Setting up a Multi Virtual Machine Lab

Introduction

Given the numerous challenges associated with deploying a traditional on-premises IT infrastructure and with the widespread adoption of virtualization technologies, simulating an enterprise environment virtually has become significantly faster, easier and cost-effective to set-up or build a virtual lab without risking real system

Project Overview & Objectives

In this project, I will provide a comprehensive step-by-step guide on how to setup a multi-virtual-machine home laboratory using Oracle Virtual Box as our virtualization tool. The lab simulates a small enterprise network with a Windows Server 2022 domain and two Windows 8 machines.

Prerequisites

Hardware Requirements (Host Machine)

Minimum recommended:

- **CPU:** 4 cores (8 recommended)
- **RAM:** 16 GB
- **Storage:** 150–250 GB free
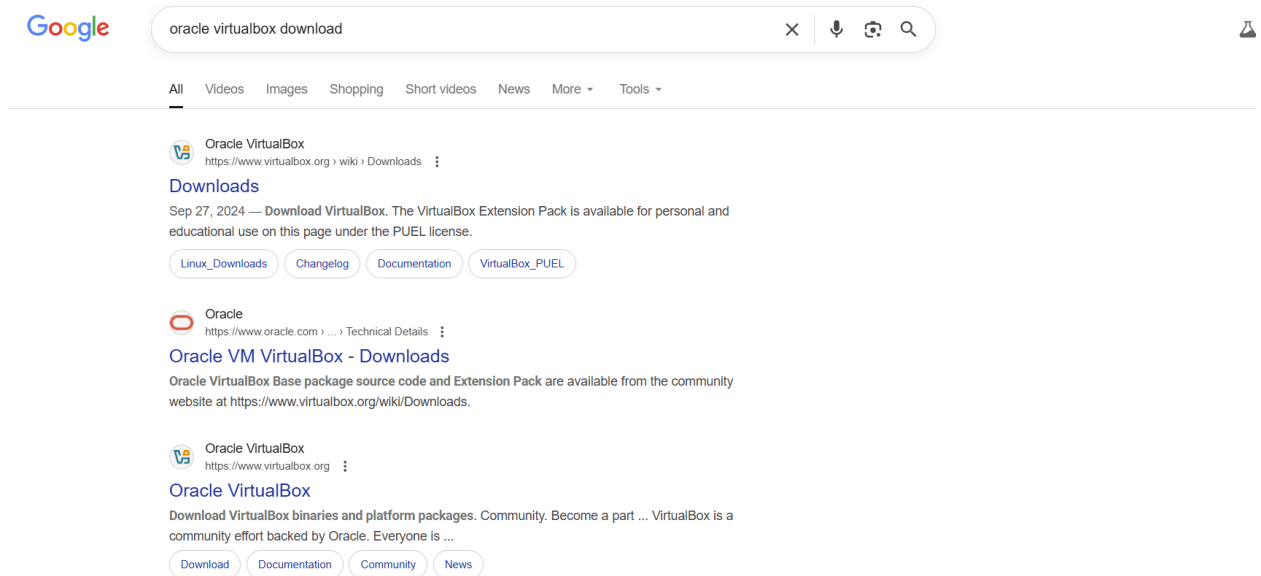- **OS:** Windows, macOS, or Linux as VirtualBox host

Software Requirements

- Oracle VirtualBox
- Windows Server 2022 ISO
- Windows 8/10 ISO (two copies or reuse same ISO)
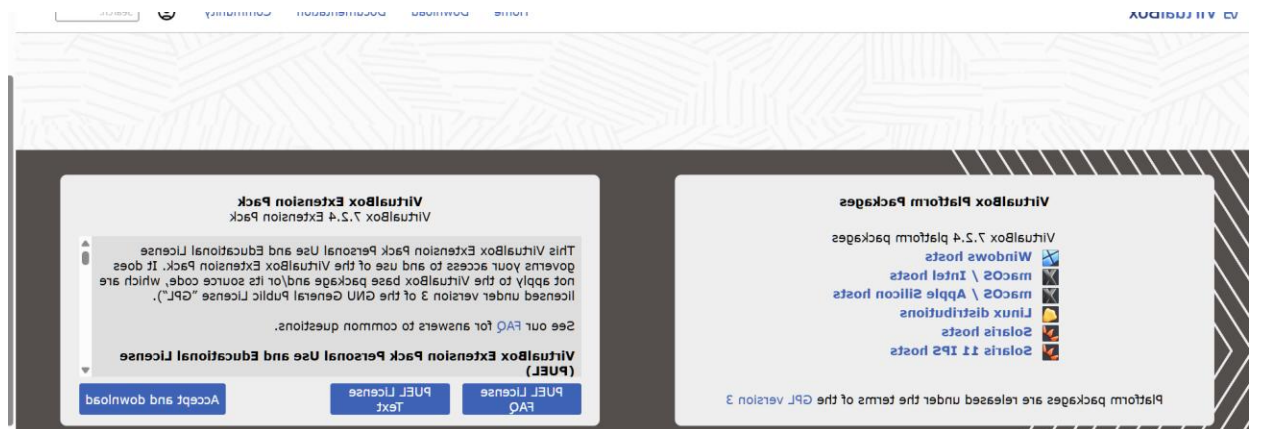
Setting up the Virtual Lab

- Download and install Oracle Virtual Box on your PC
- Download and install Windows Server 2022
- Download and install Windows 8 operating system
- Mount the windows server 2022 on the Virtual Box
- Mount the Windows 8 operating systems on the Virtual Box
- Repeat step 5 for another windows 8 system

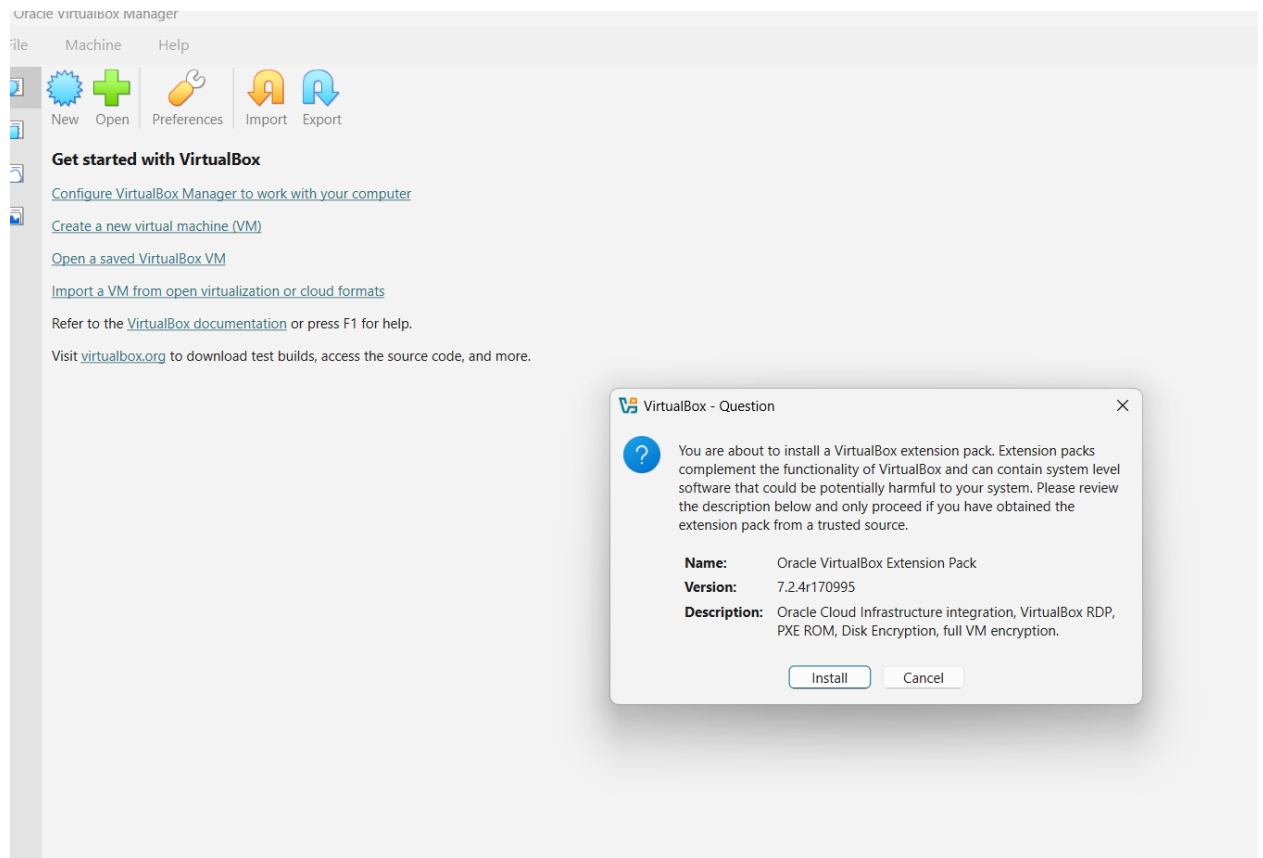**Download and install Oracle Virtual Box on your PC**

Go to google, search for oracle virtual box and click on download

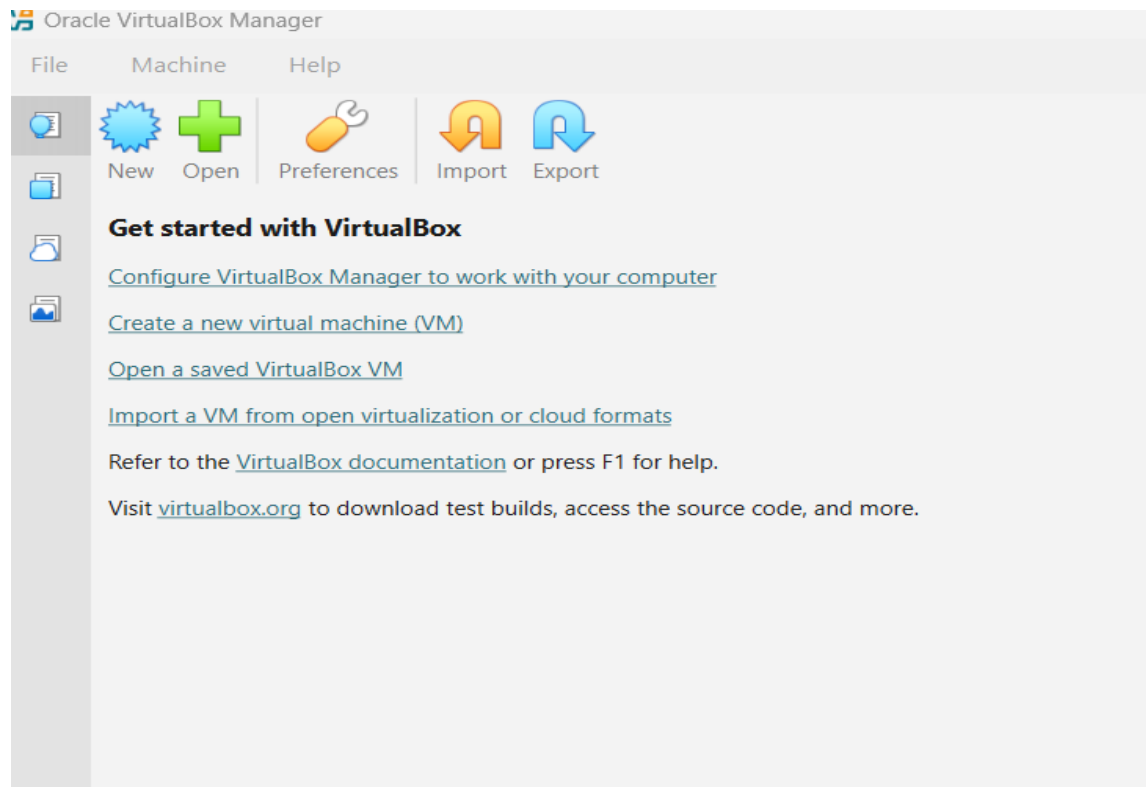Go to your download folder, double click the folder, select windows hosts and click on 'Accept and download

Click on install

Click on 'I Agree'

Then, you have this interface

Download and install Windows Server 2022

Go to google and search for windows server 2022

Select English, click on ISO downloads 64-bit edition and download

Please select your Windows Server 2022 download

English (United States)	ISO downloads 64-bit edition >	VHD download 64-bit edition >	Try on Azure Learn more >	Create a VM in Azure Learn more >
Chinese (Simplified)	ISO downloads 64-bit edition >			

Download and install Windows 8 operating system

Using a browser, google windows 8 download

Windows 8.1 Professional Original ISOs (x64 and x86)
by Microsoft

Publication date	2013-10-17
Topics	windows 8.1 iso
Language	English
Item Size	7.0G

I just noticed that Microsoft recently took down the download link for the Windows 8.1 ISOs; clicking on the link from Google when you search for the windows 8.1 iso will redirect you to some other page on their site about windows 8's lifecycle. So, since I had already downloaded these ISOs from Microsoft's site back when it was still up and had these 2 (for both x86 and x64), I decided to upload this.

Addeddate	2024-06-16 17:06:47
Collection_added	vintagesoftware
Identifier	win-8.1-english-x-64-x-86
Scanner	Internet Archive HTML5 Uploader 1.7.0

285,186 Views

69 Favorites

49 Reviews

DOWNLOAD OPTIONS

ISO IMAGE	2 files
TORRENT	1 file
SHOW ALL	7 Files
	7 Original

IN COLLECTIONS

Reviews (49)   ➕ Add Review
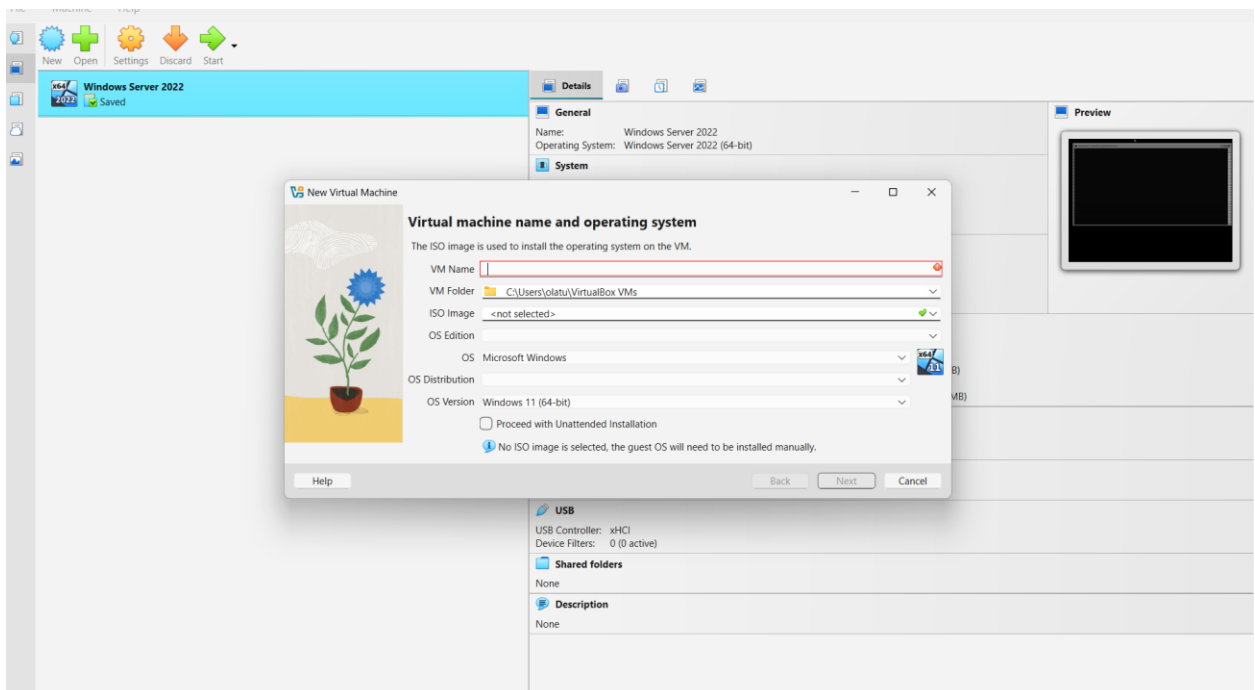
There are 49 reviews for this item. **Display reviews.**

Click on ISO image, select the 64-bit file and download

Mount the windows server 2022 on the Virtual Box

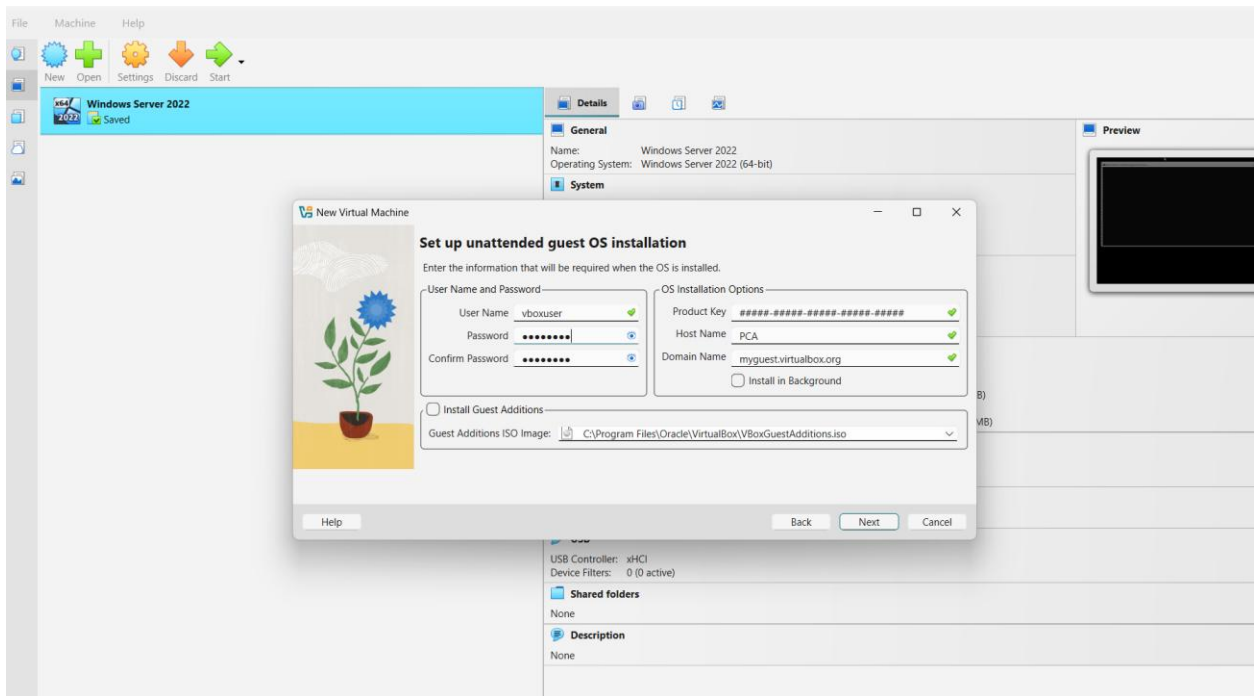launch the virtual box

Click on the new Icon

enter the system name of your choice

select the drop down on the iso image and select other

It takes you to your device

upload the operating system

click on "next"

Assign compute resource sizes according to the available capacity of your host system.

Repeat the same process for the same process for the windows 8 systems

File   Machine   View   Input   Devices   Help

Recycle Bin

Windows 8.1 Pro
Build 9600

11:22 PM
11/19/2025

Right Ctrl