

Module 1: Introduction to Ubuntu

1.1 What is Ubuntu?

Ubuntu is one of the most popular Linux distributions, based on Debian. It is maintained by Canonical and is well-known for its ease of use, regular updates, and strong community support.

1.2 Key Features

- Based on Debian
- GNOME desktop environment by default
- Large software repository
- Long-Term Support (LTS) releases
- Extensive community and documentation

1.3 Homepage and Downloads

- Homepage: <https://ubuntu.com>
 - Download ISO: <https://ubuntu.com/download/desktop>
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Module 2: System Requirements

2.1 Minimum Requirements

- CPU: 2 GHz dual-core processor or better
 - RAM: 4 GB (8 GB recommended)
 - Storage: 25 GB free space
 - Internet connection for updates and downloads
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Module 3: Preparing for Installation

3.1 Backup Your Data

Back up all important data before installation, especially when dual-booting.

3.2 Download the ISO File

Choose the LTS version for stability and long-term support.

3.3 Create Bootable USB

- **Windows:** Use Rufus
- **Linux/macOS:**

```
sudo dd if=ubuntu-*.iso of=/dev/sdX bs=4M status=progress && sync
```

3.4 BIOS/UEFI Settings

- Disable Secure Boot (if necessary)
- Enable UEFI or Legacy mode as needed
- Set USB as the primary boot device

Module 4: Installation Process

4.1 Boot into USB

- Insert bootable USB and boot into the Ubuntu Live environment
- Select "Try Ubuntu" to test, or "Install Ubuntu" to begin setup

4.2 Select Language and Region

Choose the appropriate language and keyboard layout

4.3 Connect to Network

Optional but recommended for downloading updates during installation

4.4 Installation Type

- **Erase disk and install Ubuntu** (fresh install)
- **Install alongside existing OS** (dual boot)
- **Manual (Something Else)** (for advanced users)

Recommended Partitions:

- EFI (FAT32, 300MB, /boot/efi)
- root (/): 30 GB+, ext4

- swap: Equal to RAM or use swapfile
- home (/home): Remaining space

4.5 User Configuration

- Set username, password, and computer name
- Choose to log in automatically or require a password

4.6 Final Setup

- Review all settings
- Click Install
- Wait 10-15 minutes

4.7 Reboot System

Remove USB when prompted and boot into Ubuntu

Module 5: First Boot and Updates

5.1 Login

Enter your password and log in to your Ubuntu desktop

5.2 Run System Updates

```
sudo apt update && sudo apt upgrade
```

5.3 Install Additional Drivers

Go to Software & Updates → Additional Drivers

5.4 Install Snap and Flatpak (Optional)

```
sudo apt install snapd  
sudo apt install flatpak
```

Module 6: Essential Applications

6.1 Software Center

Use Ubuntu Software Center to install apps like:

- Firefox
- VLC
- GIMP
- LibreOffice

6.2 Terminal Installation

```
sudo apt install gnome-tweaks neofetch htop curl
```

Module 7: Best Usage Scenarios

7.1 Beginners

- Great UI, simple navigation, safe default environment

7.2 Students and Office Work

- Pre-installed office suite, browser, PDF viewer

7.3 Developers

- Install VS Code, Docker, Git
- Access to huge package repositories

7.4 Media and Creativity

- Install tools like Kdenlive, Audacity, Blender

Module 8: Maintenance & Tips

8.1 Keep System Updated

```
sudo apt update && sudo apt full-upgrade
```

8.2 Enable Firewall

```
sudo ufw enable
```

8.3 Use Timeshift for Backups

```
sudo apt install timeshift
```

8.4 Clean Up Unused Packages

```
sudo apt autoremove && sudo apt clean
```

Course Completion

You've now mastered:

- Installing Ubuntu from scratch
- Post-installation essentials
- Practical usage and maintenance



Download Ubuntu: <https://ubuntu.com/download/desktop>



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