

## Installation Guide: Oracle VirtualBox & Ubuntu LTS

### Part 1: Installing Oracle VirtualBox

#### Step 1: Download VirtualBox

1. Open your browser and go to the official website:  
<https://www.virtualbox.org/wiki/Downloads>
2. Click **Downloads**.
3. Select **Windows hosts** (or macOS/Linux according to your OS).
4. The installer file will start downloading.

#### Step 2: Install VirtualBox

1. Double-click the downloaded installer.
2. Click **Next** on the setup wizard.
3. Keep default settings and click **Next**.
4. Click **Yes** if a network warning appears.
5. Click **Install**.
6. Once installation is complete, click **Finish** to launch VirtualBox.

### Part 2: Downloading Ubuntu LTS Image

#### Step 1: Download Ubuntu LTS ISO

1. Open your browser and go to: <https://ubuntu.com/download/desktop>  
Download the **Ubuntu LTS (Long Term Support)** version  
(e.g., **Ubuntu 22.04 LTS** or latest LTS).
2. The file will download in **.iso** format.

### Part 3: Installing Ubuntu LTS on VirtualBox

#### Step 1: Create a New Virtual Machine

1. Open **Oracle VirtualBox**.
2. Click **New**.
3. Enter:
  - **Name:** Ubuntu LTS
  - **Type:** Linux
  - **Version:** Ubuntu (64-bit)
4. Click **Next**.

#### Step 2: Allocate Memory (RAM)

- Allocate at least **2048 MB (2 GB)**  
(*Recommended: 4096 MB if system allows*)

- Click **Next**.

### Step 3: Create Virtual Hard Disk

1. Select **Create a virtual hard disk now**.
2. Click **Create**.
3. Choose **VDI (VirtualBox Disk Image)**.
4. Select **Dynamically allocated**.
5. Set disk size:
  - Minimum: **20 GB**
  - Recommended: **30–40 GB**
6. Click **Create**.

### Part 4: Attach Ubuntu ISO File

1. Select your **Ubuntu VM** → Click **Settings**.
2. Go to **Storage**.
3. Under **Controller IDE**, click **Empty**.
4. Click the **disk icon** → **Choose a disk file**.
5. Select the downloaded **Ubuntu LTS .iso** file.
6. Click **OK**.

### Part 5: Install Ubuntu

1. Select the Ubuntu VM and click **Start**.
2. Ubuntu installer will appear.
3. Click **Install Ubuntu**.
4. Choose keyboard layout → **Continue**.
5. Select **Normal Installation**.
6. Tick **Download updates while installing Ubuntu**.
7. Click **Continue**.
8. Choose **Erase disk and install Ubuntu**  
(*This affects only the virtual disk, not your PC*).
9. Click **Install Now** → **Continue**.
10. Set:
  - Time zone
  - Username
  - Password
11. Click **Continue** and wait for installation to complete.

### Part 6: Finish Installation

1. After installation, click **Restart Now**.
2. When prompted, press **Enter**.
3. Ubuntu will boot successfully 🐧

YouTube Video Link: <https://youtu.be/DhVjgI57Ino?si=dubkt8a8J2okjN48>