

Beginner Guide: Installing VirtualBox and Xubuntu

Workshop on Cybersecurity in Power Grids

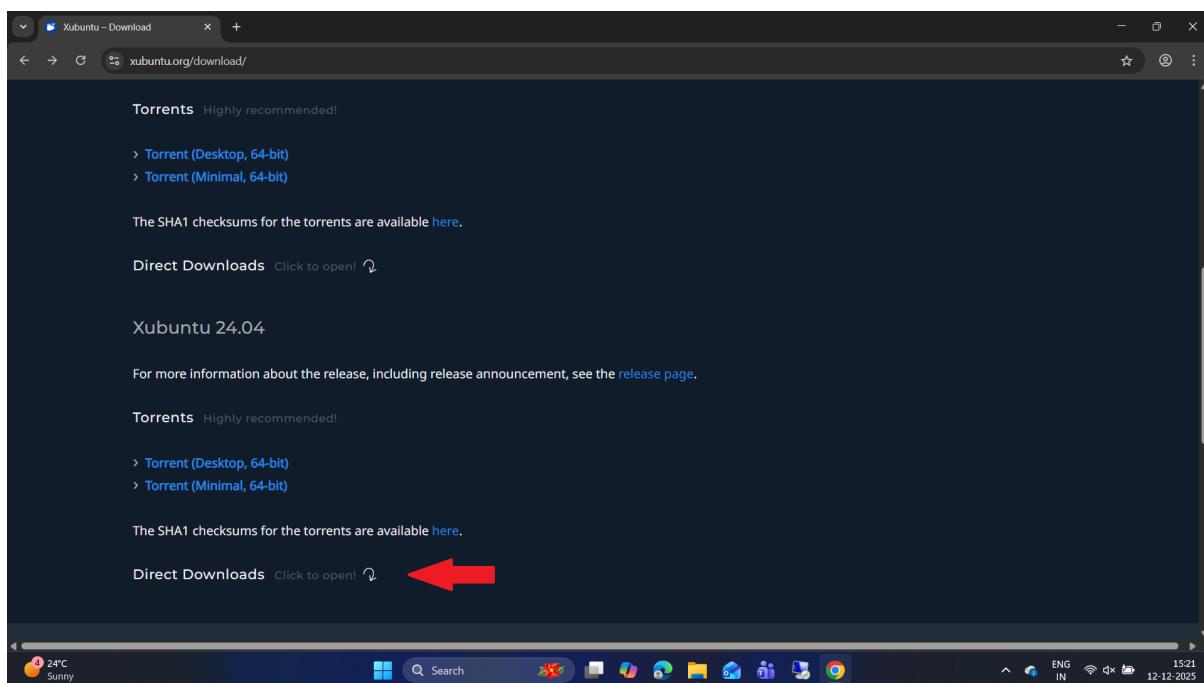
IISc Bangalore

Introduction

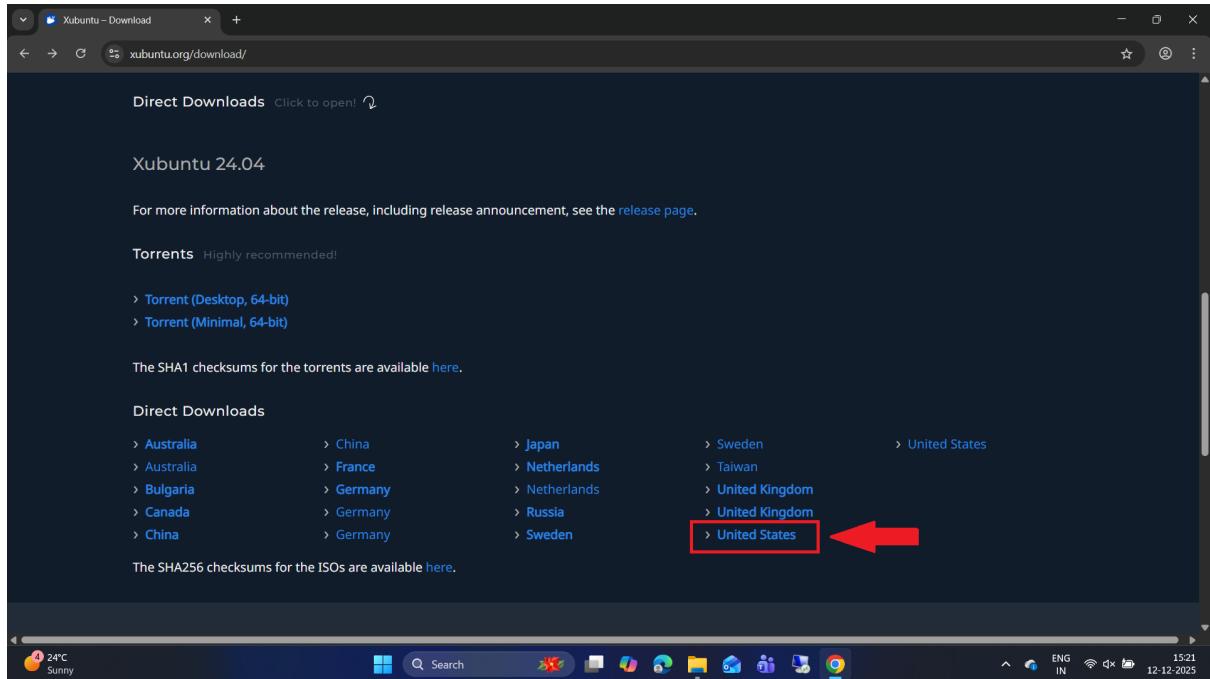
This guide explains how to download and install VirtualBox, download Xubuntu, and set up a virtual machine.

1 Download Xubuntu ISO

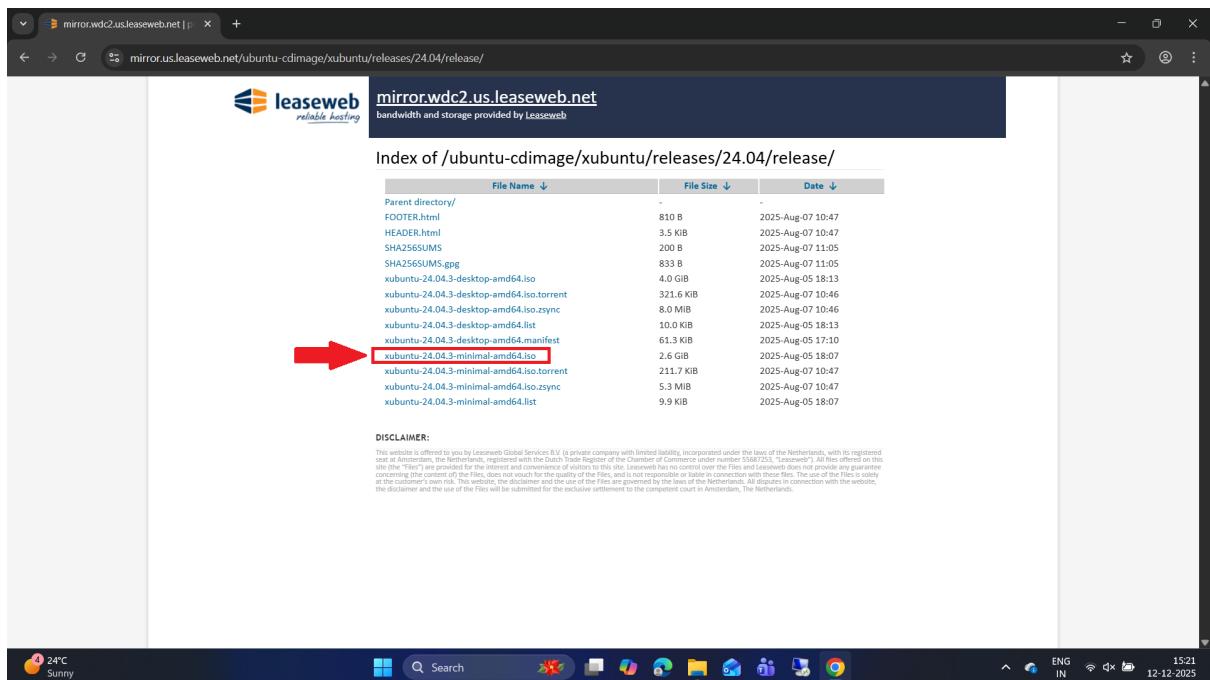
1. You can download Xubuntu ISO from the downloads page: <https://xubuntu.org/download/>. Scroll down to find **Xubuntu 24.04**. You can choose either *Torrents download* or **Direct downloads**. This guide gives the instructions for **Direct download**.



2. Choose any of the options given in direct download section. This guide chooses “**United States**” as shown. You can choose any other option if the particular link does not work.

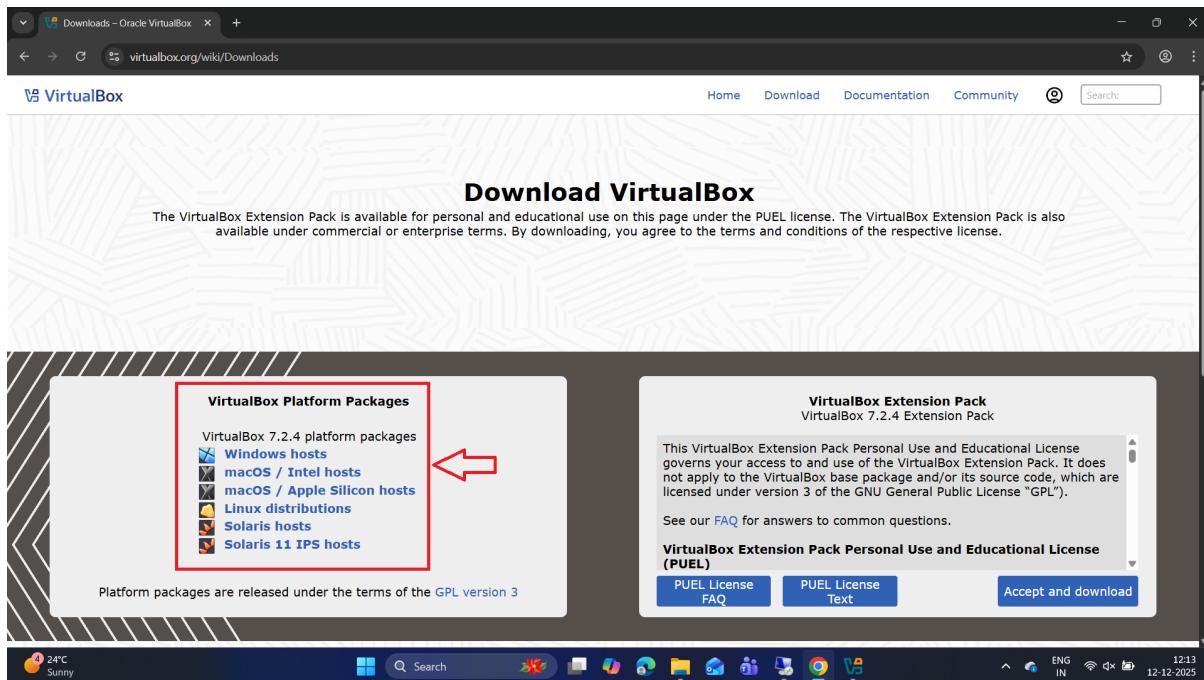


3. Download the [xubuntu-24.04.3-minimal-amd64.iso](#) and save in a directory.



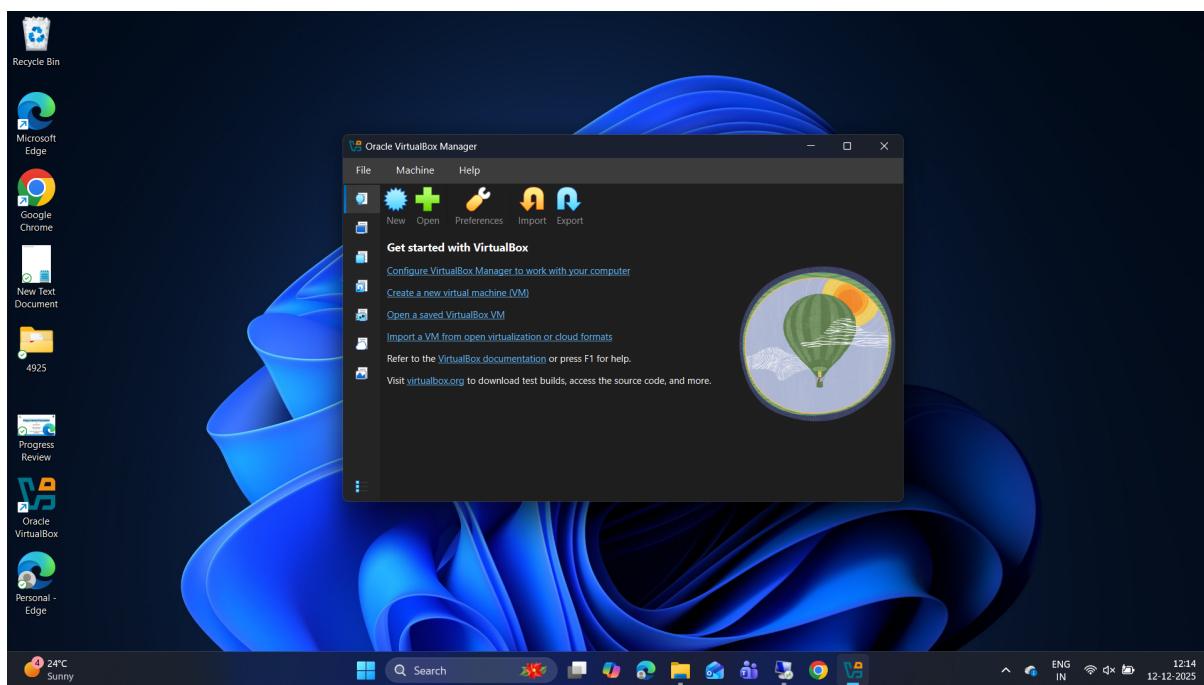
2 Download and Install VirtualBox

1. You can download [VirtualBox](https://www.virtualbox.org/wiki/Downloads) from the downloads page: <https://www.virtualbox.org/wiki/Downloads>.
2. Choose and download the installer for your operating system (Windows, macOS, Linux).



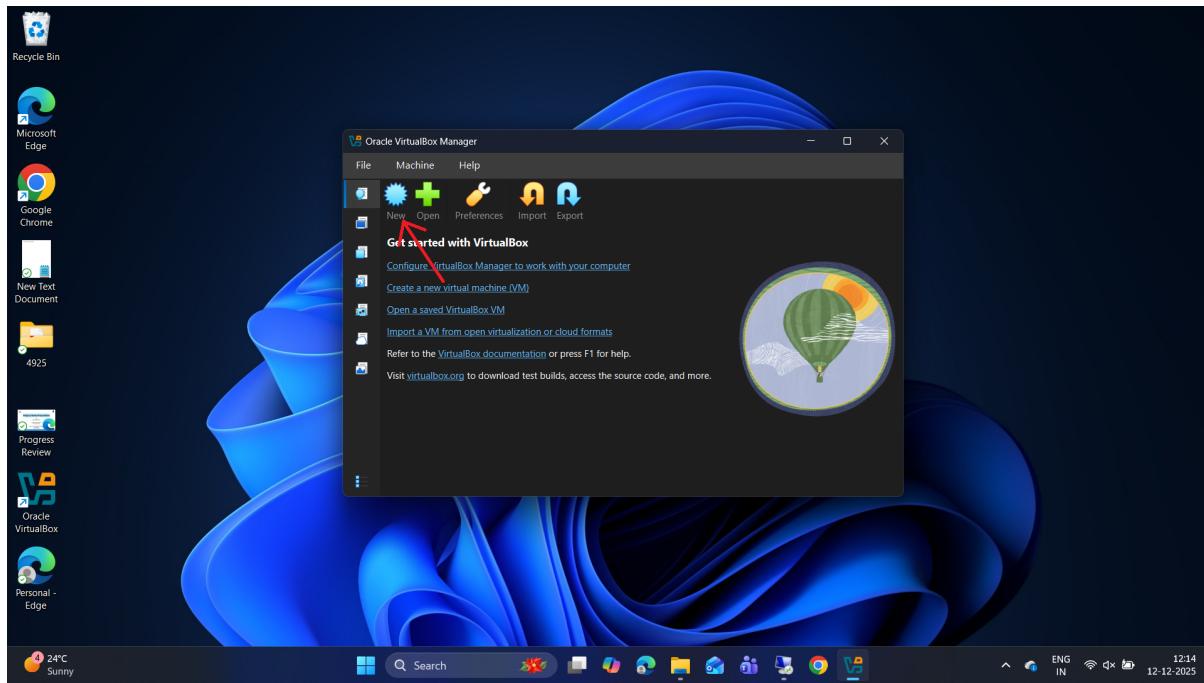
3. Run the downloaded installer and follow the on-screen instructions.

Once you have completed the installation, go ahead and run VirtualBox. It should look like something below.

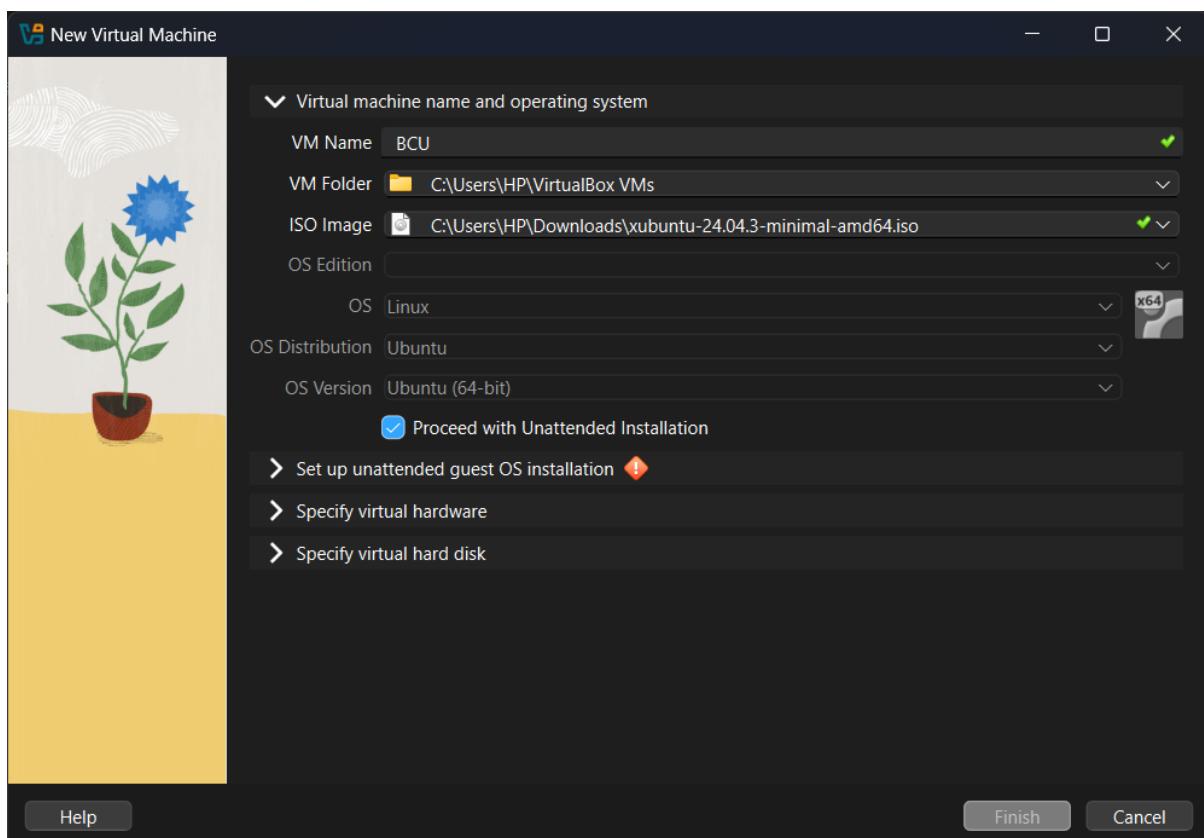


3 Create a Xubuntu Virtual Machine in VirtualBox

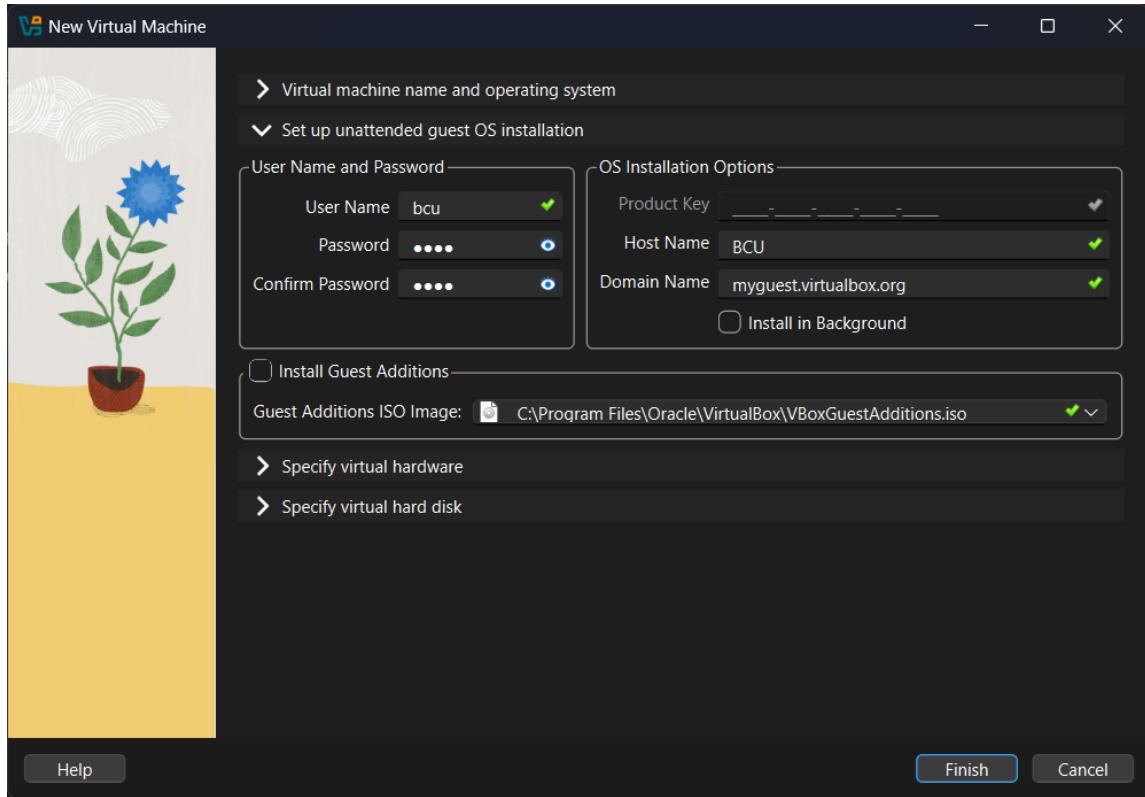
1. Open VirtualBox and click on [New](#).



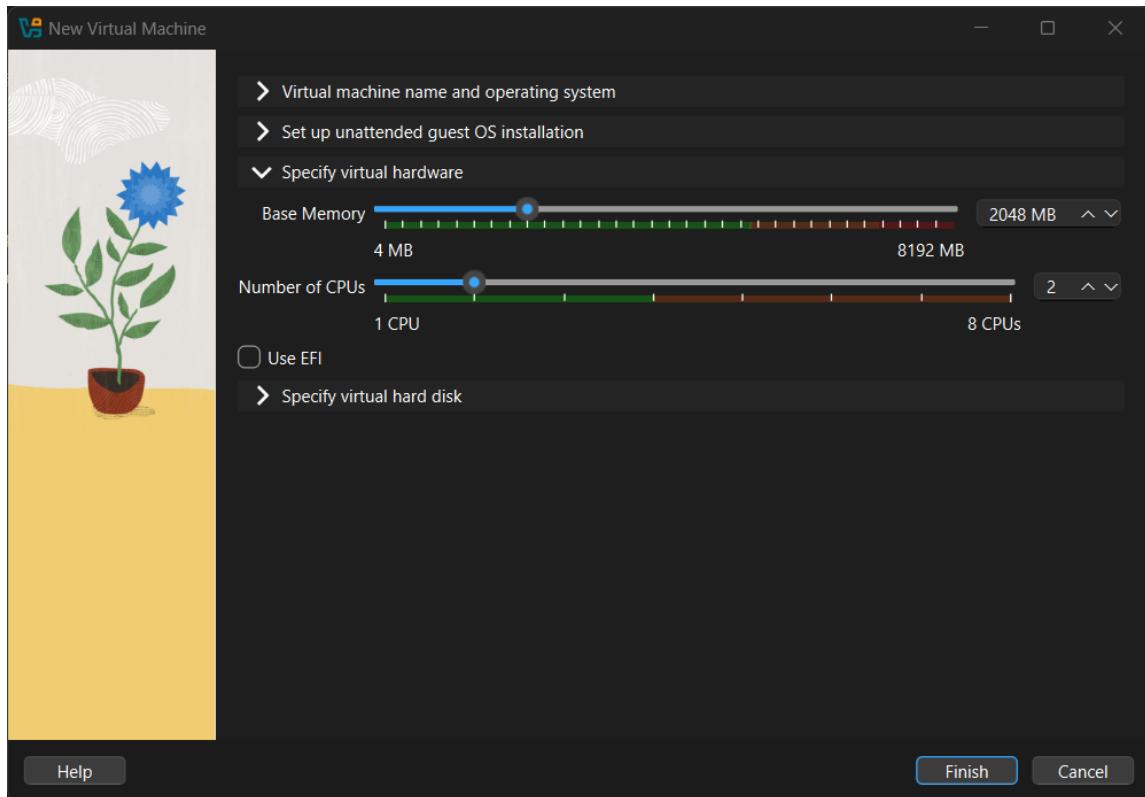
2. Enter the VM name as "**BCU**". And choose the ISO image from the directory where you saved the Xubuntu 24.04 iso file from section 1.



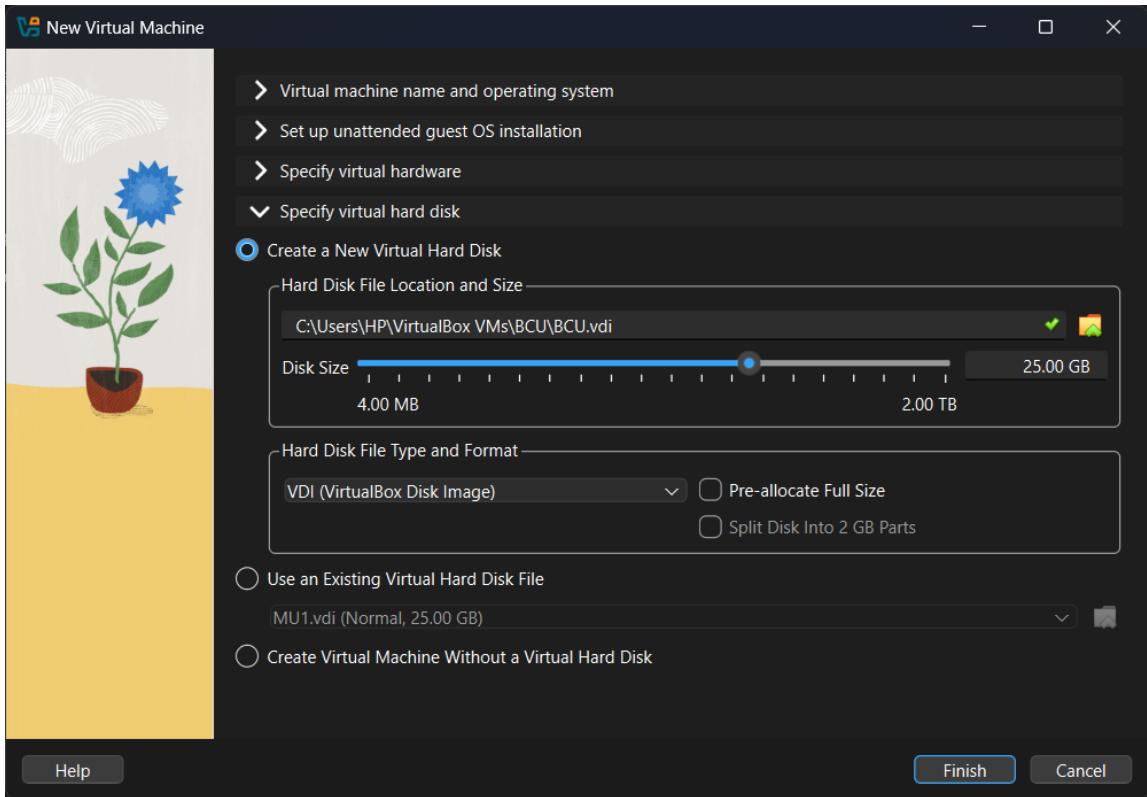
3. Set a user name and simple password (Example:- User Name: bcu, password: 1234).



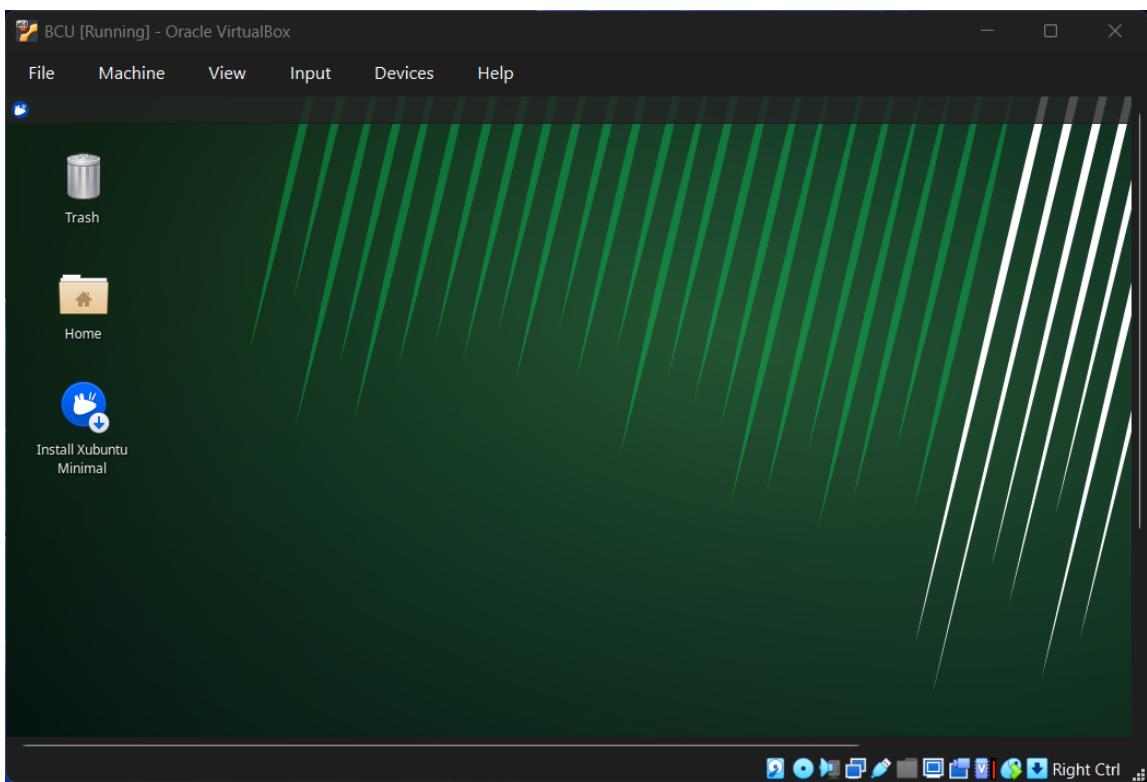
4. Allocate at least 2 GB (2048 MB) and 2 CPUs as shown.



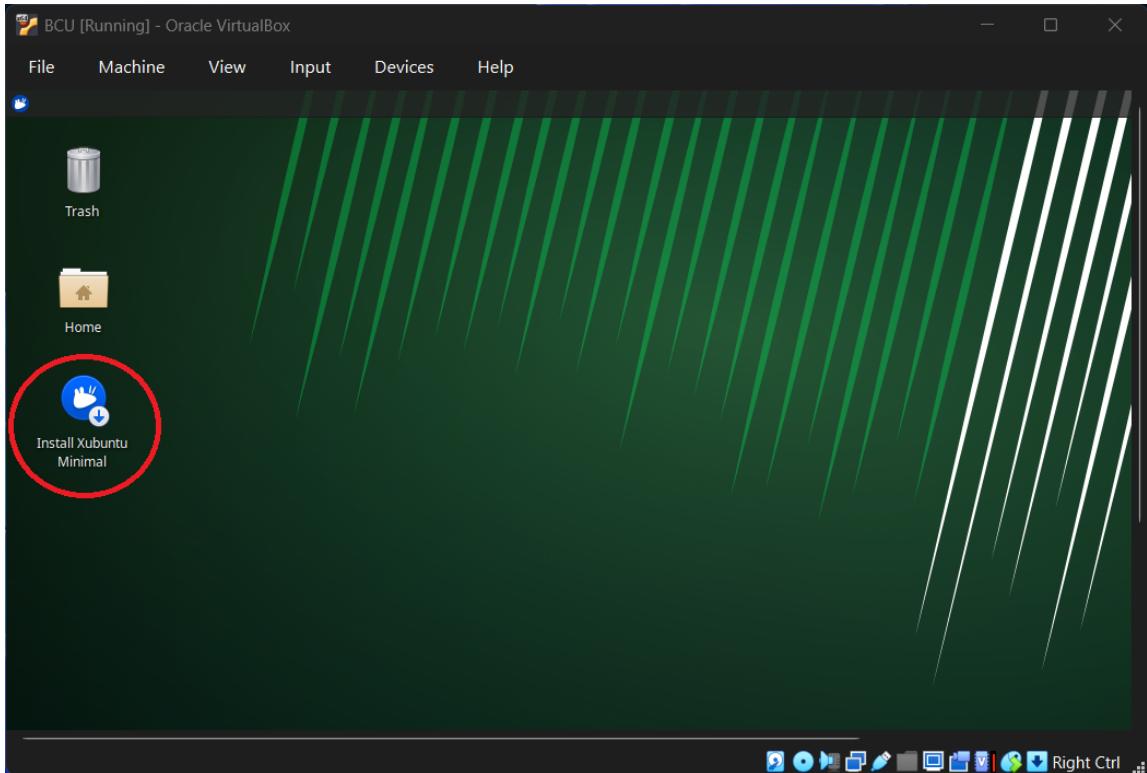
5. Allot atleast **25 GB** hard disk size and click Finish.



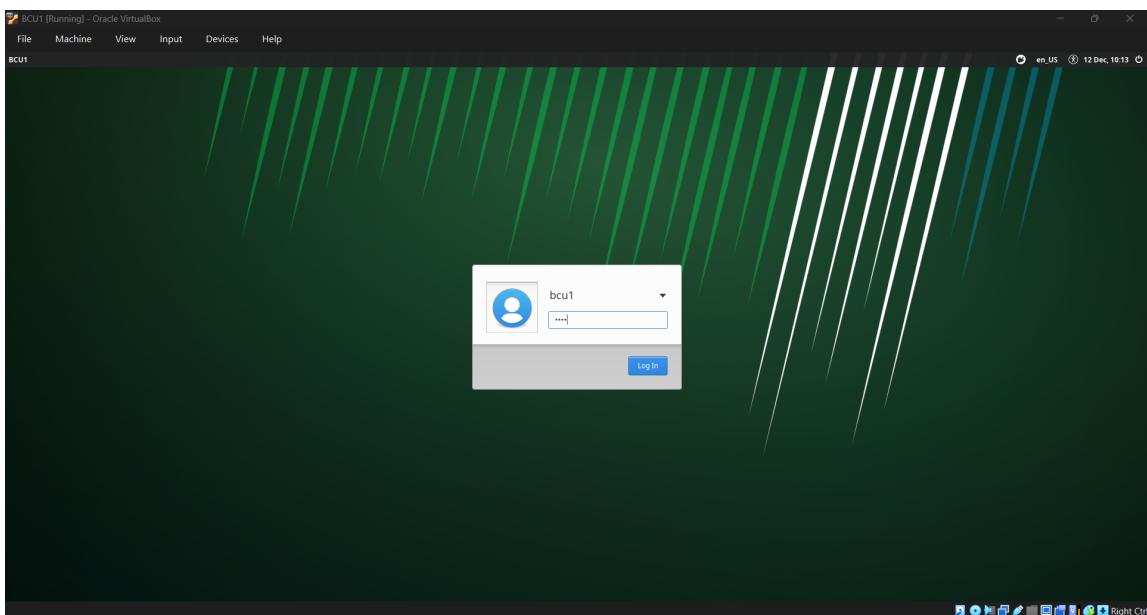
6. The new VM starts power up and the following window can be seen.



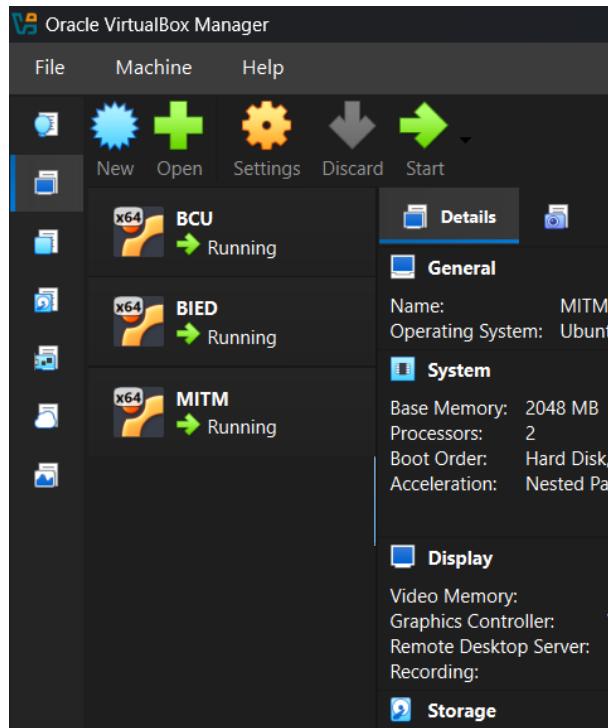
7. Click on **Install Xubuntu Minimal** to start the installation of the VM. This might take some time.



8. Finally you will be greeted with the Xubuntu log-in screen where you can enter your username and password defined during the initial setup.



9. Repeat the same procedure from section 3 (steps 1- 8) to create two more VMs with names “**BIED**” and “**MITM**”.
10. After successful creation of three VMs the Virtual Box Manager window would look something like this.



You can power off the VMs and close the windows. Now you are all set up for the workshop.