

3. Install VirtualBox / VMware Workstation with different flavors of Linux or Windows OS on top of Windows 8 or above.

Aim:- To install Oracle VirtualBox on a Windows system and setup Ubuntu 24.04.3 LTS as a virtual machine for testing and usage.

Requirements:-

- Chrome Browser and Microsoft Visual C++
- Oracle VirtualBox and Ubuntu ISO File



Steps To Installation VirtualBox:-

Step-1: Downloading Oracle Virtual Box on Windows

Go to the Chrome browser and search for “VirtualBox”, then open the official Oracle VirtualBox website, click on the Download button, choose Windows Hosts from the available options, and the executable file will be downloaded to your system.

virtualbox

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Oracle VirtualBox
https://www.virtualbox.org

Powerful open source virtualization. For personal and enterprise use. VirtualBox is a general-purpose full virtualization software for x86_64 hardware (with ...)

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Powerful open source virtualization

For personal and enterprise use

VirtualBox is a general-purpose full virtualization software for x86_64 hardware (with version 7.1 additionally for macOS/Arm and with version 7.2 also for Windows/Arm), targeted at laptop, desktop, server and embedded use.

Get Started

Download

Download VirtualBox binaries and platform packages

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VirtualBox Platform Packages

VirtualBox 7.2.4 platform packages

- Windows hosts
- macOS / Intel hosts
- macOS / Apple Silicon hosts
- Linux distributions
- Solaris hosts
- Solaris 11 IPS hosts

VirtualBox Extension Pack

VirtualBox 7.2.4 Extension Pack

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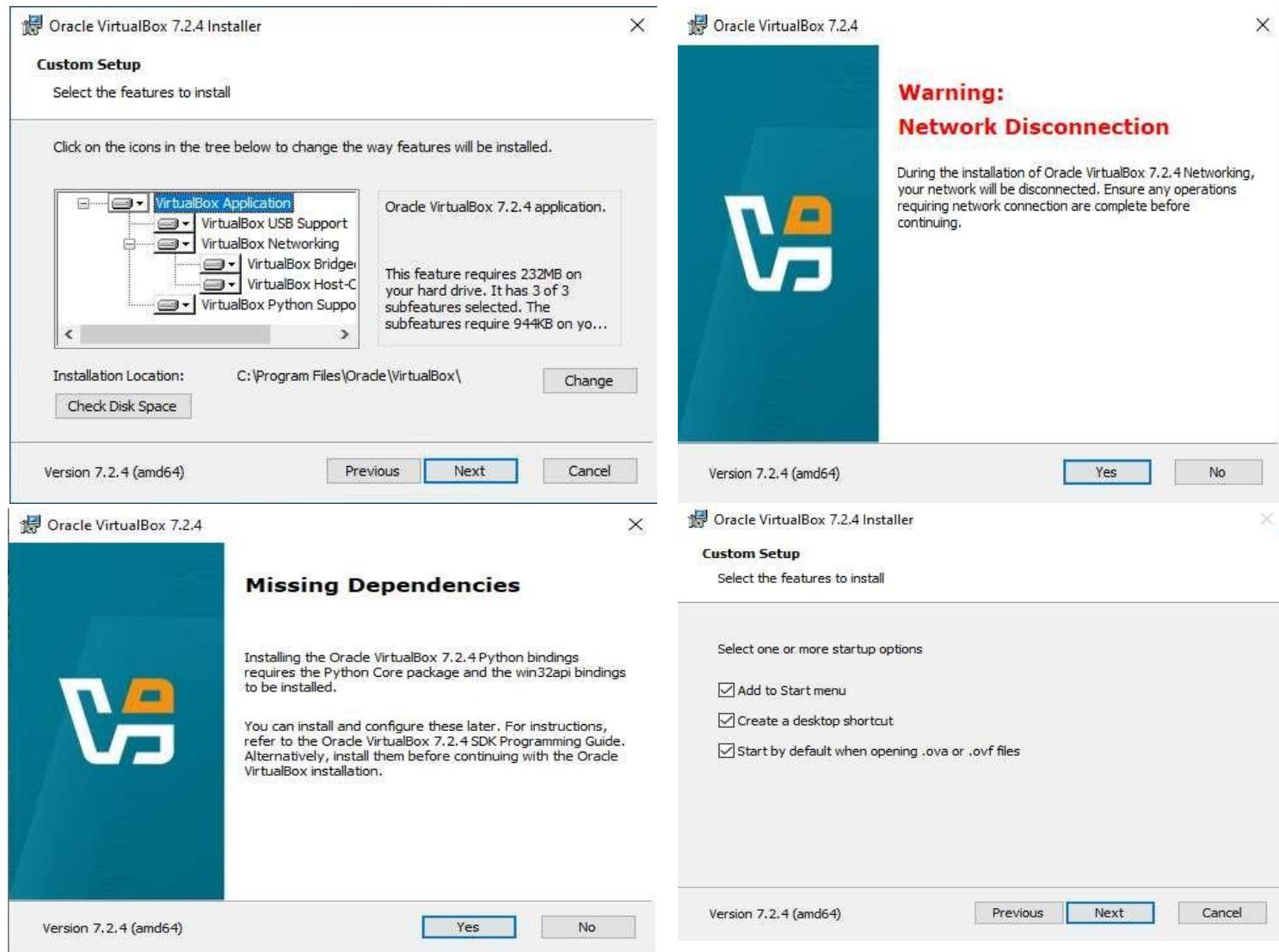
See our [FAQ](#) for answers to common questions.

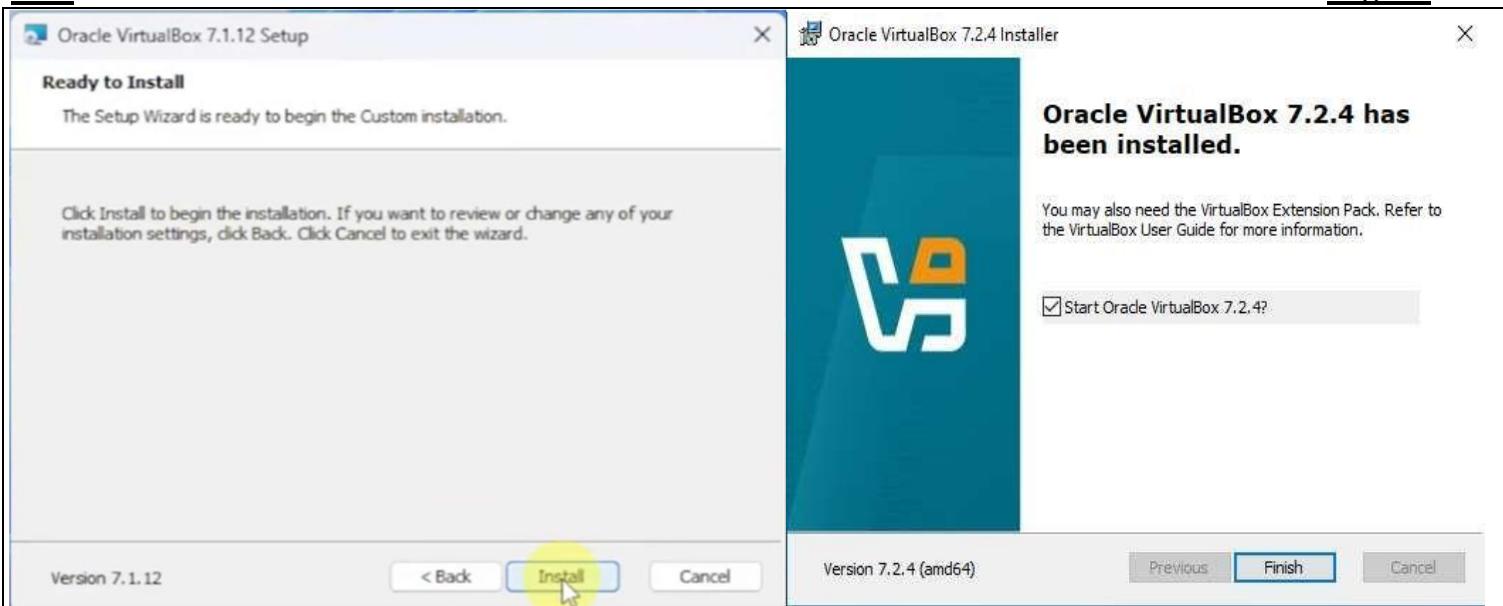
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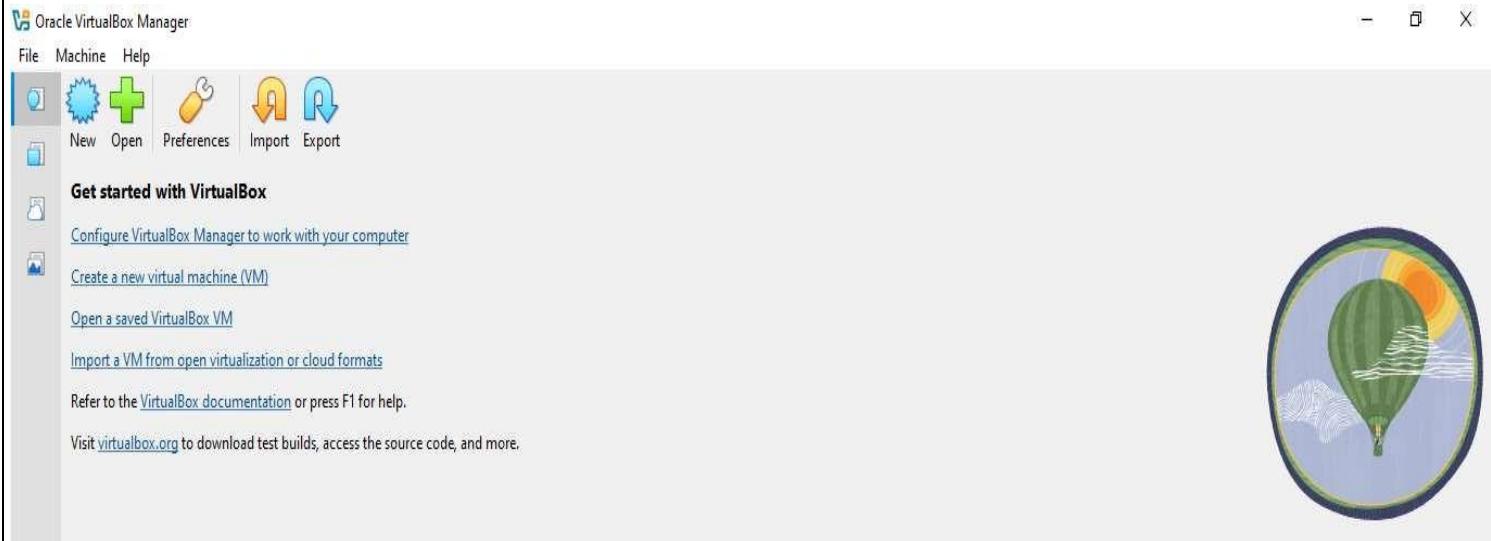
Step-2: Installing OracleVirtual Box on Windows

Click the downloaded executable file → the setup window opens → click Next → select “I accept the terms in the License Agreement” → click Next → in Setup / File Location, keep the default settings → click Next → click Yes → click Yes → in Custom Setup, keep the default options → click Next → click Install → after successful installation, click Finish to complete the process.





The interface will look like this.



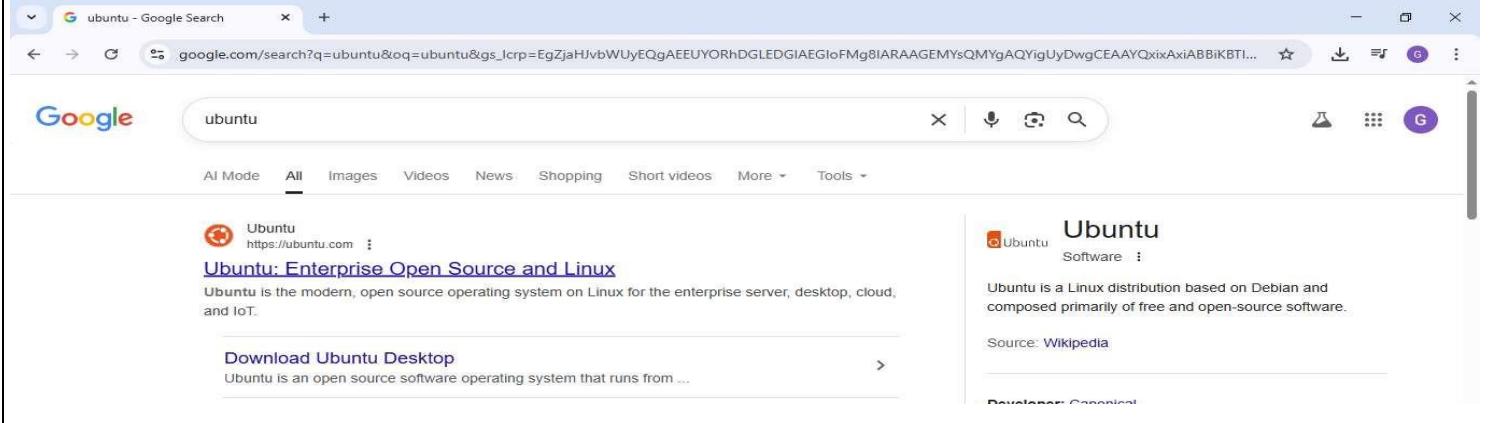
Note:-PrerequisiteRequirement

Before installing VirtualBox, ensure that Microsoft Visual C++ 2019 is already installed on your system.

StepsToInstallationOfUbuntu:-

Step-1:DownloadingUbuntuDesktopISO

Go to the Chrome browser and search for Ubuntu, open the official website ubuntu.com, navigate to Products → Ubuntu Desktop, click Download Ubuntu Desktop, scroll to find Ubuntu 24.04.3 LTS, and click the Download button to start downloading the ISO file.



The screenshot shows the Canonical Ubuntu website with the desktop product selected. The left sidebar lists various products like Featured, Ubuntu OS, Private cloud, Public cloud, Virtualization, Security and support, and Kubernetes. The main content area highlights the Ubuntu Desktop product as fast, modern, and secure Linux, with links to Ubuntu Server, MAAS, and Snapcraft.

The screenshot shows the Ubuntu download page for the desktop version. It features a large image of a red crown icon. The page title is "Ubuntu 24.04.3 LTS". Below the title, it says "The latest LTS version of Ubuntu, for desktop PCs and laptops. LTS stands for long-term support — which means five years of free security and maintenance updates, extended up to 15 years with Ubuntu Pro." A "Download" button is available for "Intel or AMD 64-bit architecture". To the right, there's a thumbnail of the ISO file named "ubuntu-24.04.3-desktop-amd64.iso". Below the download section, there are links for "What's new", "System requirements", and "How to install", along with two bullet points about the new desktop installer and App Center.

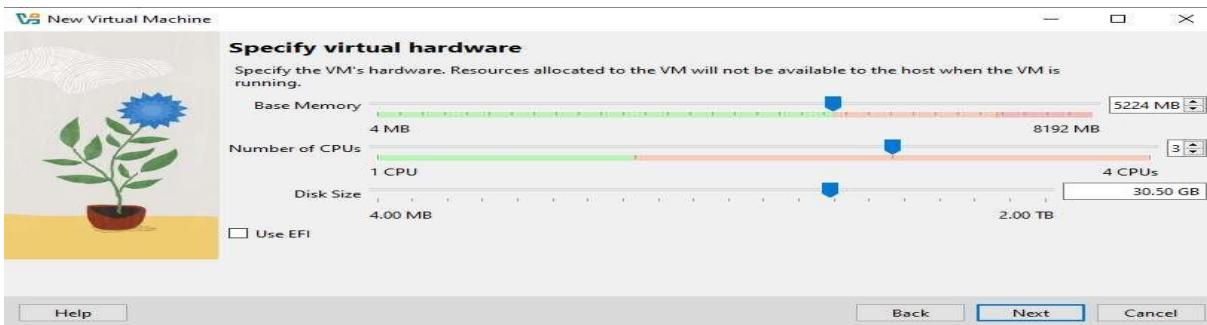
Installation Of Ubuntu On VirtualBox:-

Step-1:Creating a New Virtual Machine in VirtualBox

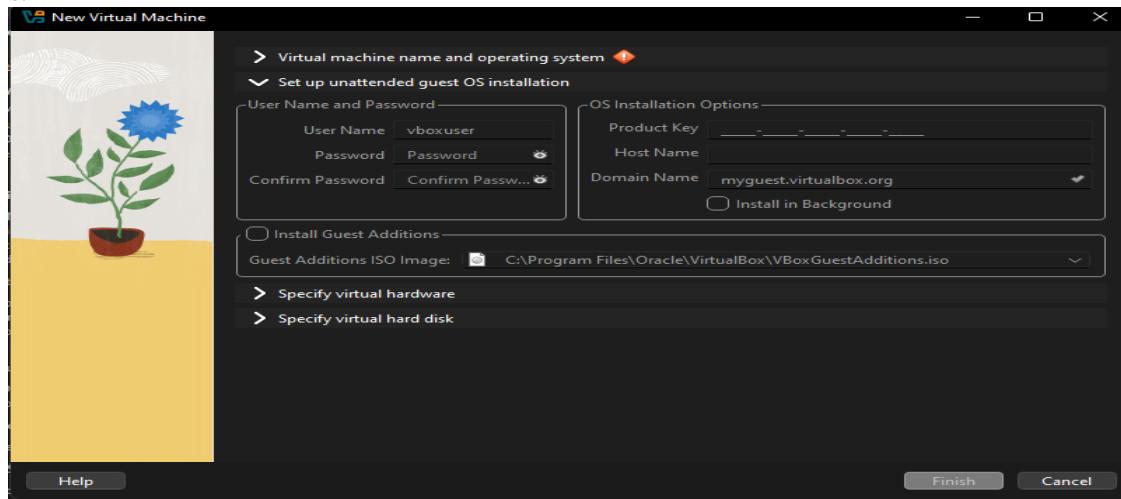
Open VirtualBox, click New, fill in the required fields as shown in the image, and browse to select the Ubuntu ISO file from the Downloads folder.

The screenshot shows the Oracle VirtualBox Manager interface on the left and the "New Virtual Machine" wizard on the right. In the VirtualBox Manager, there are icons for Network, Preferences, Import, and Export. The "Get started with VirtualBox" section includes links for "Configure VirtualBox Manager to work with your computer", "Create a new virtual machine (VM)", "Open a saved VirtualBox VM", "Import a VM from open virtualization or cloud formats", "Refer to the VirtualBox documentation or press F1 for help.", and "Visit [virtualbox.org](#) to download test builds, access the source code, and more.". The "New Virtual Machine" wizard step "Virtual machine name and operating system" is shown, with fields for VM Name (Ubuntu 24.04), VM Folder (C:\Users\user\VirtualBox VMs), ISO Image (C:\Users\user\Downloads\ubuntu-24.04.3-desktop-amd64.iso), OS Edition (Ubuntu), OS (Linux), OS Distribution (Ubuntu), and OS Version (Ubuntu (64-bit)). A checkbox for "Proceed with Unattended Installation" is checked, and a note states: "Detected OS type: Ubuntu (64-bit). VirtualBox will install the OS using an unattended installation when the VM is created. Supply the required information in the following steps." Navigation buttons at the bottom include Back, Next, Cancel, and Go to next wizard page.

Step-2:ConfiguringUserDetailsandHostname



Enter the username and password, change the hostname from Ubuntu 24.04 to Ubuntu, and tick the checkbox to Install Guest Additions.

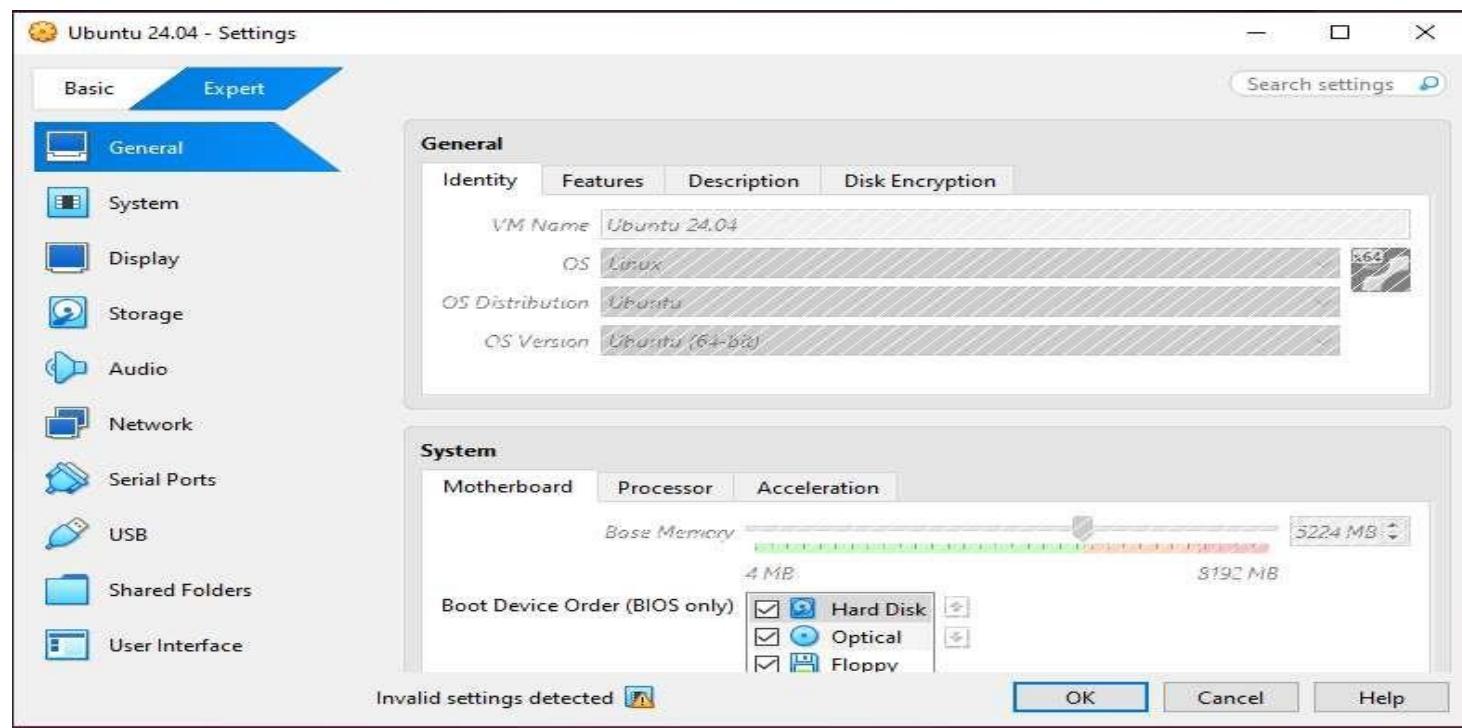


Step-3:ConfiguringVirtualHardwareandFinalizingSetup

Click Next, then in the Specify Virtual Hardware window, adjust the Base Memory, Number of CPUs, and Disk Size as shown, click Next, review your settings in the Summary window, and click Finish to complete the virtual machine setup.

Step-4: Launching Ubuntu in VirtualBox

The Ubuntu OS is now added to VirtualBox. When you open it for the first time, it will start normally. On subsequent launches, it will prompt you to enter the password you created during setup.



Conclusion:-

- Installing **VirtualBox** enables running Ubuntu on a Windows system without affecting the main OS.
- Configuring the virtual machine and installing **Guest Additions** improves performance and usability.
- This setup provides a safe and efficient environment for learning, development, and testing.