

## 1 Installation of VirtualBox on Windows

### 1.1 Getting ready for VirtualBox installation on Windows 11 Pro system

#### System Requirements

1. An i3 processor or higher,
2. Minimum 4 GB RAM,
3. At least 50 GB of free hard disk space,
4. Virtualization enabled in BIOS, and a 64-bit system.
5. This ensures, VirtualBox works smoothly.

### 1.2 Downloading of Oracle VirtualBox 7.2.4 on Windows 11 Pro system

1. In a Web browser's address bar, type the following URL <https://www.virtualbox.org/wiki/Downloads> to download **Oracle VirtualBox 7.2.4 on Windows 11 Pro system**.
2. **Download VirtualBox** page opens.
3. Go to **VirtualBox Platform Packages**, click on the **Windows hosts**.
4. The executable file will automatically download to your **Downloads** folder.
5. Depending on the internet speed, it may take some time to complete the download.
6. Go to the taskbar at the bottom of the screen and right-click on it and to select Task Manager.
7. Task Manager window opens.
8. Click on the **Performance** tab and check for Virtualisation is Enabled.
9. To check the **BIOS settings** please seek help from a system administrator.

### 1.3 Installation of Oracle VirtualBox 7.2.4 on Windows 11 Pro system

1. Go to your **Downloads** folder.
2. Locate the file VirtualBox-7.2.4 executable file.
3. Right-click on the VirtualBox executable file and select Run as administrator option.
4. **User Account Control** pop-up window opens. Click on **Yes** to continue.
5. **Oracle VirtualBox 7.2.4 Installer** Window opens. Read the instructions and click on **Next** button.
6. When the **Licence Agreement** is displayed. Read the instructions carefully. To continue ahead click on **Next** button.
7. **Custom Setup** window opens, keep all the defaults and click on **Install** button.
8. **Warning Network Disconnection** window opens. Please read the warning carefully and click on the Yes button.
9. **Custom Setup-Select the features to install** window opens, keep all the defaults and click on **Install** button.
10. **Ready to Install** window opens, keep all the defaults and click on **Install** button.
11. **Oracle VirtualBox 7.2.4 has been installed** window opens. Please ensure the Start Oracle VirtualBox 7.2.4 check box is checked in the window click on **Finish** button.
12. **VirtualBox** icon appears on the Desktop, double click to open it.

## 2 Installing Ubuntu OS 24.04 in Oracle VirtualBox

1. Open the windows machine.
2. On the **Desktop** double click on the **VirtualBox** icon.
3. Oracle VirtualBox Manager window opens.
4. At the top left corner, click on the blue gear shaped New button.
5. A New Virtual Machine window opens.
6. In the VM Name field let us type Ubuntu.
7. From the **ISO** Image dropdown select **Other**.
8. Open window appears, it shows **Ubuntu-24.04.3-desktop-amd 64 file**.
9. Select the file and click **Open** button at the bottom.
10. Open window gets closed automatically and the selected file is reflected in the **ISO** image field.
11. Click on **Set up unattended guest OS installation** dropdown.
12. Here we can see two sections: **User Name and Password** and **OS Installation Options**.
13. Go to the **User Name** and **Password** section and fill in the User Name and Password as spoken.
14. Retype the same password in the **Confirm Password** field.
15. Please remember the login credentials, they will be required during login.
16. Click on Specify virtual hardware dropdown.
17. We will Increase the **Base Memory** to 8544 MB and Number of **CPUs** to 6.
18. Changes are reflected on the right.
19. Click on **Specify virtual hard disk** dropdown, notice that **Disk Size** is set to **25 GB** by default.
20. Keep it as it is and click the **Finish** button at the bottom.
21. Ubuntu Running window appears.
22. Click on Try or Install Ubuntu option, Ubuntu 24.04 installation begins
23. Welcome to Ubuntu window appears. Heading changes to **Ubuntu 24.04.3 LTS**.
24. Copying files process may take some time.
25. **Ubuntu 24.04.3 LTS** is installed, the system configuration may take some time.
26. Click on the user name spoken and type system password as spoken to login to the system.