FAST National university Peshawar Campus



Lab-1 Task

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BSSE-5A

Department of Computer Science

Linux Installation Guide

What is ubuntu?

Ubuntu is a free and open-source operating system .Ubuntu is offered in three official editions: Ubuntu Desktop for personal computers, Ubuntu Server for servers and the cloud, and Ubuntu Core for the Internet of things devices.

Step By Step Installation:

Below is a step by step process to install ubuntu. This is the most common method used to install ubuntu, which involves manually creating a partition.

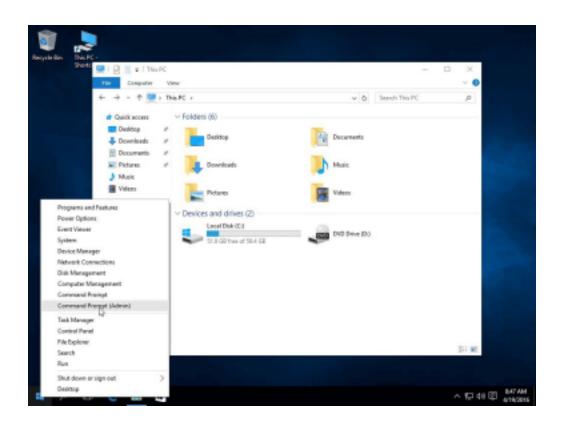
Downloads needed:-

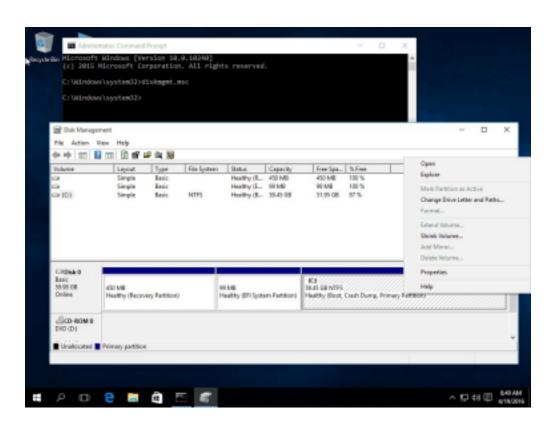
Download Ubuntu 22 ISO Image as per your system architecture using the following link:

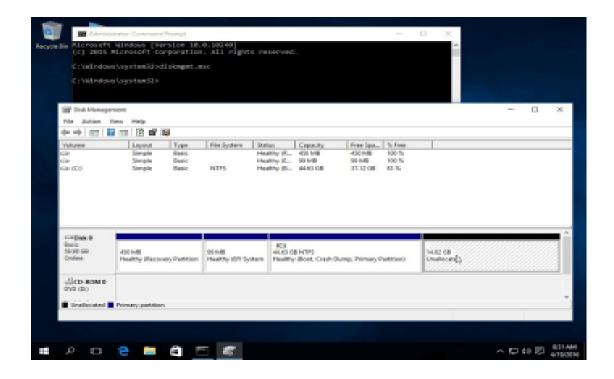
- 1.Ubuntu 16.04 64-bit Desktop
- 2.Power ISO

Creating a partition:

The first thing you need to take care of is to create free space on the computer hard disk in case the system is installed on a single partition.







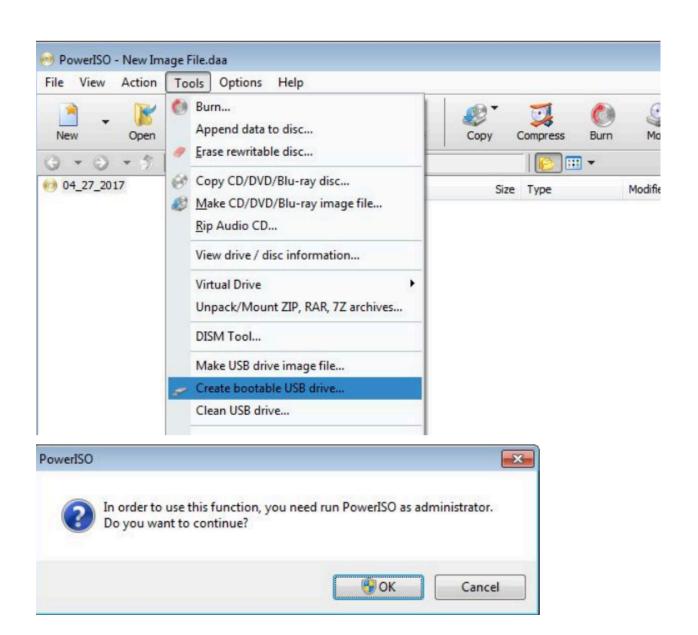
Making a bootable drive:-

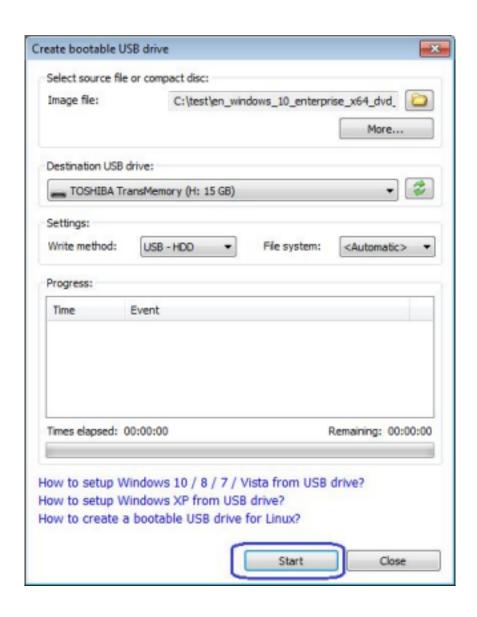
Install the PowerISO in windows and open it.

Insert the USB drive you intend to boot from.

Choose the menu "Tools > Create Bootable USB Drive". The

"Create Bootable USB Drive" dialog will popup.







Then click ok.

MAKE A BACKUP:

This is just to emphasize that you can lose your data if something went wrong, so it is better to make a backup of some really important files now.

INSTALLING UBUNTU:

Place the USB stick or DVD in the appropriate drive, reboot the machine and instruct the BIOS/UEFI to boot-up from the DVD/USB by pressing a special function key (usually F12, F10 or F2 depending on the vendor specifications).

Once the media boot-up a new grub screen should appear on your monitor. From the menu select Install Ubuntu and hit Enter to continue.

After the boot media finishes loading into RAM you will end up with a completely functional Ubuntu system running in live mode.

On the Launcher hit on the second icon from top, Install Ubuntu 22 LTS, and the installer utility will start(this may also start automatically). Choose the language you wish to perform the installation and click on the Continue button to proceed further.

Now select the second option if you wish to have the third party softwares or multimedia drivers preinstalled.

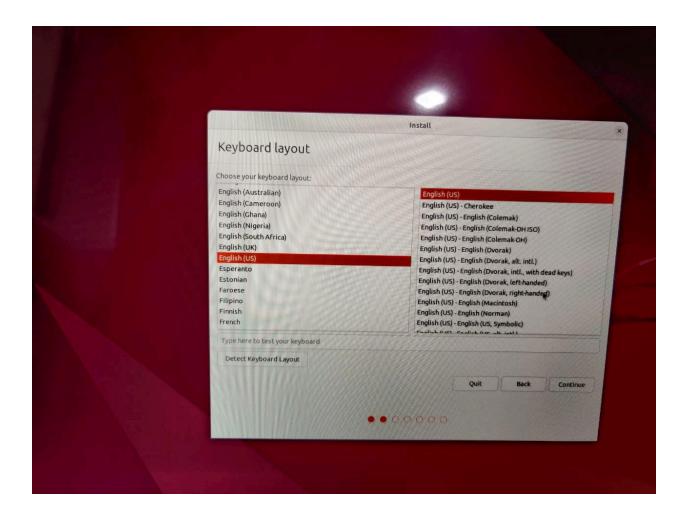
Hit the Install Now button in order to apply changes to disk and start the installation process

GNU GRUB version 2.02~beta2-36ubuntu3

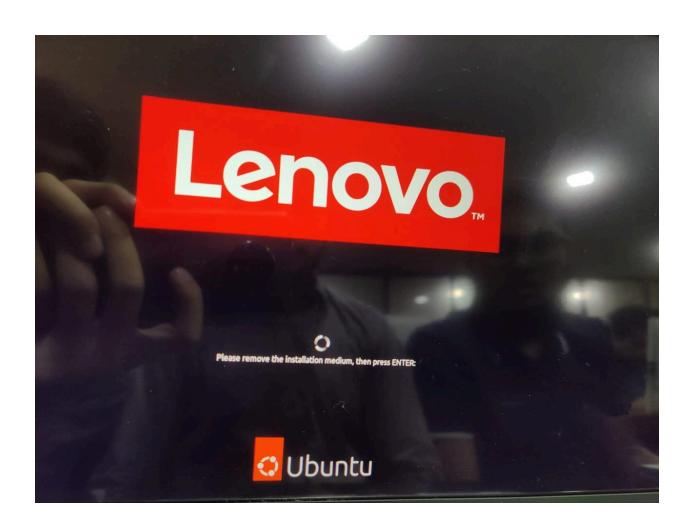
Try Ubuntu without installing SInstall Ubuntu OEM install (for manufacturers) Check disc for defects	
wInstall Ubuntu OFM Install (for manufacturers)	
Check disc for defects	

Use the ↑ and ↓ keys to select which entry is highlighted. Press enter to boot the selected OS, `e' to edit the commands before booting or `c' for a command-line. ESC to return previous menu.

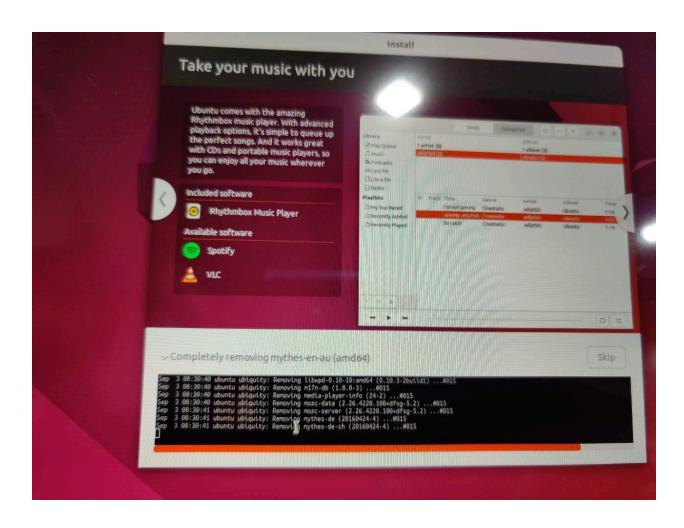


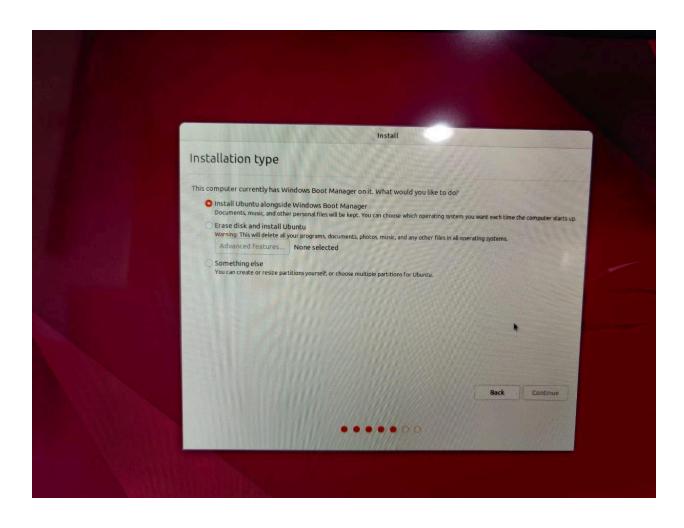


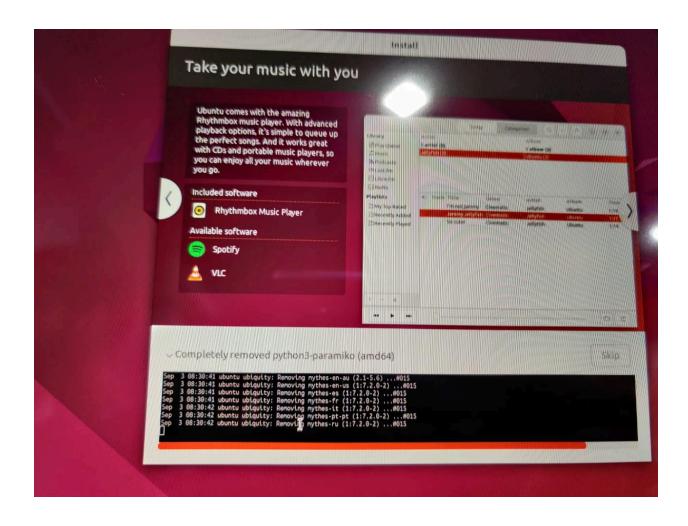


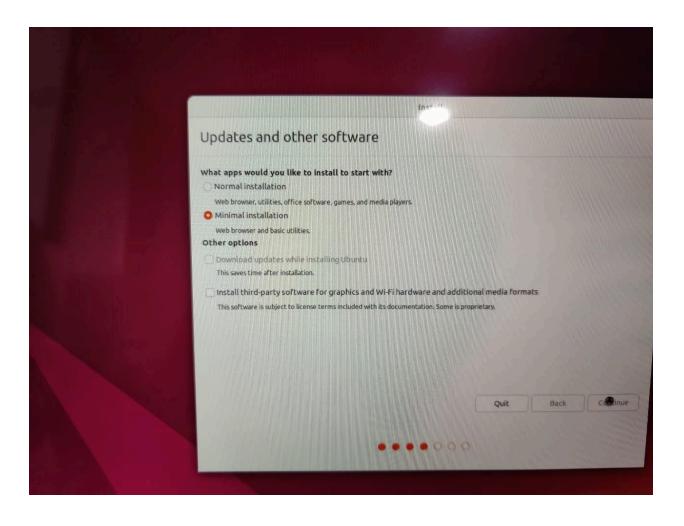


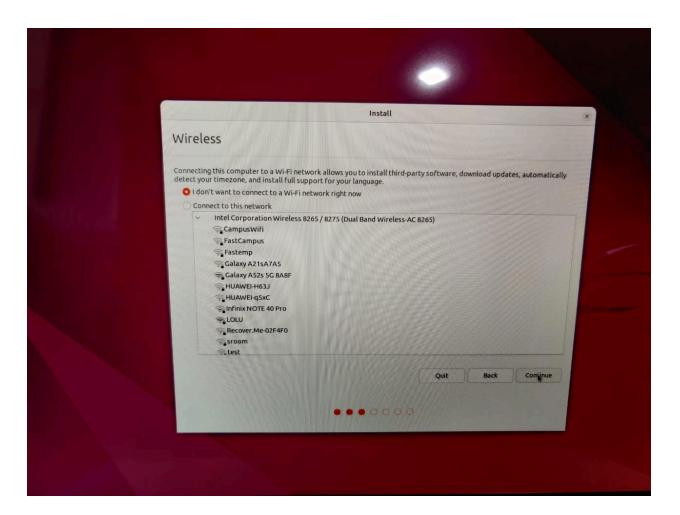
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z-ThinkPad-X1-Carbon-6th:-$ sudo apt update
Ign:1 http://security.ubuntu.com/ubuntu jammy-security InRelease
Ign:2 http://pk.archive.ubuntu.com/ubuntu jammy InRelease
Ign:3 http://pk.archive.ubuntu.com/ubuntu jammy-updates InRelease
Ign:4 http://pk.archive.ubuntu.com/ubuntu jammy-backports InRelease
Get:2 http://pk.archive.ubuntu.com/ubuntu jammy InRelease [270 kB]
Get:3 http://pk.archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Get:4 http://pk.archive.ubuntu.com/ubuntu jammy-backports InRelease [127 kB]
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Get:8 http://security.ubuntu.com/ubuntu jammy-security/main i386 Packages [531 k8]
Get:9 http://pk.archive.ubuntu.com/ubuntu jammy/main amd64 DEP-11 Metadata [423 kB]
Get:10 http://pk.archive.ubuntu.com/ubuntu jammy/main DEP-11 48x48 Icons [100.0 kB]
Get:11 http://pk.archive.ubuntu.com/ubuntu jammy/main DEP-11 64x64 Icons [148 kB]
Get:12 http://pk.archive.ubuntu.com/ubuntu jammy/main DEP-11 64x64@2 Icons [15.8 kB]
Get:13 http://pk.archive.ubuntu.com/ubuntu jammy/main amd64 c-n-f Metadata [30.3 kB]
Get:14 http://pk.archive.ubuntu.com/ubuntu jammy/restricted amd64 Packages [129 kB]
Get:14 http://pk.archive.ubuntu.com/ubuntu jammy/restricted amdo4 Packages [129 kb]
Get:15 http://pk.archive.ubuntu.com/ubuntu jammy/restricted i386 Packages [30.4 kB]
Get:16 http://pk.archive.ubuntu.com/ubuntu jammy/restricted Translation-en [18.6 kB]
Get:17 http://pk.archive.ubuntu.com/ubuntu jammy/restricted amd64 c-n-f Metadata [488 B]
Get:19 http://pk.archive.ubuntu.com/ubuntu jammy/universe i386 Packages [7,474 kB]
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Get:19 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [1,769 kB]
Get:20 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [291 kB]
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Jammy-security/universe amd64 DEP-11 Metadata [89.2 k
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Jammy-security/universe DEP-11 64x64 Icons [62.8 kB]
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Jammy-security/multiverse amd64 c-n-f Metadata [228 B]
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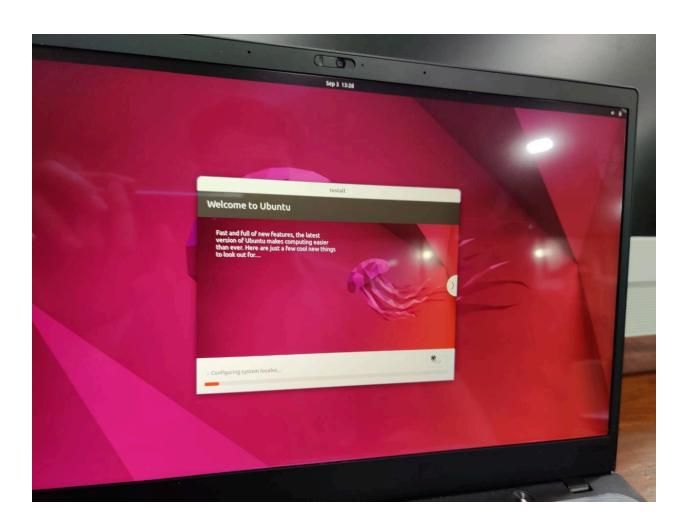


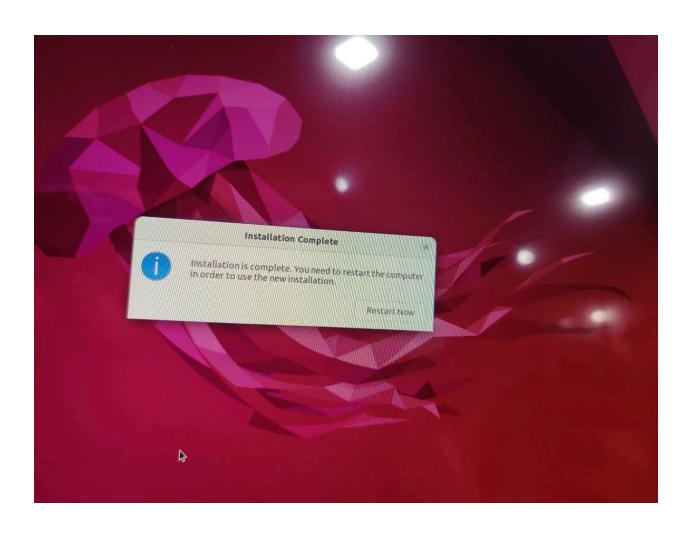


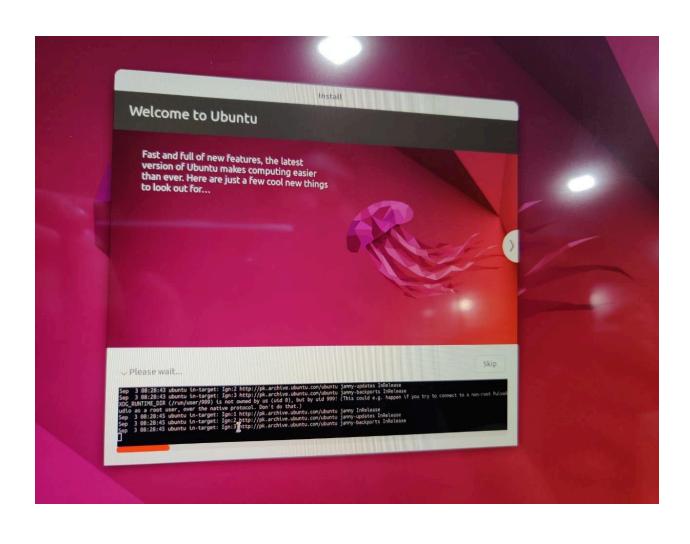


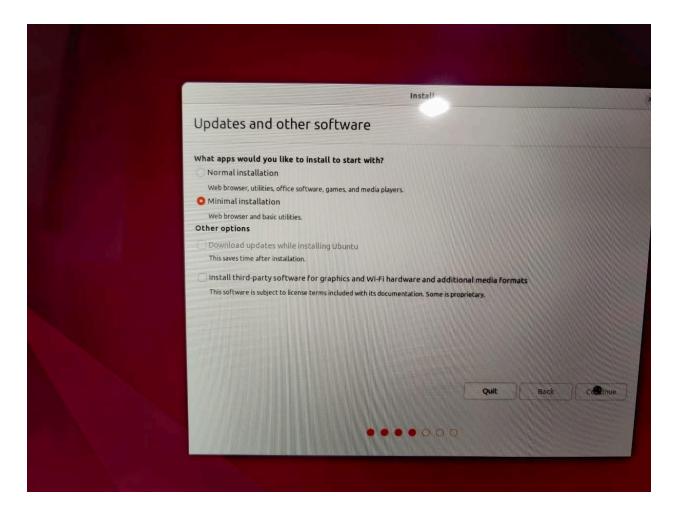


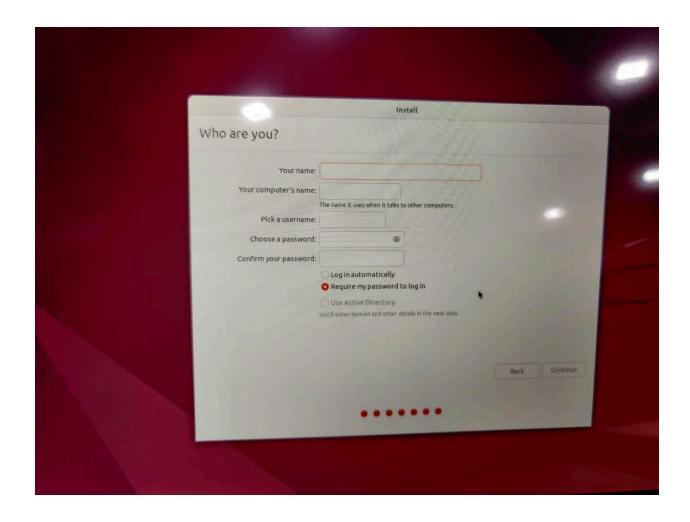












Source: Gpt, chrome browser, and details from Videos.