

LAB 0 : INSTALL VIRTUAL PLAYER AND LINUX

WHAT IS LINUX ?

Linux is an open-source operating system kernel that serves as the foundation for various operating systems, commonly referred to as Linux distributions (or distros). Developed by Linus Torvalds in 1991, Linux is known for its stability, security, and versatility, making it popular for servers, desktops, embedded systems, and more.

STEP 1 : DOWNLOAD VIRTUALBOX FILE .

- 1 Go to the VirtualBox Website
- 2 select your operating system

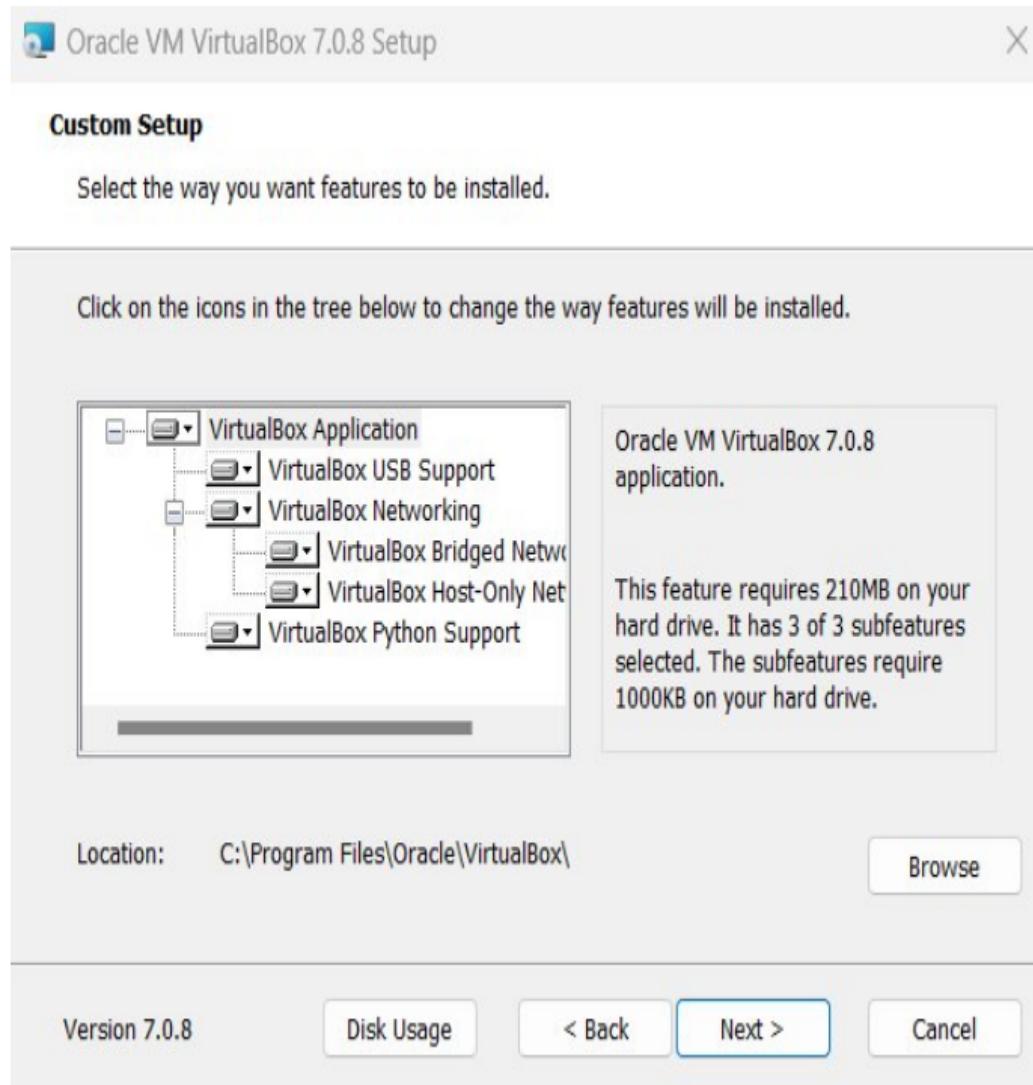
output :

The screenshot shows the VirtualBox website at [virtualbox.org/wiki/Downloads](https://www.virtualbox.org/wiki/Downloads). The main heading is "Download VirtualBox". Below it, a message states: "The VirtualBox Extension Pack is available for personal and educational use on this page under the PUEL license. The VirtualBox Extension Pack is also available under commercial or enterprise terms. By downloading, you agree to the terms and conditions of the respective license." Two main download options are presented in boxes:

- VirtualBox Platform Packages**: "VirtualBox 7.1.0 platform packages" with links for Windows hosts, macOS / Intel hosts, macOS / Apple Silicon hosts, Linux distributions, Solaris hosts, and Solaris 11 IPS hosts. It notes: "Platform packages are released under the terms of the GPL version 3".
- VirtualBox Extension Pack**: "VirtualBox 7.1.0 Extension Pack" with a detailed description of the PUEL license and a link to the FAQ. It includes "VirtualBox Extension Pack Personal Use and Educational License" terms, "PUEL License FAQ", "PUEL License Text", and a large blue "Accept and download" button.

STEP 2 : INSTALLING VIRTUAL BOX

- 1 The beginning



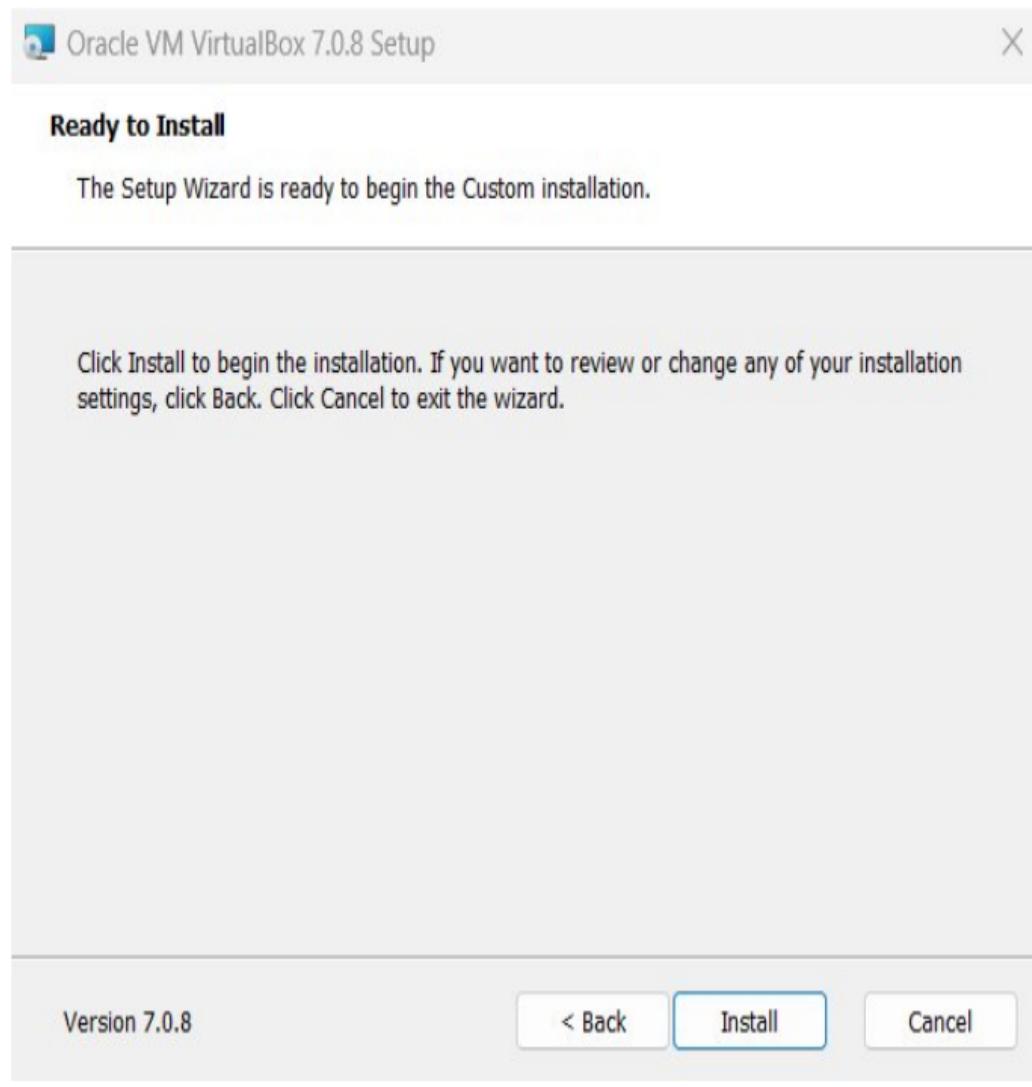
2 select installation location

output :



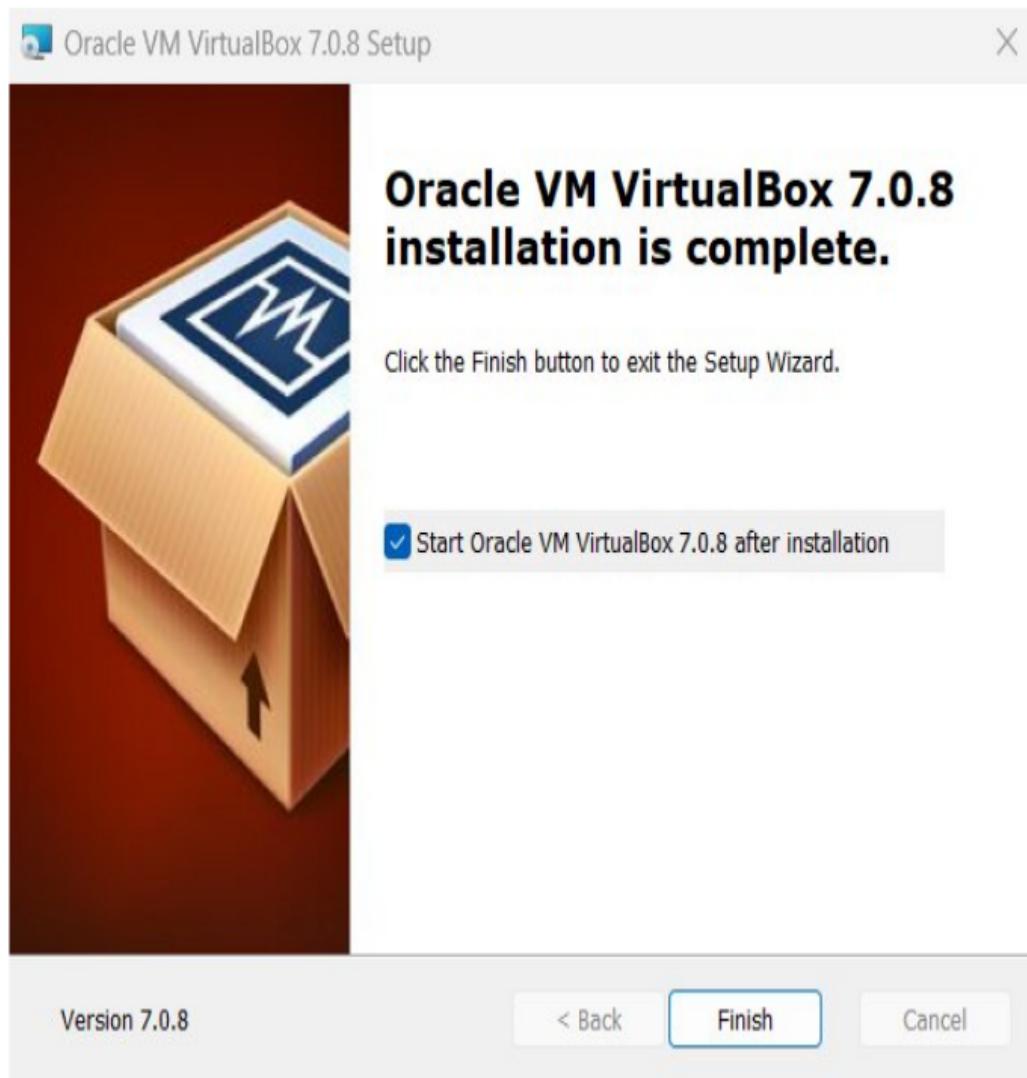
3 ready to install

output



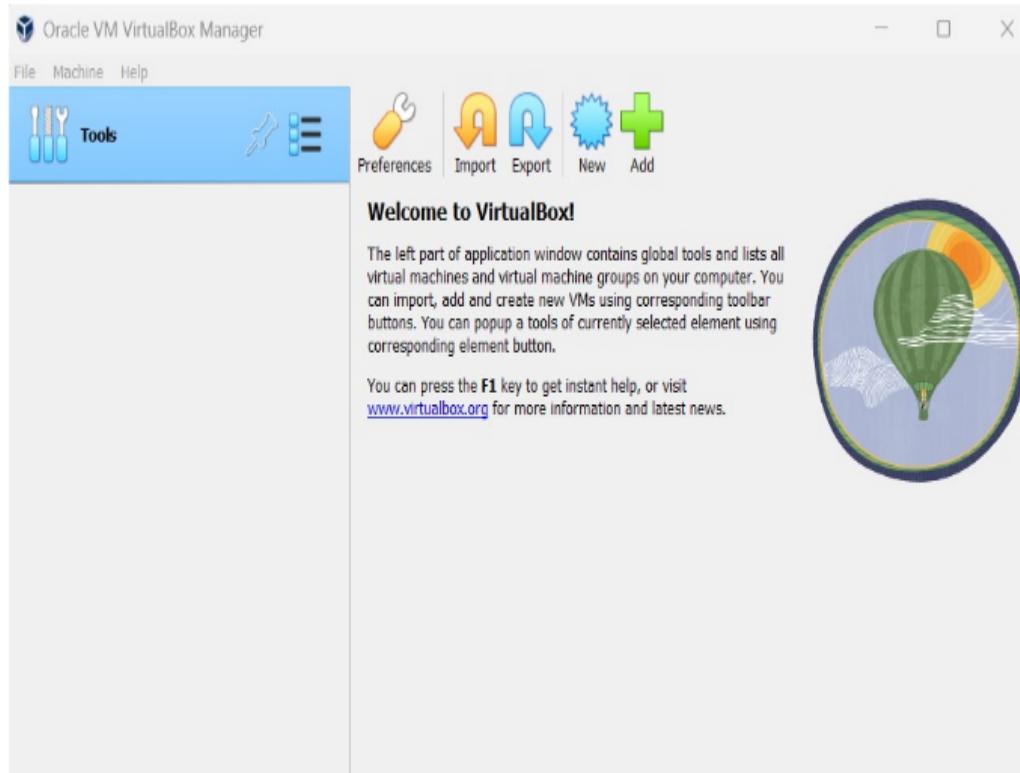
4 installation complete

output



5 opening virtualbox

output:



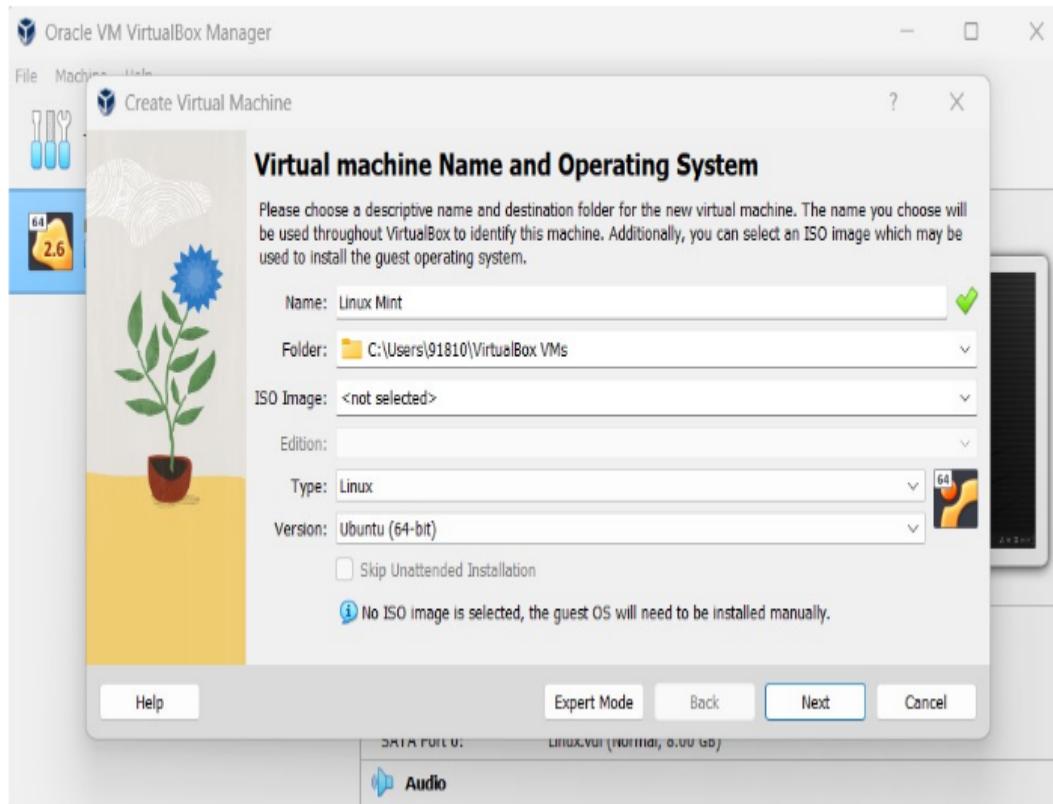
STEP 3 : INSTALLING LINUX USING VIRTUALBOX

1 Naming virtual machine

After installing virtual box ,click New .

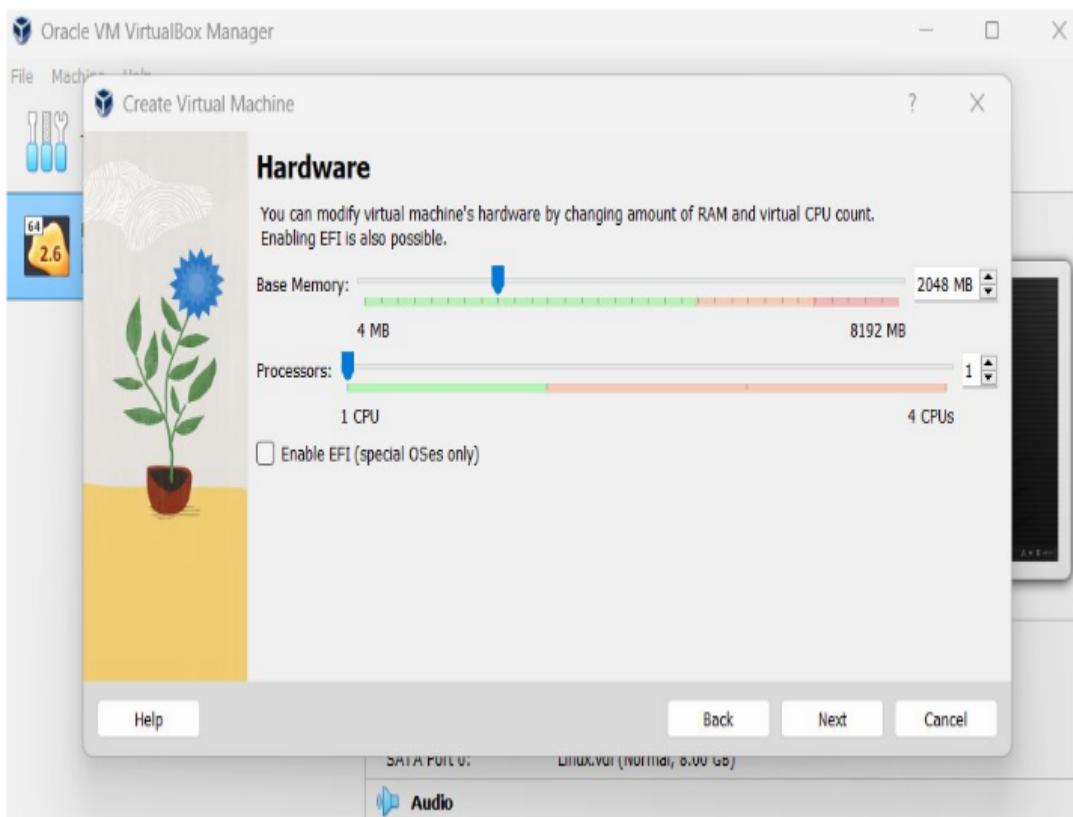
- Write the Name you want for your system, for example: Linux Mint
- Select Type: Linux.
- Select Version: Ubuntu

output



2 select the amount of ram

output

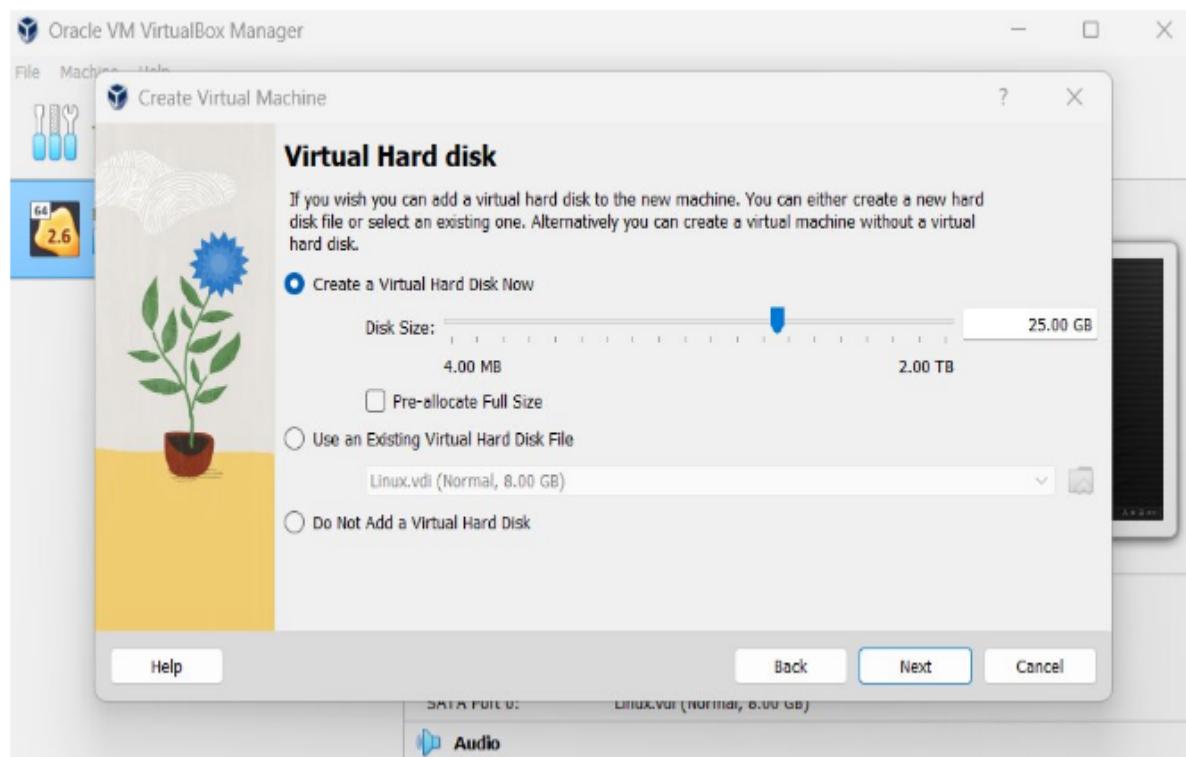


3 Hard Disk setting

Select hard disk setting:

- Choose 'Create a virtual hard drive Now', in order to make a virtual disk space.
 - Select the amount of hard drive size.
- now you are done with hardware settings.

output

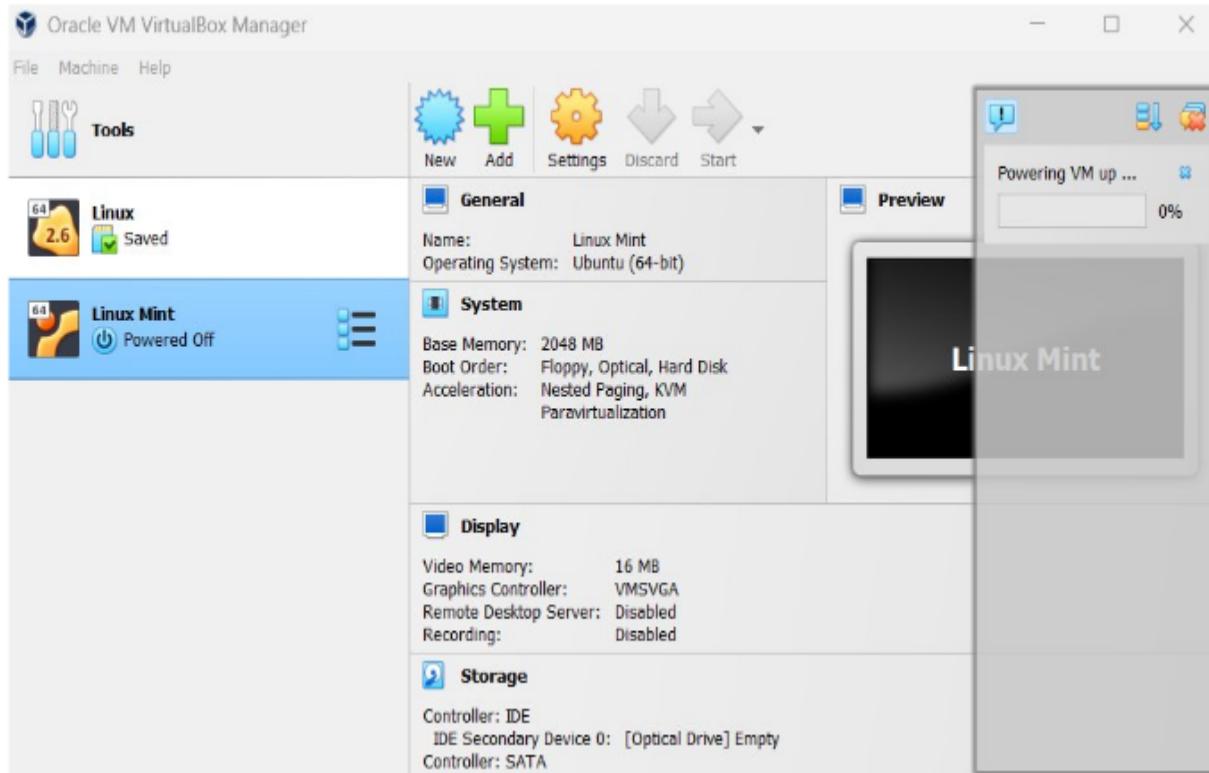


4 Launching your System

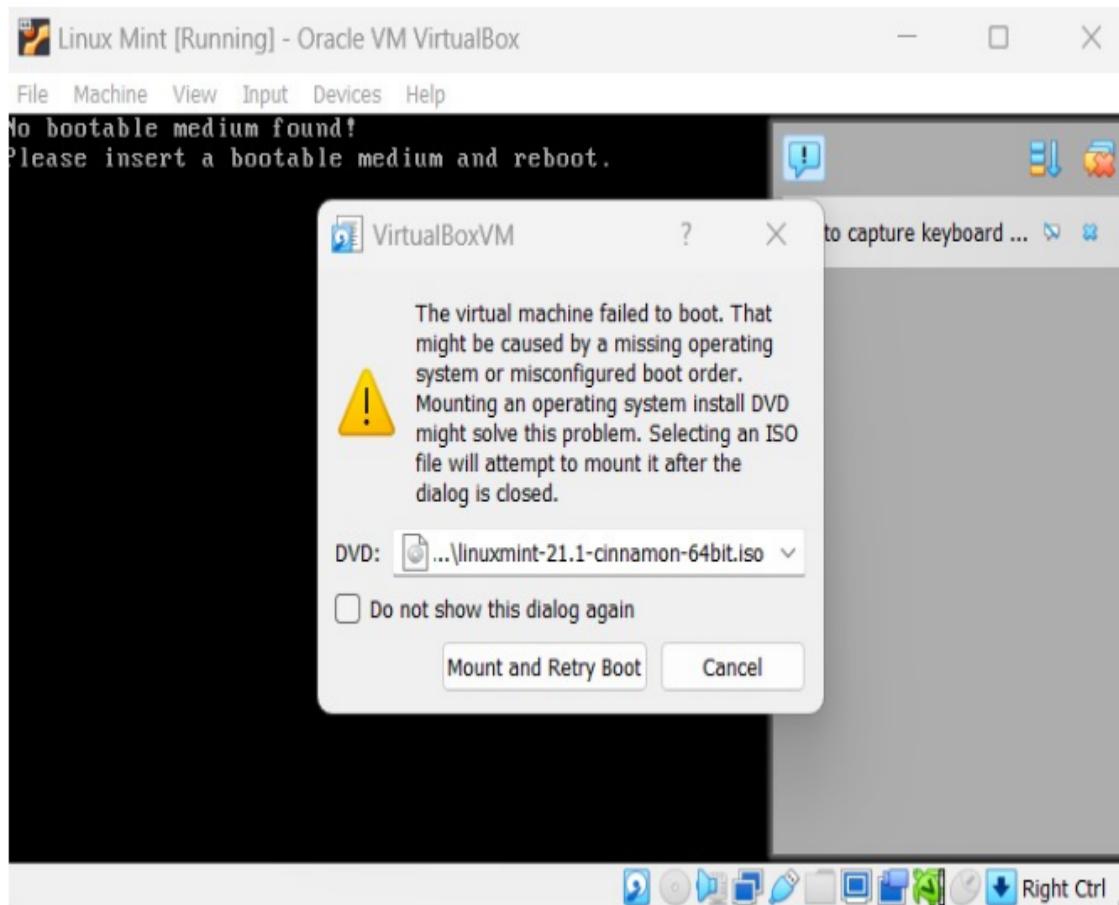
Choose the downloaded Linux ISO file:

- Click Start to launch your system

output:



- choose your iso file from your computer

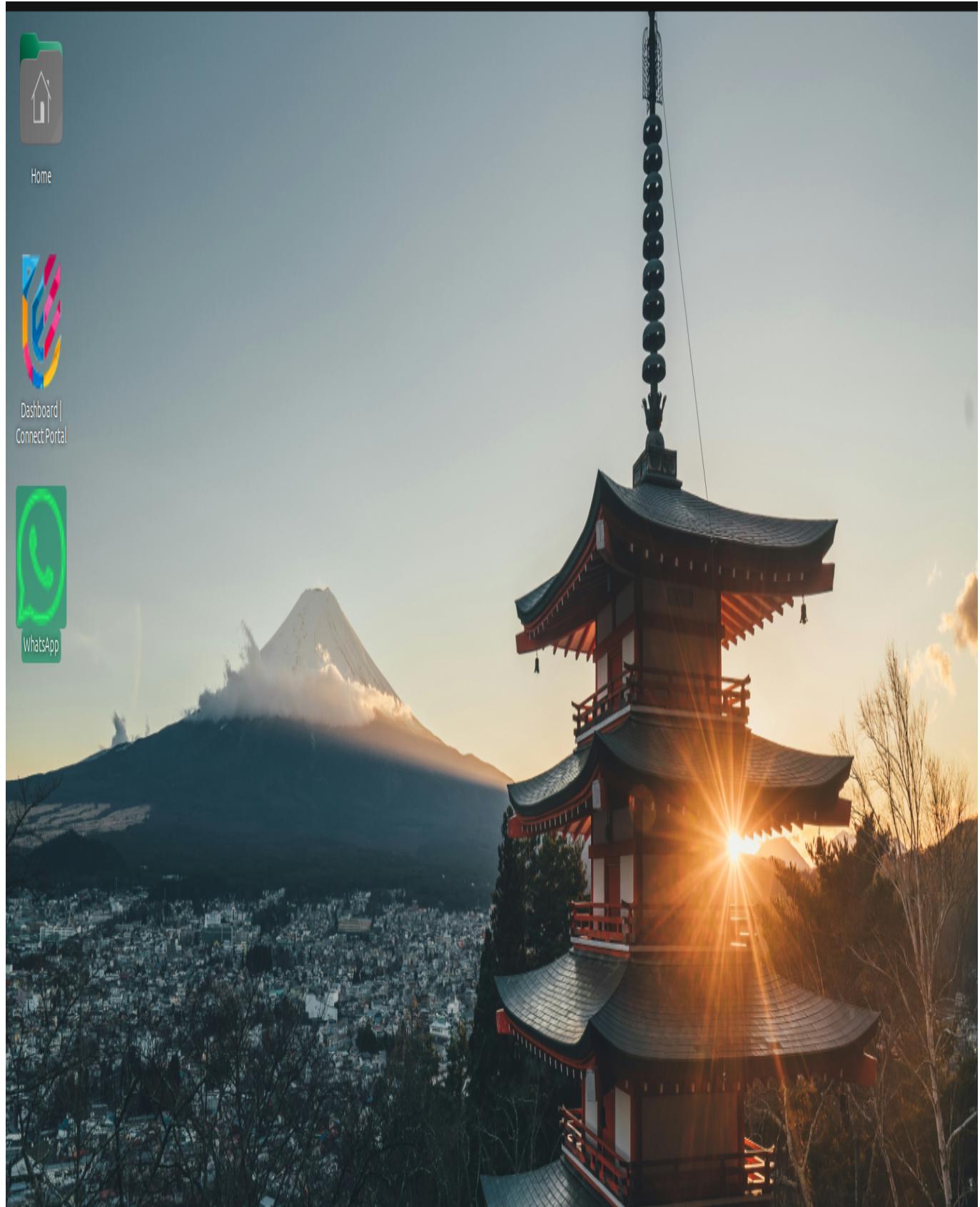


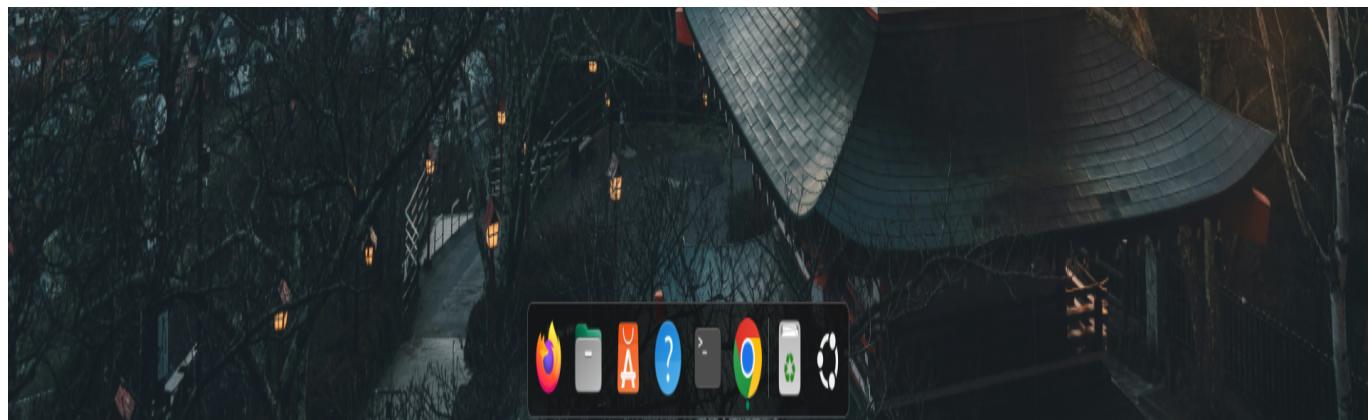
5 Final installation

Install ubuntu

- Click Install Ubuntu:
testf

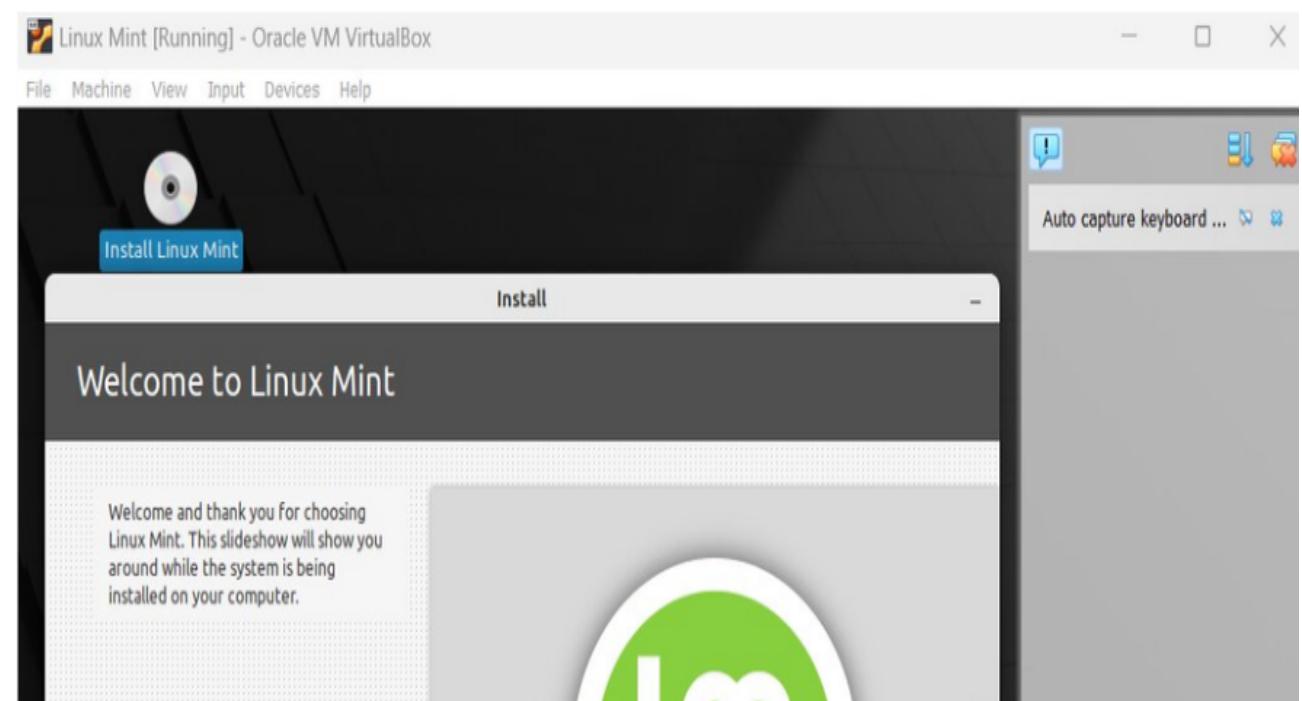
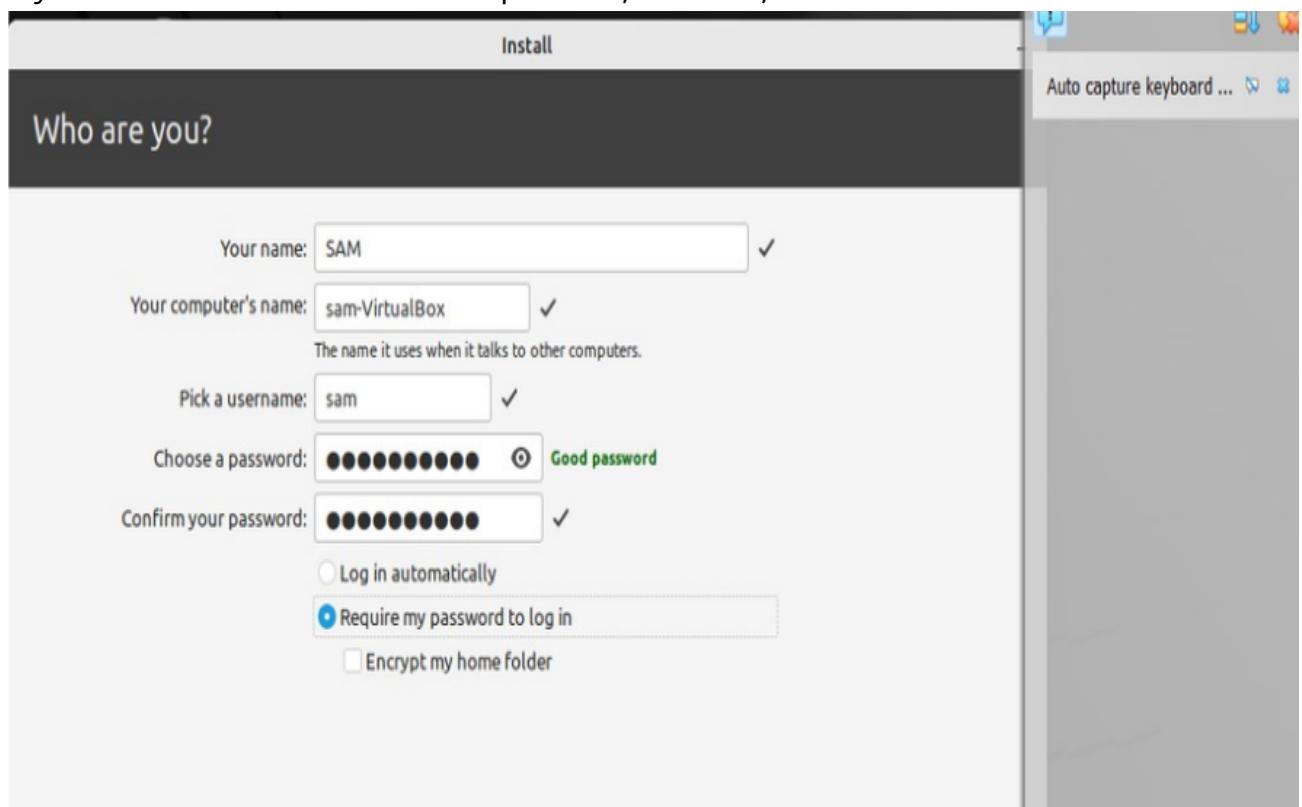
output:





Make your Account:

- Enter your details as shown below Like as : password, username, etc.



Finally We have successfully installed the UBUNTU LINUX .

Q1 : what are two advantages of installing ubuntu in virtual box ?

ANS- > Free and open source > strong security and less vulnerable to viruses > Regular updates and community support.

Q2 : Name some flavors of ubuntu.

ANS- Ubuntu Desktop,Ubuntu Sever,Kubuntu,Xbuntu,Lubuntu,Ubuntu Mate.

Q3 : Why Ubuntu popular among the Developers ?

ANS- It has pre-installed development tools,supports many language, provides packages managers(APT,Snap) , and Works well with cloud technologies.