



Practical Sheet - 01

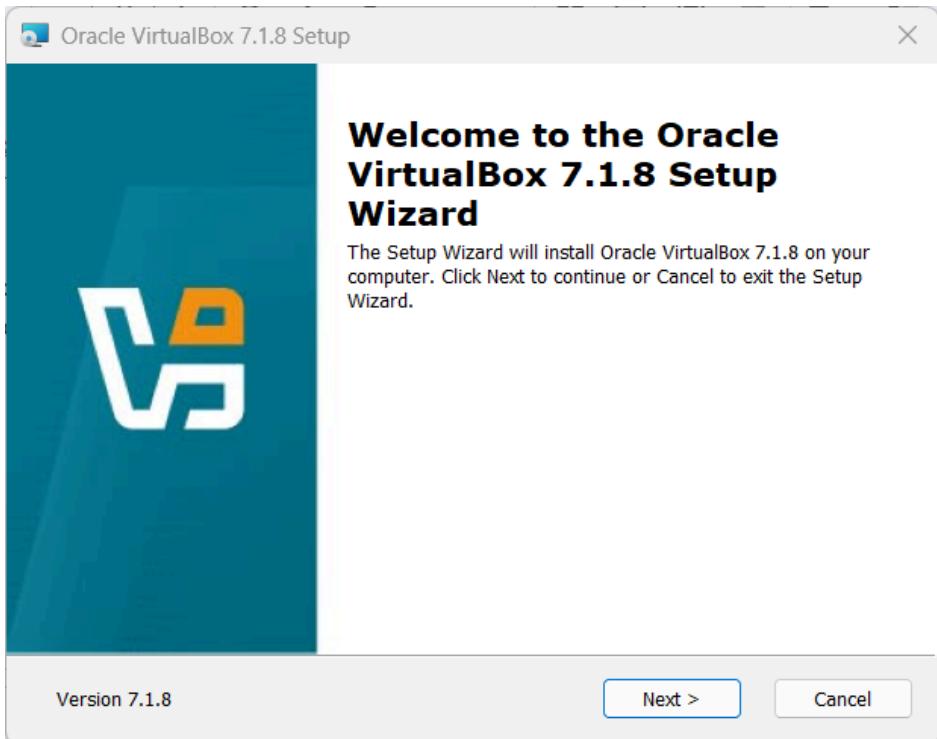
Creating a virtual Machine in Virtual Box

Download and Installing Oracle Virtual Box

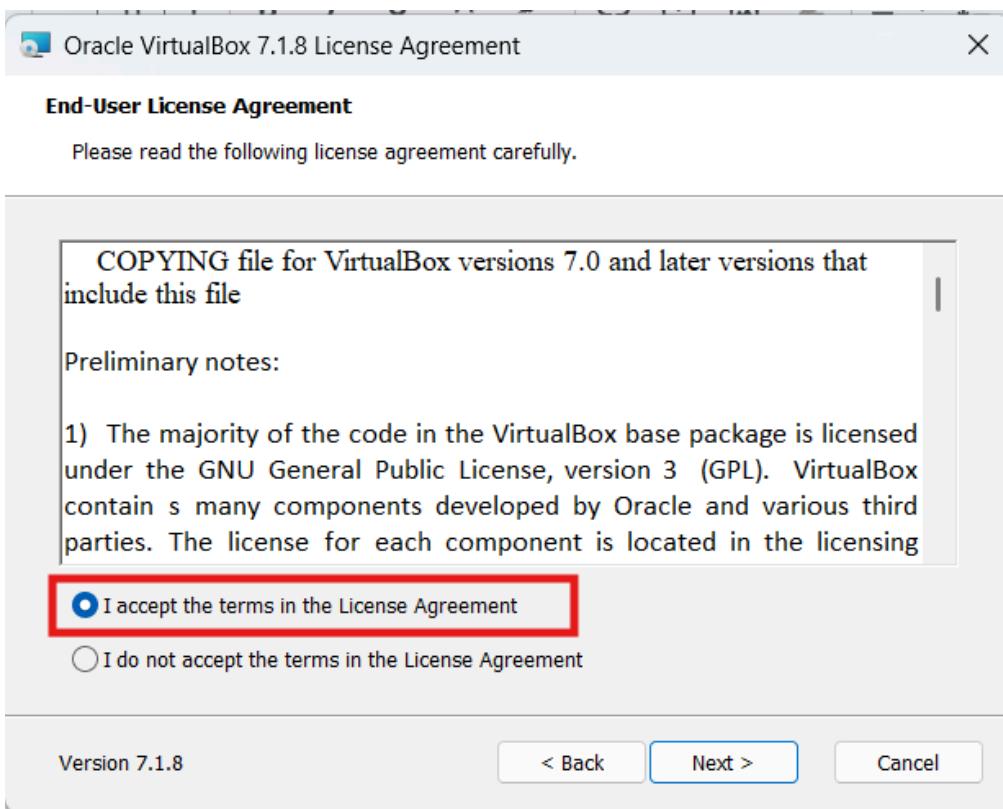
- Go to the link <https://www.virtualbox.org/wiki/Downloads>
- Under Virtualbox platform Packages download Virtual Box package according to your Operating system.

The screenshot shows the official VirtualBox download page. At the top, there's a navigation bar with links for Home, Download, Documentation, Community, and Search. The main content area has a decorative geometric background. A large heading "Download VirtualBox" is centered. Below it, a paragraph of text explains the license terms. Two main download options are presented in boxes: "VirtualBox Platform Packages" and "VirtualBox Extension Pack". The "Platform packages" box contains a list of supported hosts: Windows hosts, macOS / Intel hosts, macOS / Apple Silicon hosts, Linux distributions, Solaris hosts, and Solaris 11 IPS hosts. A note at the bottom of this box states: "Platform packages are released under the terms of the [GPL version 3](#)". The "Extension Pack" box contains a note about the Personal Use and Educational License (PUEL) and provides links to the PUEL FAQ and text. It also has a "Accept and download" button. The "VirtualBox Platform Packages" section is highlighted with a red rectangular box.

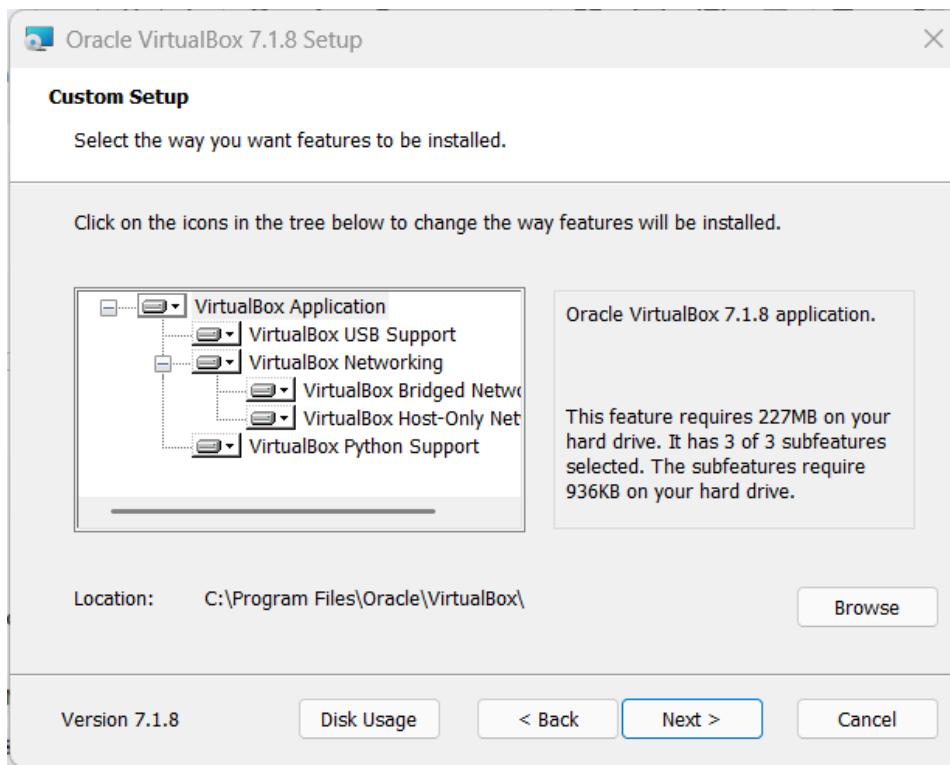
- Install the downloaded software by giving default settings in installing wizard.
 - Click next.



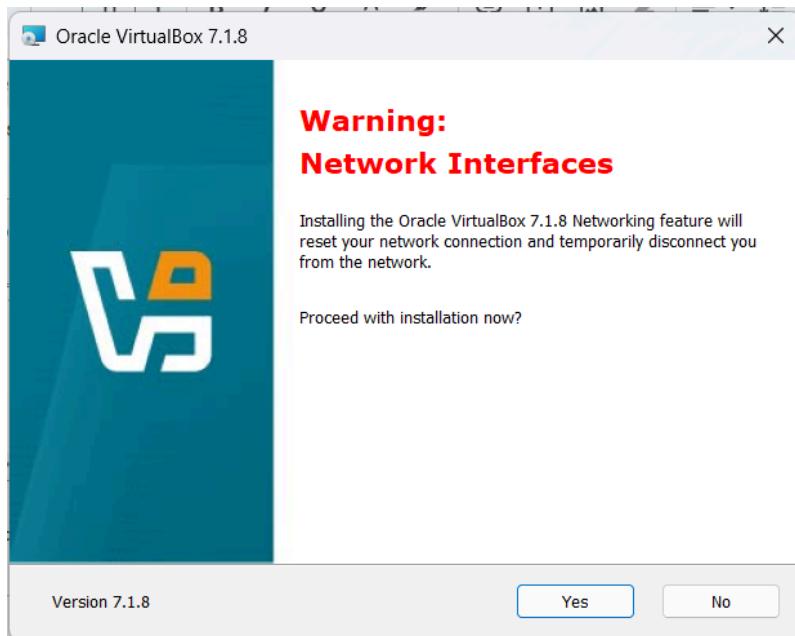
- Accept the terms and conditions and Click next.



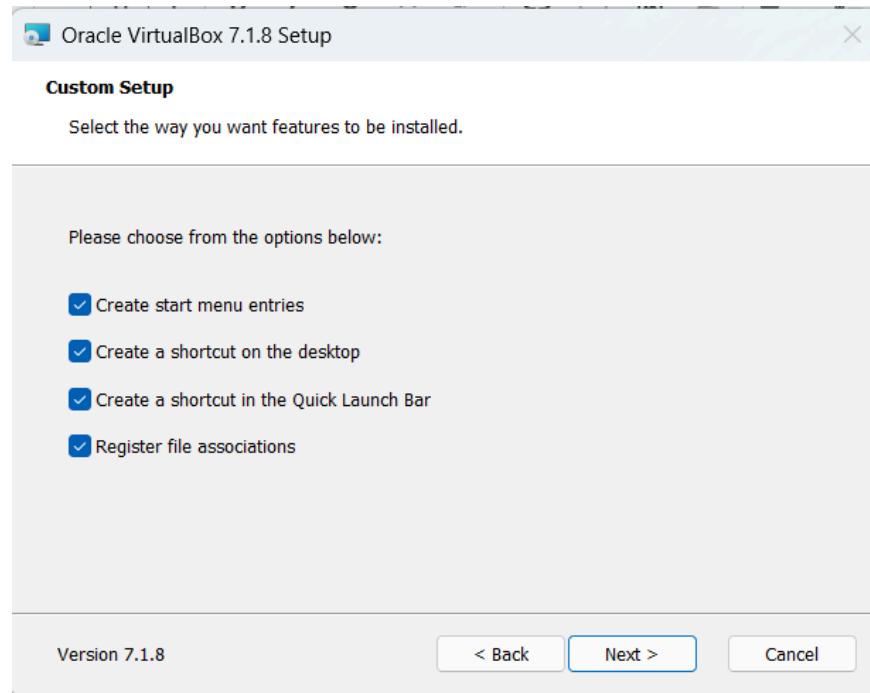
- Click next (If you need you can select any other folder for installation using the browse button).



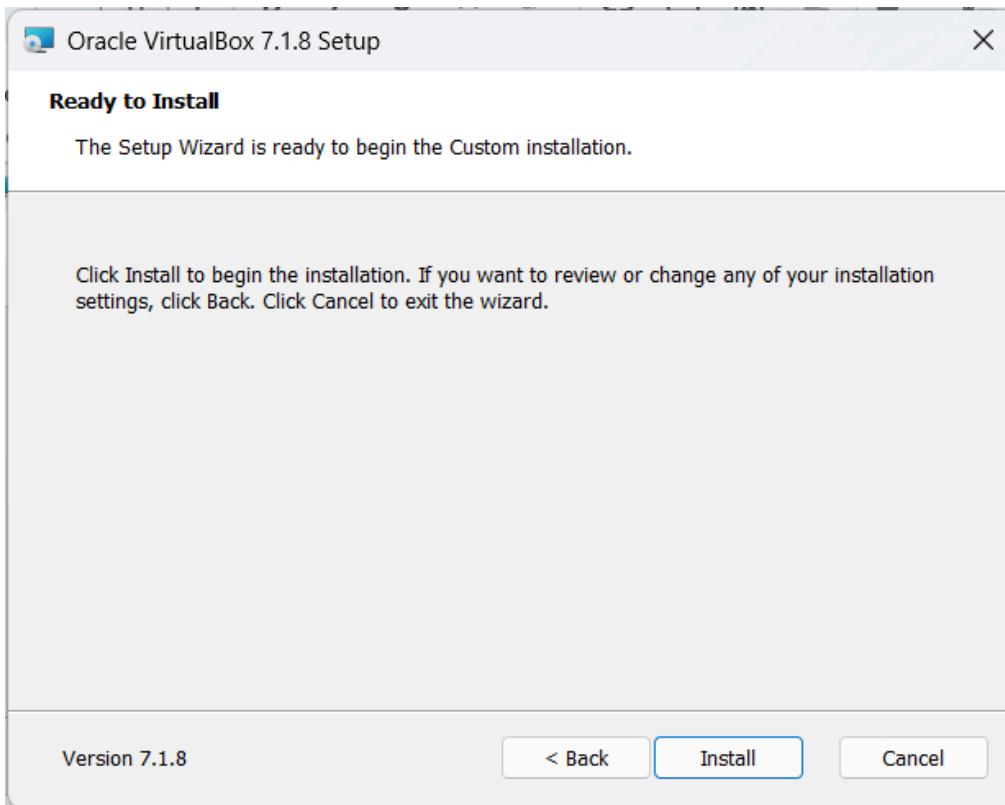
- Click Yes

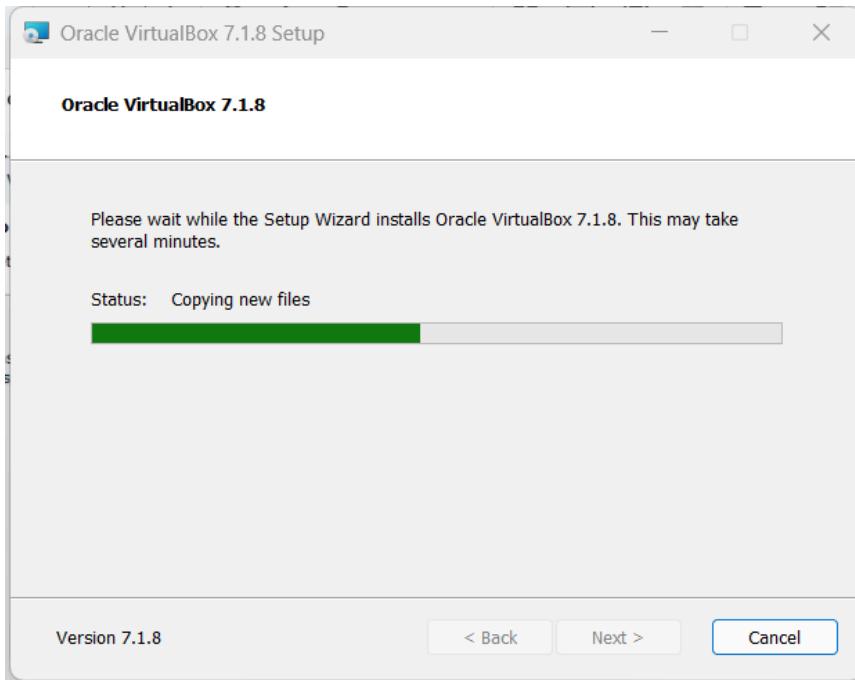


- Click Next (If you do not need startup menu entries or desktop shortcuts you can uncheck them)

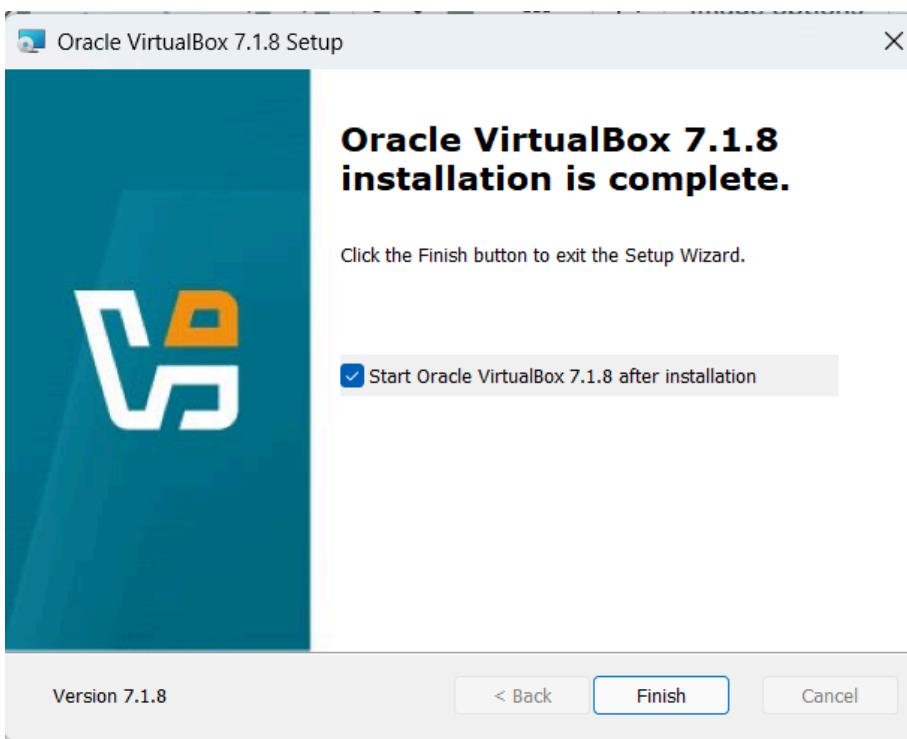


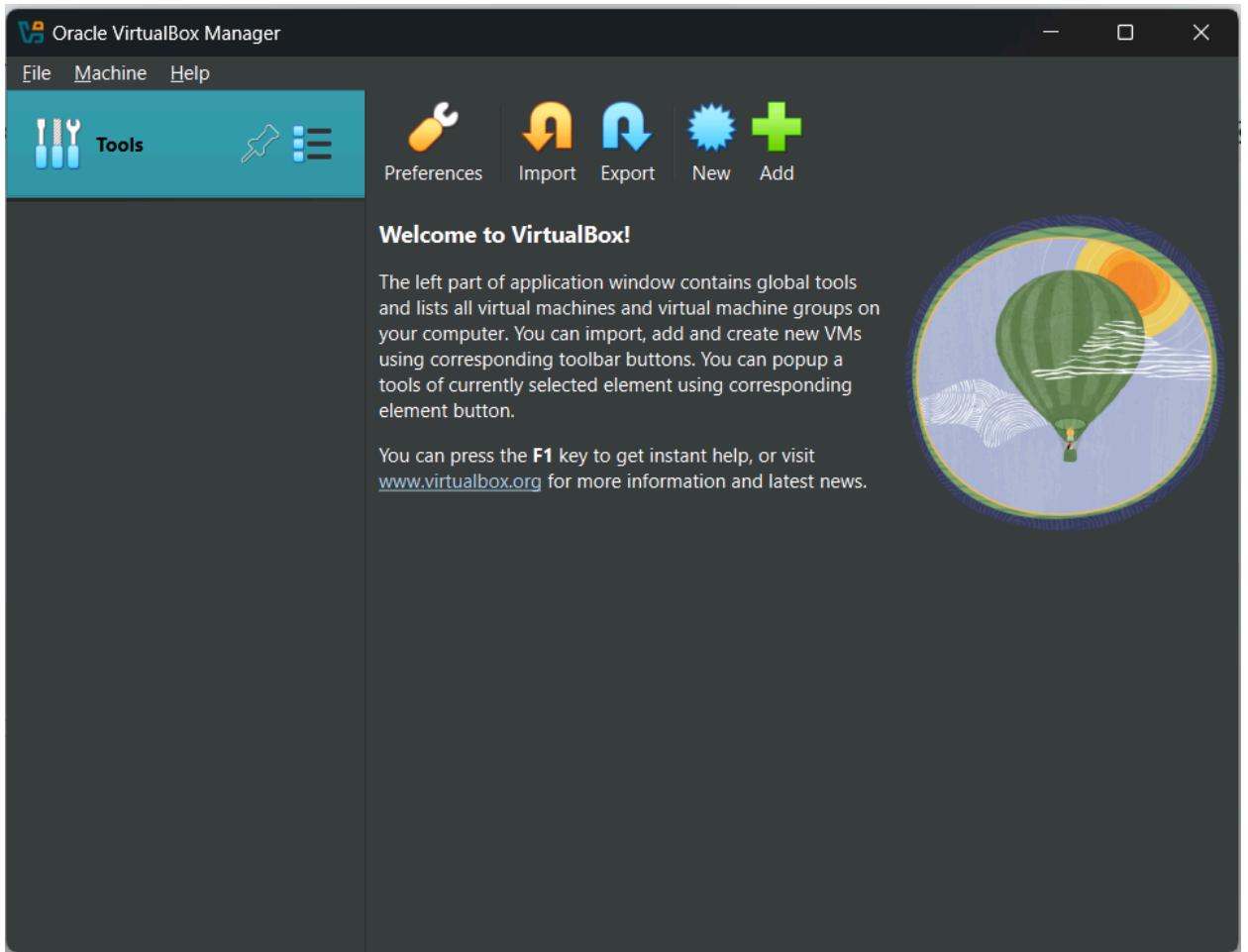
- Click Install





- Click Finish to complete the installation





Downloading the Ubuntu ISO file (22.04)

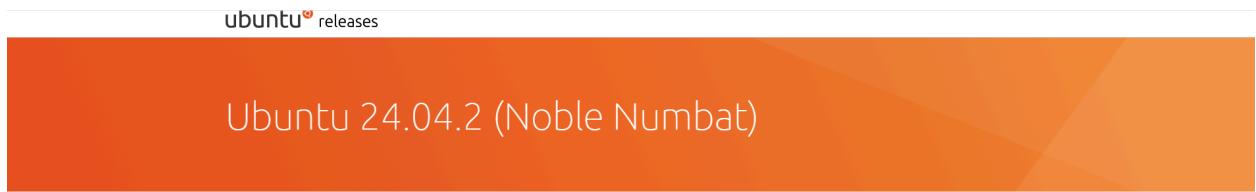
- Go to the link <https://releases.ubuntu.com/>
- Click the version you need to download

A screenshot of the Ubuntu releases page. The header says "ubuntu® releases". The main content area says "These releases of Ubuntu are available". It shows two columns: "Standard support" and "Extended Security Maintenance (ESM)".

LTS Releases	Interim Releases
Ubuntu 24.04.2 LTS (Noble Numbat) ›	Ubuntu 24.10 (Oracular Oriole) ›
Ubuntu 22.04.5 LTS (Jammy Jellyfish) ›	Ubuntu 25.04 (Plucky Puffin) ›
Ubuntu 20.04.6 LTS (Focal Fossa) ›	

Extended Security Maintenance (ESM)
Ubuntu 18.04.6 LTS (Bionic Beaver) ›
Ubuntu 16.04.7 LTS (Xenial Xerus) ›
Ubuntu 14.04.6 LTS (Trusty Tahr) ›

- Here, click and download the **64-bit PC (AMD64) desktop image**



Select an image

Ubuntu is distributed on five types of images described below.

Desktop image

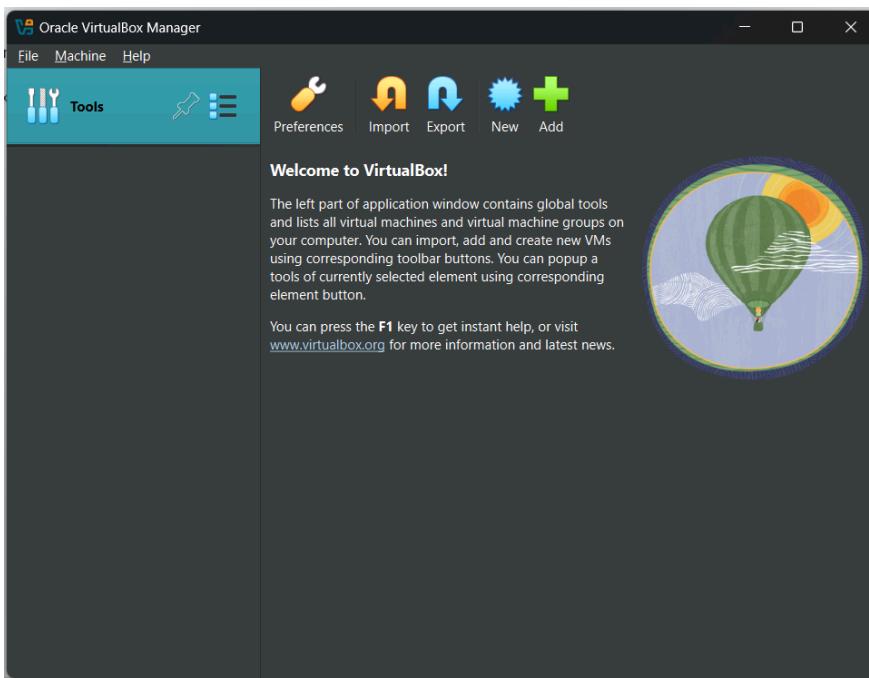
The desktop image allows you to try Ubuntu without changing your computer at all, and at your option to install it permanently later. This type of image is what most people will want to use. You will need at least 1024MB of RAM to install from this image.

64-bit PC (AMD64) desktop image

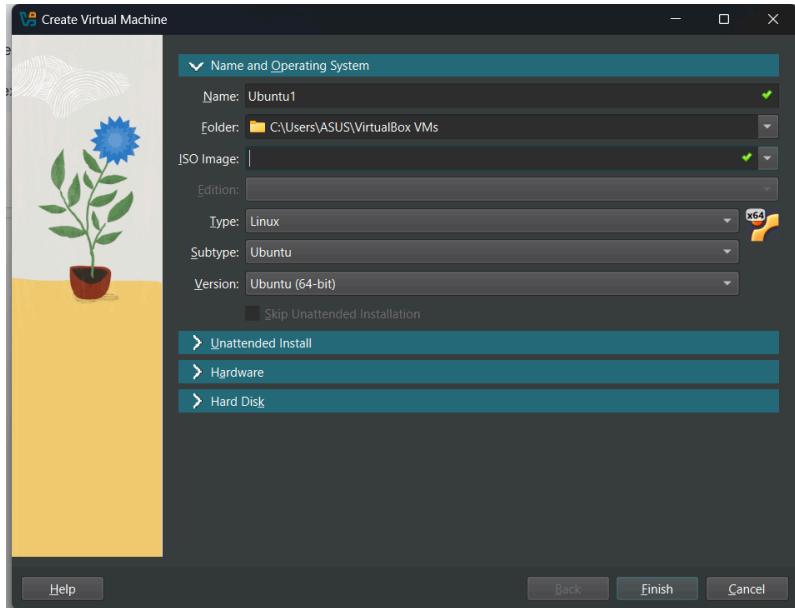
Choose this if you have a computer based on the AMD64 or EM64T architecture (e.g., Athlon64, Opteron, EM64T Xeon, Core 2). Choose this if you are at all unsure.

Create a Virtual Machine In Virtual Box

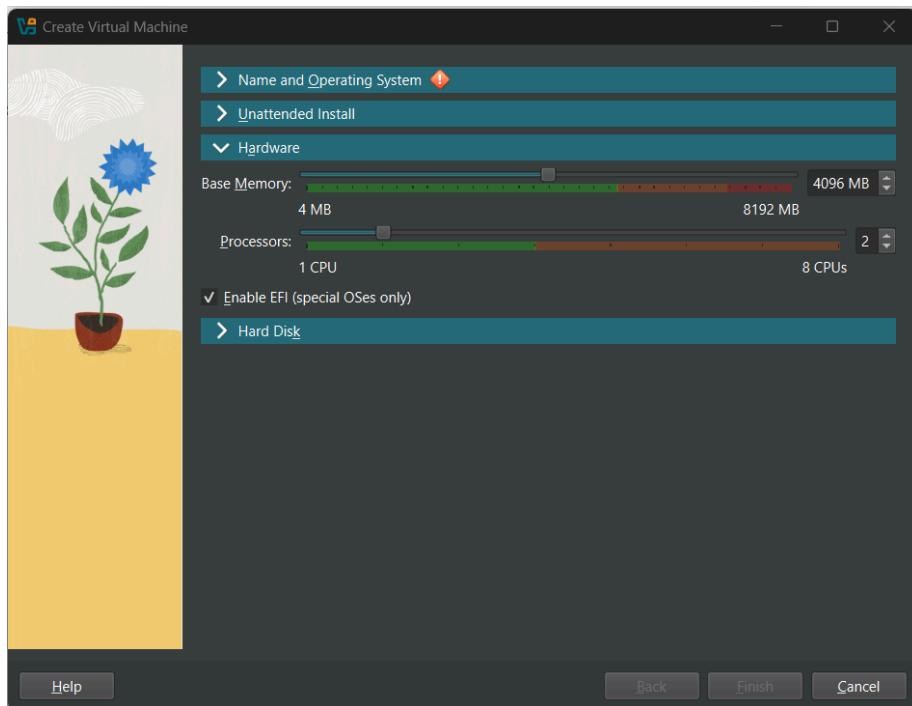
- Open Virtual Box and Click New button.



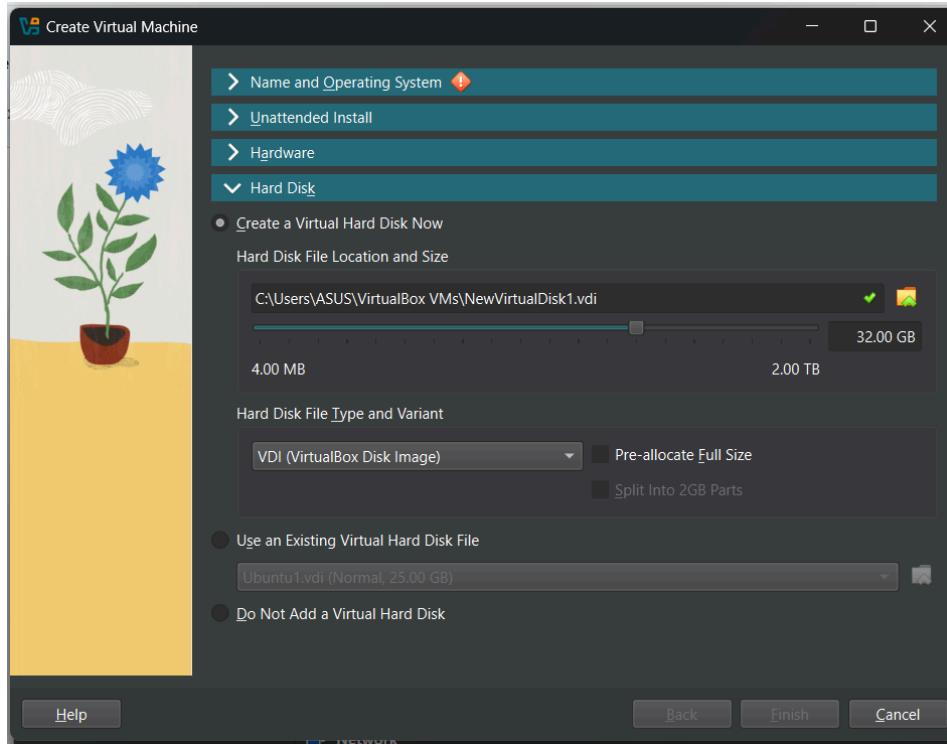
- Then give the name as Ubuntu1, type as Linux , Subtype as Ubuntu and Version as Ubuntu (64 bit) Under the Name and Operating System
- In here either you can select the ISO image file you have downloaded previously directly here (by clicking down arrow of ISO image then clicking ‘other’ option then select the downloaded ISO image and click OK) or you can add ISO file after clicking finish



- Under Hardware for base memory at least 4096MB and for processors give at least 1 CPU.

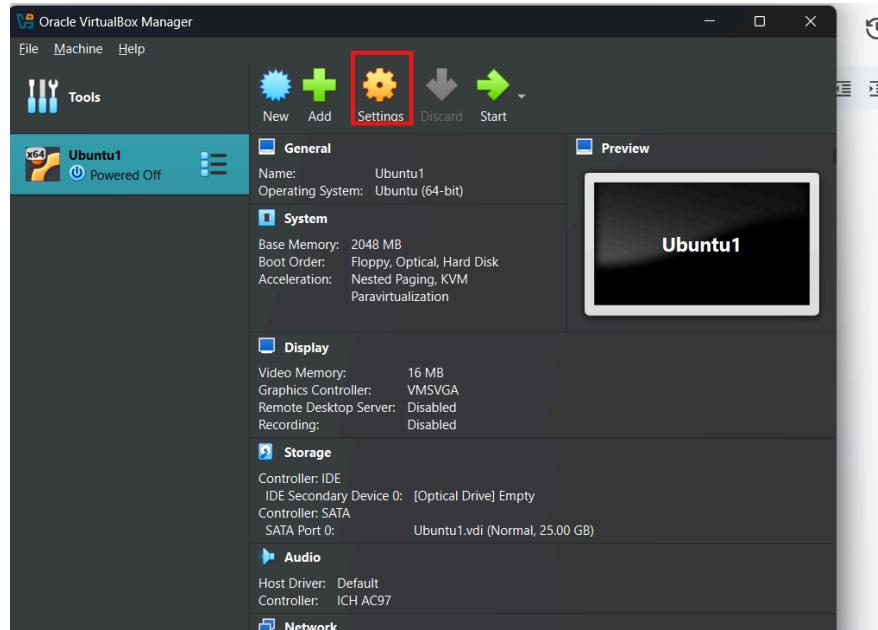


- Under hard disk select the option ‘create a Virtual Hard Disk now’ and select the memory size at least for 20 GB.

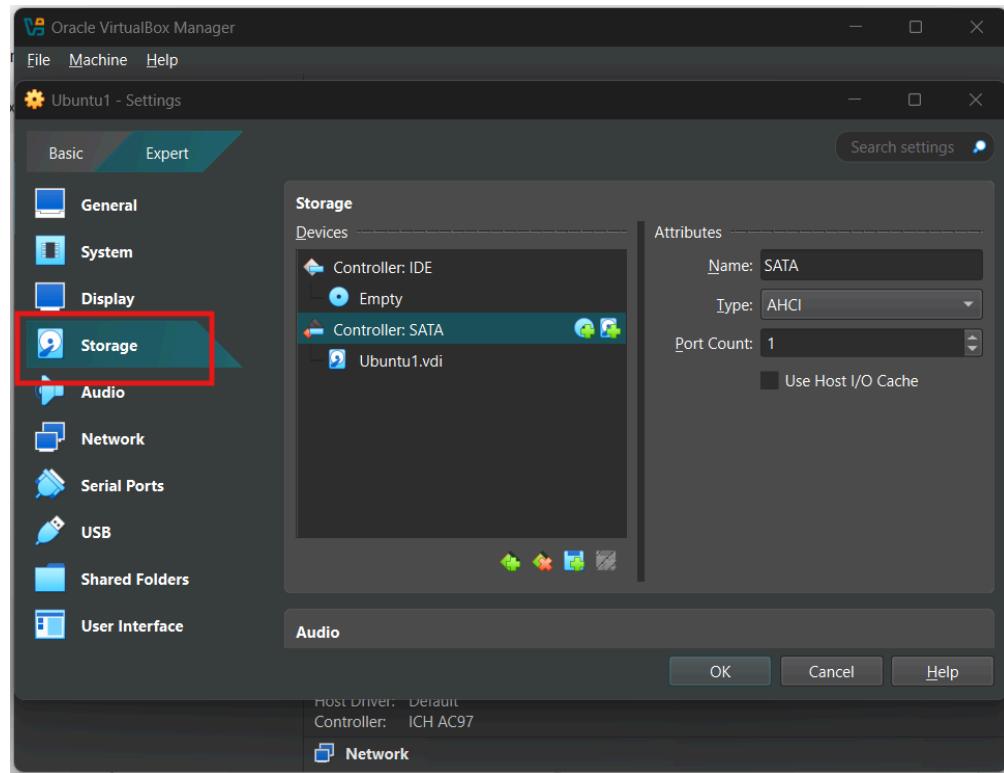


- If you need you can change these settings later using ‘settings’ option
- If you did not add the ISO image file while you are creating the Machine , then follow the following steps.

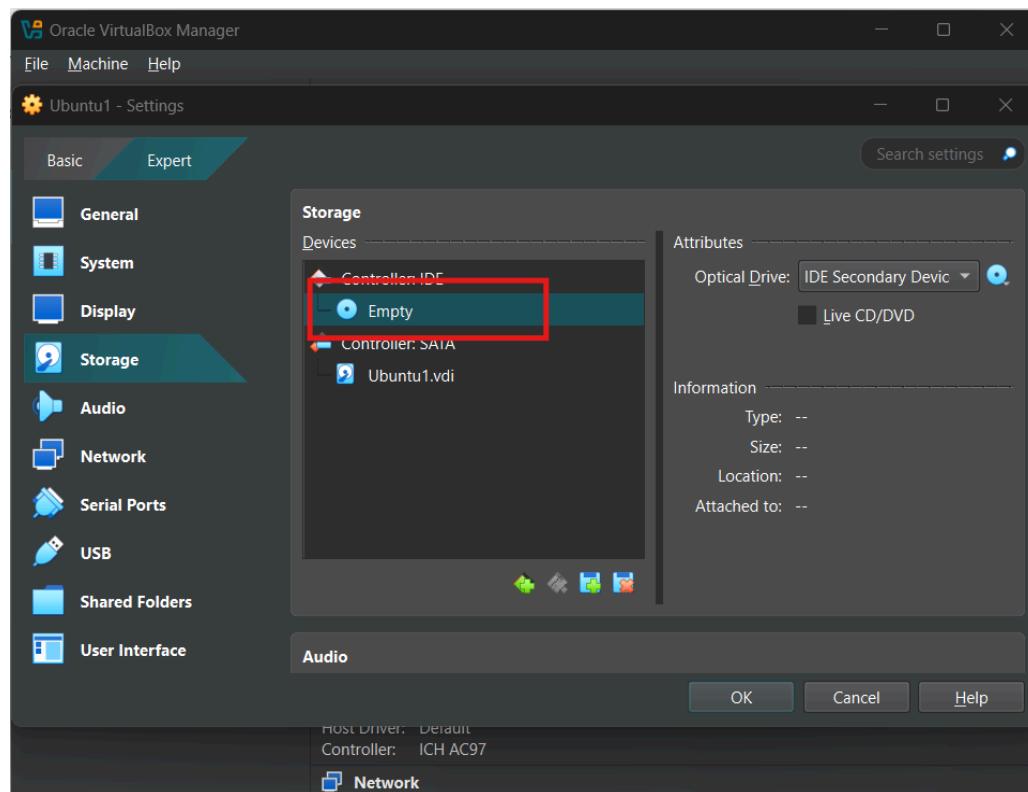
- Select the machine you created and click settings button



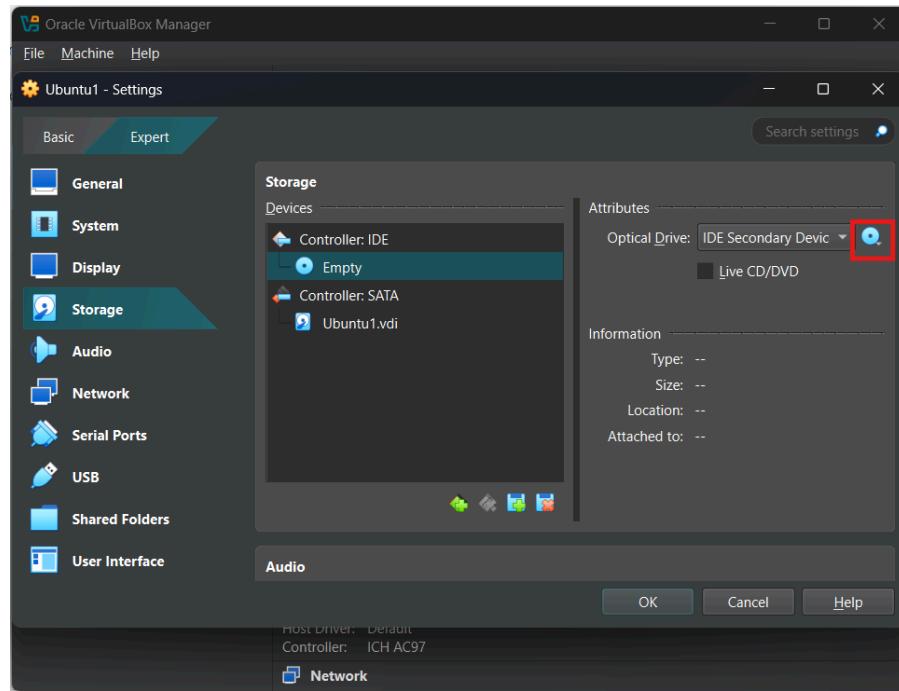
- Then Select storage option from expert menu



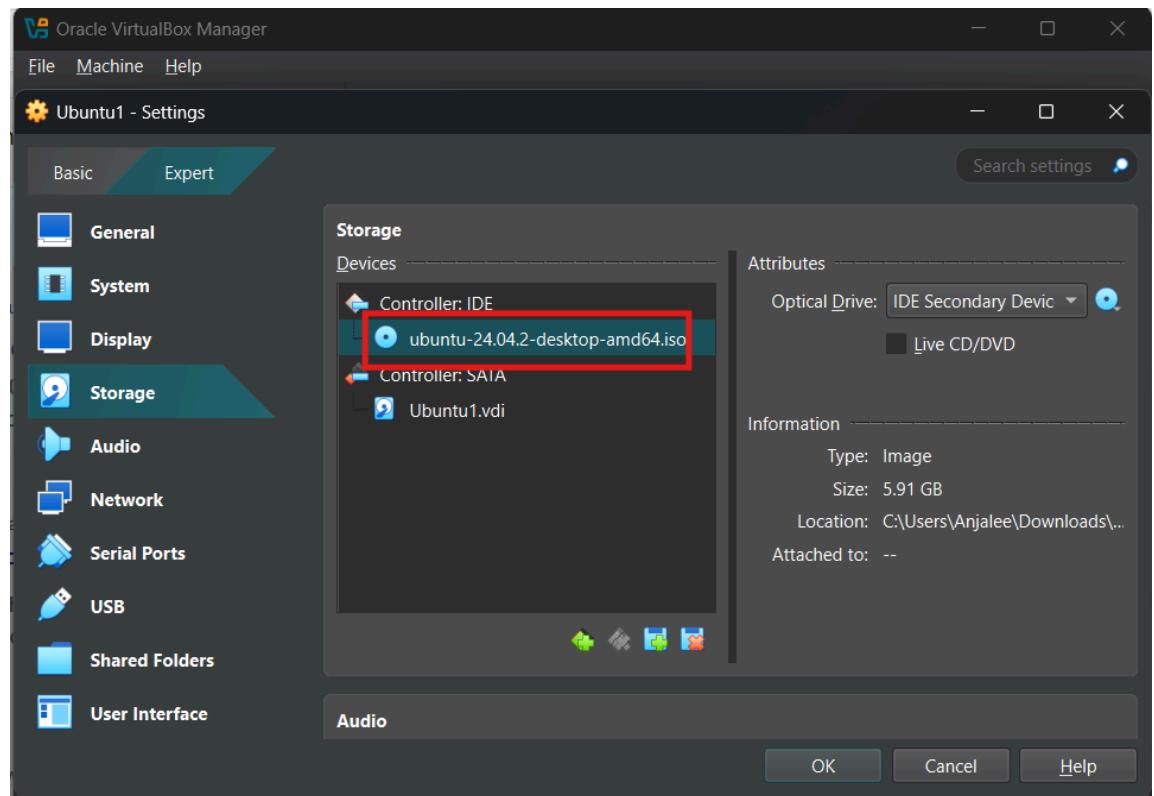
- Then under Controller. IDE select empty



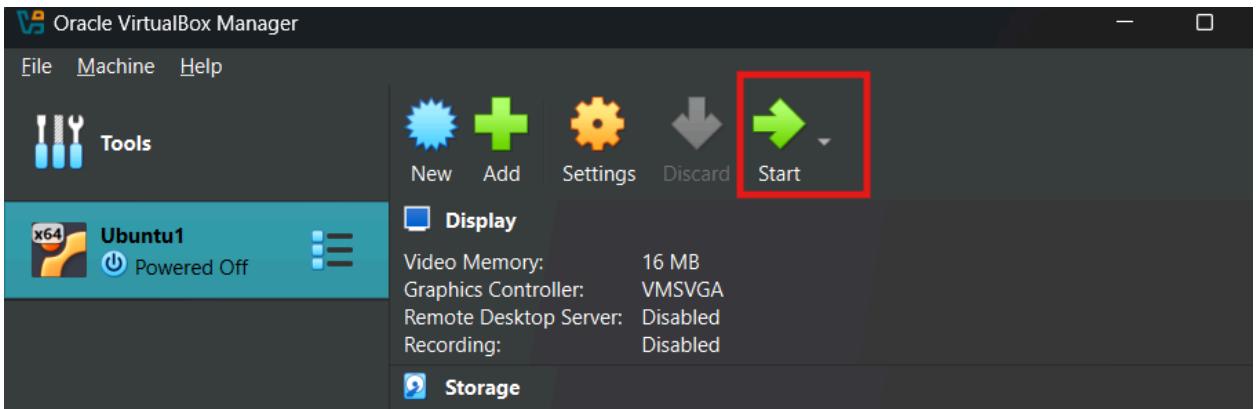
- Then under attributes click the small disk icon, then select choose a Disk File and select the downloaded ISO image from where you saved it and click OK



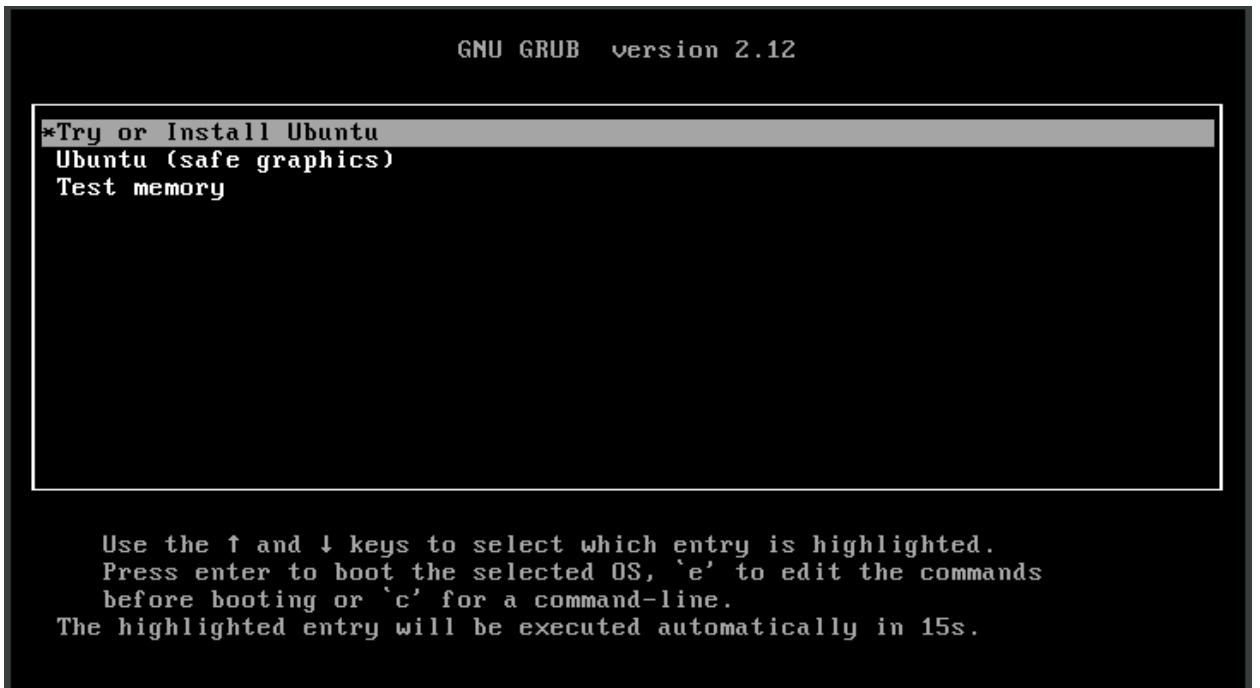
- Now you can see that the disk image has been added. Now click OK



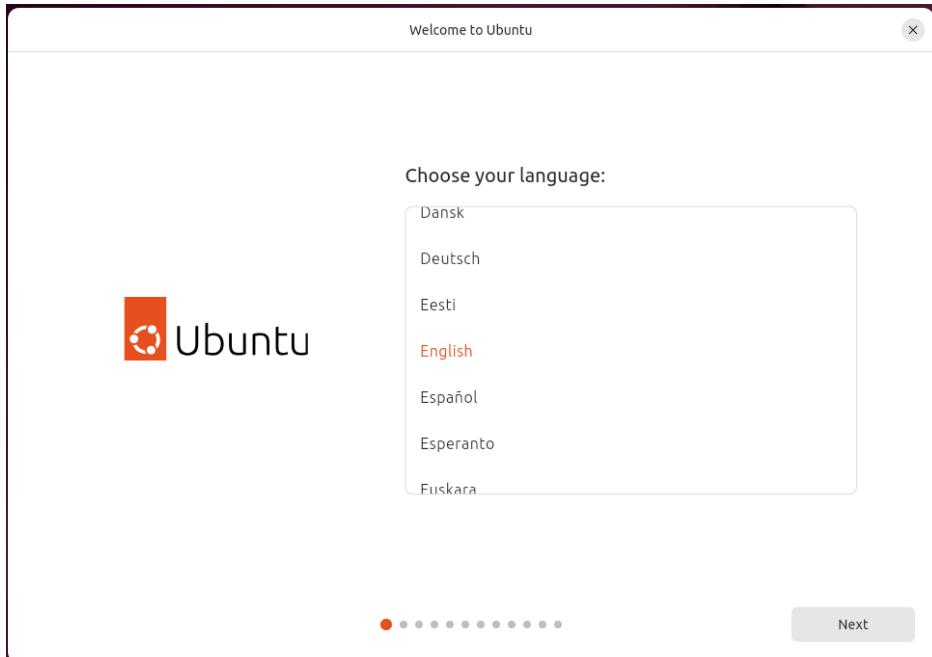
- Now select the virtual machine you have created and click start.



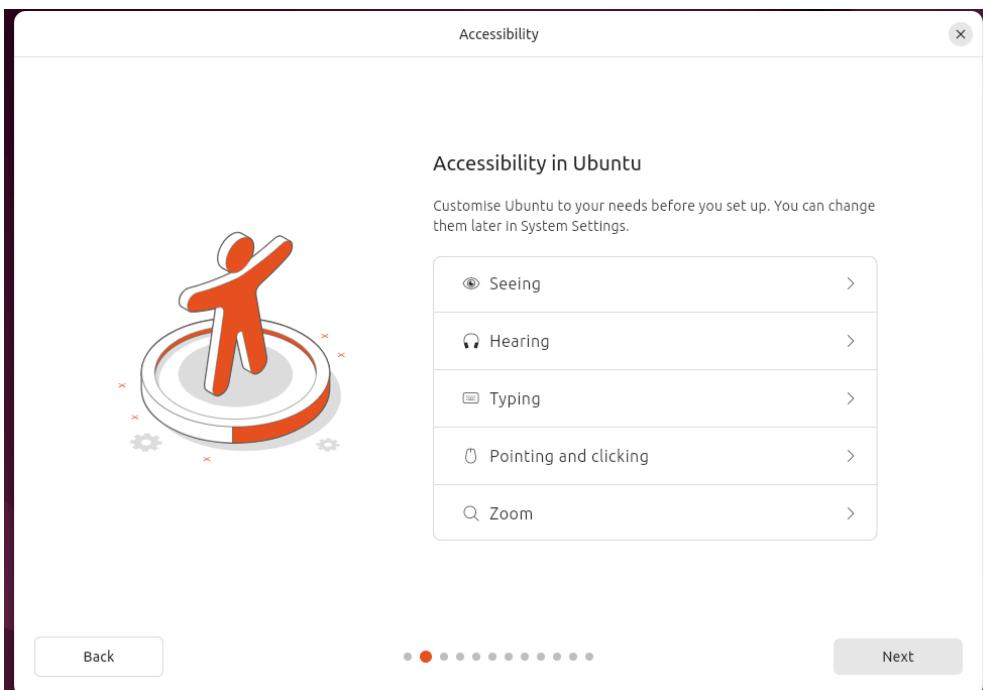
- Now you are in the Ubuntu OS installation.
- Select try or Install Ubuntu option and press enter (Following steps may different according to the version of the ubuntu)



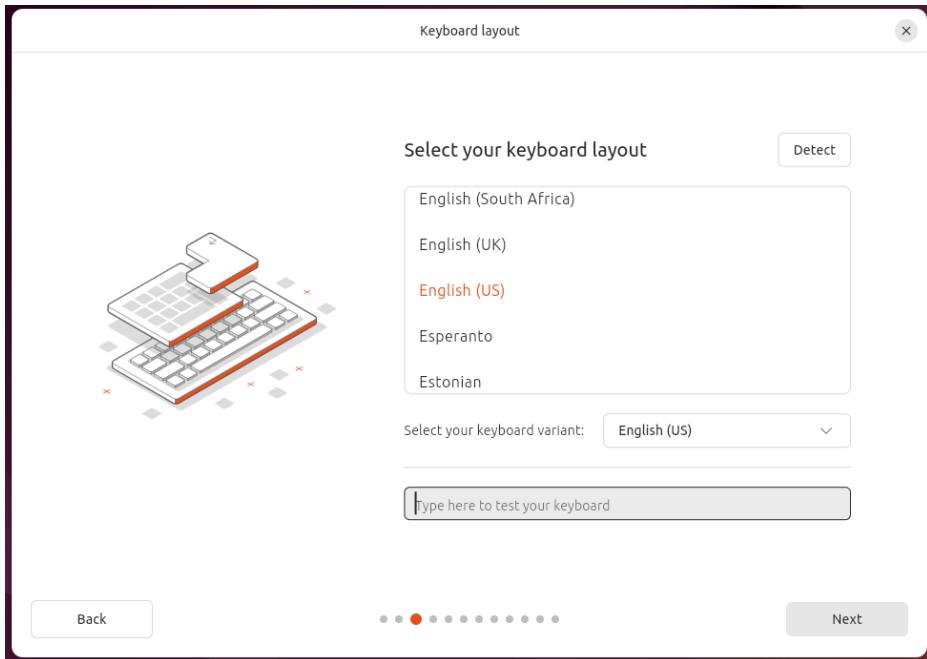
- Then Click install ubuntu button.
- Select the language as English and click next.



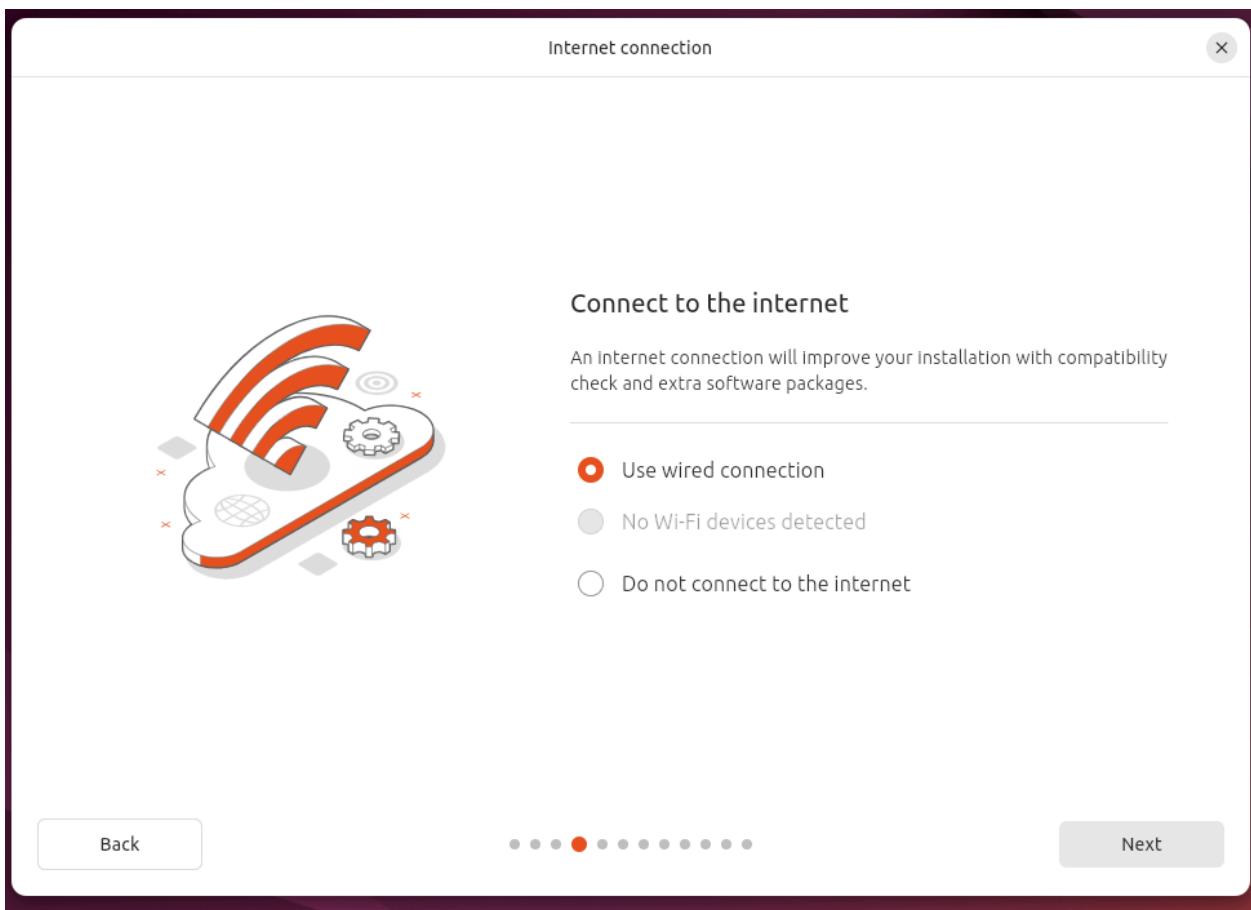
- Change any option as you wish and Click Next



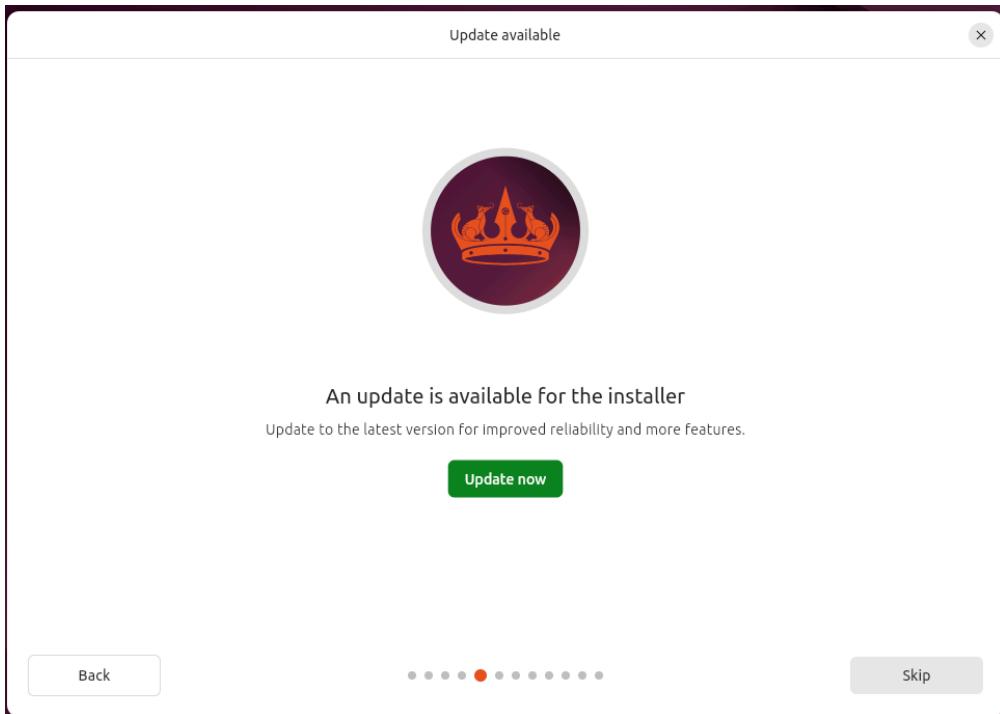
- Select keyboard layout you need



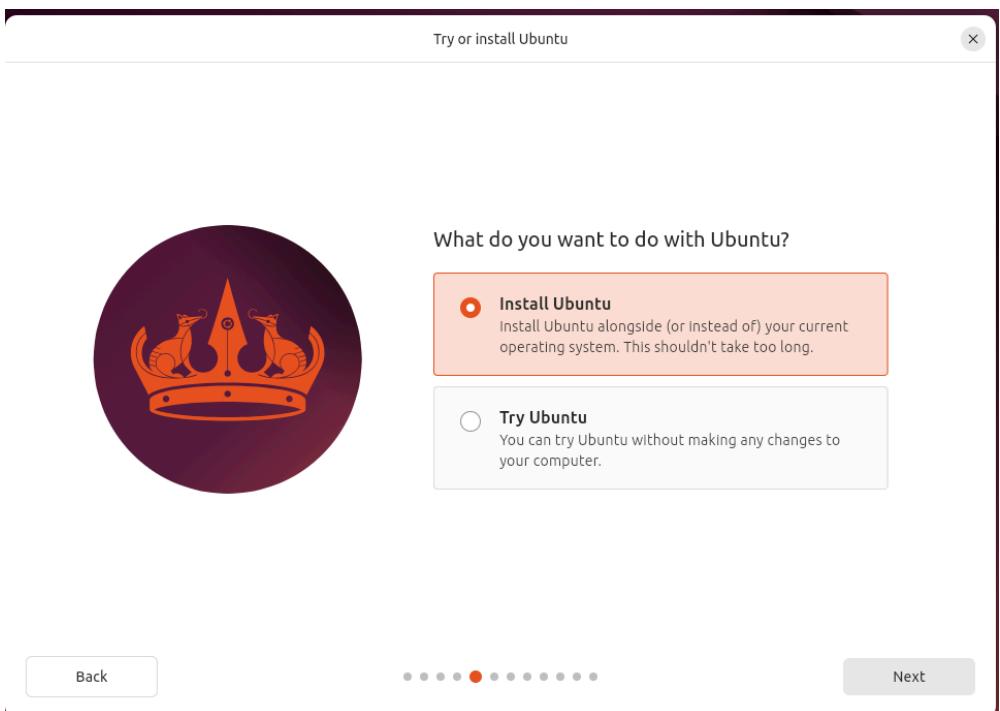
- Click Next



- You can install the updates while installation or you can also skip the updates



- Select Install ubuntu and give next



- Select interactive installation and click next

Type of installation X

How would you like to install Ubuntu?



Interactive installation
For users who want to be guided step by step through the Installation.

Automated installation
For advanced users who have an autoinstall.yaml for consistent and repeatable system setups.

Back • • • • • Next

- Select either default or extended selection as you wish and click next

Applications X

What apps would you like to install to start with?

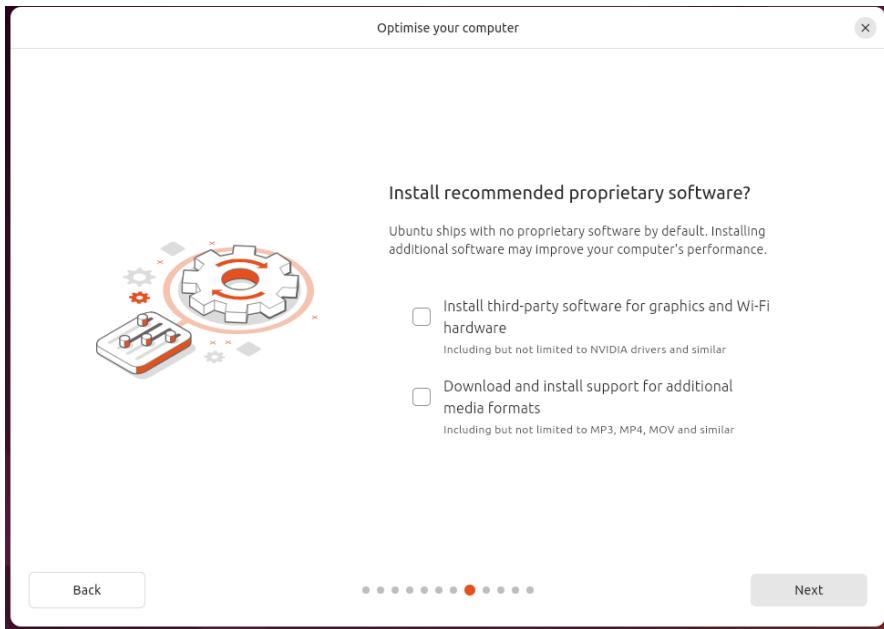


Default selection
Just the essentials, web browser and basic utilities.

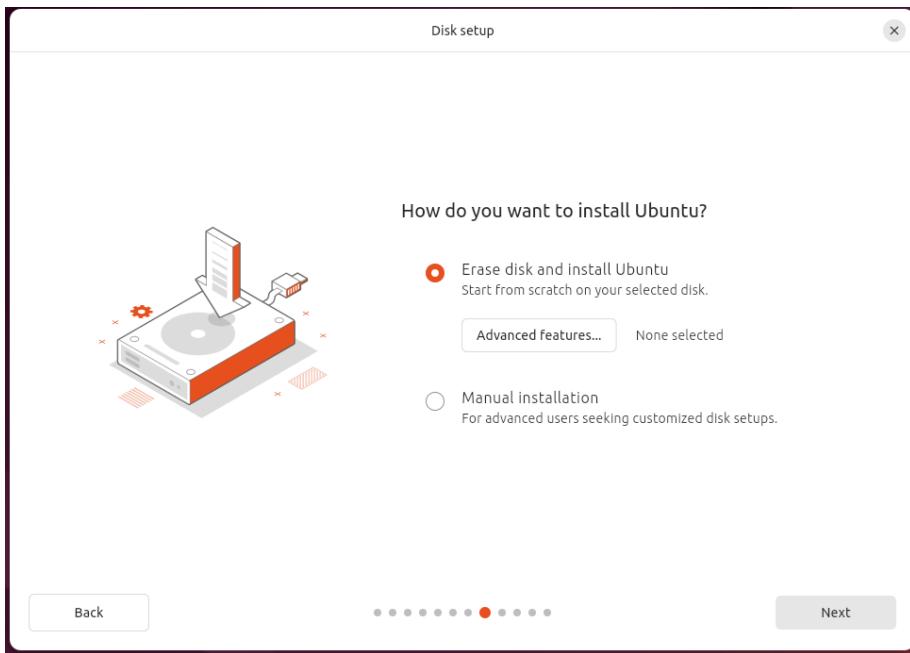
Extended selection
An offline-friendly selection of office tools, utilities and web browser.

Back • • • • • Next

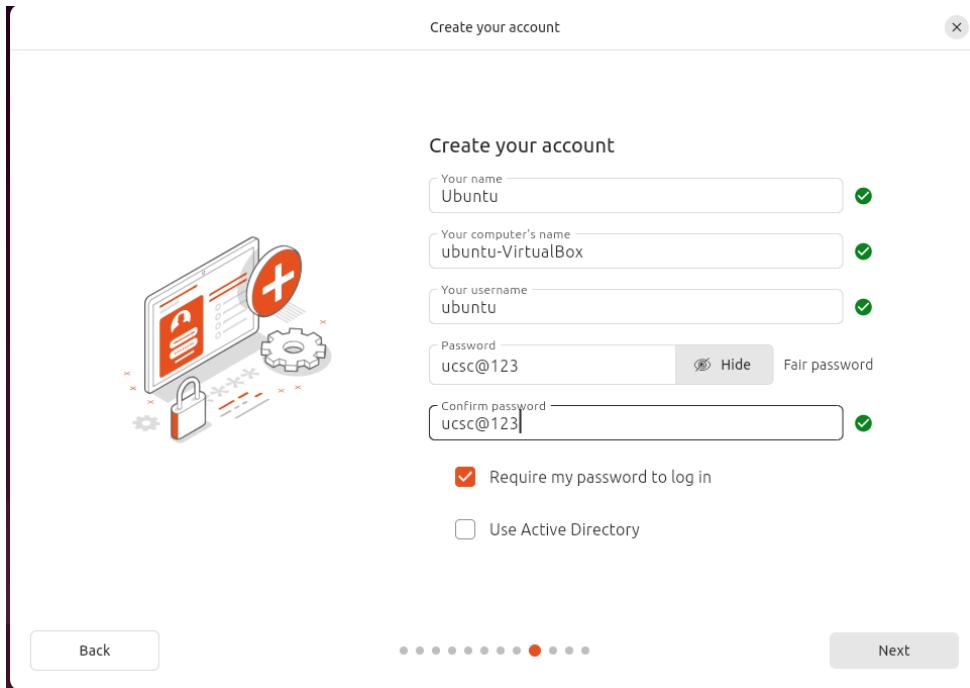
- Here you can select these options as you wish and click next



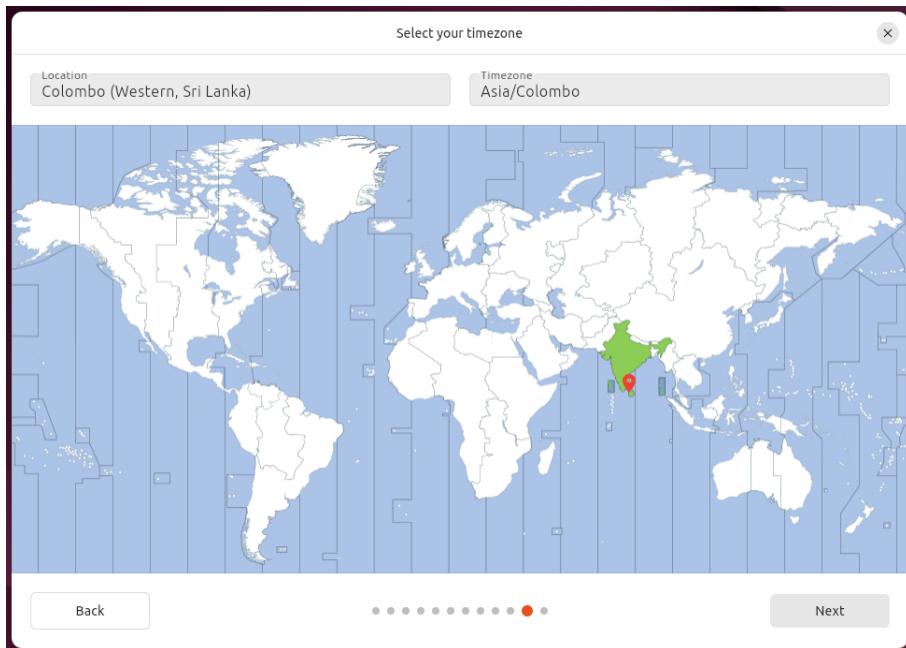
- Select erase disk and install ubuntu option and give next.



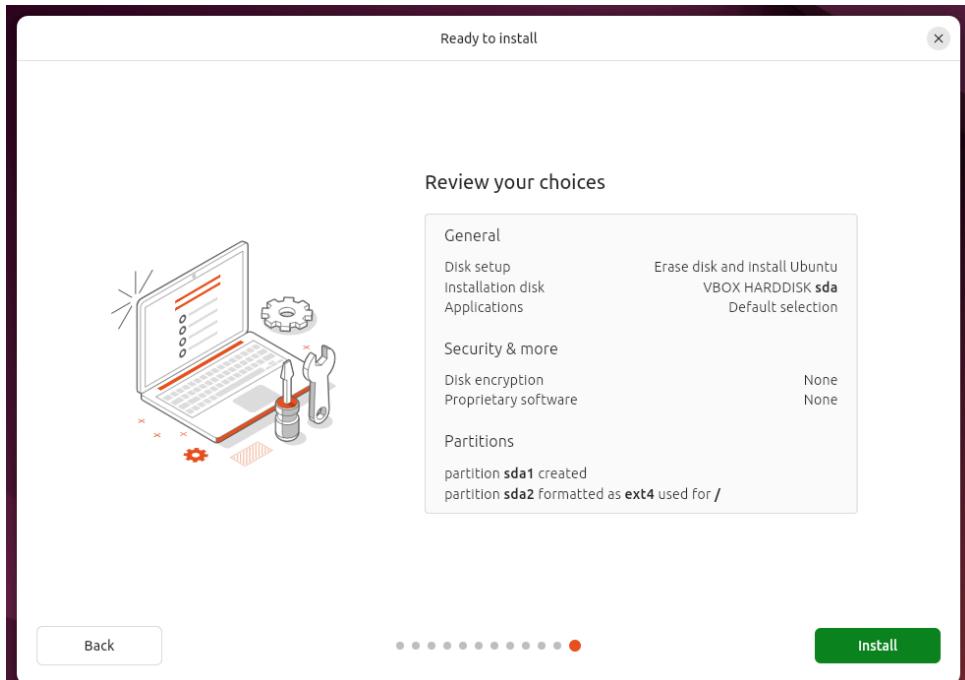
- Then insert a '**UCSC**' as name and '**ucsc@123**' as password and select option login automatically or the other option, then click next.



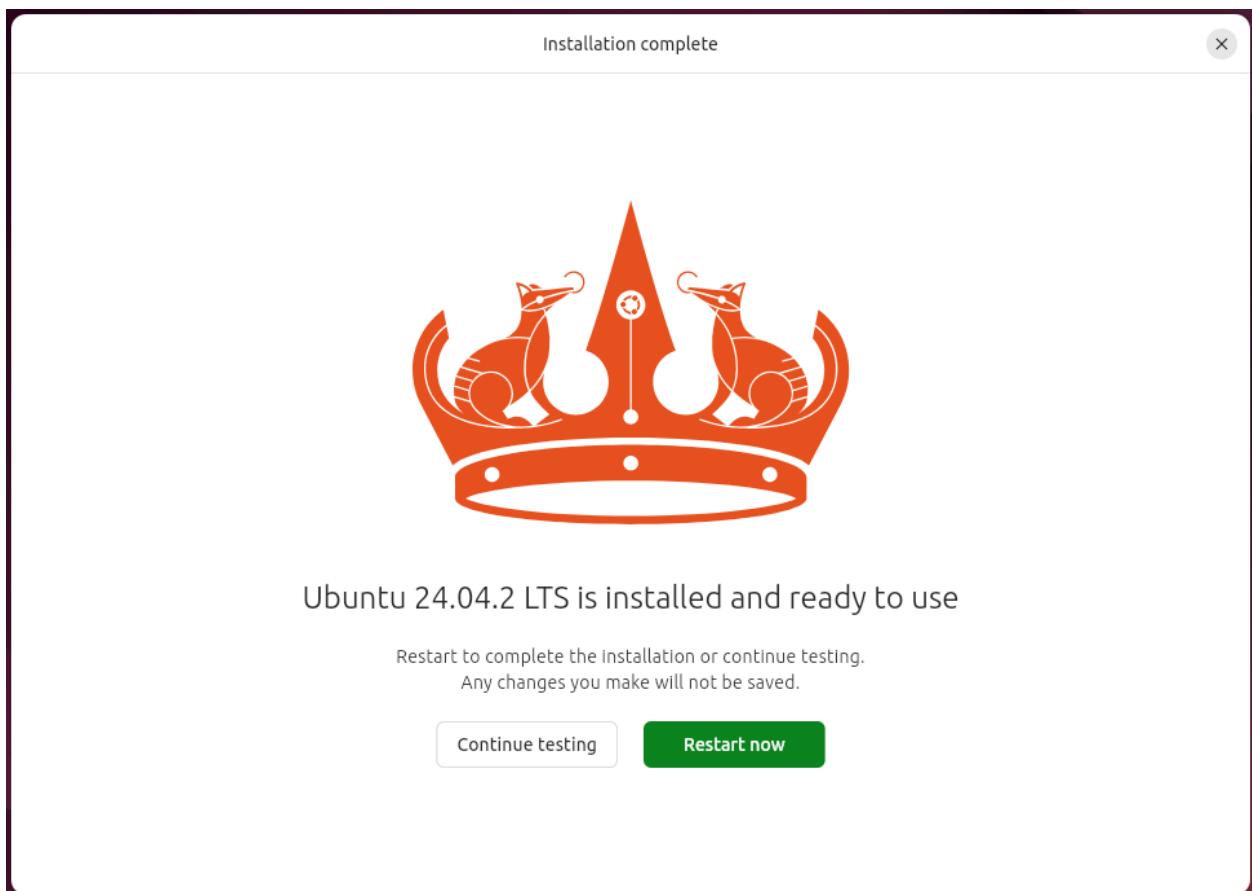
- Select the region and click next



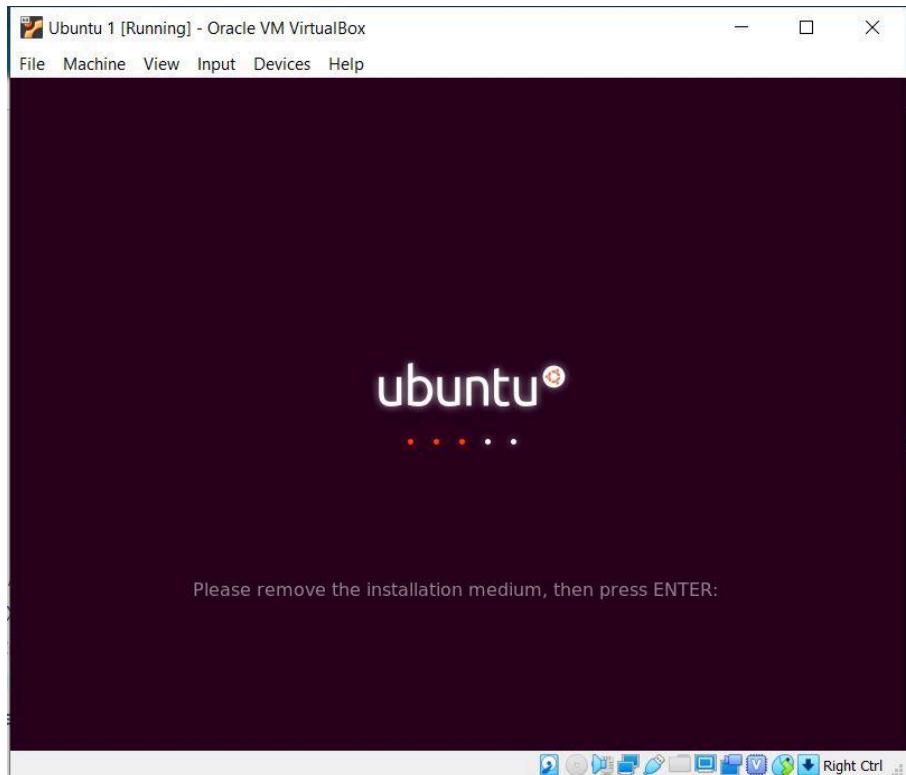
- Click Install



- After installation click restart now .



- While restarting or after that you have to remove the installation medium from where we set the installation medium. (storage> controller IDE).



- Now a virtual machine is successfully created in the virtual box which we need for our future practicals.