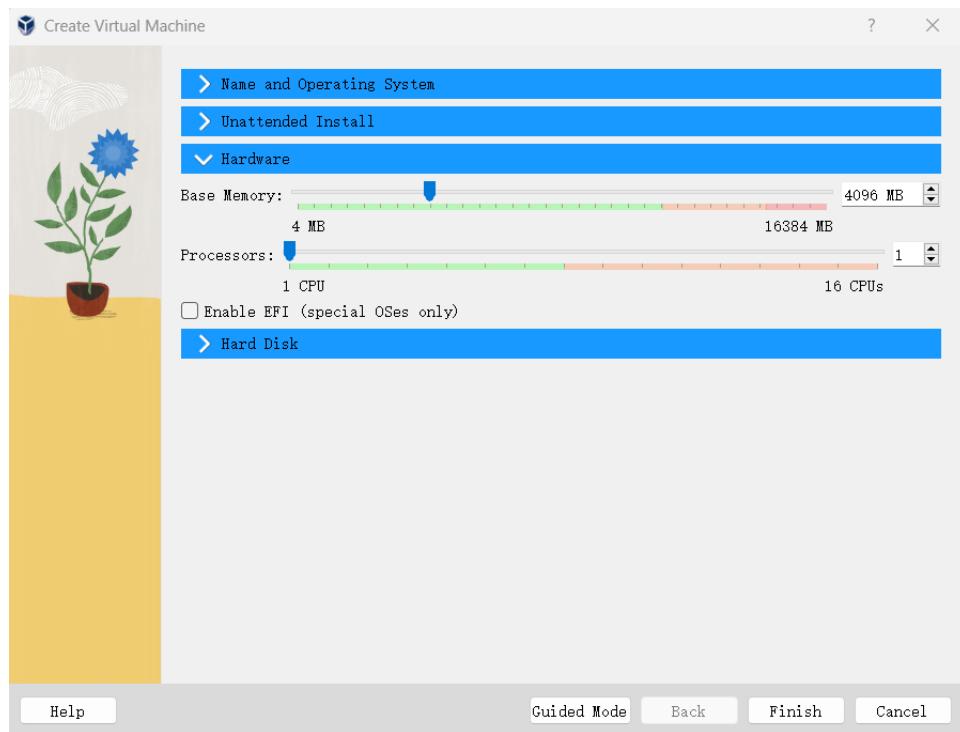


1.3 Installation screenshots

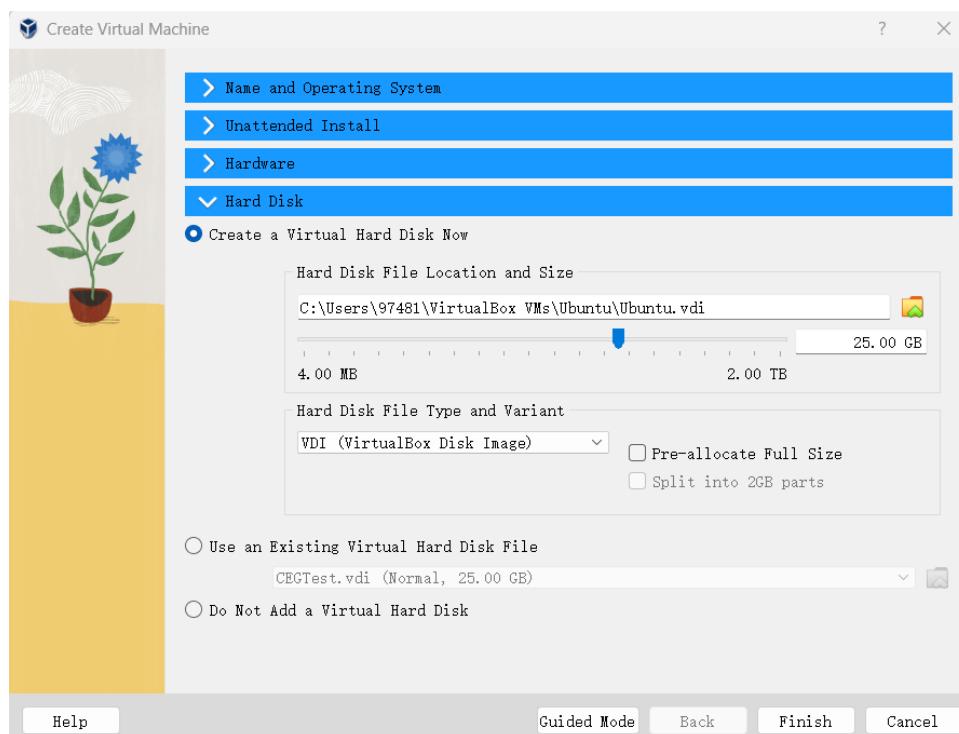
1. Open Oracle VirtualBox
2. Select the “iso” file downloaded, and put the address in “ISO Image”



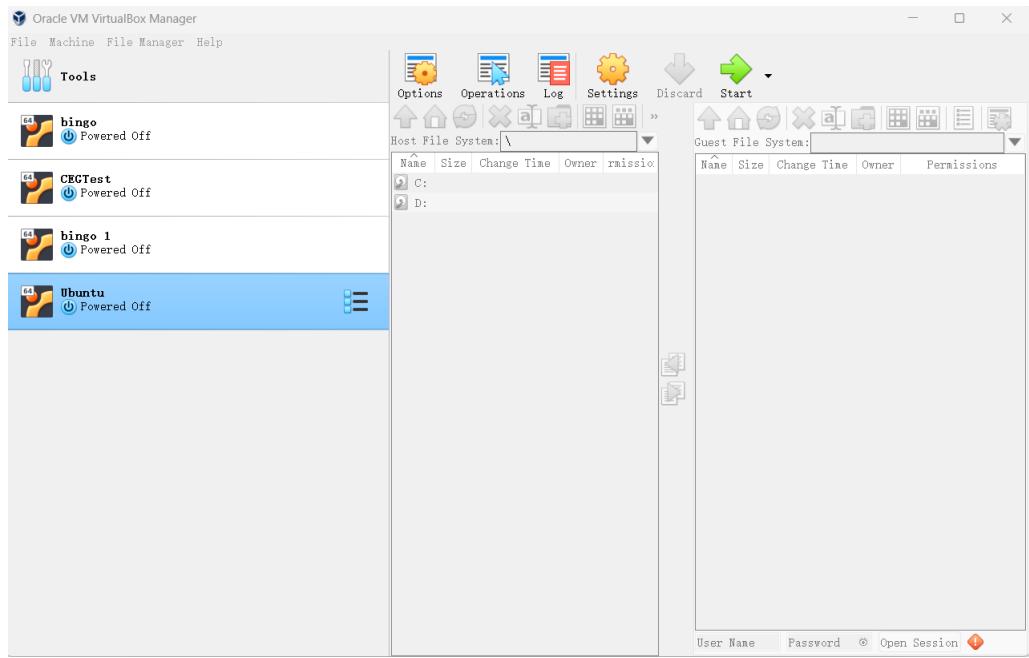
3. It is better to select “Skip Unattended Installation” because it has some bugs.
 Skip Unattended Installation
4. Keep memory around 4GB ~ 4096 (recommended)



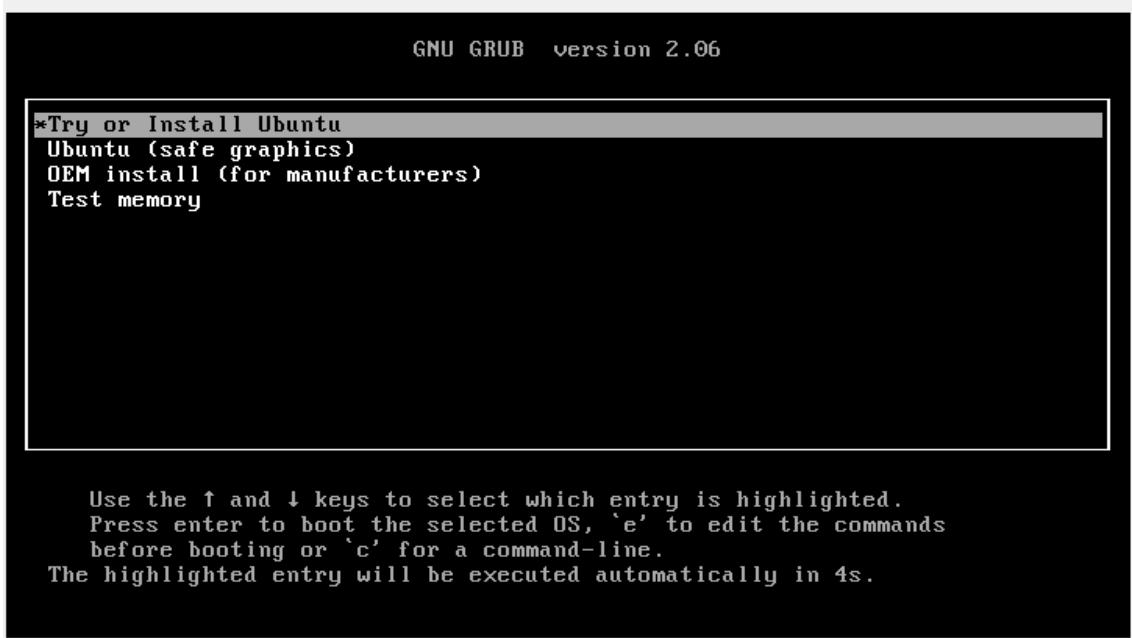
5. Keep the virtual hard disk to be \geq 10GB (I use 25GB in the settings)

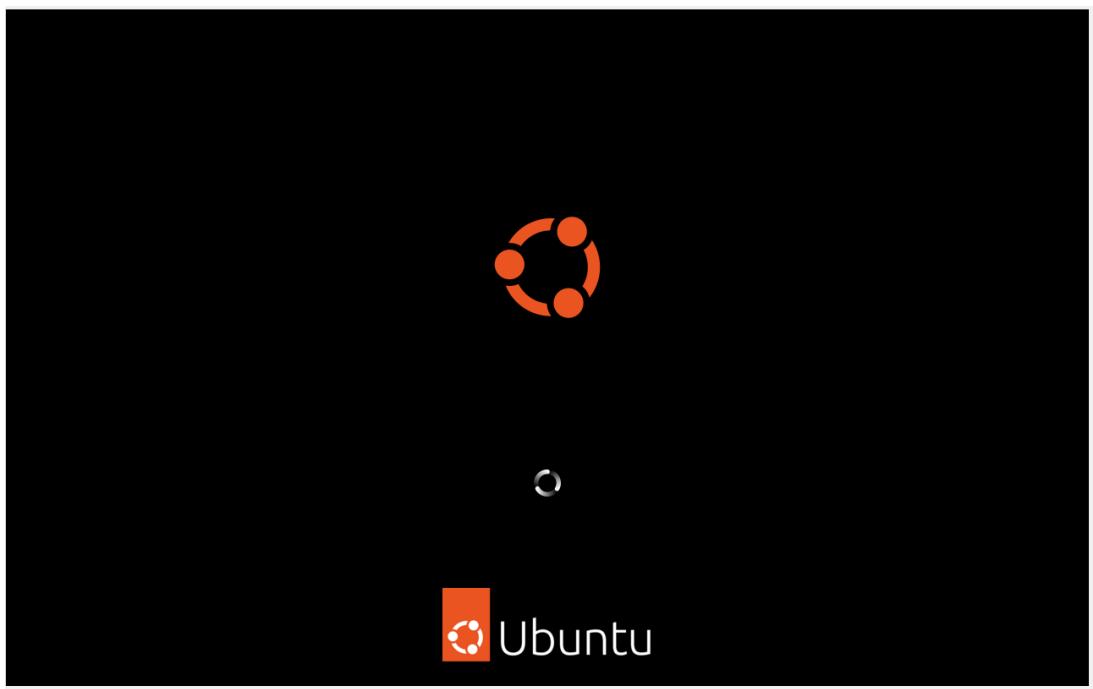


6. Then you have built the machine, we need to do the installation.
7. Click "Start"

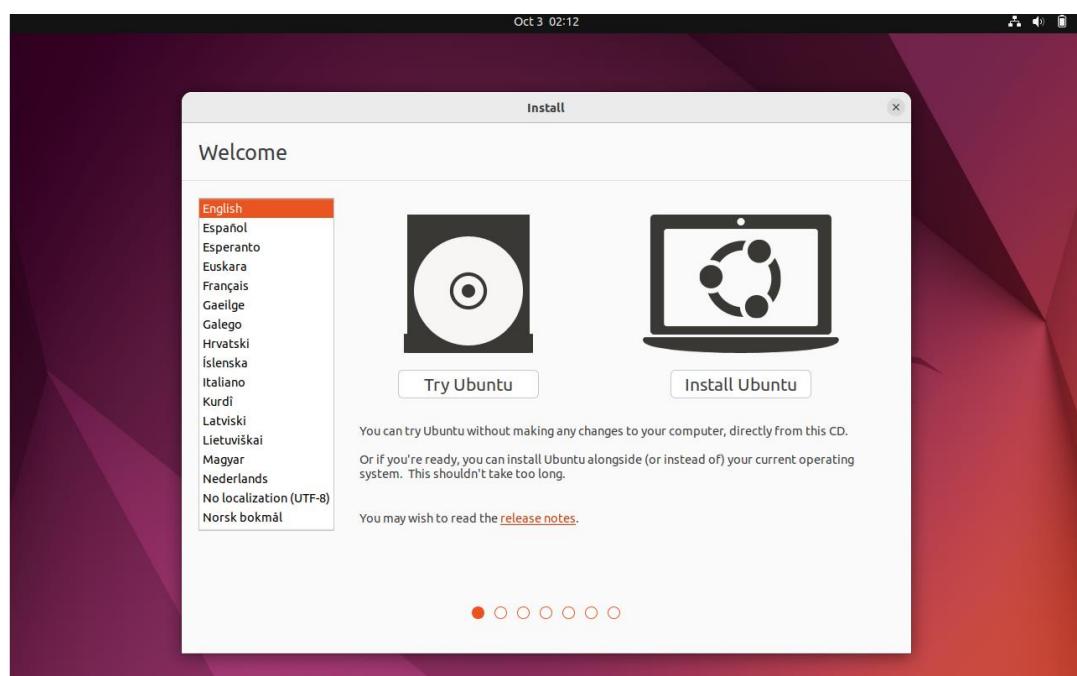


Then get into the GRUB to select install Ubuntu

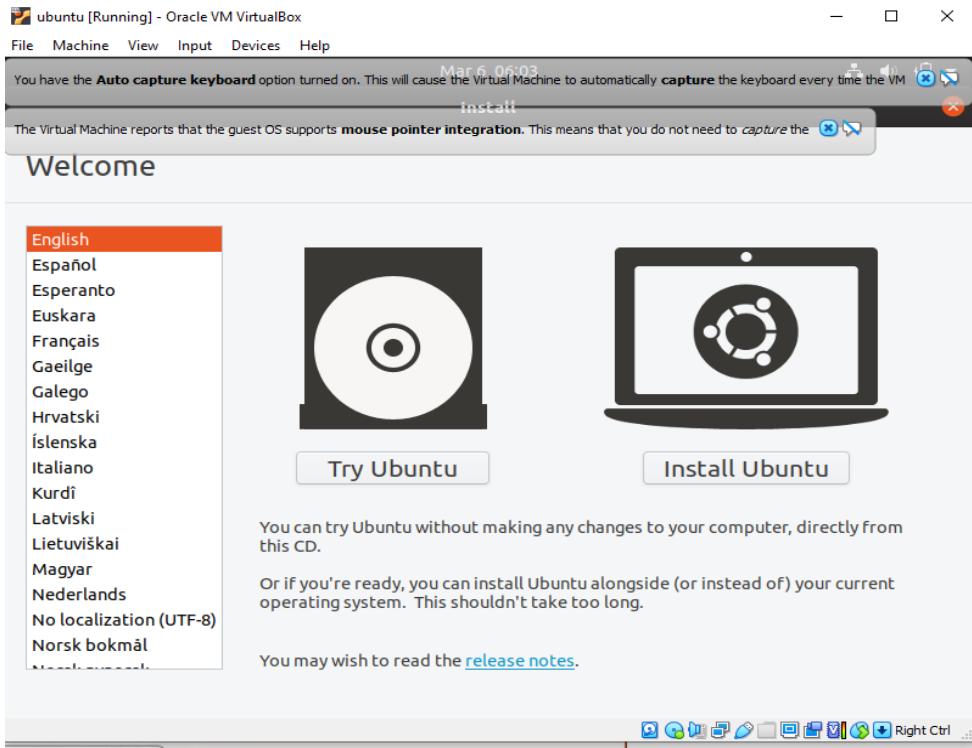




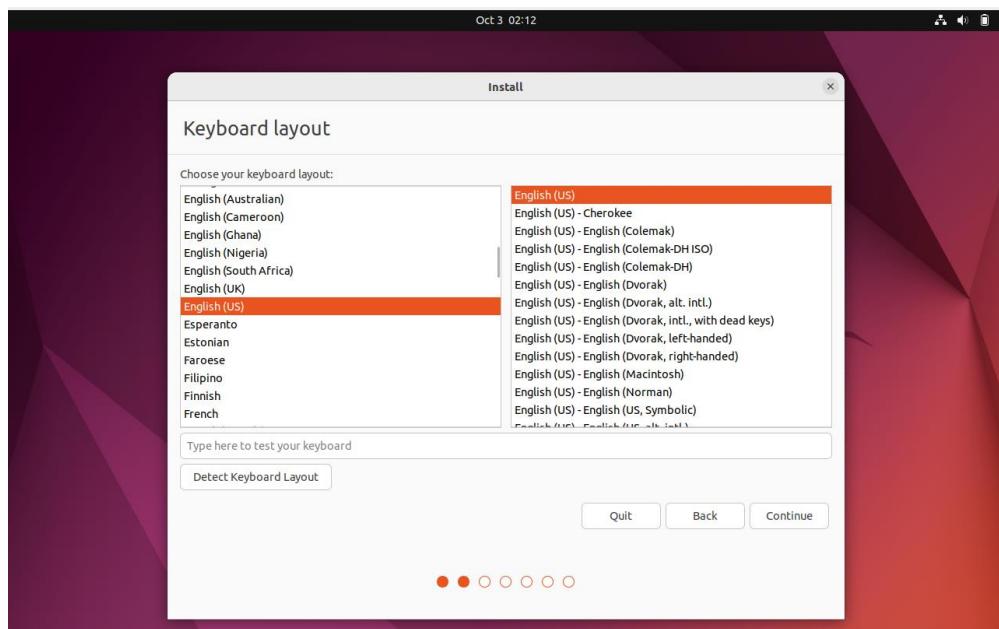
Click start installation of Ubuntu starts form here.



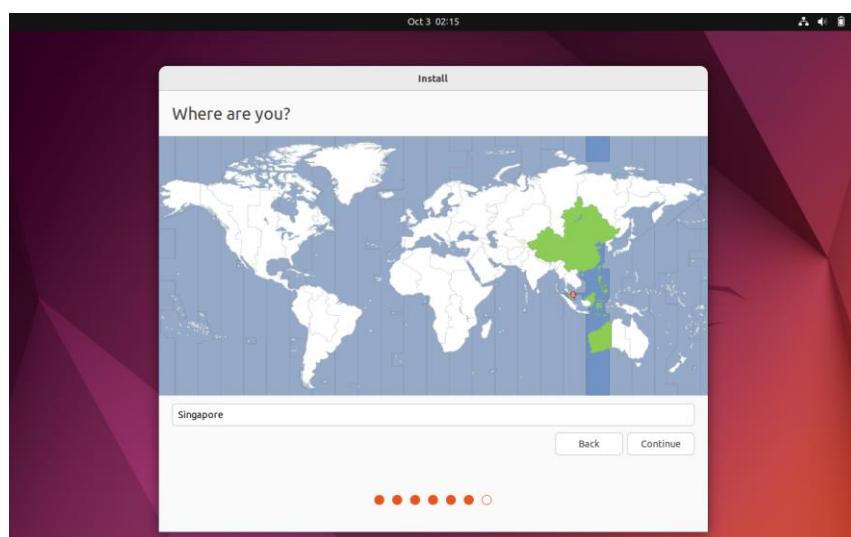
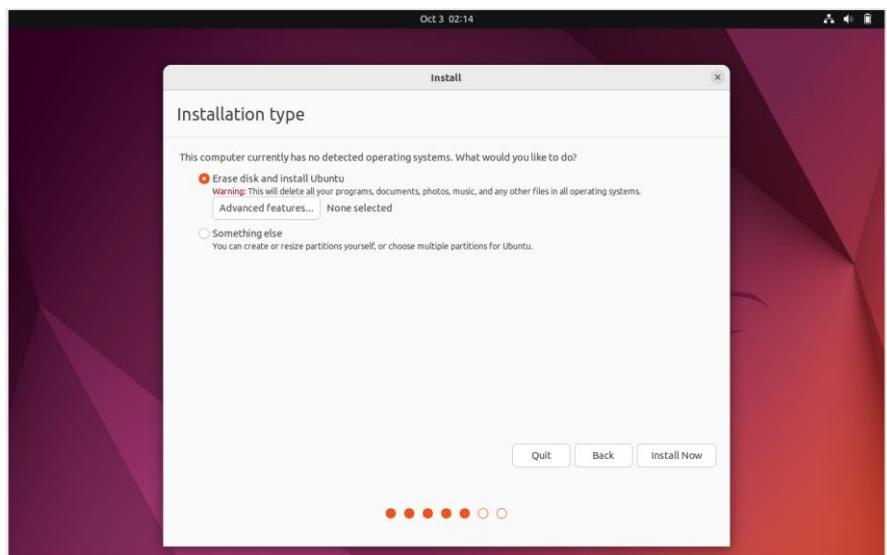
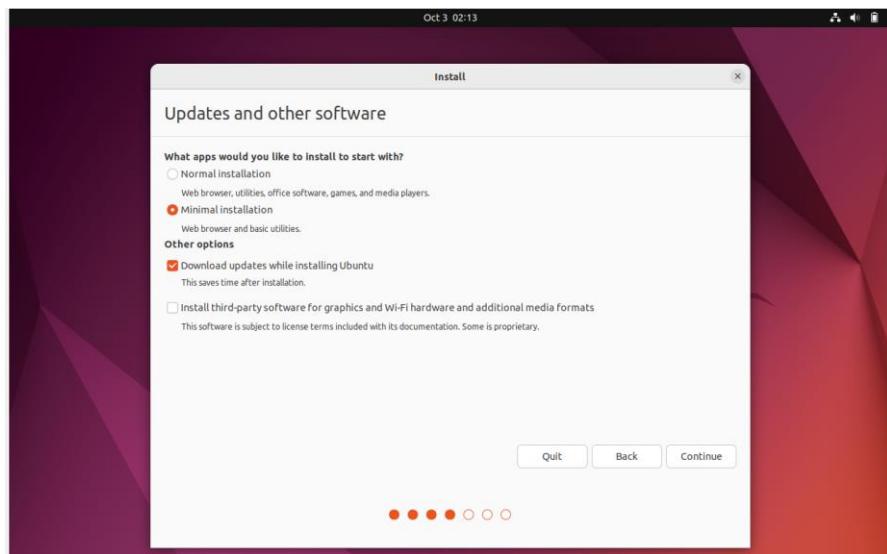
Choose to install Ubuntu.



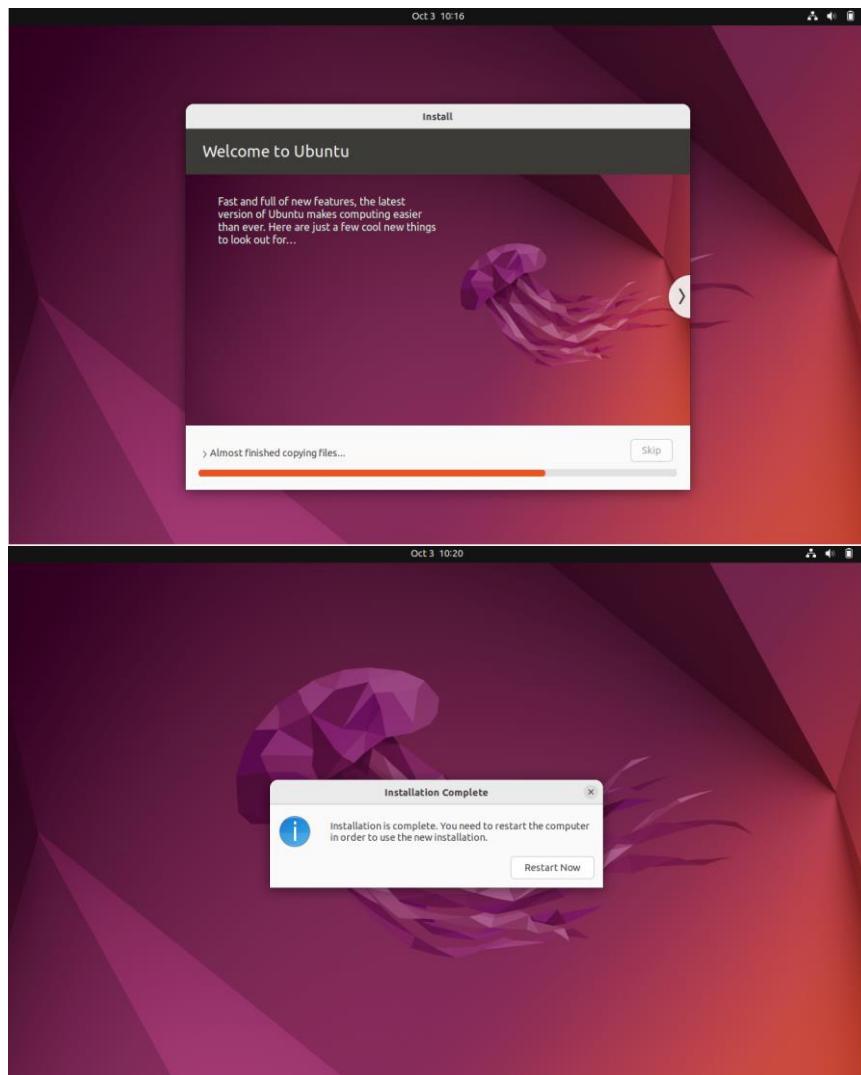
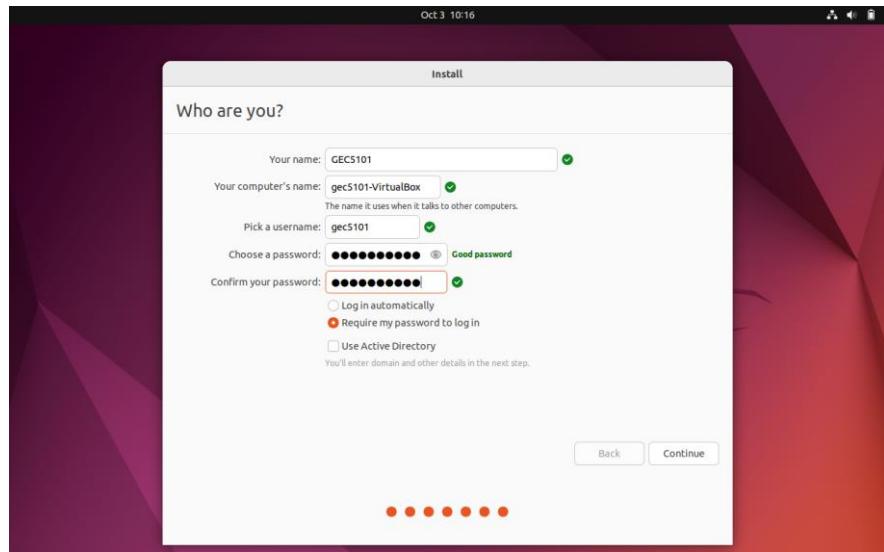
Use default keyboard settings



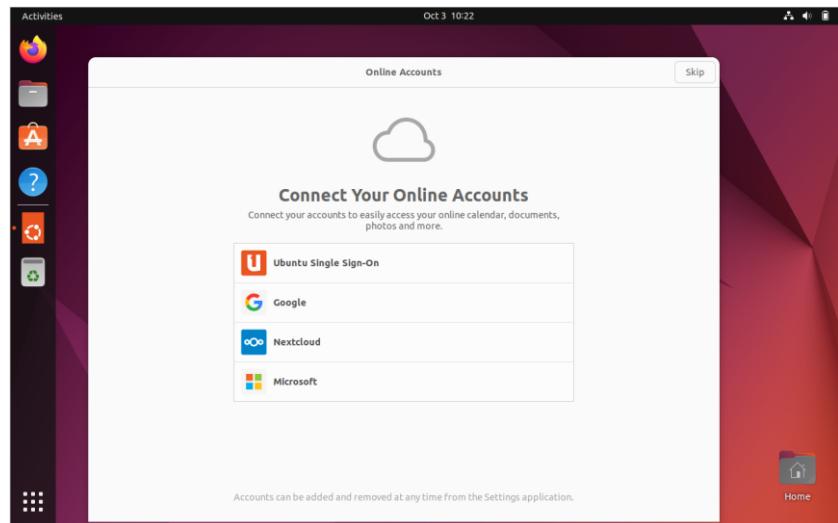
Choose minimal installation. We don't need any other default ubuntu software.
(If you want to experience the whole system, it is better to install the normal version)



Pick a username and password (sorry for the typo, should be CEG5101)



Then use your username and password to open the system



Done with the installation of ubuntu in oracle virtual box.
You can play with it.