DSEU DWARKA CAMPUS

(Formerly Integrated Institute of Technology) Sector 9, Dwarka, NewDelhi-110077

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Cloud Computing

Subject code: CS-FC102

Lab File

Submitted To:

Megha Gupta

Professor

Department of Computer

Submitted By:

HIMANSHU KUMAR

Diploma CE 3 Year

10621220

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S.No.	Date	Name Of Experiment	Signature
1.		**Install virtual box/ VMware workstation with different OS (Windows OS / Linux) on existing windows version available in lab.**	
2		**Install C/Python compiler in VM created using virtual box and execute simple C/python programs.**	
3.		**Install google app engine. Create “Welcome to DSEU” app using python/java**	
4.		**Write a procedure to transfer file from virtual machine to other virtual machines**	

Practical -1

Aim : To install virtual box/VMware workstation with different OS (Window/Linux) on existing window.

Theory :

Virtual Box : VirtualBox is a cross-platform virtualization software that allows users to run multiple operating systems on a single device. It is an open-source, hosted hypervisor.

VirtualBox allows users to:

- Deploy desktops, servers, and operating systems as virtual machines
- Run multiple operating systems simultaneously, including Microsoft Windows, Mac OS X, Linux, and Oracle Solaris
- Generate virtualized computing environments (virtual machines) on a host system
- Mimic the capabilities of actual physical computers
- Allow additional operating systems to be installed on it, as a Guest OS
- Deliver code faster by running multiple operating systems on a single device

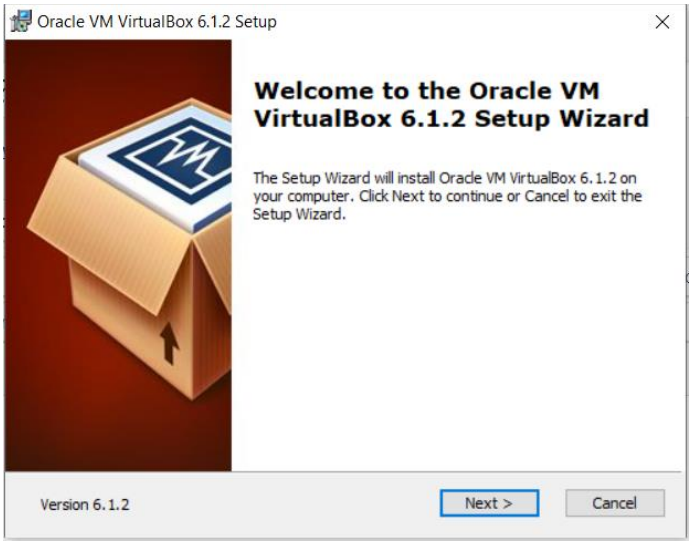
Ubantu : Ubuntu is a Linux-based operating system that's free and open-source. It's designed to run on desktops, laptops, and other computing devices, and is suitable for cloud computing, servers, and internet of things (IoT) devices. Ubuntu is known for being stable and reliable. It goes through extensive testing before each release to ensure it's bug-free. Ubuntu also has a built-in firewall and virus protection software.

Procedure

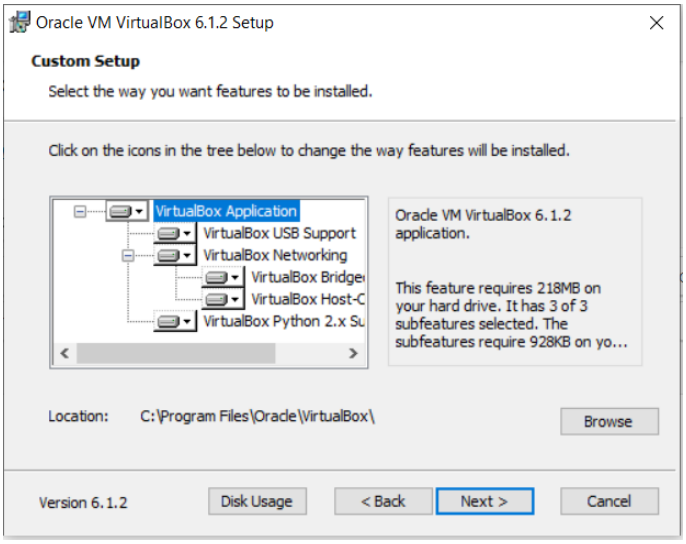
Step 1: Download and Install Virtual Box (on Windows)

1. Go to download section of official website of Oracle VirtualBox (https://www.virtualbox.org/wiki/Downloads)
2. Choose “Windows hosts” from “VirtualBox VERSION platform packages”.

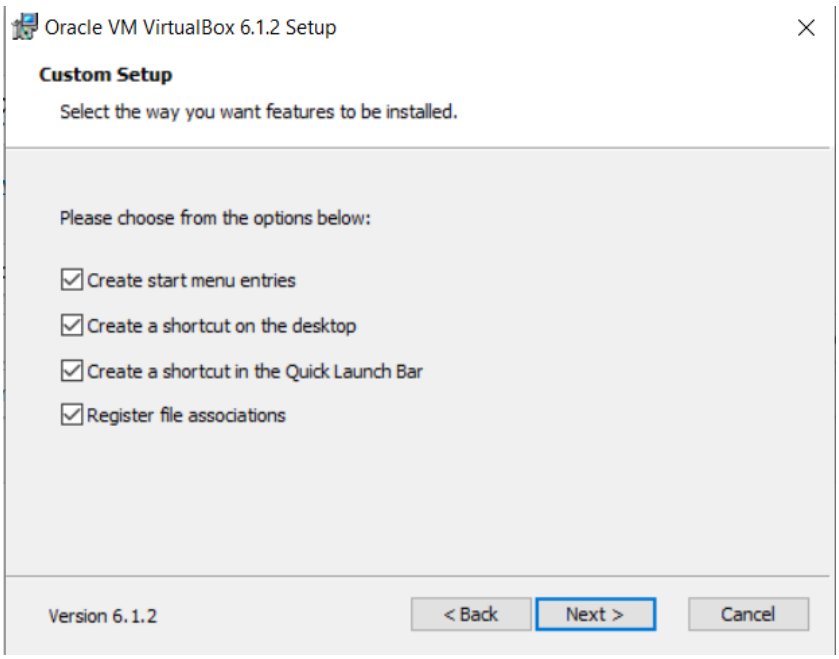
3. After downloading, start installation by double clicking on .exe file. Following window will appear:



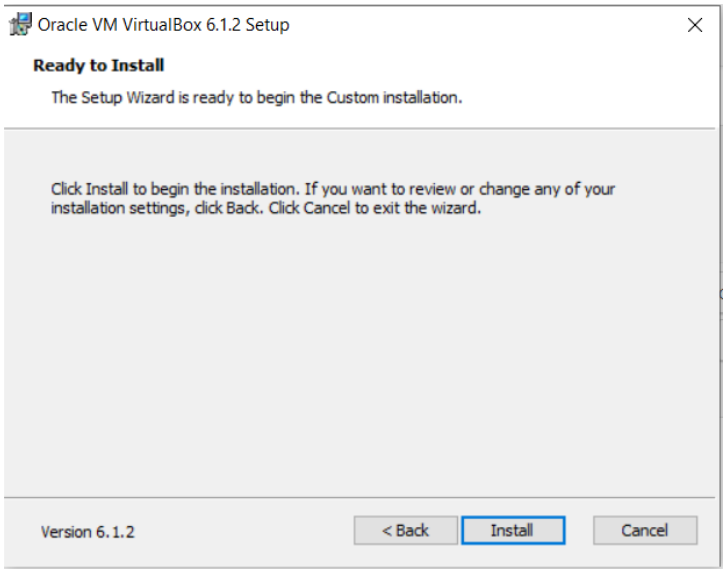
4. Next, we've to select the installation location.



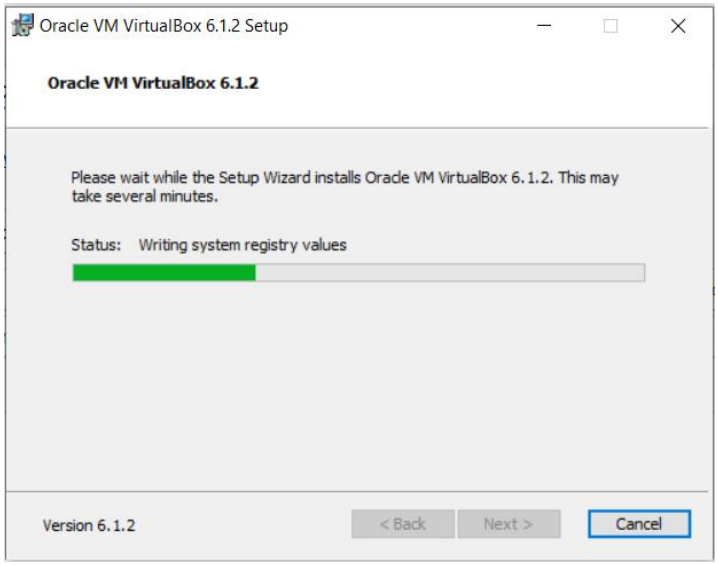
5. Create entries and shortcuts



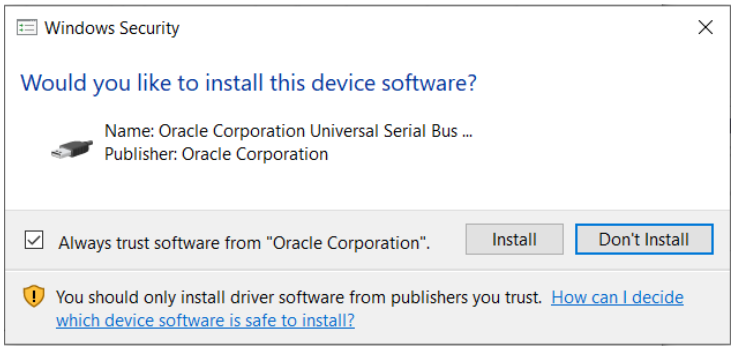
6. Now, VirtualBox is ready to install, click “install”



7. Now, Files and packages are getting installed

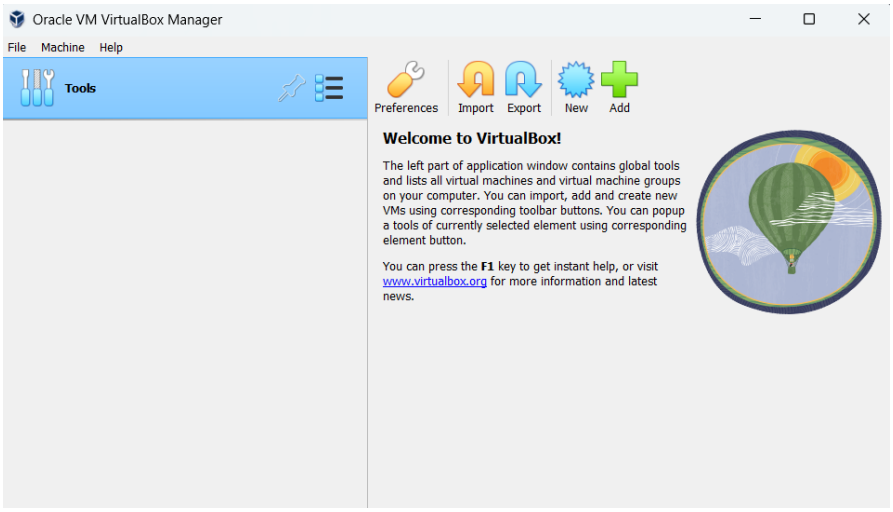


8. Then, install certificates



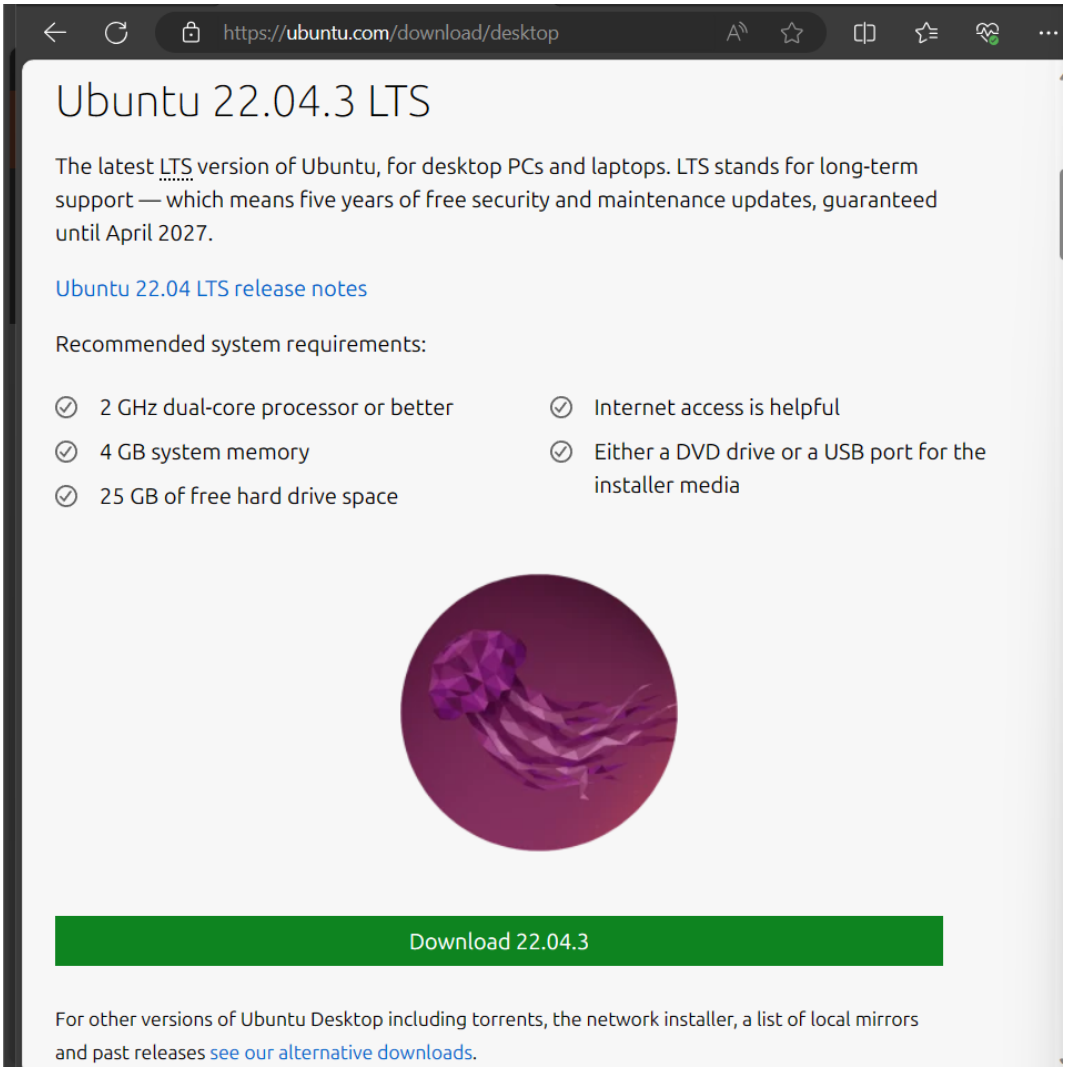
9. Finish installation

10.Now, when you open VirtualBox it will look as shown below:

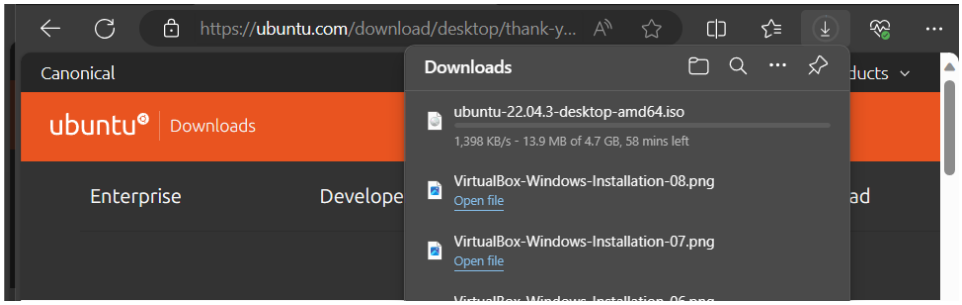


Step 2: Download Ubuntu latest version ISO image on windows.

1. Go to Downloads of Ubuntu official website (https://ubuntu.com/download/desktop).
2. Choose to download then latest version of Ubuntu.



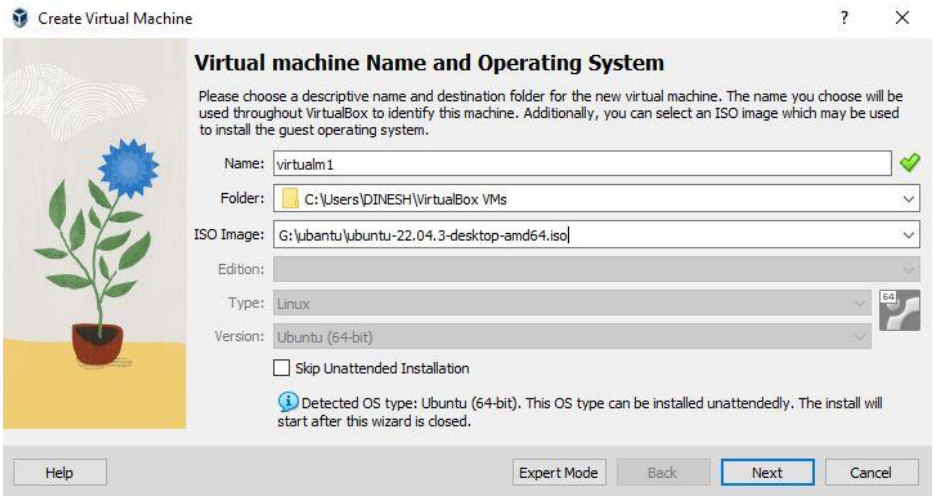
3. It will start downloading the ISO file.



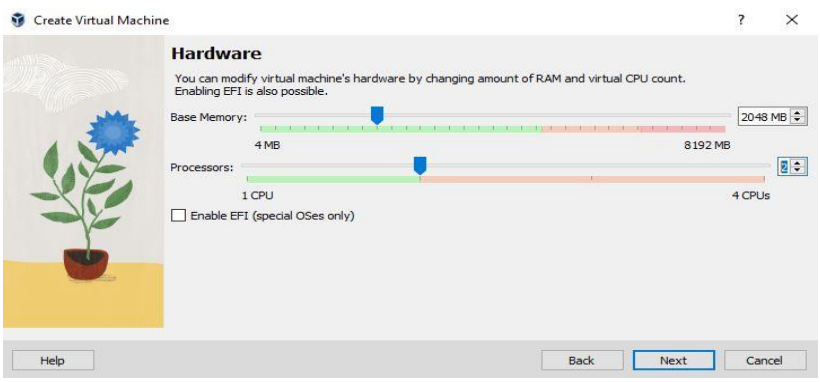
Step 3. To create Virtual Machine

3.1 Start the VirtualBox and Click on “New”.

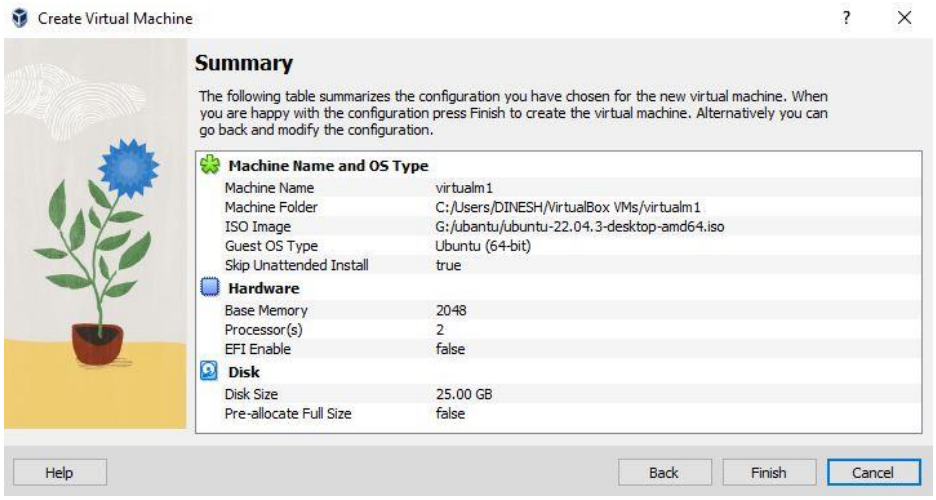
3.2 Provide details about Virtual Machine we are creating, like it’s Name, VM folder and ISO Image file location, and click “Next”.



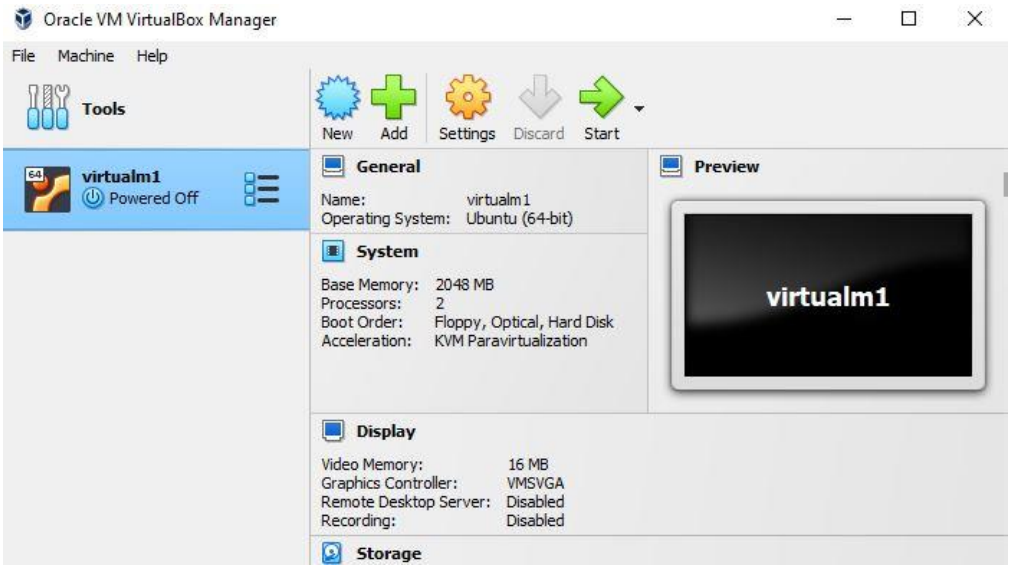
3.3 Provide storage limit and CPU. Click “Next”.



3.4 Click on “Finish” button.



3.5 Finally Virtual box created and start virtual box.



3.6 Final preview of virtual box.