

Windows11home-ubuntu24.04-dualboot-setup

Requirements for Dual-Boot Setup (Windows 10/11 + Ubuntu 24.04)

1. Operating System:

- Windows 10 or Windows 11 is already installed.

2. Free Space on Windows (Minimum 50 GB):

- You should have at least **50GB of free space** available for Ubuntu installation.
- This space will be used to create a separate partition for Ubuntu during the setup process.

3. Rufus Tool:

- A tool to create a bootable USB drive for installing Ubuntu.
- Download from <https://rufus.ie/en/>.

4. USB Drive (Minimum 15GB):

- A USB flash drive with at least **15GB** of free space.
- This will be used to create the bootable media for the Ubuntu installation.

5. Ubuntu 24.04 ISO File:

- Download the **Ubuntu 24.04 LTS ISO** from ubuntu.com.
- Ensure the ISO is compatible with your system (either 64-bit).

6. Disk Partitioning in Windows:

- Use the **Disk Management** tool in Windows to shrink an existing partition and allocate space for Ubuntu (at least 50GB recommended).
- This space will be used for Ubuntu's root partition and optionally **/home** and **swap** partitions.

7. Storage Allocation for Ubuntu:

- Allocate at least **25-30 GB** for the root partition.
- Optionally, create a **/home** partition to store personal files and settings separately.
- Allocate **swap space** (optional but recommended, especially for systems with less RAM).

Requirements Recap:

- Windows 10/11 home or pro already installed.
- 50GB of free space on your Windows hard drive.
- Rufus to create a bootable USB drive ([Download Rufus](#)).
- USB drive (15GB+).
- Ubuntu 24.04 ISO file ([Download Ubuntu 24.04](#)).
- Disk Management to partition the Windows drive.
- At least 25-30GB allocated for Ubuntu.
- System restore point
- BitLocker encryption is disabled

Note: -

- **Windows 10 or Windows 11 Home** editions do not support BitLocker

1. Enabling or Disabling BitLocker on Windows 10/11 pro versions

Steps to Disable BitLocker:

- **BitLocker** is a full-disk encryption feature that helps protect your data by encrypting your entire drive
- To enable or disable BitLocker, you must have **Windows 10 Pro, Windows 11 Pro**, or higher editions (Enterprise, Education).
- Press Windows Key + S and type **Control Panel**, then select it.
- In Control Panel, select **System and Security**.
- Click on **BitLocker Drive Encryption**
- Find the drive where BitLocker is enabled (likely your C: drive).
- Click **Turn off BitLocker** next to the drive.

2. System Restore Point

A System Restore Point is a snapshot of your system's state at a specific point in time. It allows you to revert your computer's system files, settings, and installed applications to a previous state without affecting your personal files. Here are the key aspects:

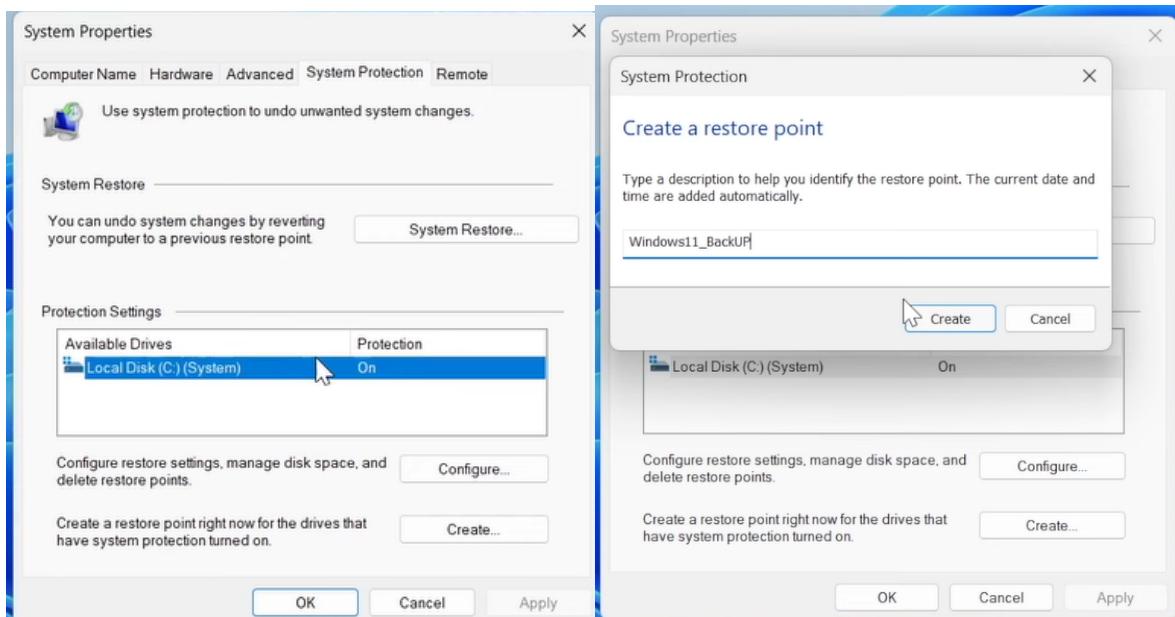
Creating a Restore Point:

- Press Windows Key + S and type Create a restore point.
- Click on it to open the System Properties window.

- Under the System Protection tab, select the drive (usually C:) and click Configure to enable protection
- After that, click Create to manually create a restore point.

Restoring from a Restore Point: (If in case anything happen just restore)

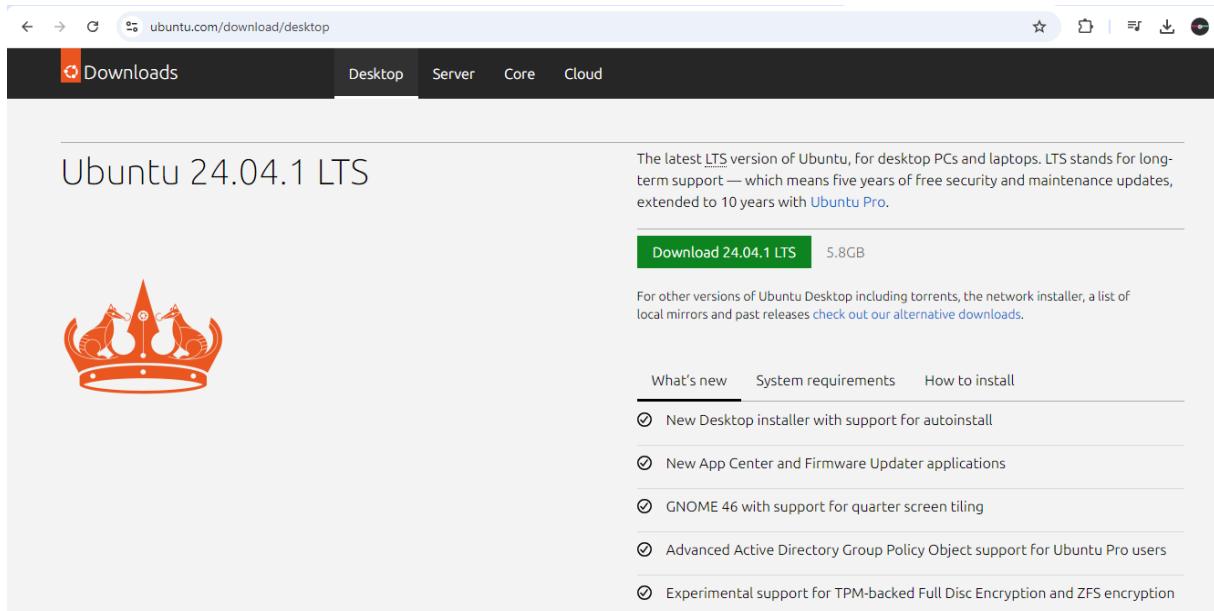
- Open Create a restore point as above
- Click the System Restore button.
- Follow the prompts to choose a restore point and begin the restoration process.



Step-by-Step Guide to Setup Dual-Boot Windows and Ubuntu 24.04

1. Prepare the Ubuntu Bootable USB Drive

- Download Ubuntu 24.04 ISO from [Ubuntu website](#).
- Insert the USB drive (15GB+) into your Windows system.



2. Download and open Rufus:

- Select your USB drive
- Choose the Ubuntu 24.04 ISO in the “Boot selection” field.
- Select GPT under partition scheme if your Windows is installed in UEFI mode, and MBR for legacy BIOS.
- Click Start to create the bootable USB.

rufus.ie/en/

memory sticks, etc.

It can be especially useful for cases where:

- you need to create USB installation media from bootable ISOs (Windows, Linux, UEFI, etc.)
- you need to work on a system that doesn't have an OS installed
- you need to flash a BIOS or other firmware from DOS
- you want to run a low-level utility

Despite its small size, Rufus provides everything you need!

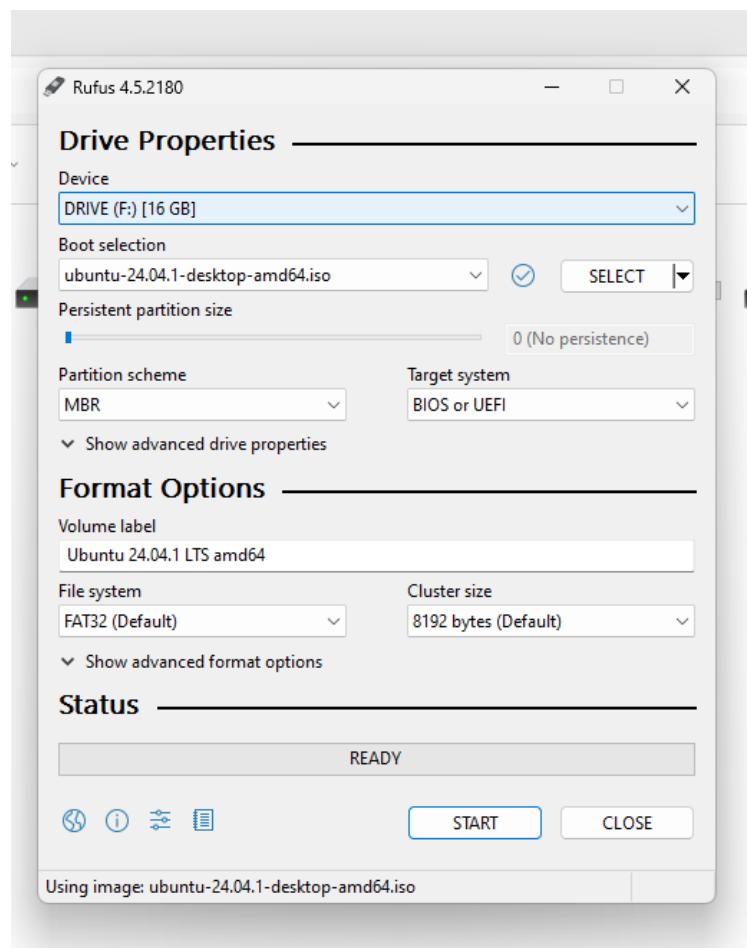
A non exhaustive list of Rufus supported ISOs is also provided at the bottom of this page. [\(1\)](#)

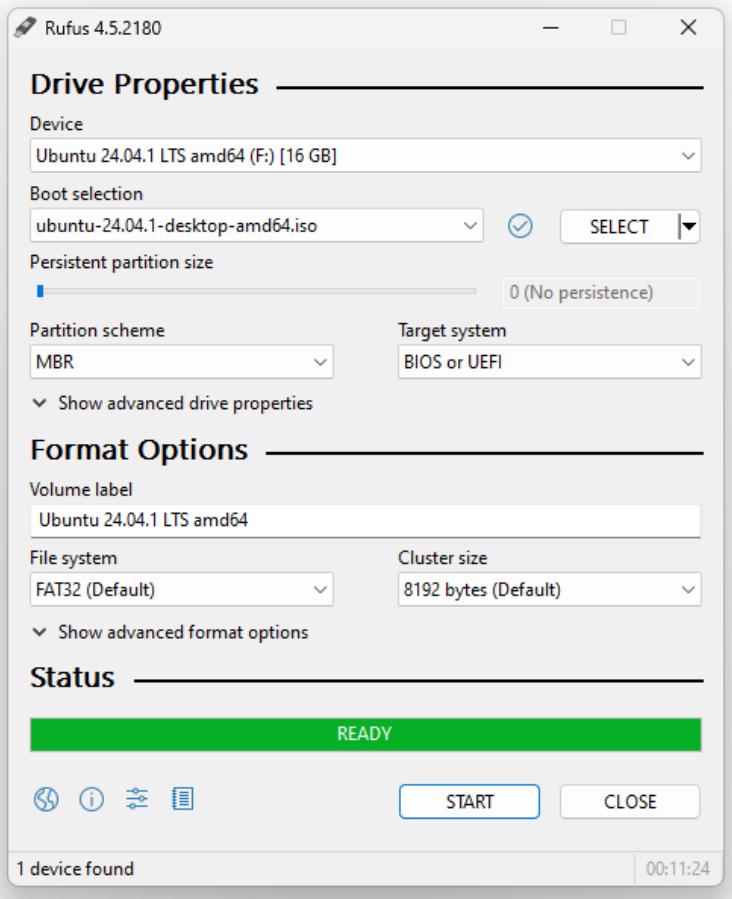
Download

Latest releases:

Link	Type	Platform	Size	Date
rufus-4.5.exe	Standard	Windows x64	1.4 MB	2024.05.22
rufus-4.5p.exe	Portable	Windows x64	1.4 MB	2024.05.22
rufus-4.5_x86.exe	Standard	Windows x86	1.5 MB	2024.05.22
rufus-4.5_arm64.exe	Standard	Windows ARM64	4.8 MB	2024.05.22

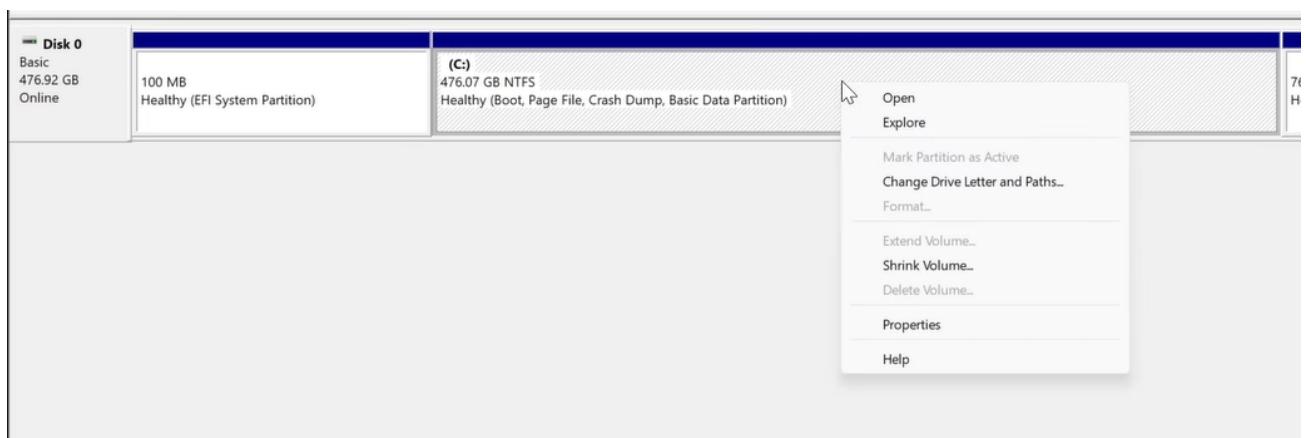
[Other versions \(GitHub\)](#)
[Other versions \(FossHub\)](#)

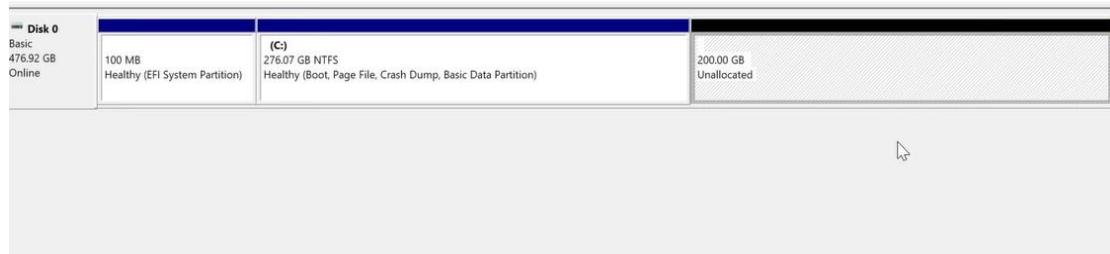




3. Free Up Disk Space in Windows (At Least 50GB)

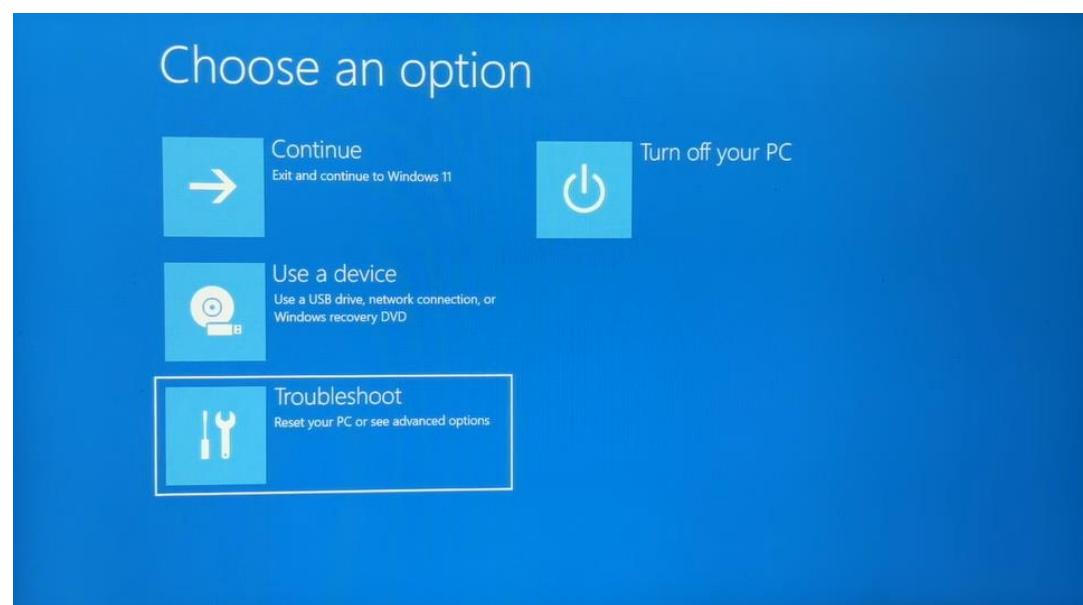
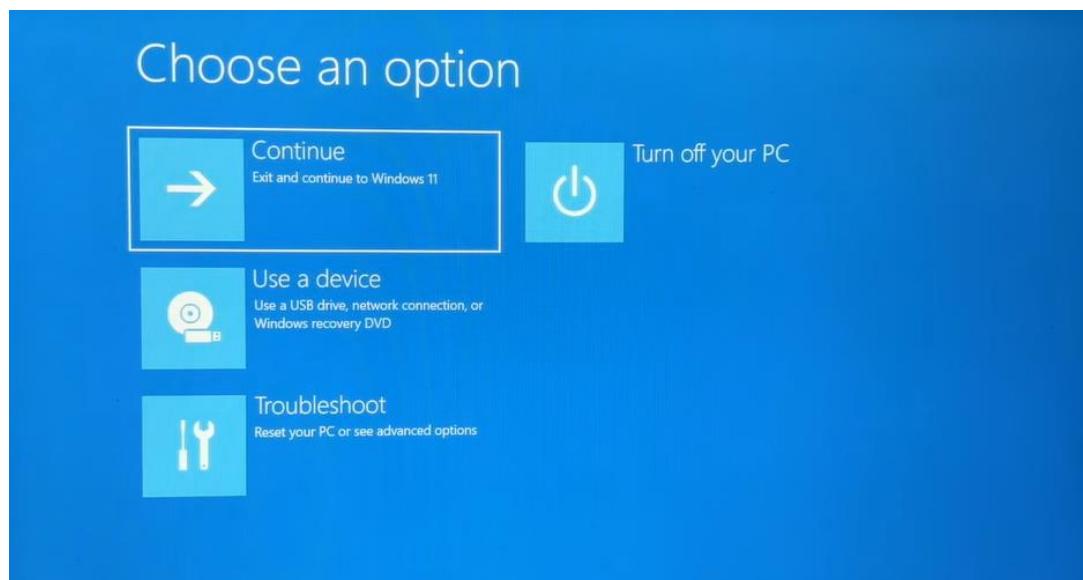
- Open Disk Management on Windows:
- Press Windows + X and select Disk Management
- Locate your main hard drive (usually C:).
- Right-click and select Shrink Volume.
- Shrink the volume by 50GB or more. This will create unallocated space which you will use for Ubuntu.

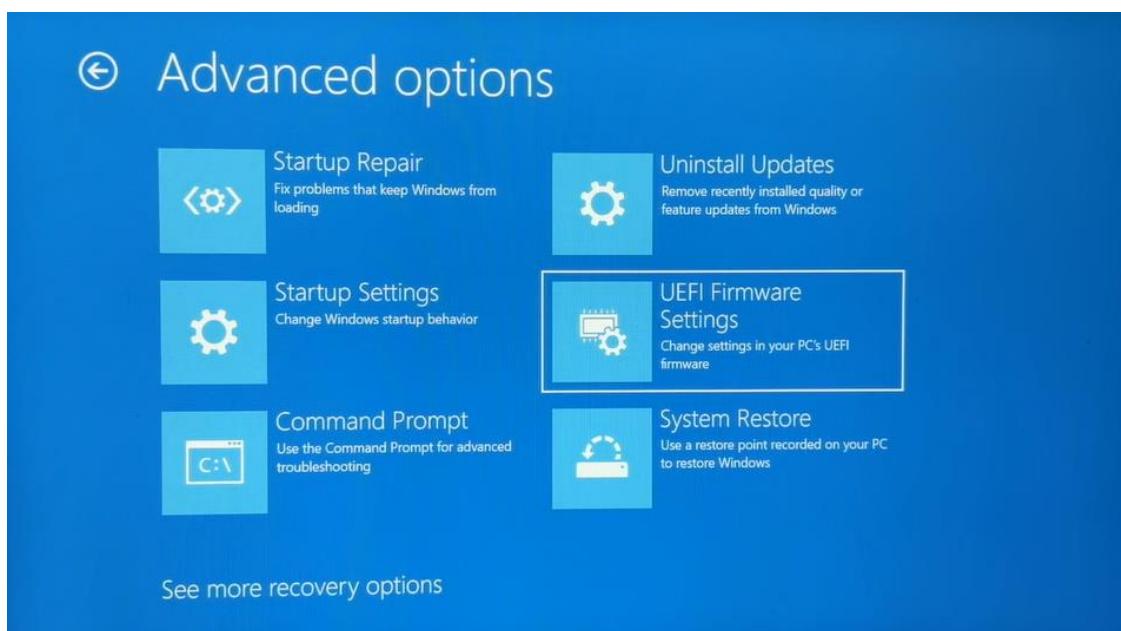




4. Boot From the USB Drive

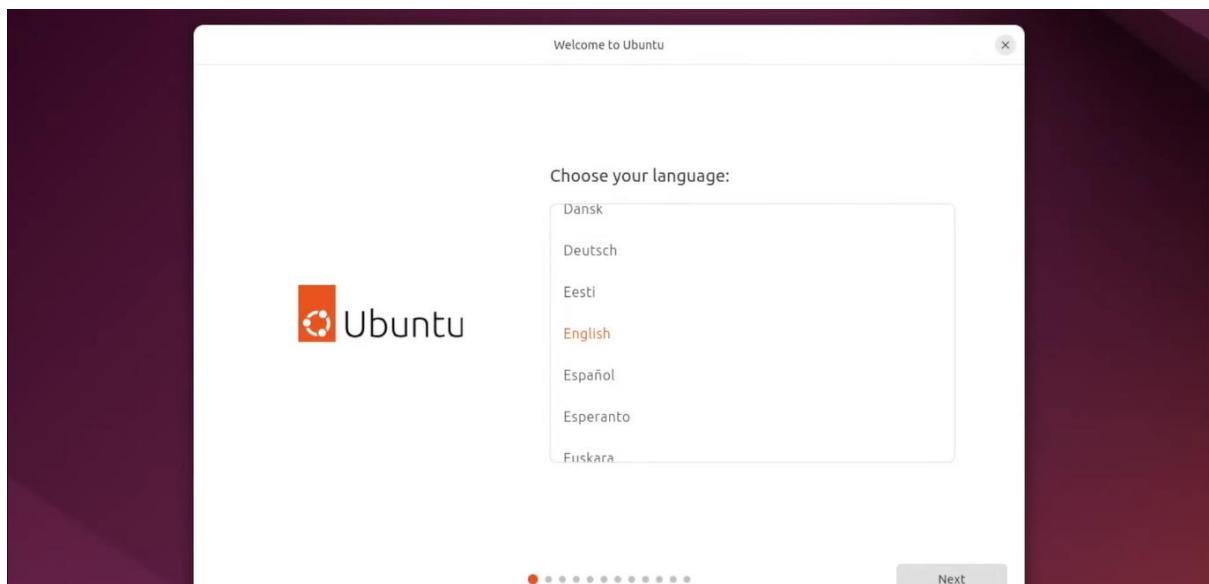
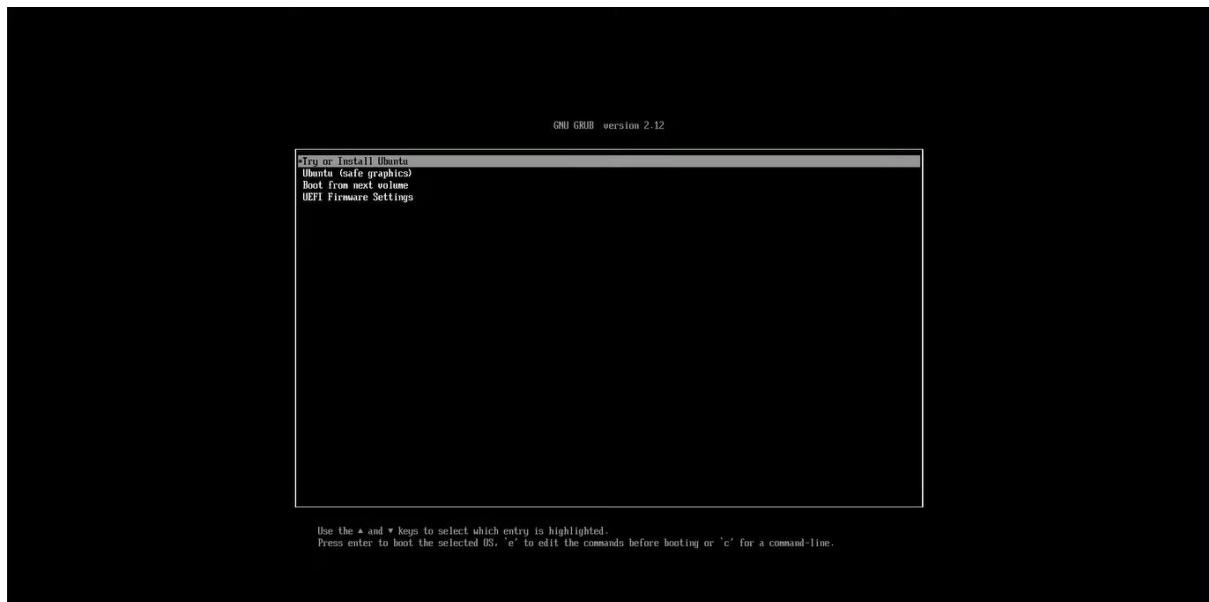
- Restart your computer and enter the BIOS/UEFI (usually by pressing keys like F2, F10, f12 Esc, or Del during startup).
- Change the boot order to boot from the USB drive.
- Save and exit the BIOS/UEFI. Your computer should now boot from the USB drive.

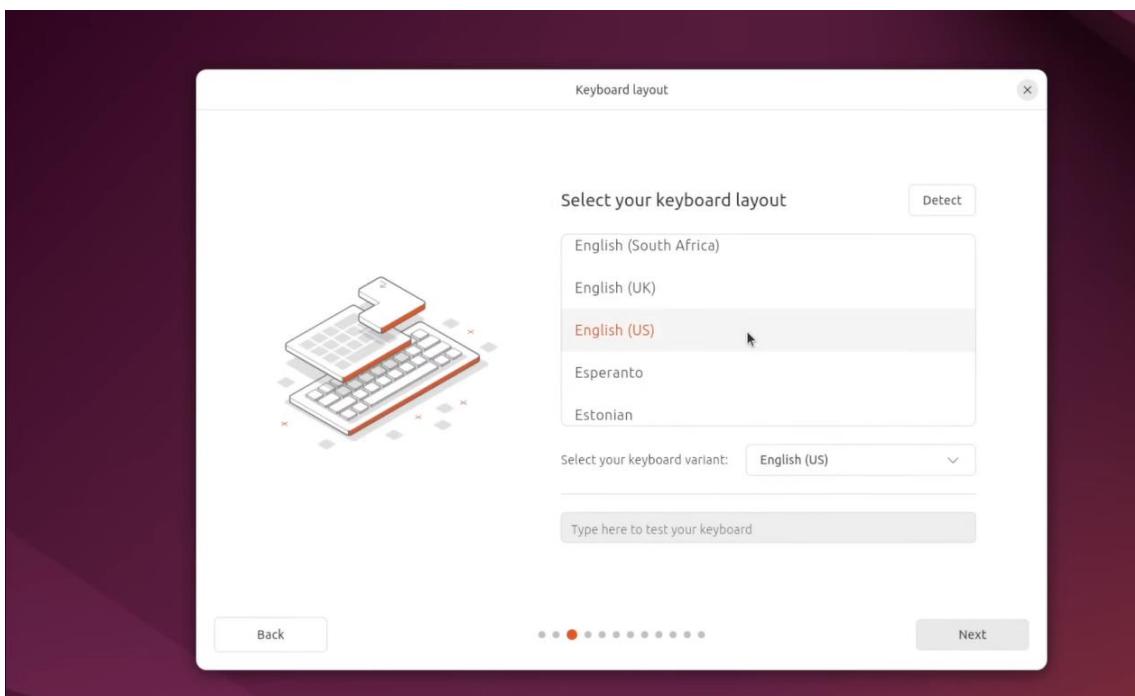
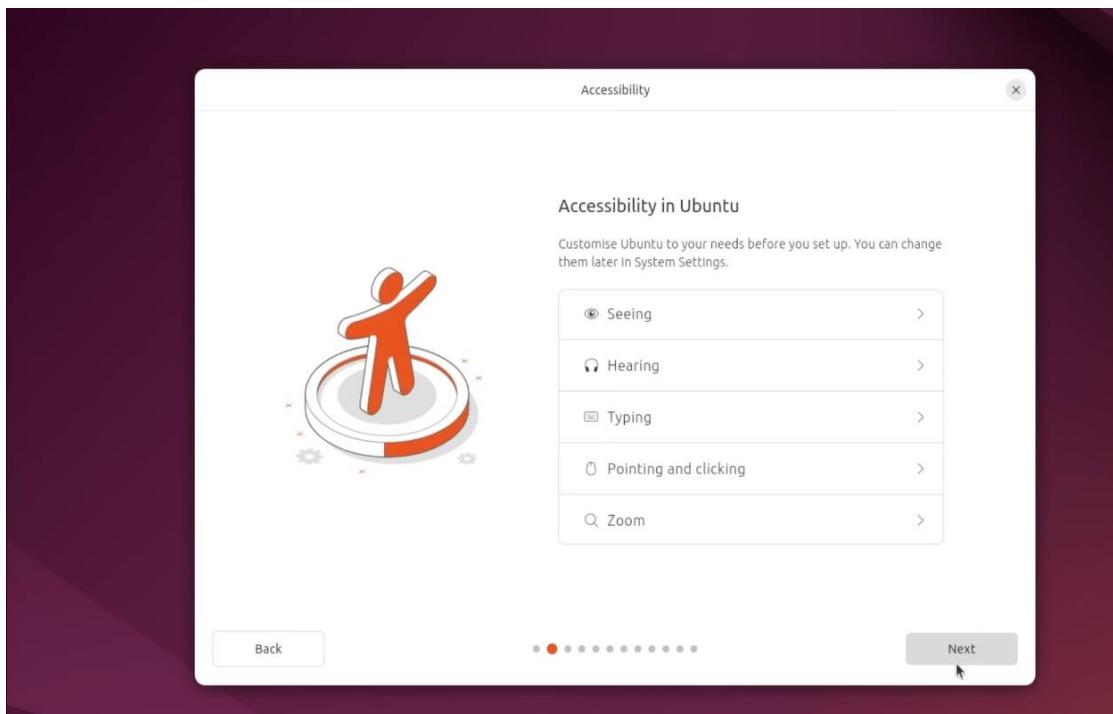


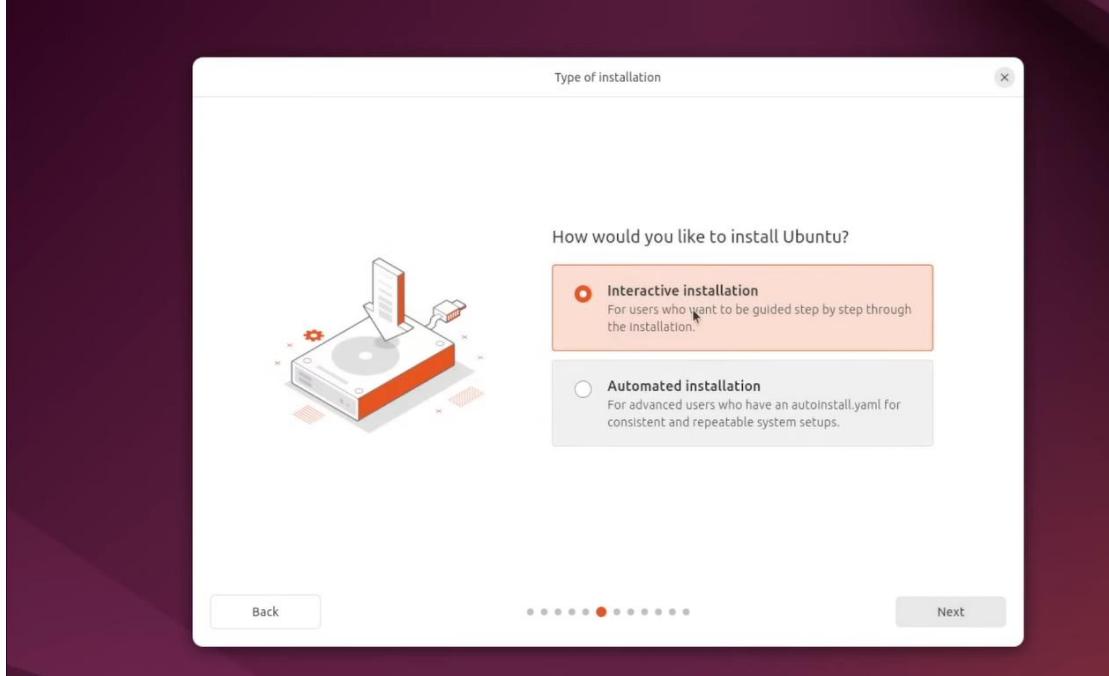
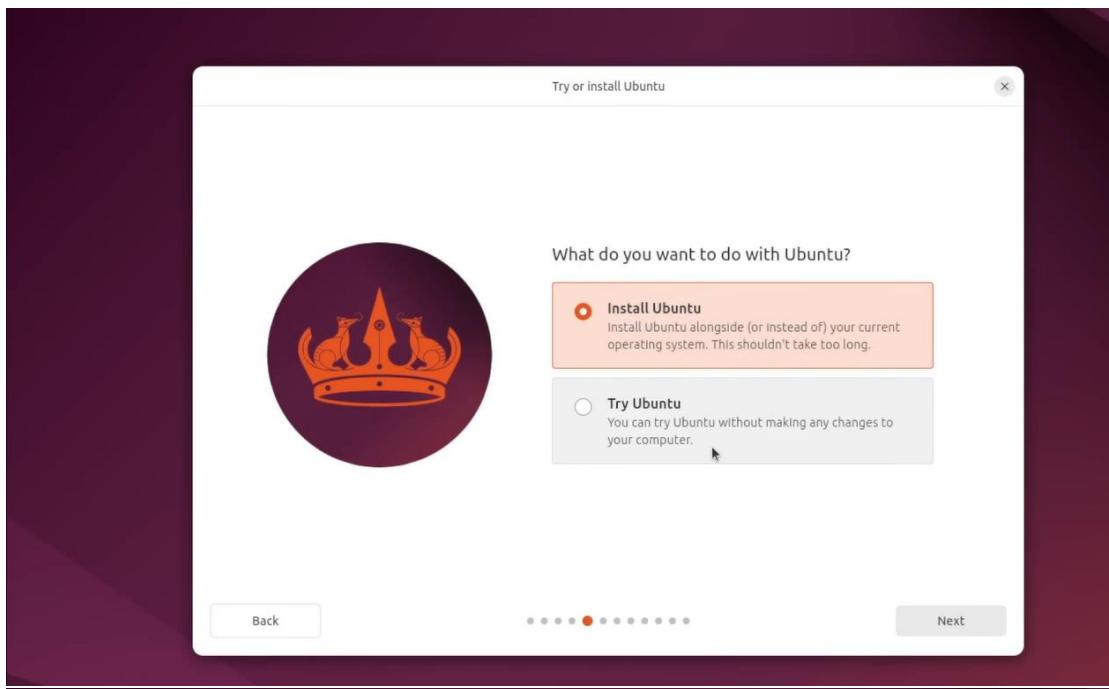


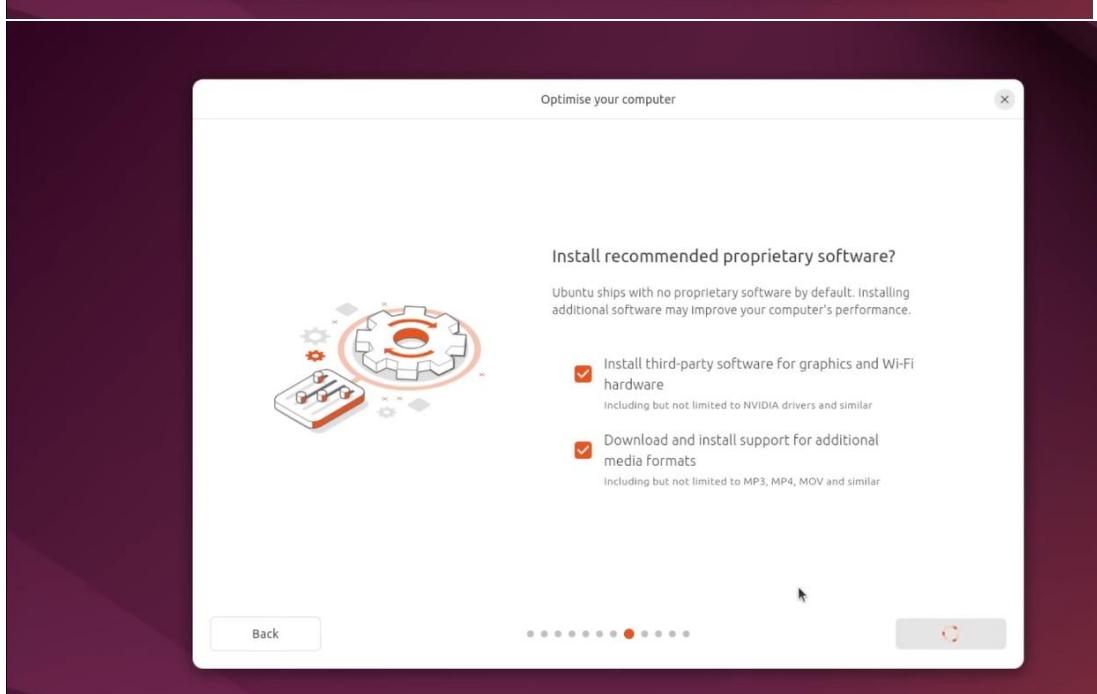
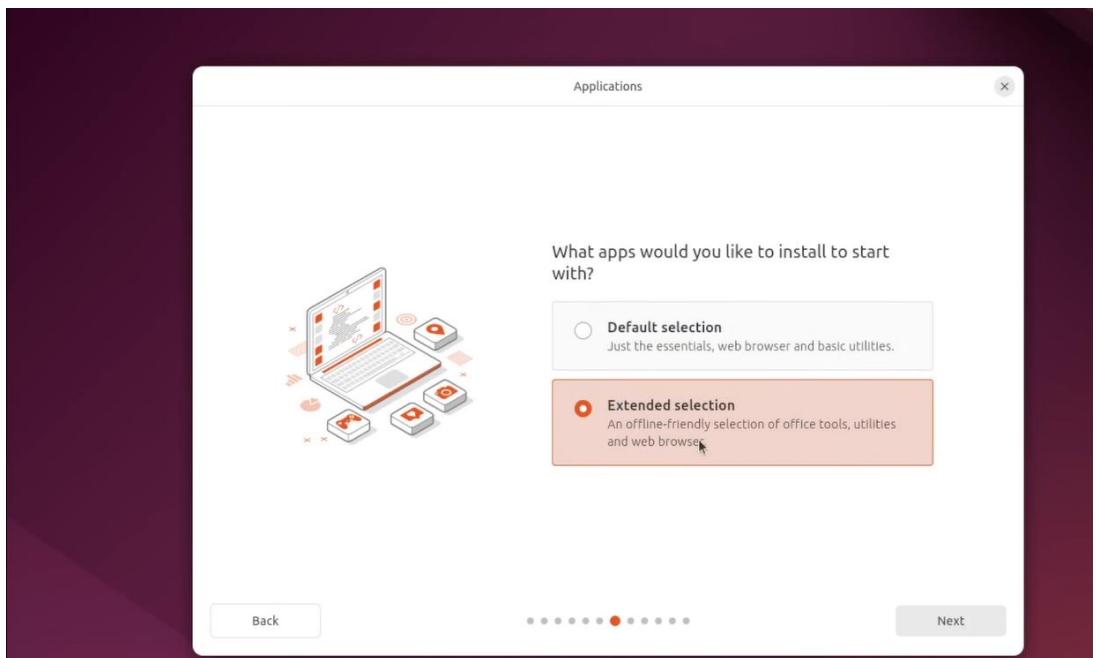
5. Choose Installation Type

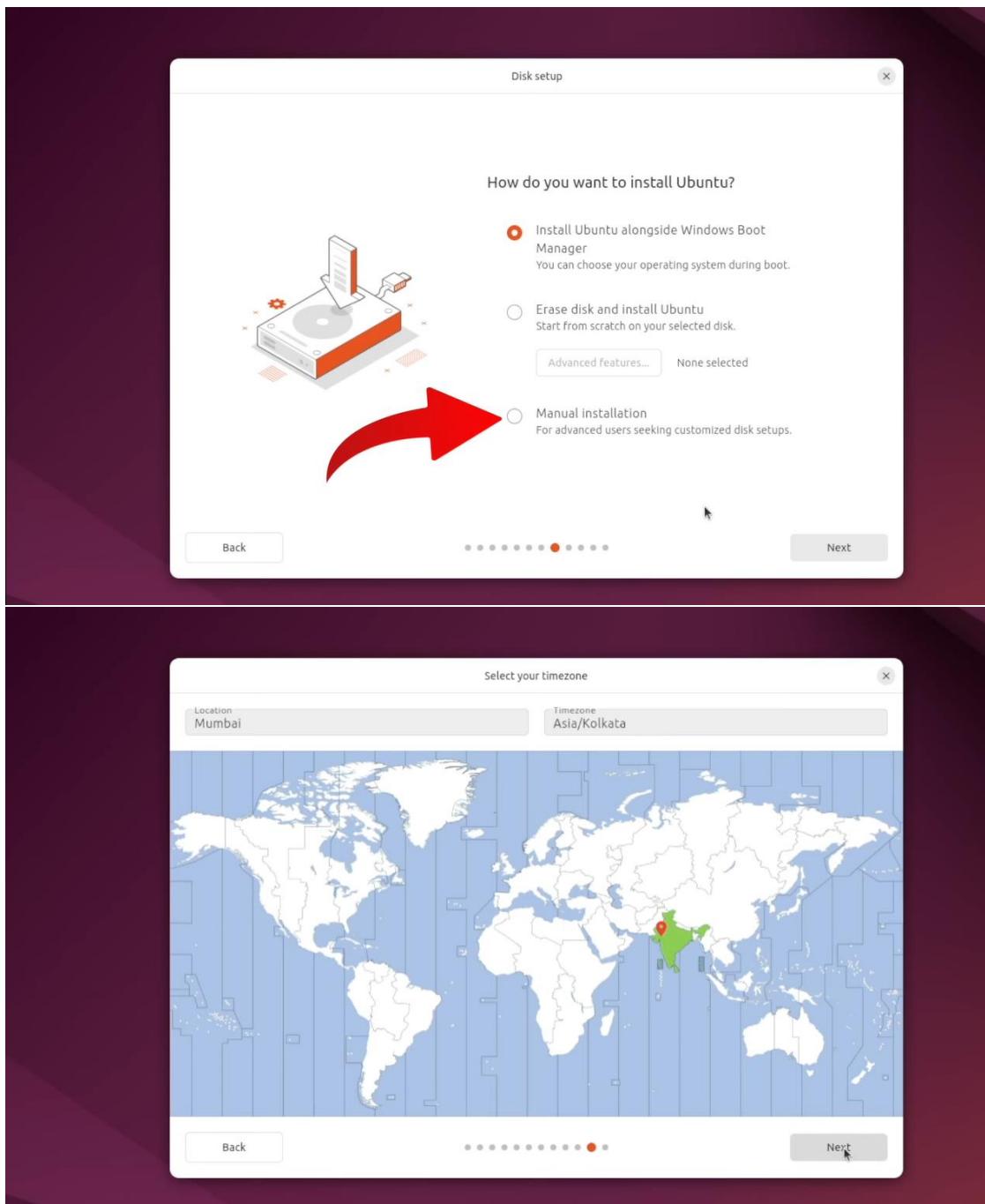
- During the installation, select “Install Ubuntu”











The image consists of two screenshots from the Ubuntu installer. The top screenshot shows the 'Disk setup' window with the title 'How do you want to install Ubuntu?'. It features three options: 'Install Ubuntu alongside Windows Boot Manager' (selected), 'Erase disk and install Ubuntu', and 'Manual installation'. A red arrow points to the 'Install Ubuntu alongside Windows Boot Manager' option. The bottom screenshot shows the 'Select your timezone' window with the title 'Select your timezone'. It displays a world map with a green dot over India, indicating the selected location 'Mumbai' and timezone 'Asia/Kolkata'. Both windows have 'Back' and 'Next' buttons at the bottom.

Disk setup

How do you want to install Ubuntu?

- Install Ubuntu alongside Windows Boot Manager
You can choose your operating system during boot.
- Erase disk and install Ubuntu
Start from scratch on your selected disk.
- Manual installation
For advanced users seeking customized disk setups.

Advanced features... None selected

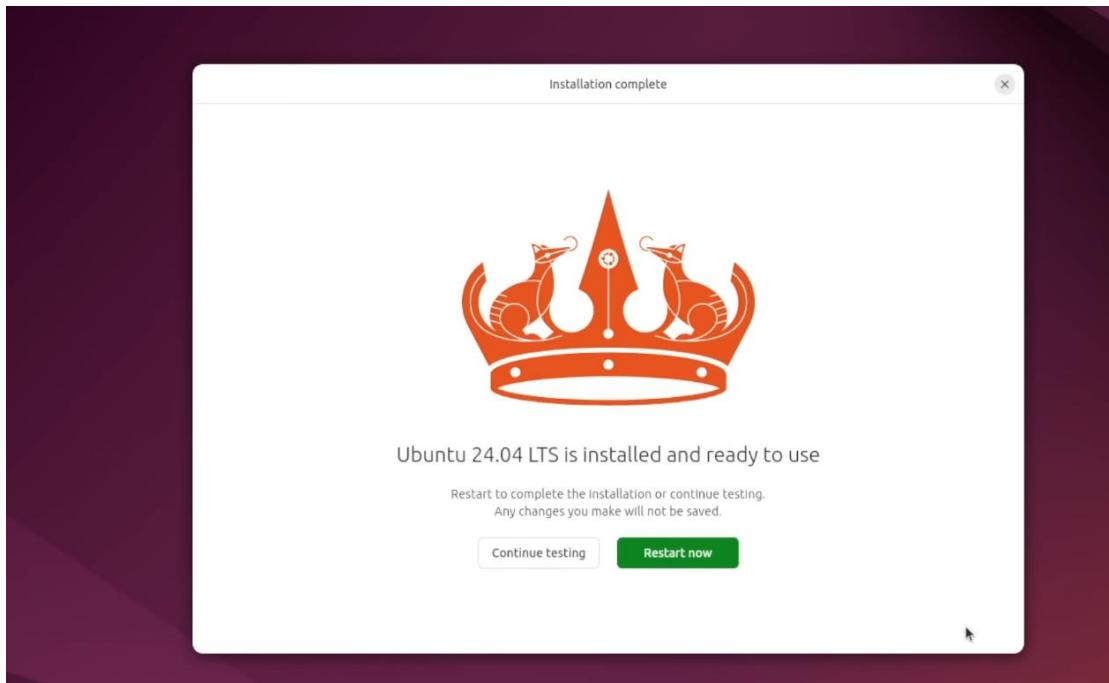
Back Next

Select your timezone

Location Mumbai

Timezone Asia/Kolkata

Back Next



6. Final Adjustments

- You can customize your system after installation
- Update Ubuntu by opening a terminal and typing
 - sudo apt update
 - sudo apt upgrade
 - lsb_release -a
 - sudo apt dist-upgrade
 - sudo apt install build-essential git curl wget
 - sudo ubuntu-drivers autoinstall
 - sudo apt install vlc
 - sudo apt install gimp
 - sudo apt install libreoffice
 - sudo snap install --classic code
 - sudo apt autoremove
 - sudo apt autoclean
 - sudo ufw enable
 - sudo ufw status
 - sudo ufw allow ssh
 - uname -a
 - df -h
 - sudo apt install openssh-server
 - sudo systemctl status ssh
 - sudo apt install zip unzip
 - sudo apt install curl

- sudo apt install wget
- sudo apt install git

A screenshot of a terminal window titled 'cair@localhost: ~'. The window shows the output of the command 'cat /etc/os-release'. The output details the operating system's name, version, ID, and URLs.

```
Mahesh@localhost:~$ cat /etc/os-release
PRETTY_NAME="Ubuntu 24.04.1 LTS"
NAME="Ubuntu"
VERSION_ID="24.04"
VERSION="24.04.1 LTS (Noble Numbat)"
VERSION_CODENAME=noble
ID=ubuntu
ID_LIKE=debian
HOME_URL="https://www.ubuntu.com/"
SUPPORT_URL="https://help.ubuntu.com/"
BUG_REPORT_URL="https://bugs.launchpad.net/ubuntu/"
PRIVACY_POLICY_URL="https://www.ubuntu.com/legal/terms-and-policies/privacy-policy"
UBUNTU_CODENAME=noble
LOGO=ubuntu-logo
Mahesh@localhost:~$
```

😊 For any questions, feel free to reach out on LinkedIn: [Mahesh Babu](#)