

Install the Ubuntu

How to install the Ubuntu 22.04

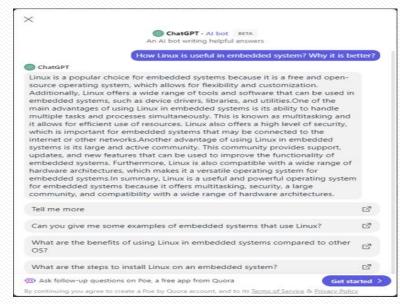
Agenda

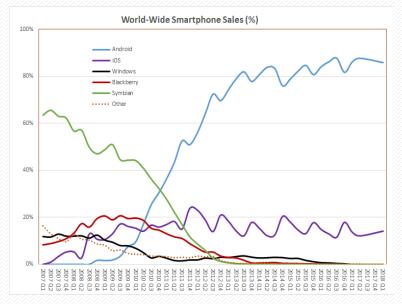
- Why we select the Linux?
- Make the Booting Disk
- Settings for the BIOS
- Install the Ubuntu 22.04

Why we select the Linux?

Linux on Embedded Systems

- Open Source
 - A lot of community
 - A lot of people use it
 - We can change any source code for testing
- Support All
 - SoC(x86, ARM, ...), Device Driver, Library, ...
 - Network with high level of security
 - Multi-tasking
- Based on Unix/Linux Kernel
 - Android, iOS, ...

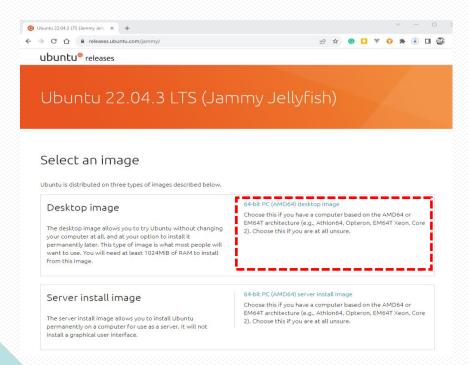


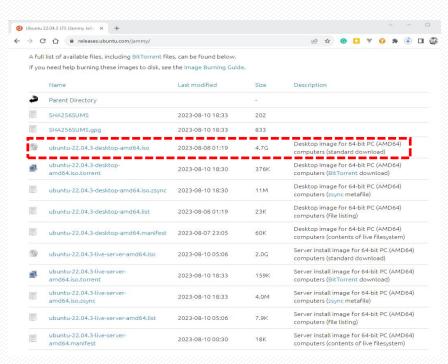


Make the Booting Disk

Download the Ubuntu Image

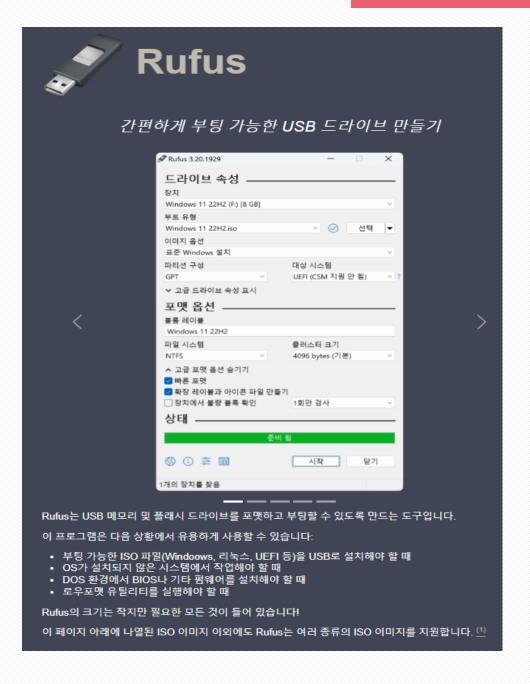
- ISO: International Organization for Standardization
- ISO image: Optical Disc Image (*.iso)
 - The disk image contains everything that would be written to an optical disc, disk sector by disc sector, including the optical disc file system
- Download Link: https://releases.ubuntu.com/jammy/





Download Flash Tool

- Rufus Tool(Windows)
 - https://rufus.ie/ko/
- Download the Rufus and run

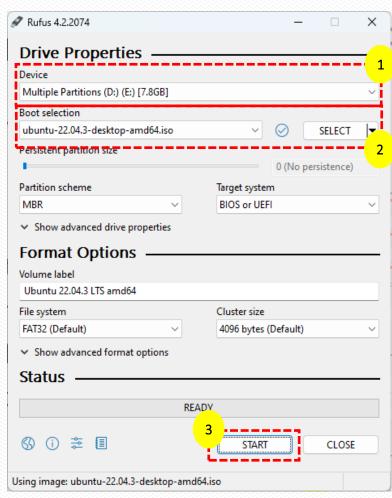


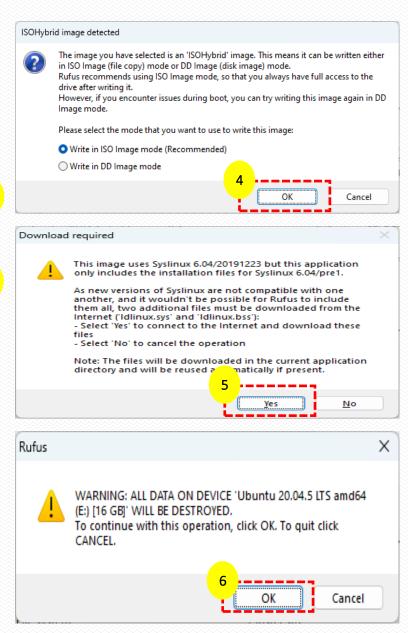
Create the Booting Disk(USB)

1. Select the usb device for booting disk

- 2. Select the iso file
- 3. Start to create booting disk
- 4. Select ISO mode
- 5. Download file
- 6. USB format

Waiting about the 15 mins,,

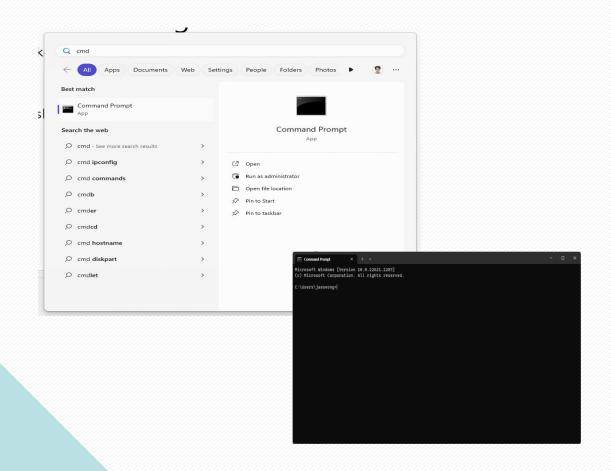




Backup the Network Setting Values



• Input key -> Input "cmd" -> Input ipconfig /all

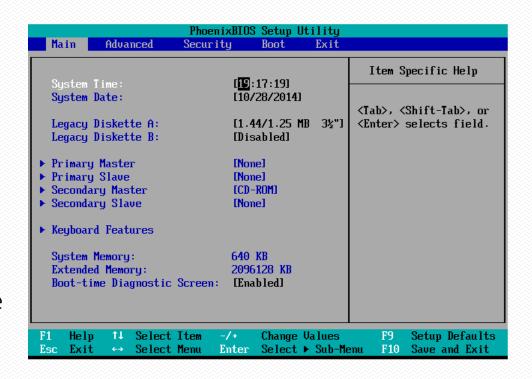


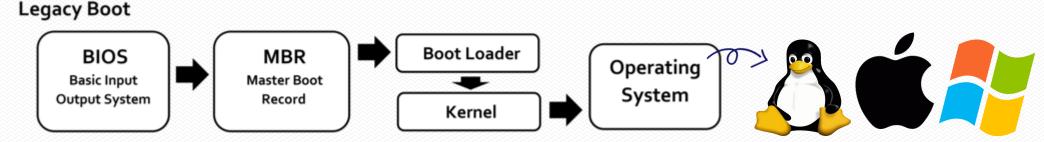
Wireless LAN adapter Wi-Fi:	
Connection-specific DNS Suffix . :	•=
Description :	
Physical Address :	Take a Picture one!
DHCP Enabled	rake a ricture one:
Autoconfiguration Enabled :	
Link-local IPv6 Address :	
IPv4 Address :	
Subnet Mask :	
Lease Obtained :	
Lease Expires :	
Default Gateway :	
DHCP Server	
DHCPv6 IAID :	
DHCPv6 Client DUID :	
DNS Servers :	
NetBIOS over Tcpip :	

Settings for the BIOS

What is the BIOS?

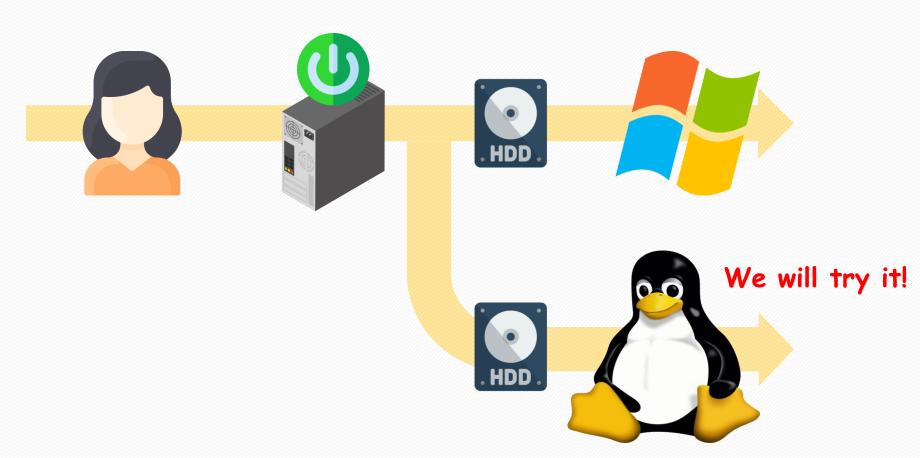
- Basic Input/Output System
- What's BIOS?
 - Firmware used to provide runtime services for OS, programs and to perform hardware initialization during the booting process
- What's Role?
 - PCs initialize and tests the system HW components and loads a boot loader from a mass storage device which then initializes a Kernel





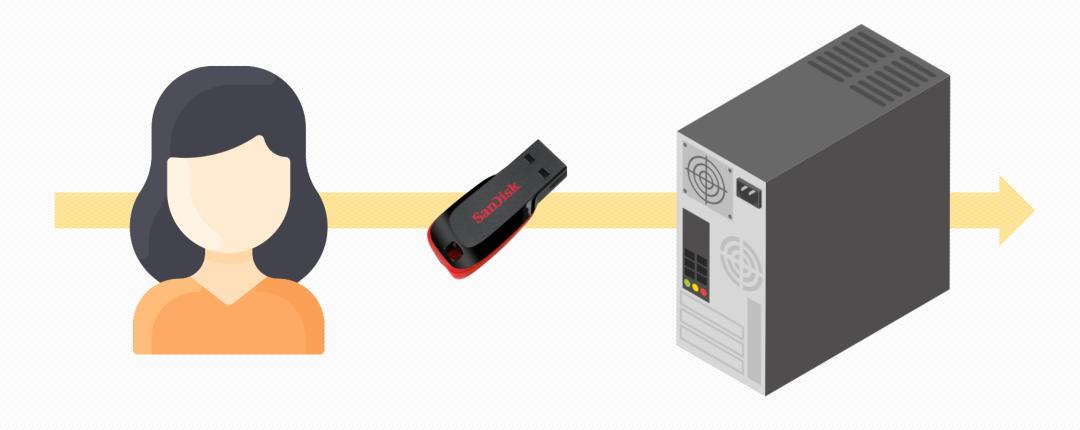
Why Change the BIOS Configuration?

- Try to Multi-Booting
 - Current, the system installed Windows only
 - We will install the Linux(Ubuntu)



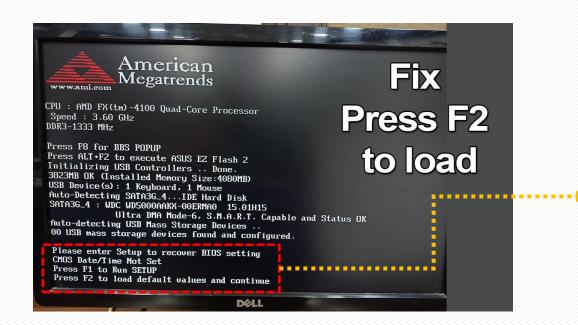
Plug-In the Booting USB

• First, input the USB stick in your Desktop



Issue when Entering the BIOS

• When starting the boot, you should input the "key" for entering the BIOS



Simple, but, not a good access method,,

BIOS Keys by Manufacturer

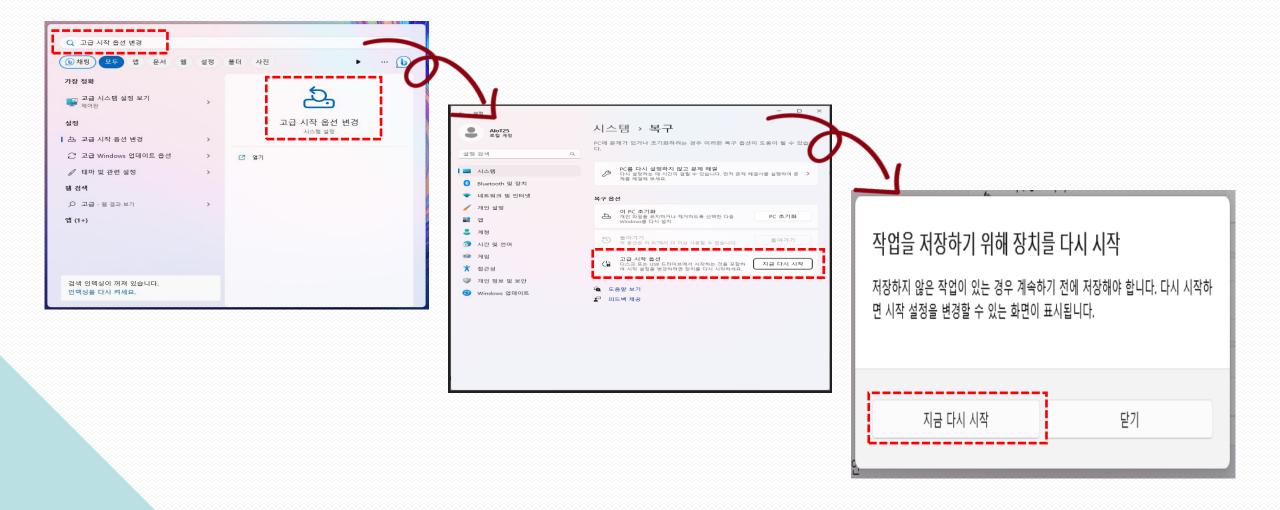
Here's a list of common BIOS keys by brand. Depending on the age of your model, the key may be different.

- ASRock: F2 or DEL
- ASUS: F2 for all PCs, F2 or DEL for Motherboards
- Acer: F2 or DEL
- **Dell:** F2 or F12
- ECS: DEL
- Gigabyte / Aorus: F2 or DEL
- HP: F10
- Lenovo (Consumer Laptops): F2 or Fn + F2
- Lenovo (Desktops): F1
- Lenovo (ThinkPads): Enter then F1.
- MSI: DEL for motherboards and PCs
- Microsoft Surface Tablets: Press and hold volume up button.
- Origin PC: F2
- Samsung: F2
- Toshiba: F2
- Zotac: DEL

Try to Enter to the BIOS

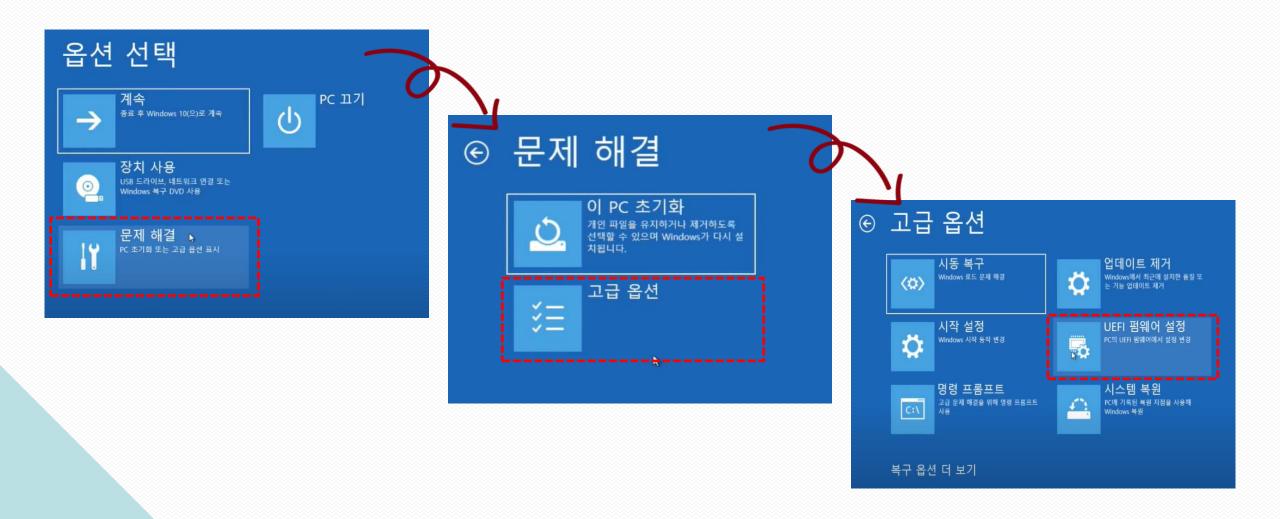


• Input key -> find the "Advanced startup" -> Reboot the system



Try to Enter to the BIOS (cont,)

Click "Troubleshoot" -> "Advanced options" -> "UEFI Firmware Settings"



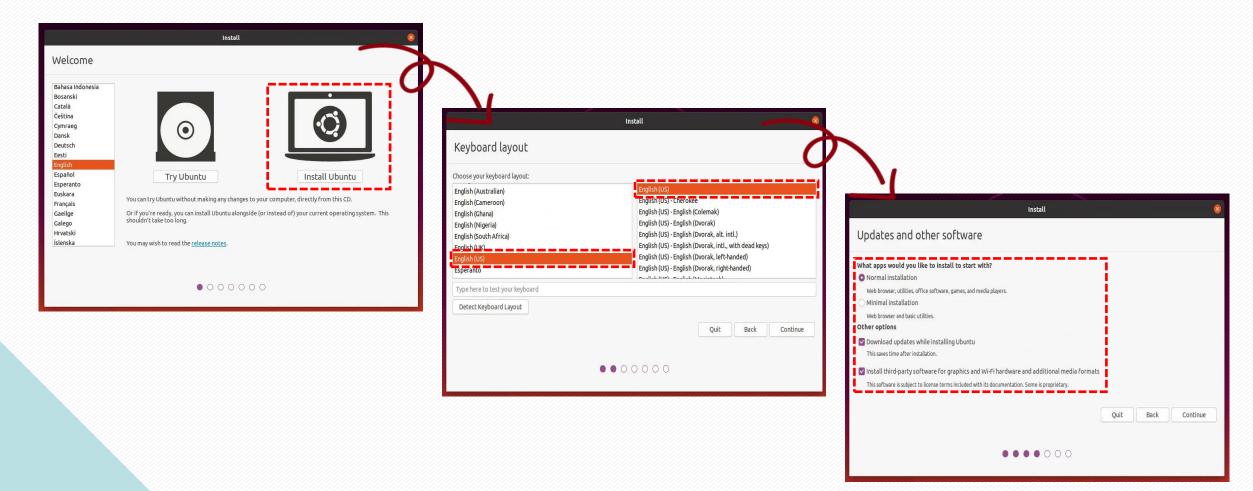
Try to Enter to the BIOS (cont,)

- You can see the BIOS
- Choose the "boot" menu
- Disabled the "Secure Boot"
- Change the boot priority (Put "UEFI: SanDisk" on top)
- Save and exit (F10 key)

Install the Ubuntu

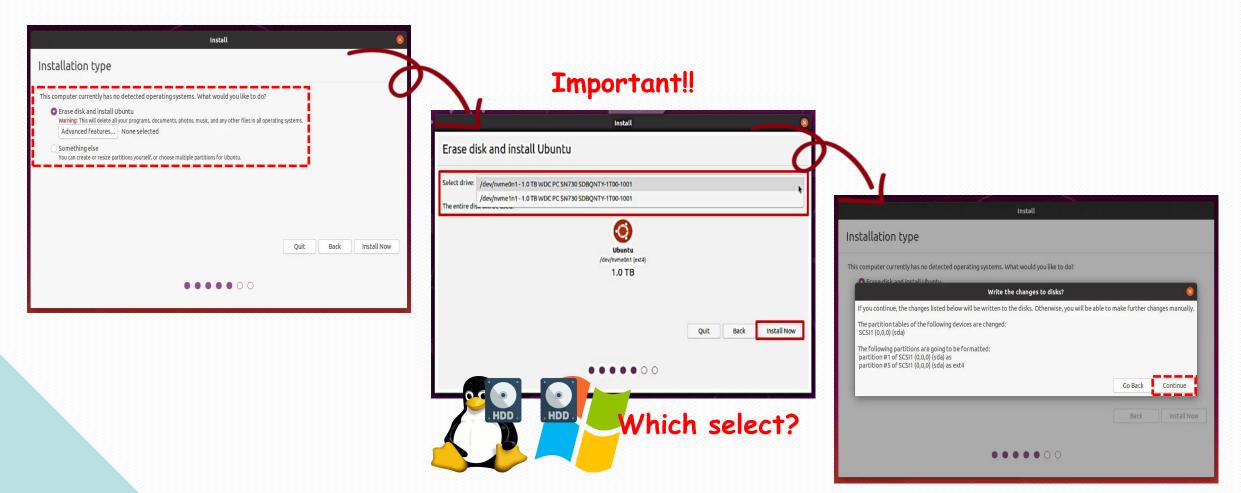
Install the Ubuntu

- Select the default "English" in Keyboard layout
- "Normal Installation" select as the default value also



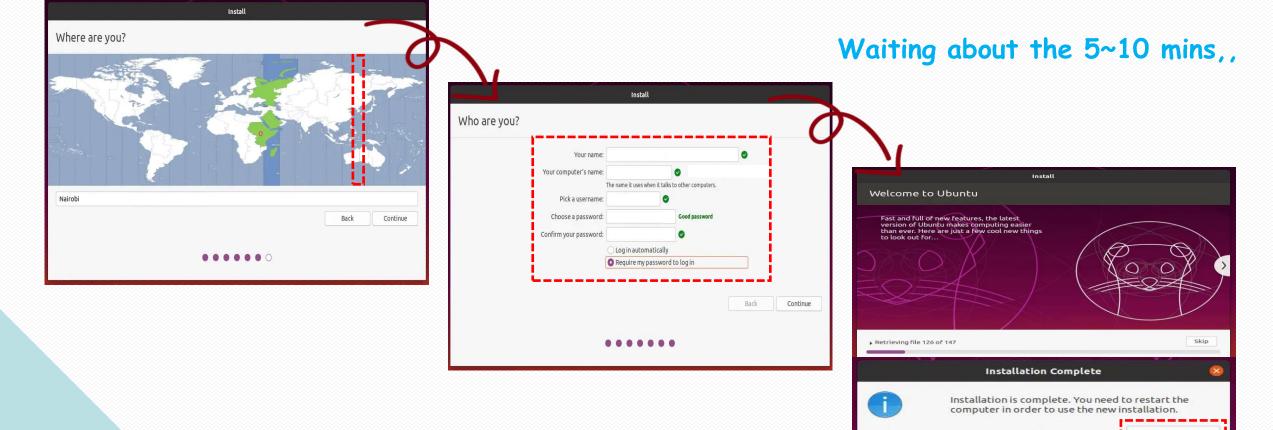
Install the Ubuntu (cont,)

- Select the "Erase disk and install Ubuntu"
- You must check the correct drive that you use for Ubuntu!

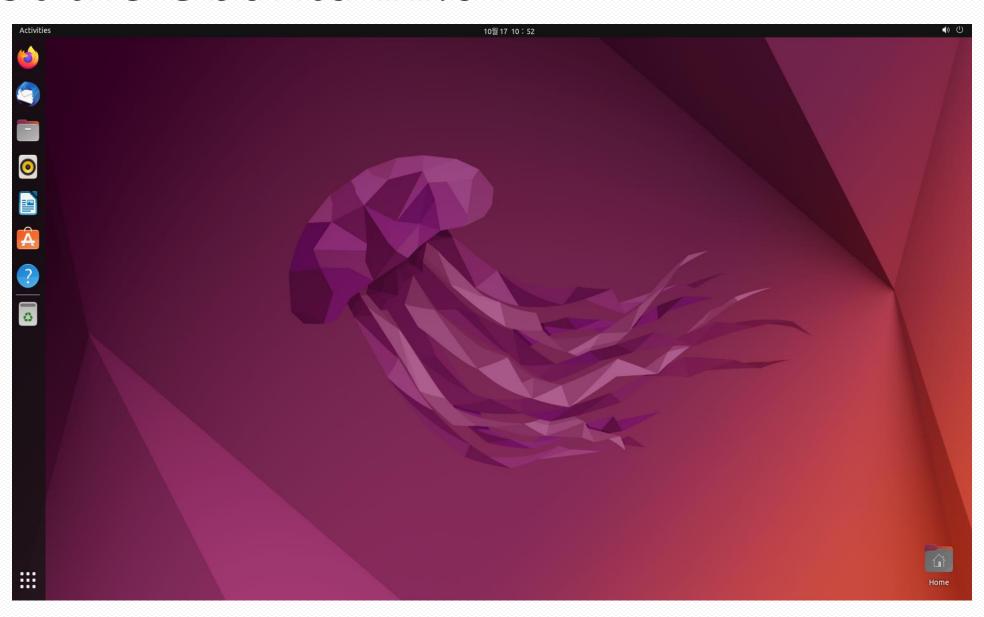


Install the Ubuntu (cont,)

- Select the area to "Seoul"
- Input the name and password for the login



Boot the Ubuntu 22.04





THANK YOU