🐧 **Linux** Setup Guide for Students Using **VirtualBox**

This guide helps you install and set up a Linux virtual machine using **Oracle VirtualBox** — all free and beginner-friendly.

**Prerequisites**

* What You Need:
* A computer with at least:
* 4 GB RAM (8 GB recommended)
* 25 GB free disk space
* A stable internet connection
* Admin rights on your computer

**Step 1: Download Required Software**

1.1 Download **VirtualBox**

- Visit: https://www.virtualbox.org/wiki/Downloads

- Select the version for your operating system (Windows / macOS / Linux)

- Install VirtualBox using the default settings

1.2 Download **Ubuntu ISO**

- Visit: https://ubuntu.com/download/desktop

- Download the Ubuntu Desktop (LTS) ISO (e.g., Ubuntu 22.04 LTS)

**Step 2: Create a Virtual Machine**

1. Open VirtualBox

2. Click "New"

3. Fill in the details:

- Name: `Ubuntu-StudentVM`

- Type: `Linux`

- Version: `Ubuntu (64-bit)`

4. Click Next

**Step 3: Configure the VM**

Memory

- Allocate 2048 MB (2 GB) or more of RAM

Hard Disk

- Choose: Create a virtual hard disk now

- File type: VDI

- Storage: Dynamically allocated

- Size: 25 GB (minimum)

**Step 4: Load the Ubuntu ISO**

1. Select the VM from the list and click Settings

2. Go to Storage

3. Under Controller: IDE, click the Empty disk icon

4. On the right, click the CD icon > Choose a disk file

5. Select the Ubuntu ISO you downloaded

**Step 5: Start and Install Ubuntu**

1. Click Start

2. Ubuntu will boot from the ISO

3. Select:

- Install Ubuntu

- Use Normal installation

- Select Erase disk and install Ubuntu \*(affects only the virtual disk)\*

4. Follow on-screen instructions:

- Choose time zone

- Create a username and password

5. After installation, restart the VM when prompted

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**Step 6: Post-Installation Setup**

Once logged in:

Terminal

- Open terminal: `Ctrl + Alt + T`

- Update packages:

```bash

sudo apt update && sudo apt upgrade -y