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I confirm that I understand my coursework needs to be submitted online via MST Classroom under the relevant module page before the deadline 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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Installation of Windows Server 2022 Using Oracle Virtual Box

1.1 Aim

To install and setup Microsoft Windows Server 2022 on a virtual Machine using Oracle virtual Box.

1.2 Objectives

- To learn how to setup or configure a virtual machine using Oracle VirtualBox.
- To ensure that Microsoft Virtual server 2022 successfully install on a virtual environment.
- To configure or setting the administrator password, hostname after installing.
- To verify that windows server 2022 is functioning properly after installation.
- To gain practical knowledge of virtualizations and server setup concepts.

1.3 Required Tools and Materials

Software Requirements

- **Oracle VirtualBox** – to create and manage the virtual machine.
- **Windows Server 2022 ISO file** – installation image of the operating system.
- **Installation Media** – DVD, USB drive, or network boot (if required).
- **Partition Scheme** – MBR (Master Boot Record) or GPT (GUID Partition Table).
- **Edition** – Windows Server 2022 Standard, Datacenter, or Datacenter: Azure Edition.

Hardware Requirements

- **Processor** – 64-bit, 2 GHz or faster (compatible with x64 instruction set).
- **RAM** – Minimum 4 GB (recommended 32 GB for “Desktop Experience” version).
- **Storage** – 256 GB SSD and 1 TB HDD.
- **Network Adapter** – Ethernet adapter with at least 1 Gbps speed.

1.4 Steps Required for this Lab

Step 1: Download and install oracle virtual Box.

Step 2: Download the windows server 2022 ISO file.

Step 3: Create a new virtual Machine

- Enter name: "Windows Server 2022".
- Choose Type: Microsoft Windows and Version: Windows 2022 (64-bit).
- Assign memory (RAM): 4096 MB (4 GB) or more

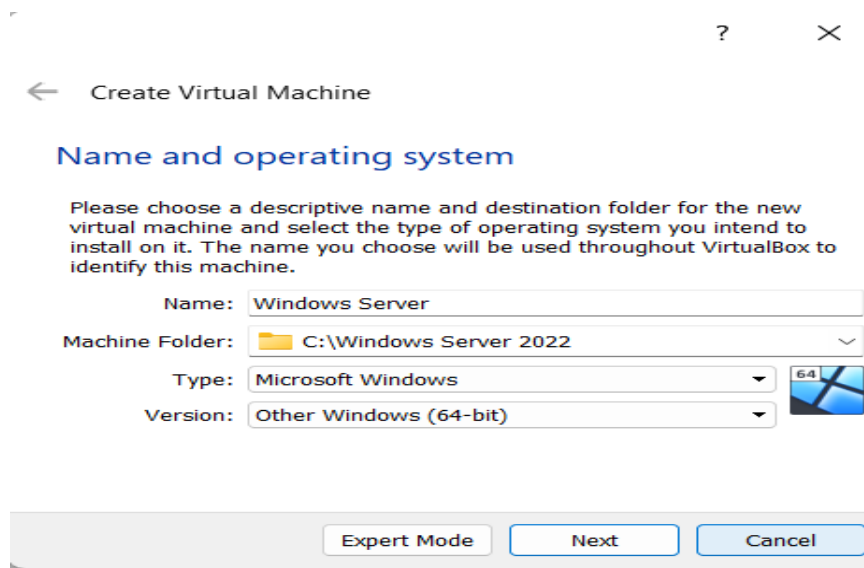


Figure 1 Choosing the version of windows server

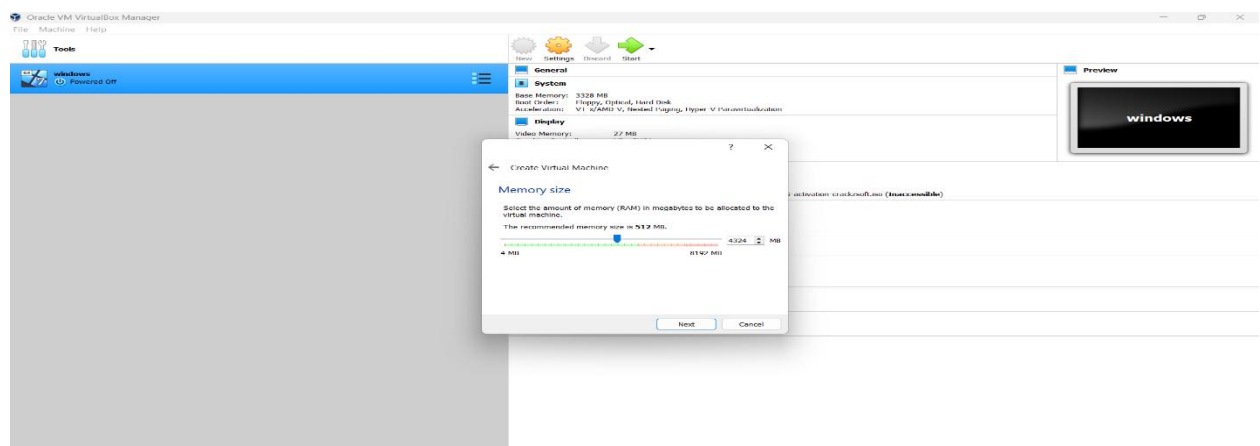


Figure 2 Choosing the Memory size

Step 4: Attach Windows Server 2022 ISO

- Select the created VM → Settings → Storage.
- Under Controller: IDE, click the empty disk icon → Choose a disk file → Browse and select the Windows Server 2022 ISO.

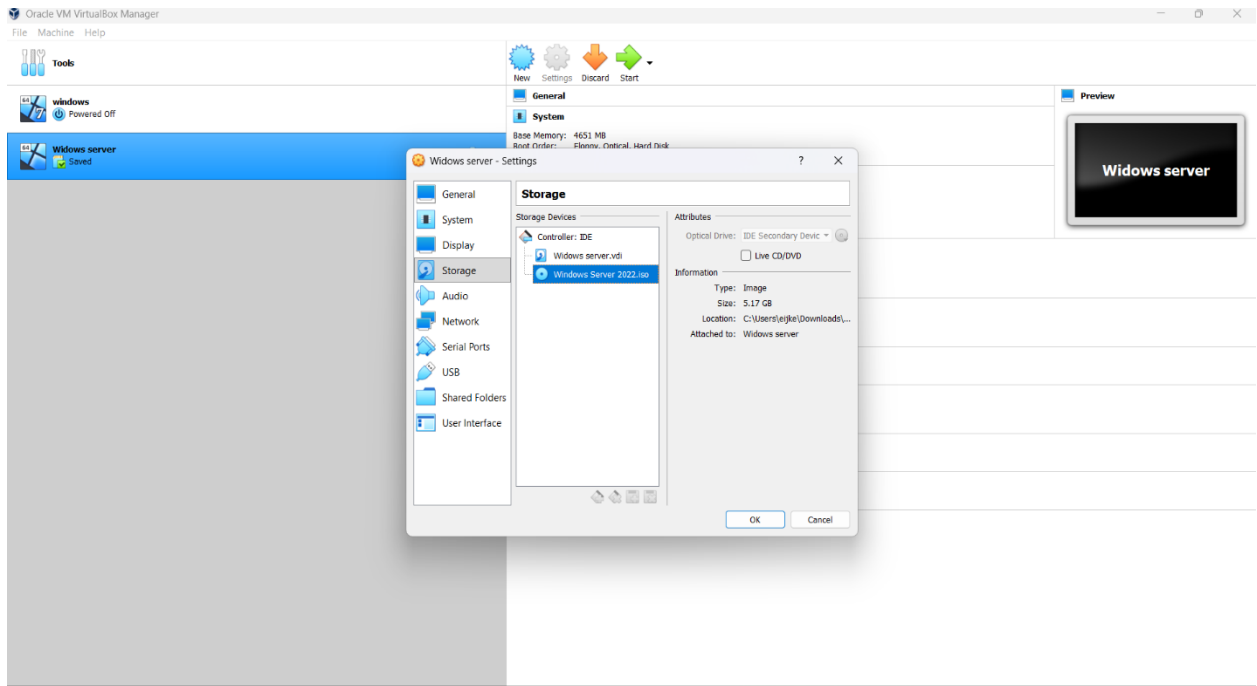


Figure 3 Attach Windows server ISO 2022 file

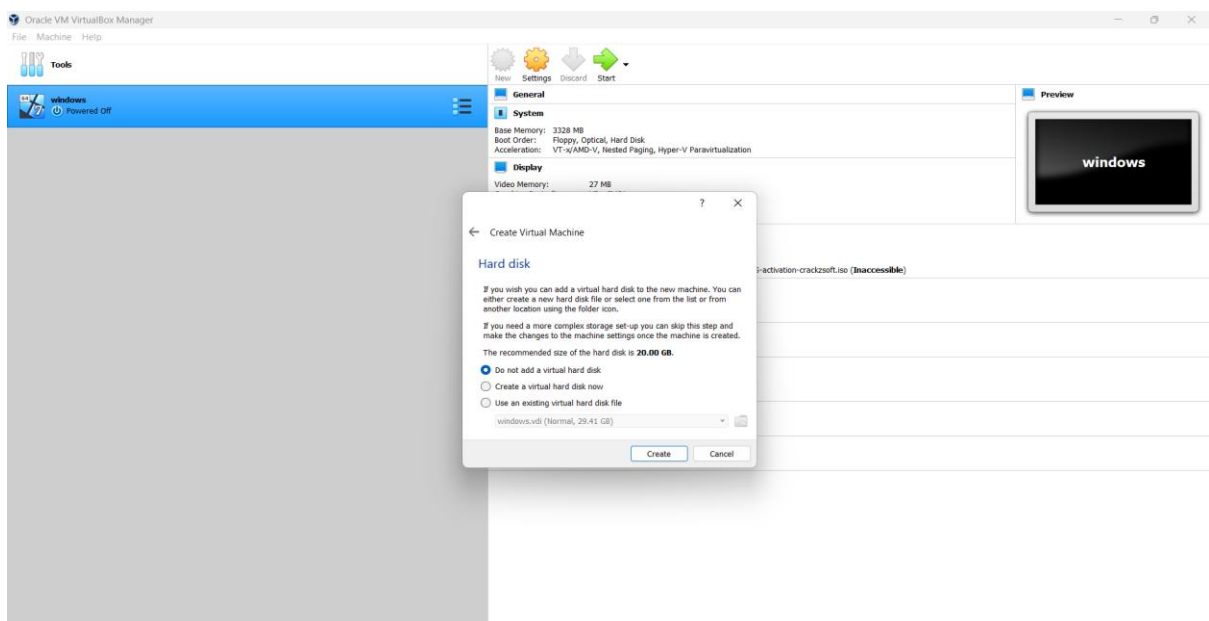


Figure 4 Selecting the Default setting

Step 5: Install Windows Server 2022

- Choose Language, Time, and Keyboard layout, then click Next → Install Now.
- Select the Windows Server 2022 Standard (Desktop Experience) version.
- Accept the license agreement and choose Custom: Install Windows only (advanced).
- Select the virtual drive and click Next to start the installation.
- Wait for the installation to complete and restart automatically.
- The Windows Setup screen will appear.

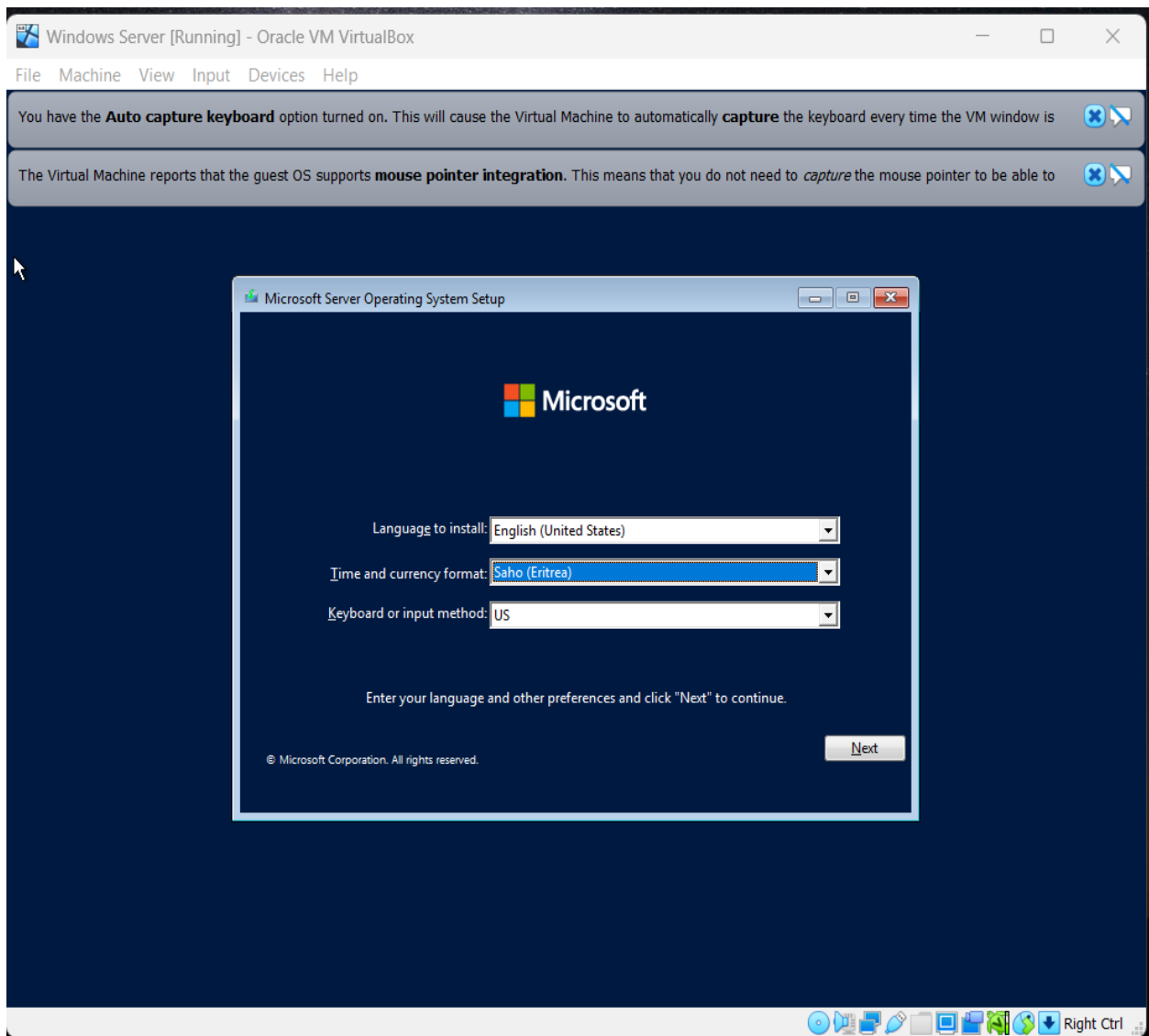


Figure 5 Selecting the default setting

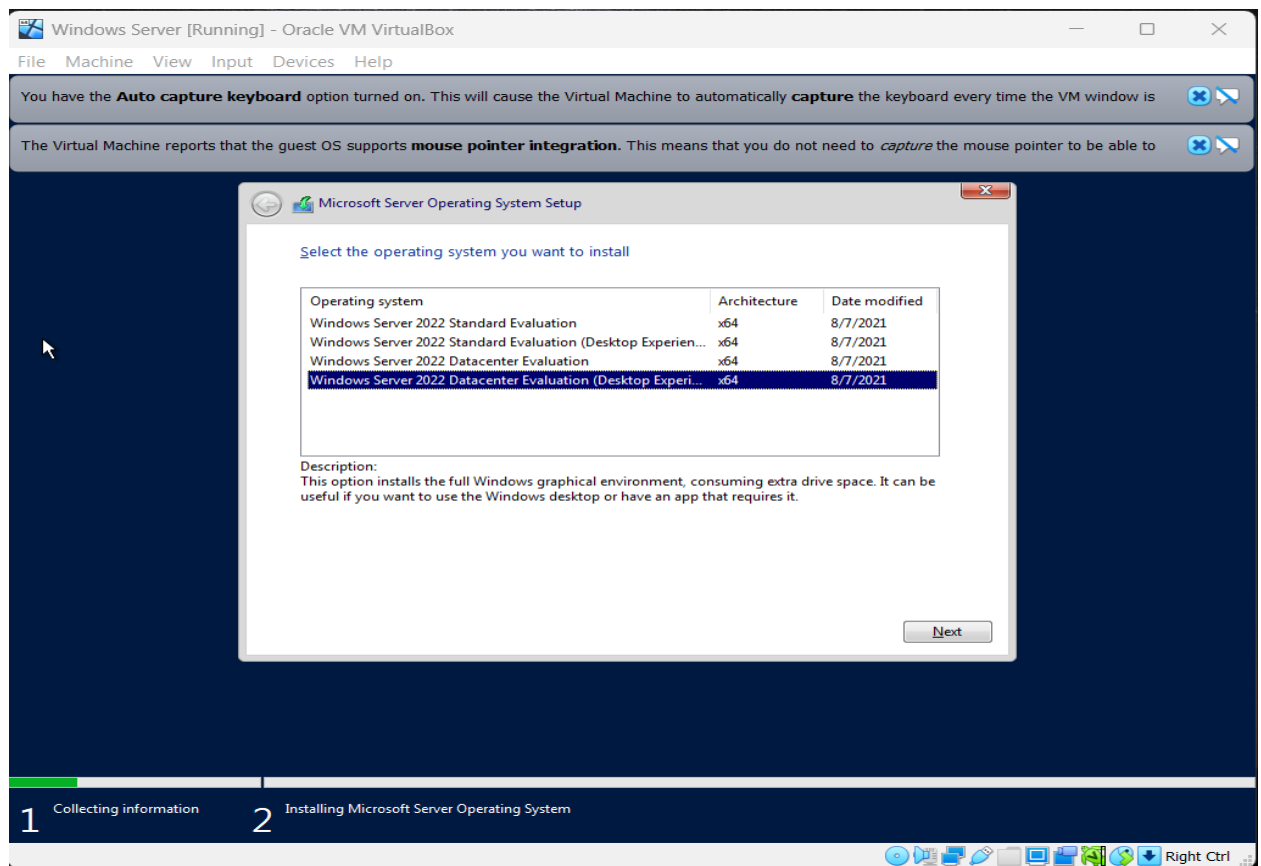


Figure 6 Selecting Desktop experience version

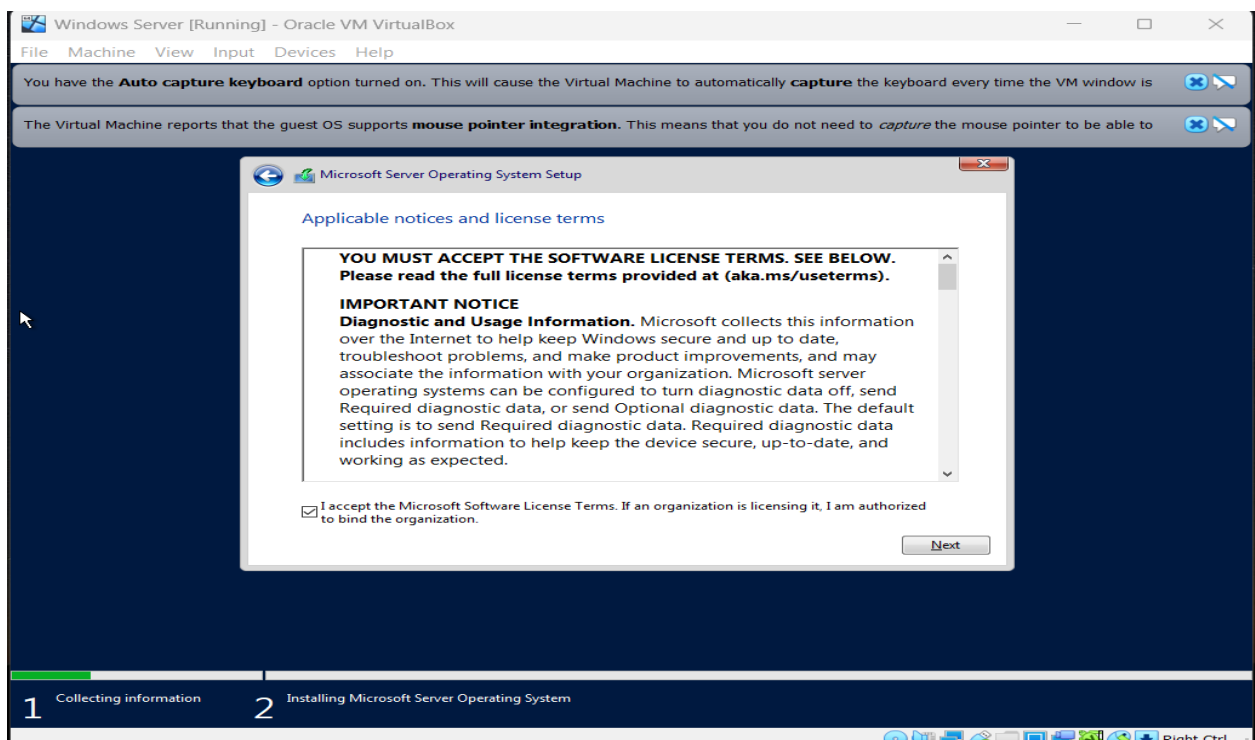


Figure 7 Accepting the terms and conditions

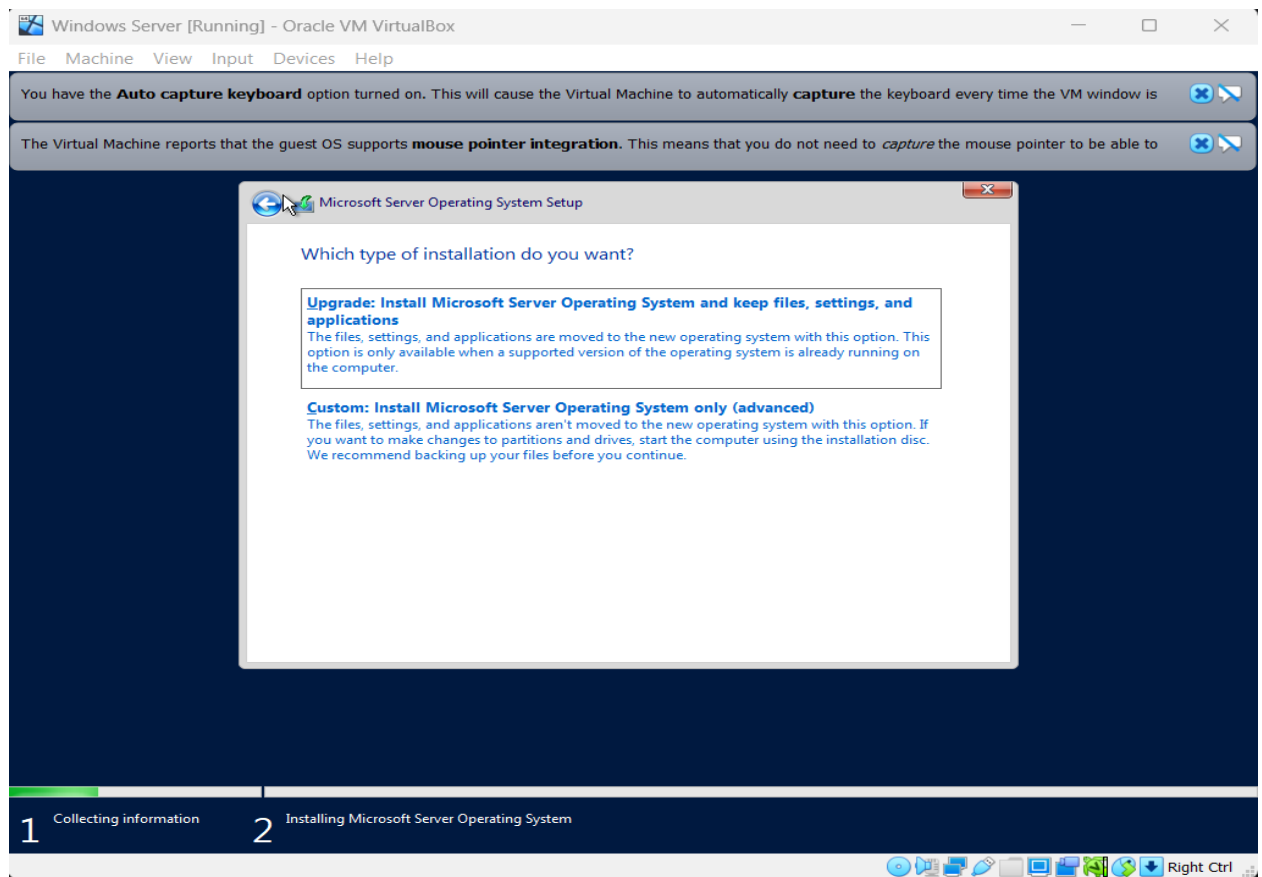


Figure 8 Choosing the custom installation

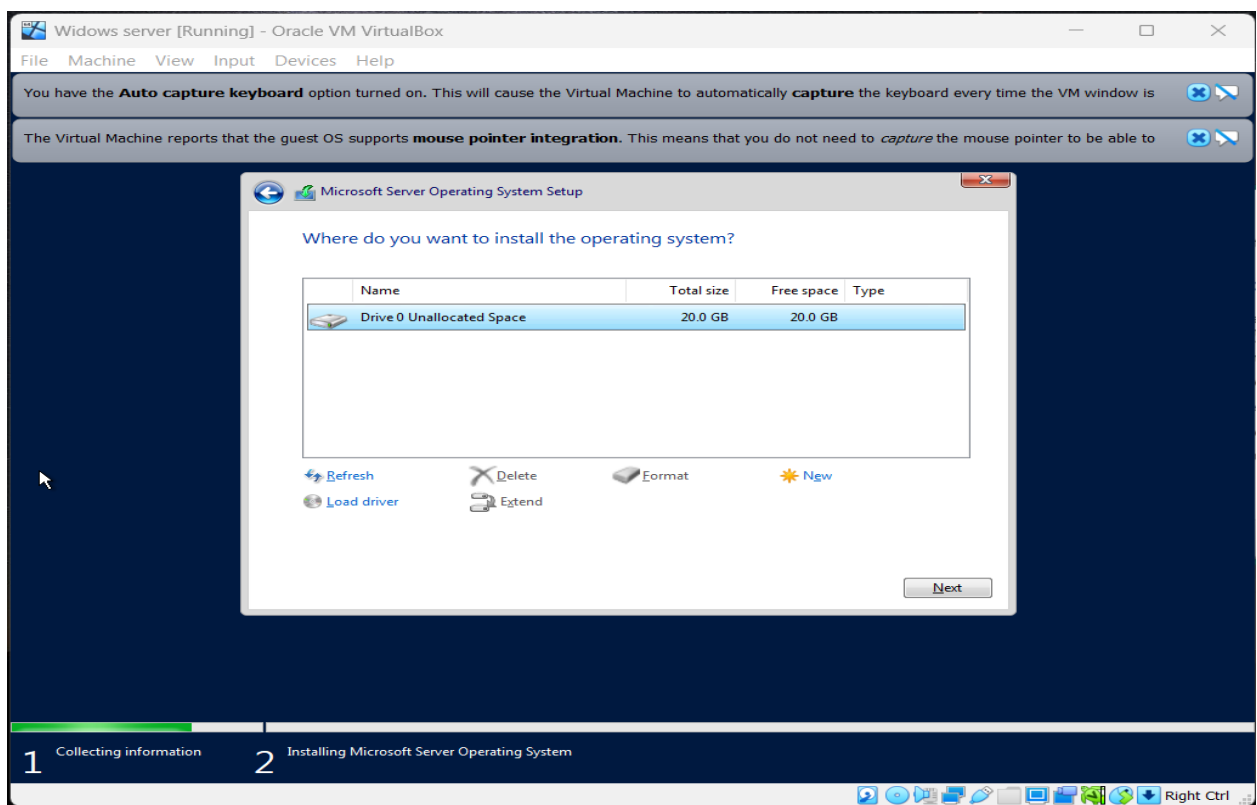


Figure 9 Choosing the Installation Location

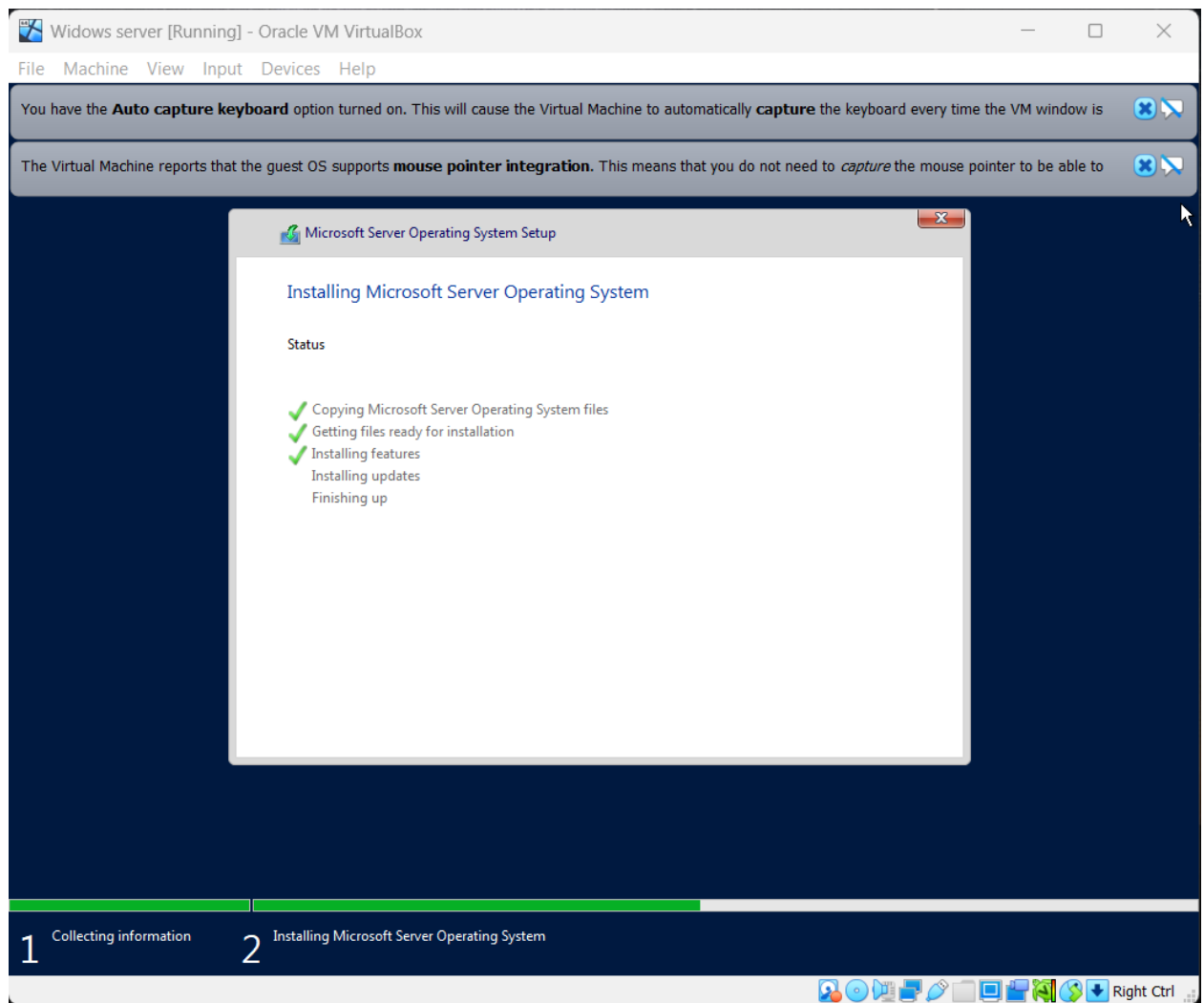


Figure 10 Installing the Microsoft server operating system

Step 6: Initial Configuration

- After reboot, set the Administrator password.
- Log in using the Administrator account.
- Change the computer name, configure network settings, and update Windows if required

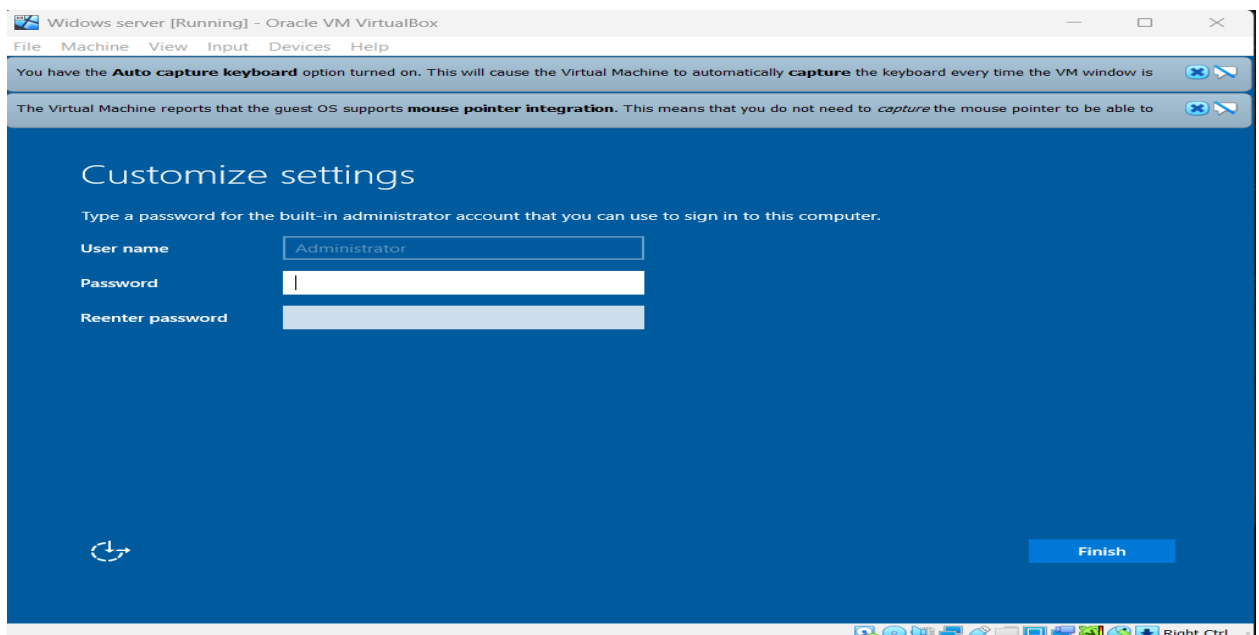


Figure 11 Setting the Administrator Password

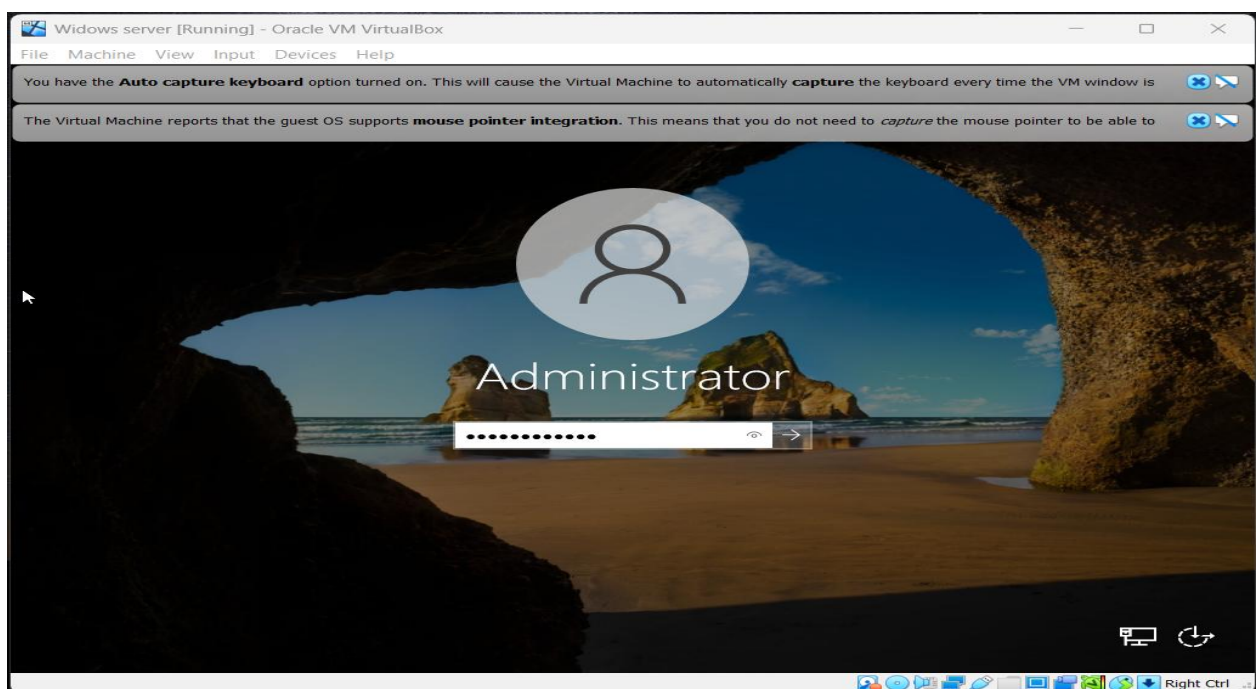


Figure 12 Successfully set up the Windows server in virtual machines

1.5 Conclusion

Successfully installed and configured Windows Server 2022 in a virtual environment using Oracle VirtualBox. Virtual machines are widely used today because they are low-cost, flexibility and easy to manage. Using oracle virtualBox helps to reduce hardware expenses, improve security and make it easier to develop and deploy software across different platforms.