



**Module Code & Module Title**

**Level 5 –CT5052 Network Operating Systems**

**Assessment Type**

**Logbook 2**

**Semester**

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*I confirm that I understand my coursework needs to be submitted online via Google Classroom under the relevant module page before the deadline in order for my assignment to be accepted and marked. I am fully aware that late submissions will be treated as non-submission and a mark of zero will be awarded.*

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## 1 Introduction

VirtualBox is a cross-platform virtualization application that allows you to run multiple operating systems simultaneously on the same computer. (Srinivasa K. G., 2018). With the help of VirtualBox we can operate or run the multiple operating systems on a single physical machine and also use for testing software and running multiple applications.

Virtualization as a process in which software creates virtual machines (VMs) including a virtual machine monitor called “hypervisor” that allocates hardware resources dynamically and transparently so that multiple operating systems, called “guest operating systems,” can run concurrently on a single physical computer without even knowing it. (Kizza, 2020)

### 1.1 Aim of the report

The aim of the report is to understand the role of Virtual box in order to run windows 2022 server, which we will use in the further assessment throughout the semester.

Aim to install windows server 2022 in VirtualBox:

- To test new software without any risking primary Operating System.
- It is Adaptability and can easily be created, can be modified and delete virtual machines.
- It is affordable and we can avoid the cost of physical hardware.

## 2. Objectives of the report

The following are the objectives of this report:

- To learn about the concept of virtual box and IOS files
- To get to know about the installations process of operating system

## 2. Required tools and concept

1. Download and install the latest version Virtual Box from the official website.
2. Download the Windows Server 2022 ISO file
3. The following are estimated system minimum requirements for Windows Server.

## 4. Steps of Replicate

### 1: Downloading and installing Virtual Box

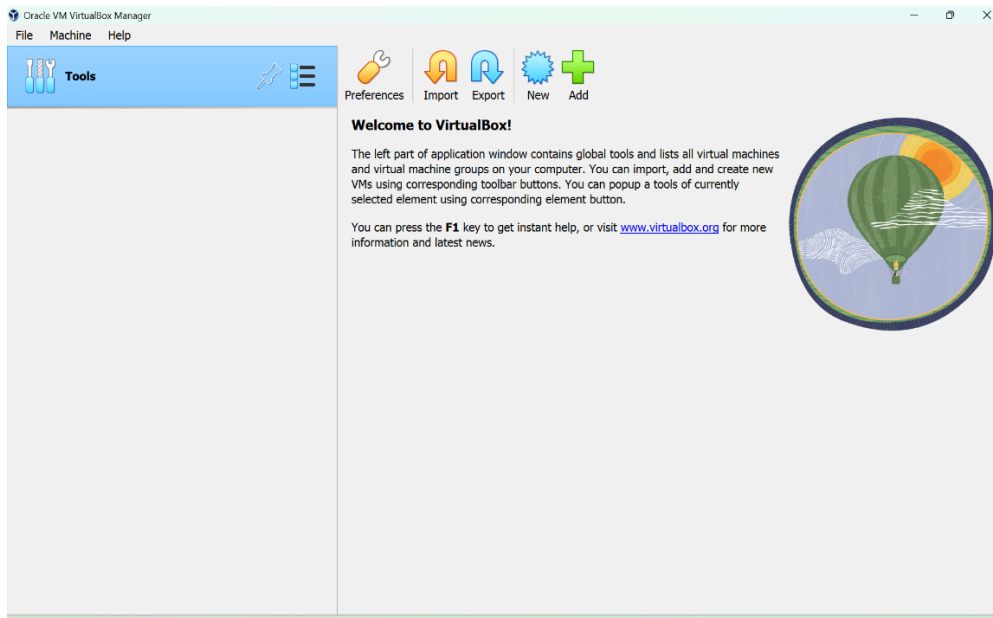


Figure 1 Installing and opening the virtual box

## 2: Downloading Windows server 2022 from the file

NOS-Shared-Resources

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नाम ↑	मालिक	पछिल्लो...	फाइलको आक
00-github-walkthrough.mov	मालिकको नाम लुकाइएको छ	२०२४ सेप्टेम्बर १६	१७६.६ एम....
00-Logbook-Cover-Page.docx	मालिकको नाम लुकाइएको छ	२०२४ सेप्टेम्बर १६	५० के.बि.
01-Lec: Concepts of OS & Networking...	मालिकको नाम लुकाइएको छ	२०२४ नोभेम्बर ८	७६६ के.बि.
01-Tutorial	मालिकको नाम लुकाइएको छ	२०२४ सेप्टेम्बर १४	३ के.बि.
01-Workshop	मालिकको नाम लुकाइएको छ	२०२४ सेप्टेम्बर २२	३ के.बि.
02-Lec: Windows Server Overview.pptx	मालिकको नाम लुकाइएको छ	२०२४ सेप्टेम्बर २५	३.३ एम.बि.
02-Log-Writing-Guidelines	मालिकको नाम लुकाइएको छ	२०२४ सेप्टेम्बर २४	२ के.बि.
02-Tutorial-Workshop	मालिकको नाम लुकाइएको छ	२०२४ सेप्टेम्बर २५	२ के.बि.
02-windows-server-2022.iso	मालिकको नाम लुकाइएको छ	२०२४ सेप्टेम्बर २५	५.१७ जि.बि. डाउनलोड

Figure 2 Downloading Windows server 2022 iso-file

## 3: Opening Virtual Box and choosing the windows Server iso file

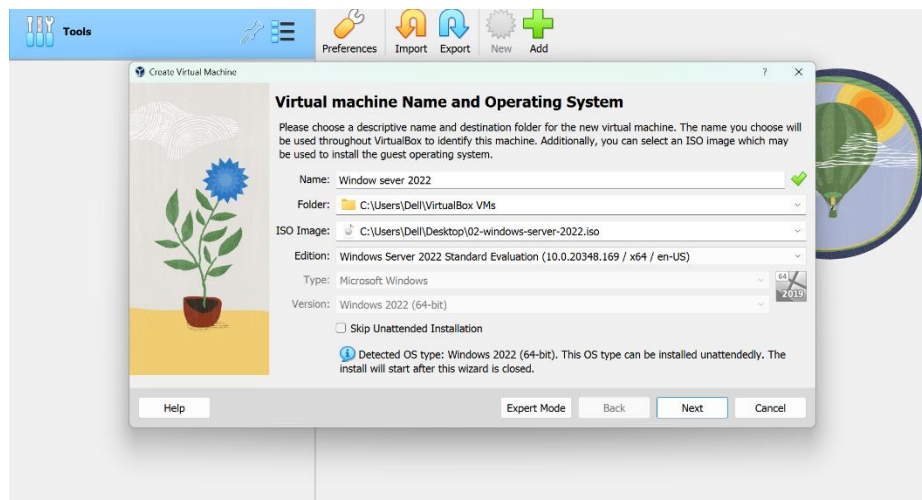


Figure 3 Choosing the Windows Server iso file

## 4: Creating host user account

After choosing the window server, we need to unattended guest OS Install setup where we need to setup hostname, username, password.

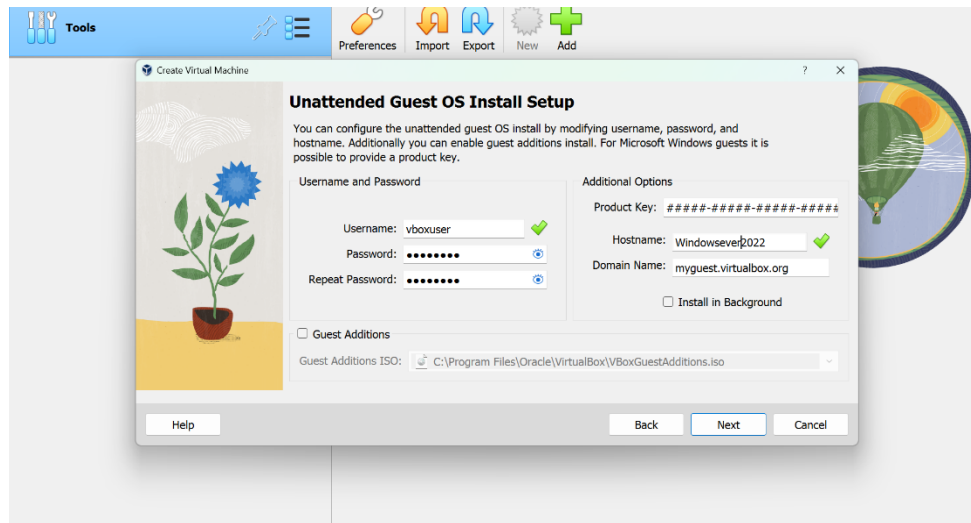


Figure 4 Creating host user account

## 5: Allocate the RAM and CPU.

In this step, we allocate the ram and CPU.

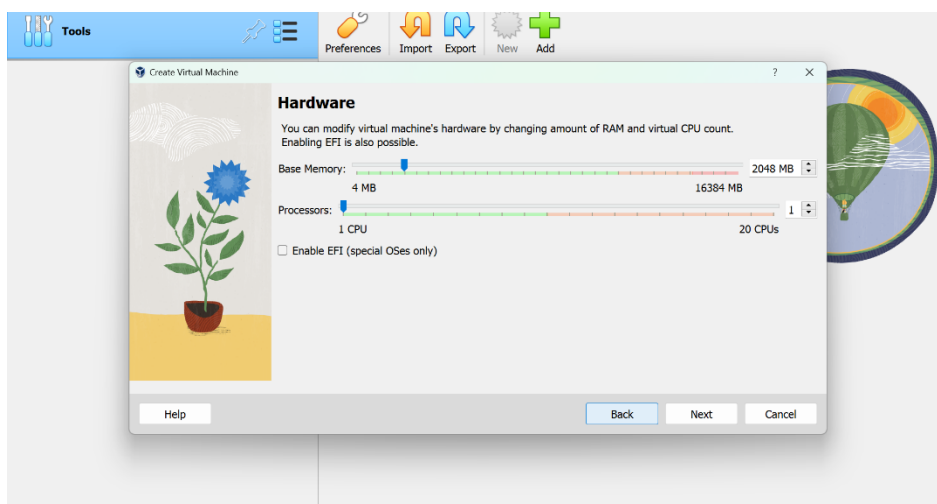


Figure 5 Allocation of memory and CPU

## 6: Allocating the storage

In this step, we allocate the storage that we required.

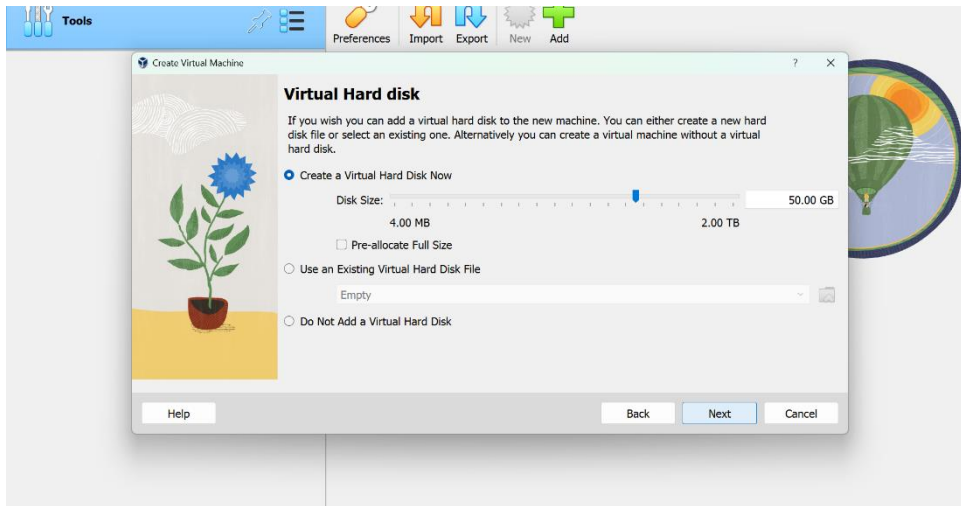


Figure 6 Allocating the storage

## 7: Summary of selected config

In this step, it shows the summary that we select and it finish the whole setup.

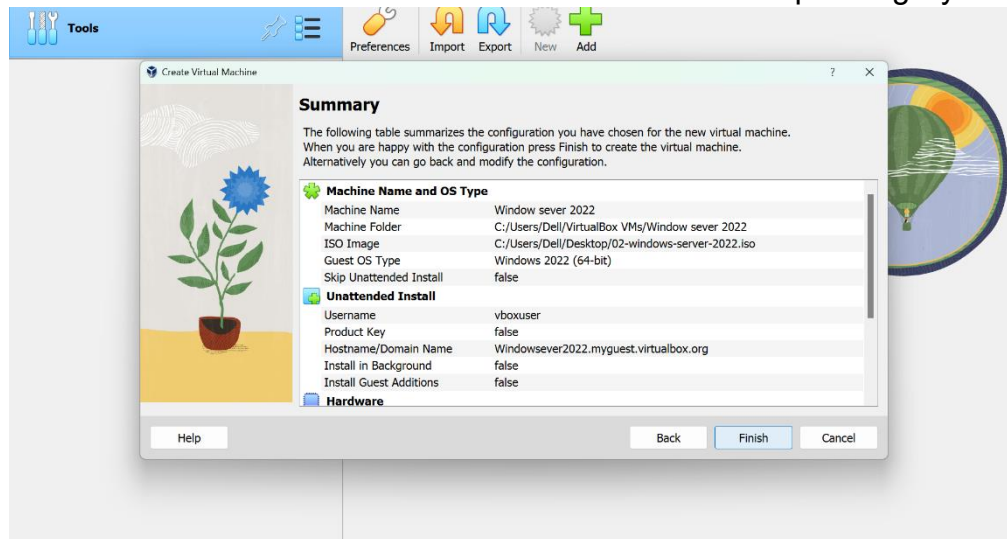


Figure 7 Summary of selected config

## 8: Windows Server 2022 running Screen

It is a final setup which shows the windows server 2022 running Screen.

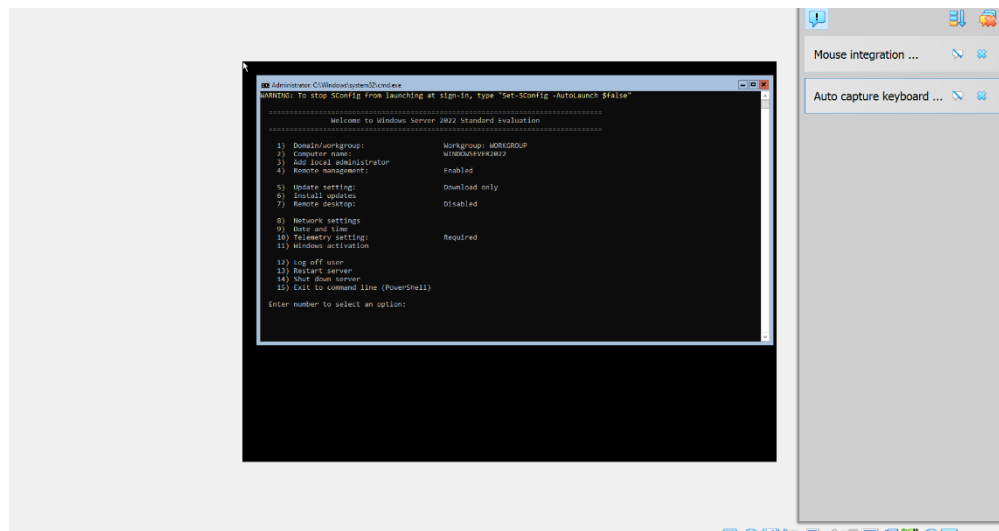


Figure 8 Windows Server 2022 running Screen



## 1.5. Conclusion

In this log, we setup the windows server 2022 with the help of virtual box. Oracle VirtualBox is really important for running Windows Server 2022 in our report which makes things easier by letting us use the server without any risking primary Operating System.

Also, it helps us work with multiple systems at the same time, making everything more flexible and efficient. After we understand how it works, we can use this knowledge to set up Windows Server 2022 and do well in our assessments for the rest of the semester.

## References

- Kizza, J. M. (2020). *Virtualization Technology and Security*. Texts in Computer Science.
- Srinivasa K. G., A. S. (2018). *Hands-On Guide to Virtual Box*.