Installing the Microsoft Windows Server VM on Hyper-V in Azure Lab

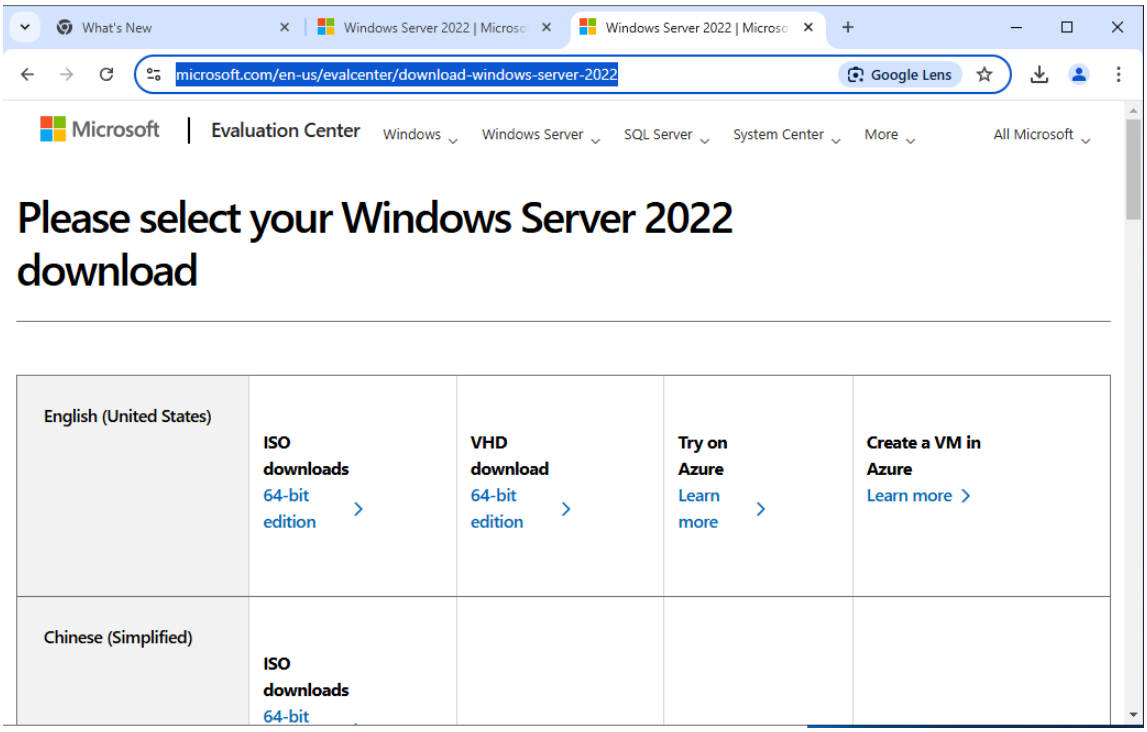
Summary of Steps

Step	Description
1	**Downloading Windows Server 2022 ISO File** • Sign in to provided **Azure Lab** • Go to **Chrome browser** and enter this URL: https://www.microsoft.com/en-us/evalcenter/download-windows-server-2022 • Download the 64-bit edition • Check File Explorer > Downloads
2	**Create a New Windows Server 2022 VM in Hyper-V** a) Open **Hyper-V Manager,** Click **New > Virtual Machine** b) **Before You Begin** > Next c) **Specify Name and Location:** Name: "**Windows Server 2022**"; Location: [can keep desired path or default as shown] > Next d) **Specify Generation:** Choose "**Generation 2**" > Next e) **Assign Memory:** Startup Memory: **4096 MB (minimum 4GB)** [Can allocate 4-8GB] > Next f) **Configure Networking:** Connection: "**LabServerSwitch**" > Next g) **Connect Virtual Hard Disk:** Select "**Create a virtual hard disk**": Name and Location: [Can remain default or as you desire] Size: **40GB** > Next h) **Installation Options:** Select "**Install an operating system from a bootable image file**": Media: **Image file:** [Browse and select the **.iso file**] > Next i) Check the **Summary** of your New Windows Server 2022 VM setup > Finish
3	**Install Windows Server 2022** a) Open **Hyper-V,** Right-click on **Windows Server 2022 VM > Settings… > Security >** Uncheck "**Enable Secure Boot**" **> Apply > OK** b) In **Hyper-V**, Right-click on **Windows Server 2022 VM > Connect** (This will boot the OS from the DVD Drive using the ISO file) Language to install: **English (United States) > Next** c) Click "**Install now**" d) Select **"Windows Server 2022 Standard Evaluation (Desktop Experience)" > Next** e) Check **"I accept …"** at the bottom > Next f) Click **"Custom: Install Microsoft Server Operating System only (advanced)"** g) Select the **Virtual hard drive** to install (allotted 40GB one) > Next
4	**Check the Windows Server 2022 VM functioning** • When prompted, update the **Administrator Password** > Finish (Make a note of the password) • Log in to the system with the password • **Server Manager of Windows Server 2022 VM** should be up and running

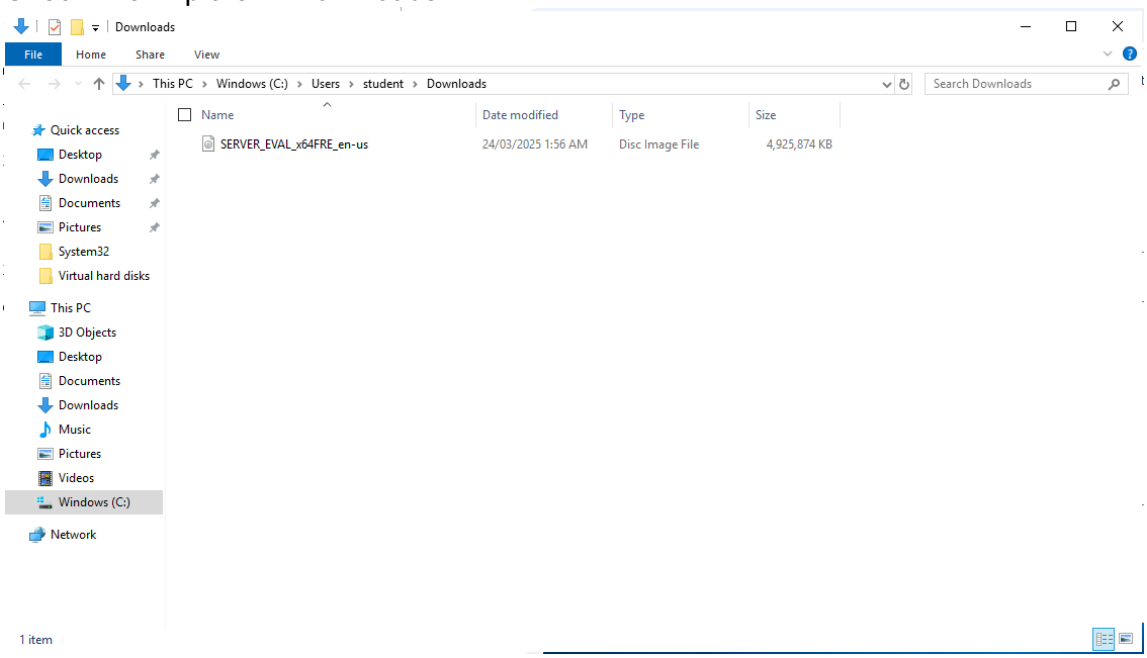
Screenshots

1. Downloading Windows Server 2022 ISO File:

- Sign in to provided **Azure Lab**
- Go to **Chrome browser** and enter this URL: https://www.microsoft.com/en-us/evalcenter/download-windows-server-2022
- Download the 64-bit edition

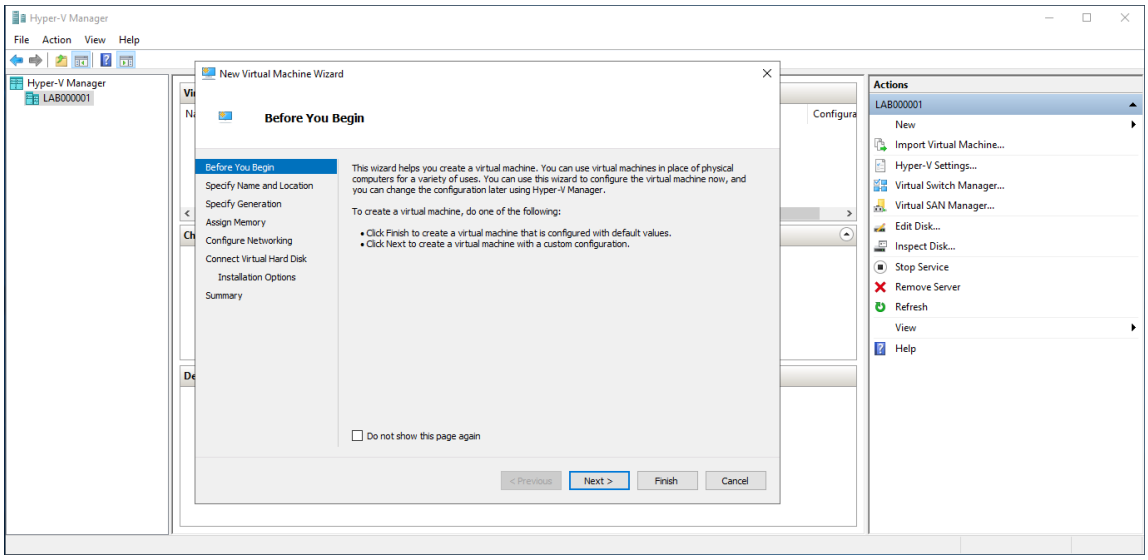


- Check File Explorer > Downloads

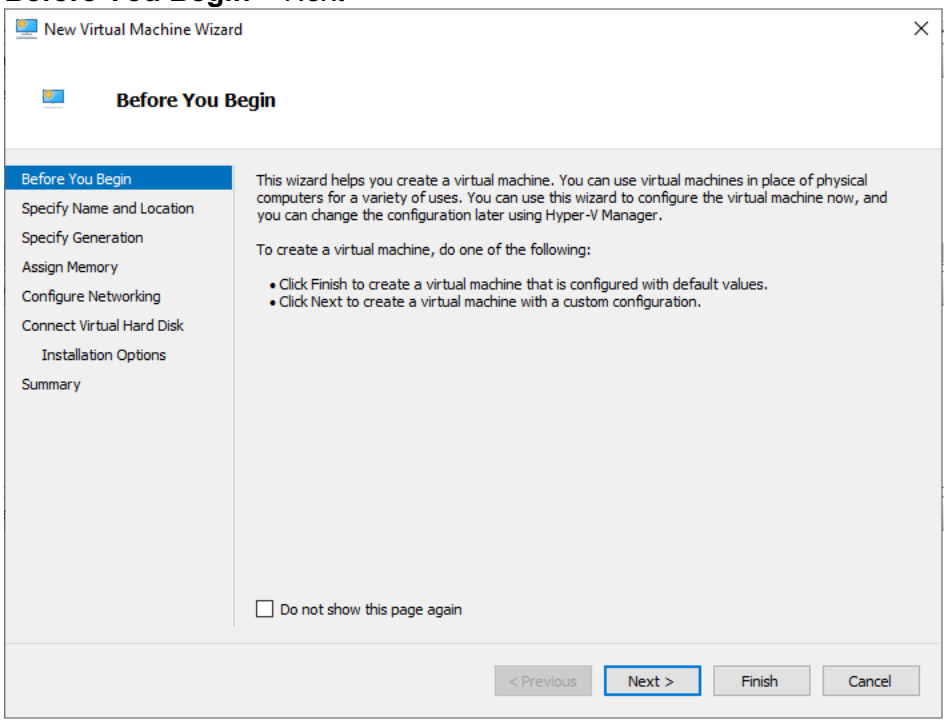


2. Create a New Windows Server 2022 VM in Hyper-V

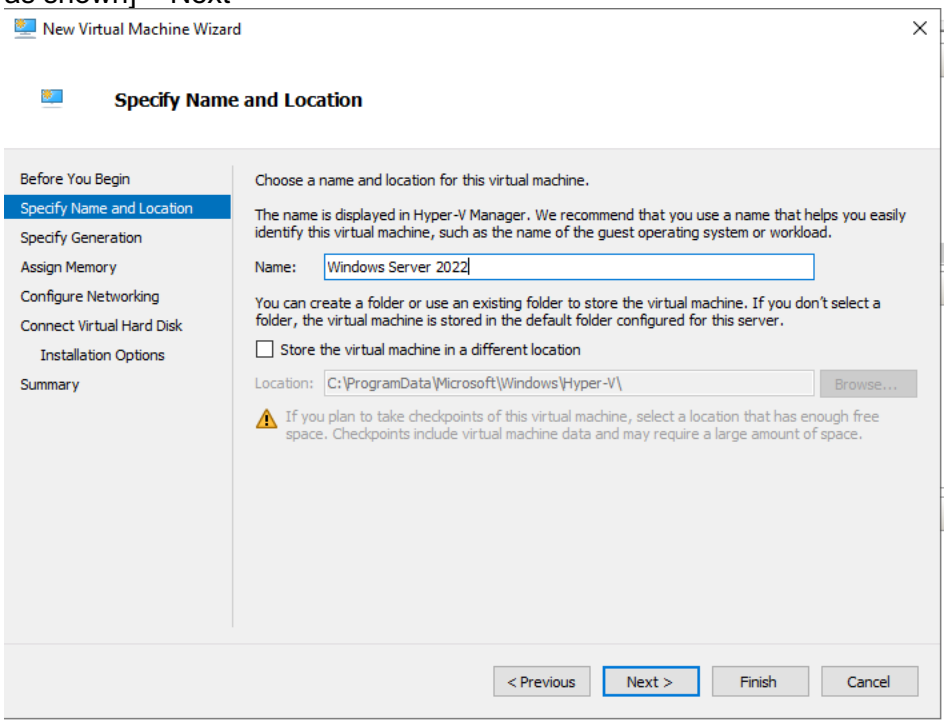
j) Open **Hyper-V Manager**
Click **New > Virtual Machine**



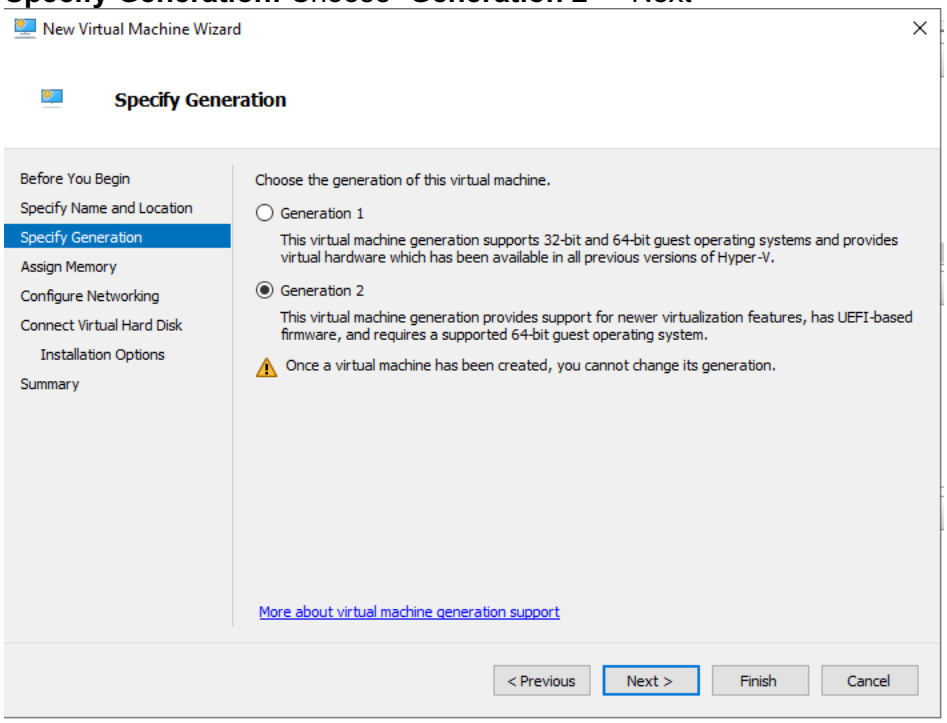
k) **Before You Begin** > Next



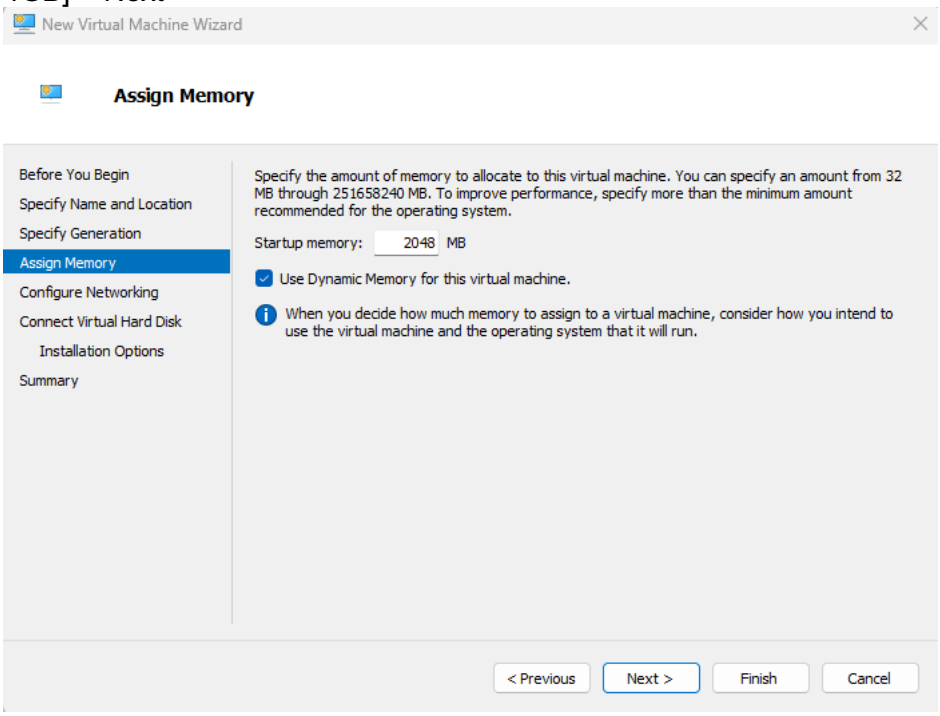
l) **Specify Name and Location:**
Name: "**Windows Server 2022**"; Location: [can keep desired path or default as shown] > Next



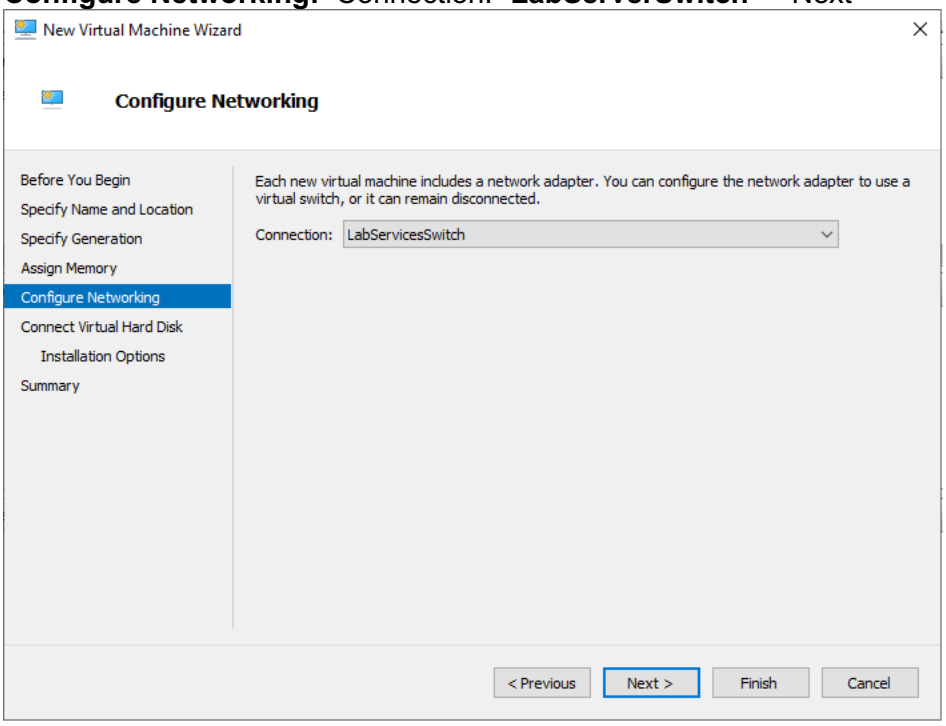
m) **Specify Generation:** Choose "**Generation 2**" > Next



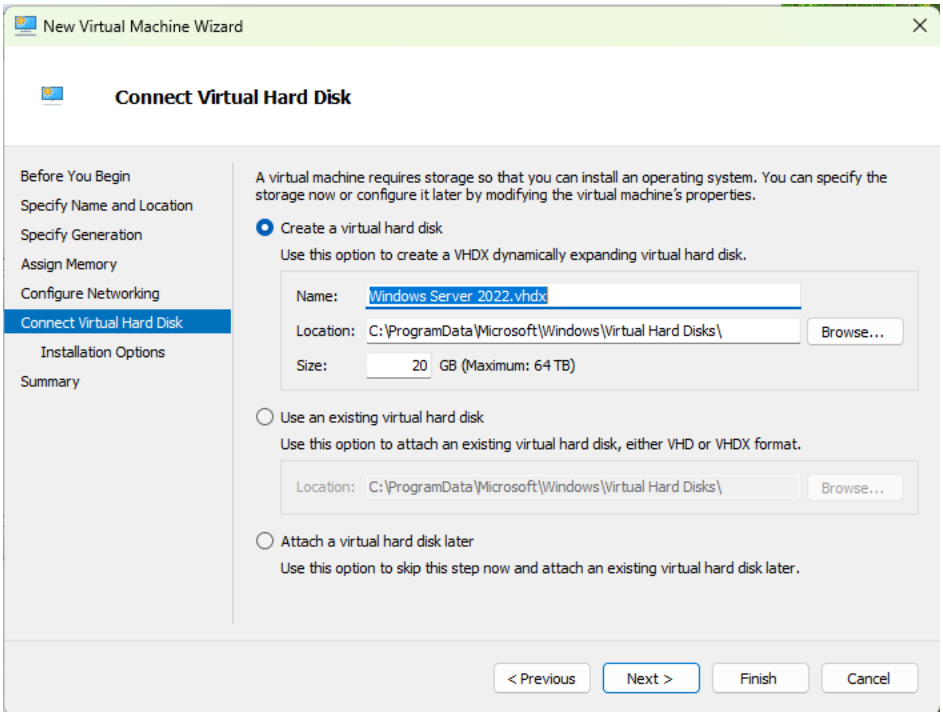
n) **Assign Memory:**
Startup Memory: 2048 MB (min) - **4096 MB (max 4GB)** [Can allocate 2-4GB] > Next



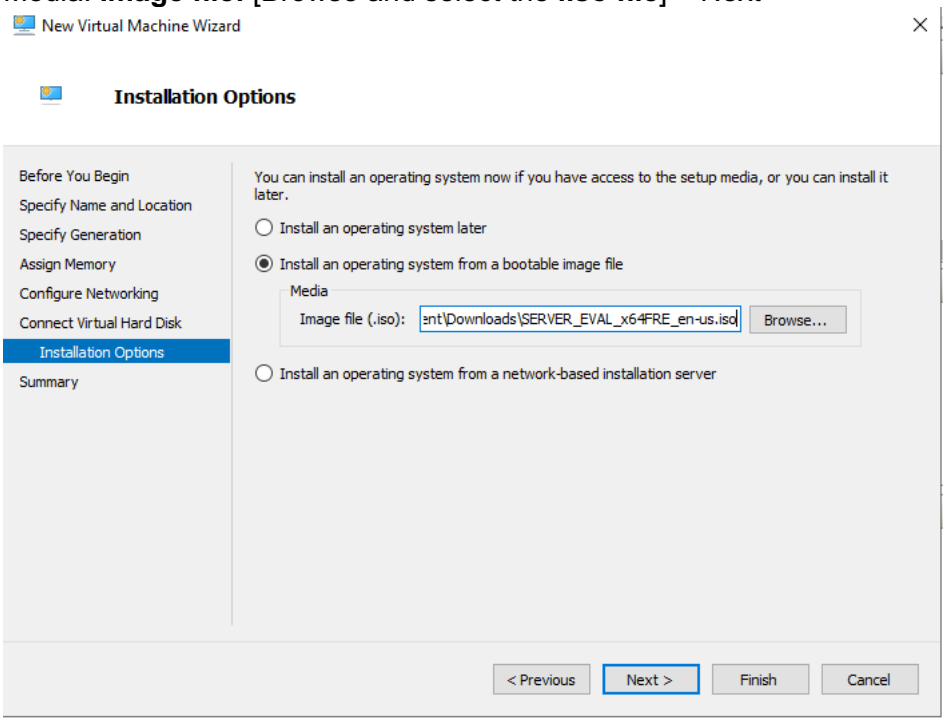
o) **Configure Networking:** Connection: "**LabServerSwitch**" > Next



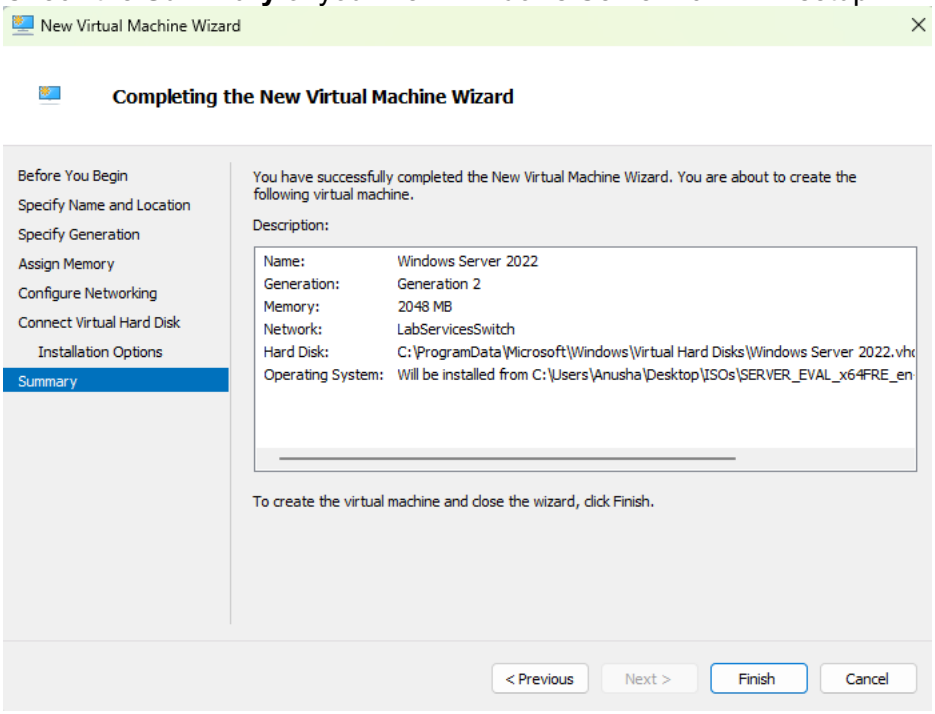
p) **Connect Virtual Hard Disk:**
Select "**Create a virtual hard disk**":
Name and Location: [Can remain default or as you desire]
Size: **20GB** > Next



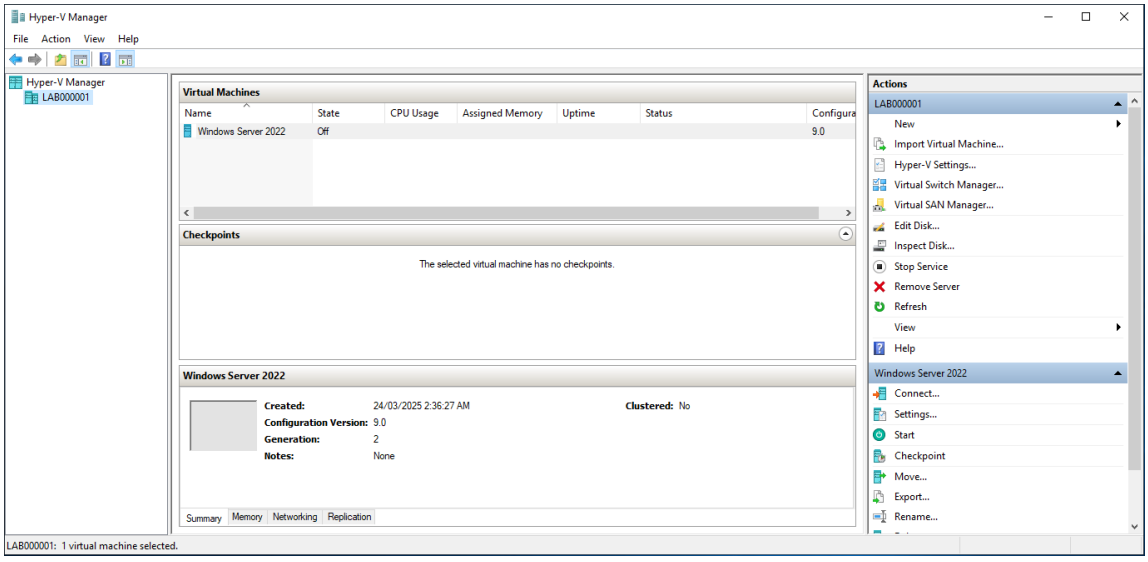
q) **Installation Options:**
Select "**Install an operating system from a bootable image file**":
Media: **Image file:** [Browse and select the **.iso file**] > Next



r) Check the **Summary** of your New Windows Server 2022 VM setup > Finish

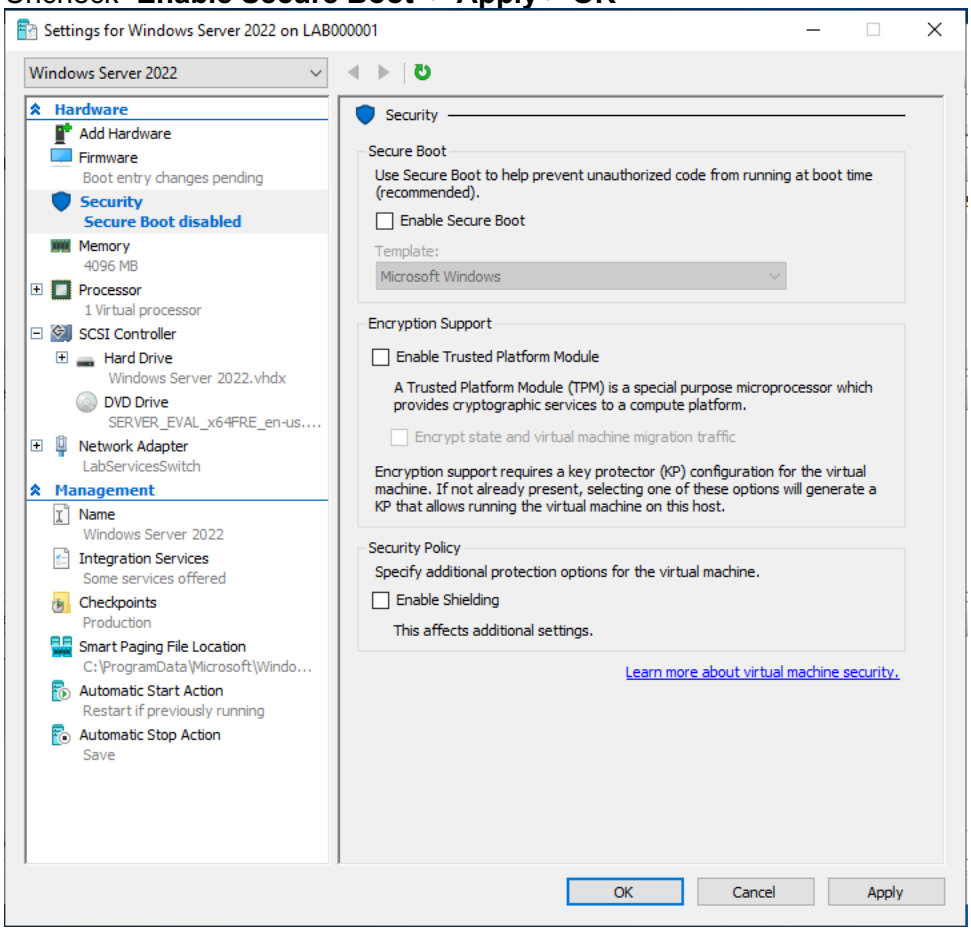


The new Windows Server 2022 VM is created

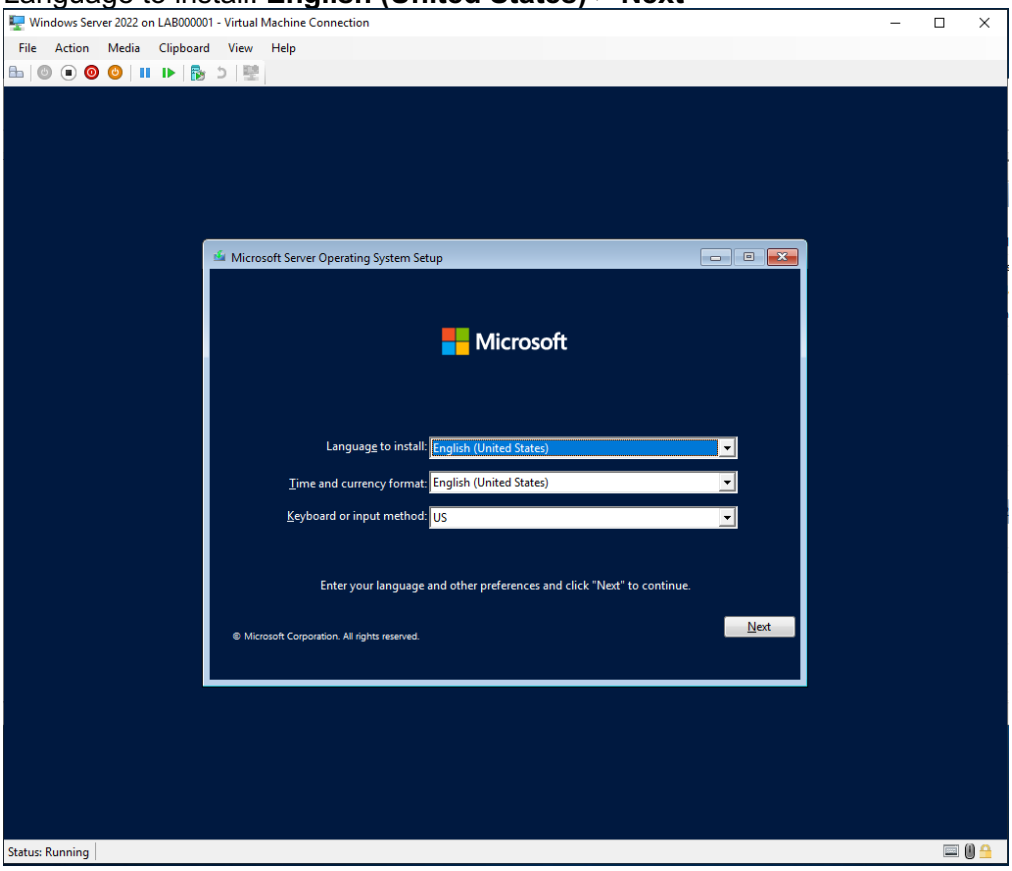


3. Install Windows Server 2022

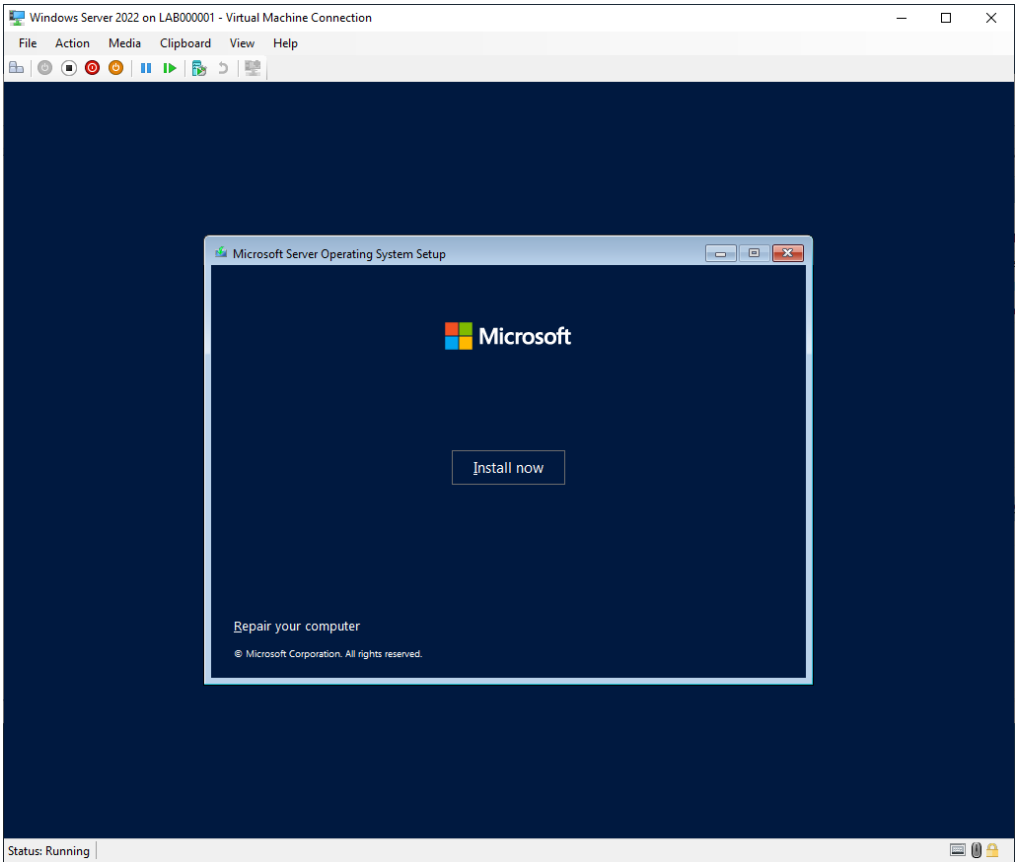
a) Open **Hyper-V**
Right-click on **Windows Server 2022 VM > Settings… > Security >**
Uncheck "**Enable Secure Boot**" **> Apply > OK**



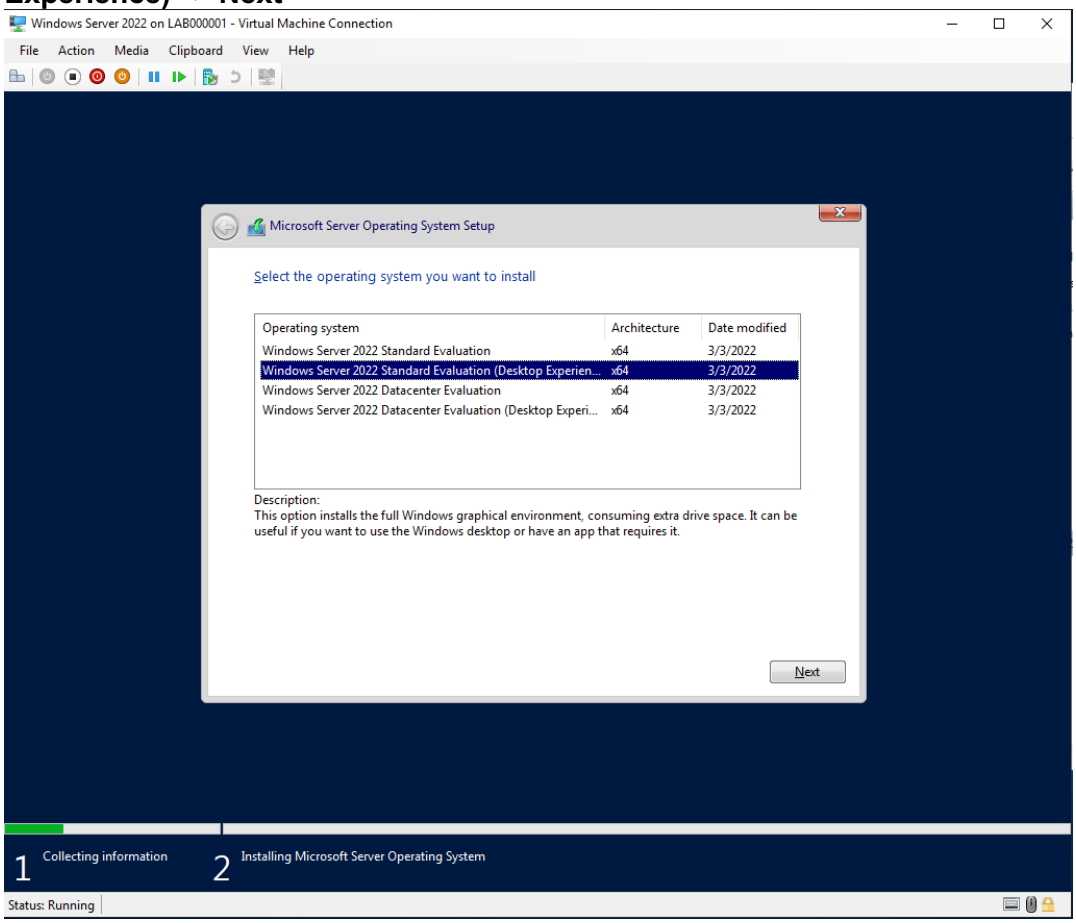
b) In **Hyper-V**,
Right-click on **Windows Server 2022 VM > Connect**
(This will boot the OS from the DVD Drive using the ISO file)
Language to install: **English (United States) > Next**



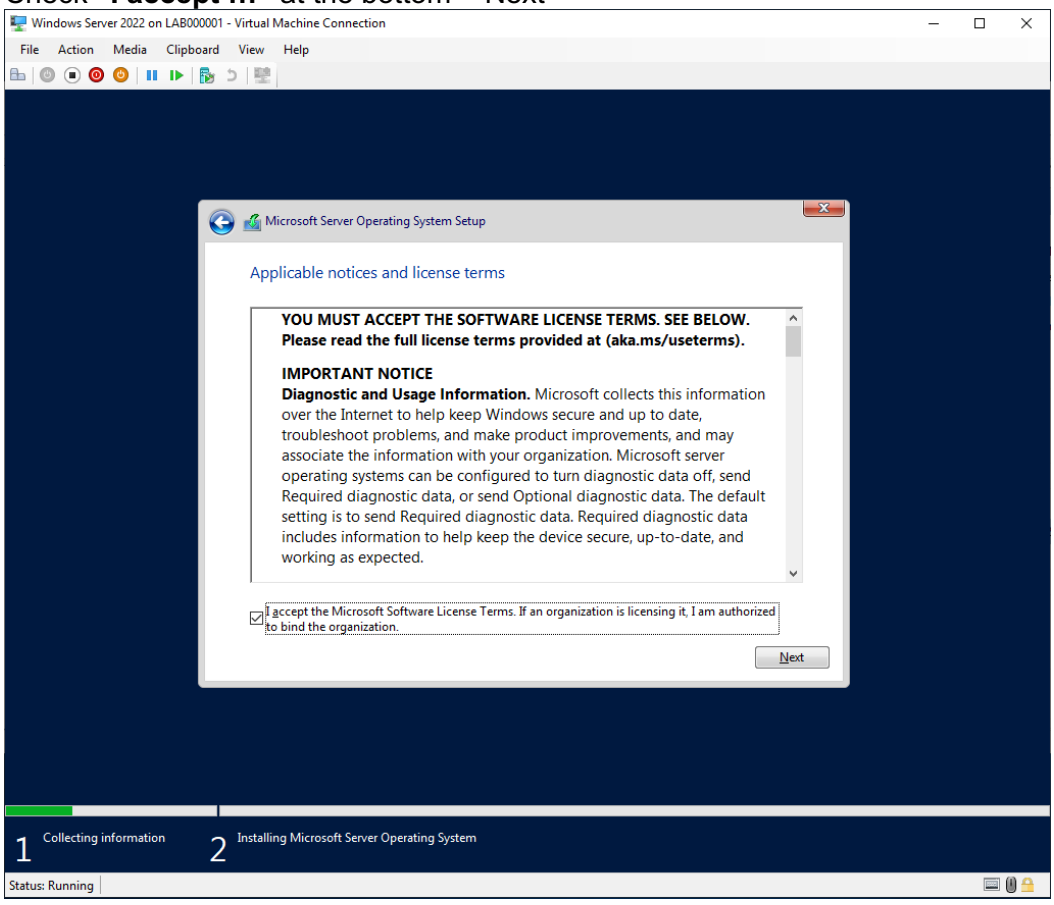
c) Click "**Install now**"



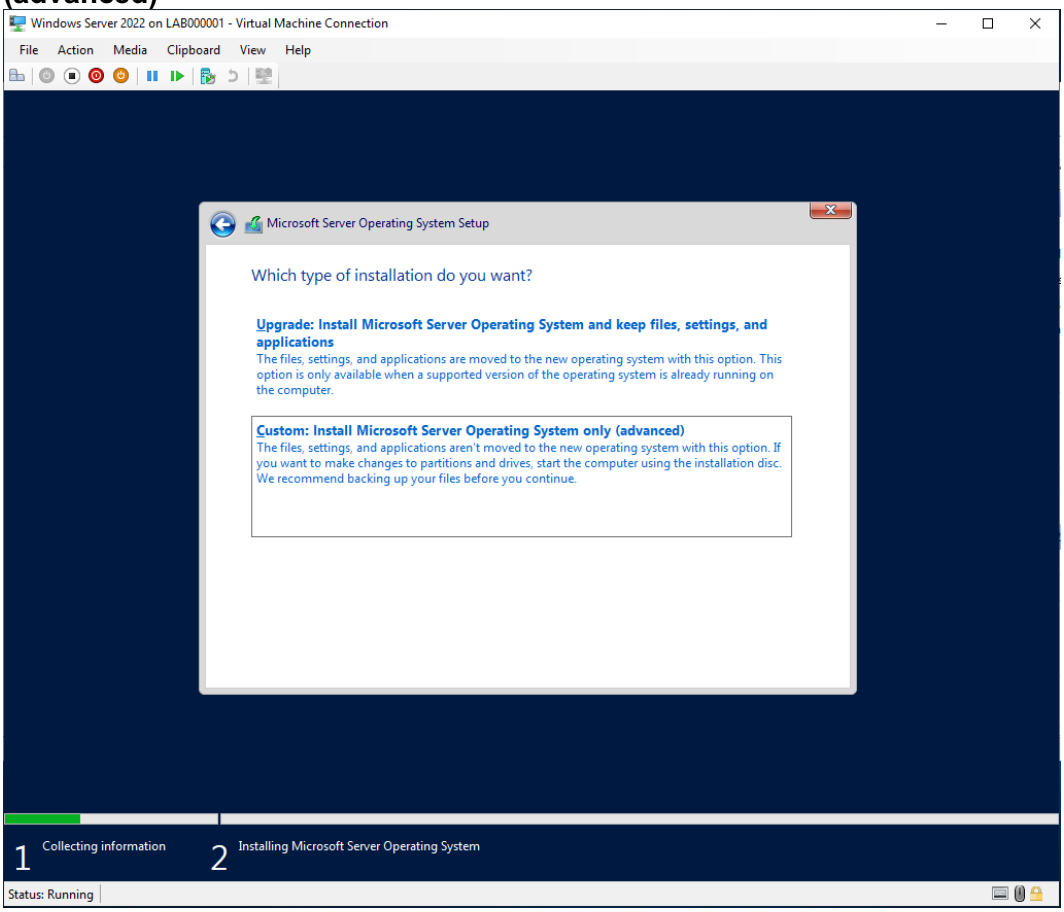
d) Select **"Windows Server 2022 Standard Evaluation (Desktop Experience)" > Next**



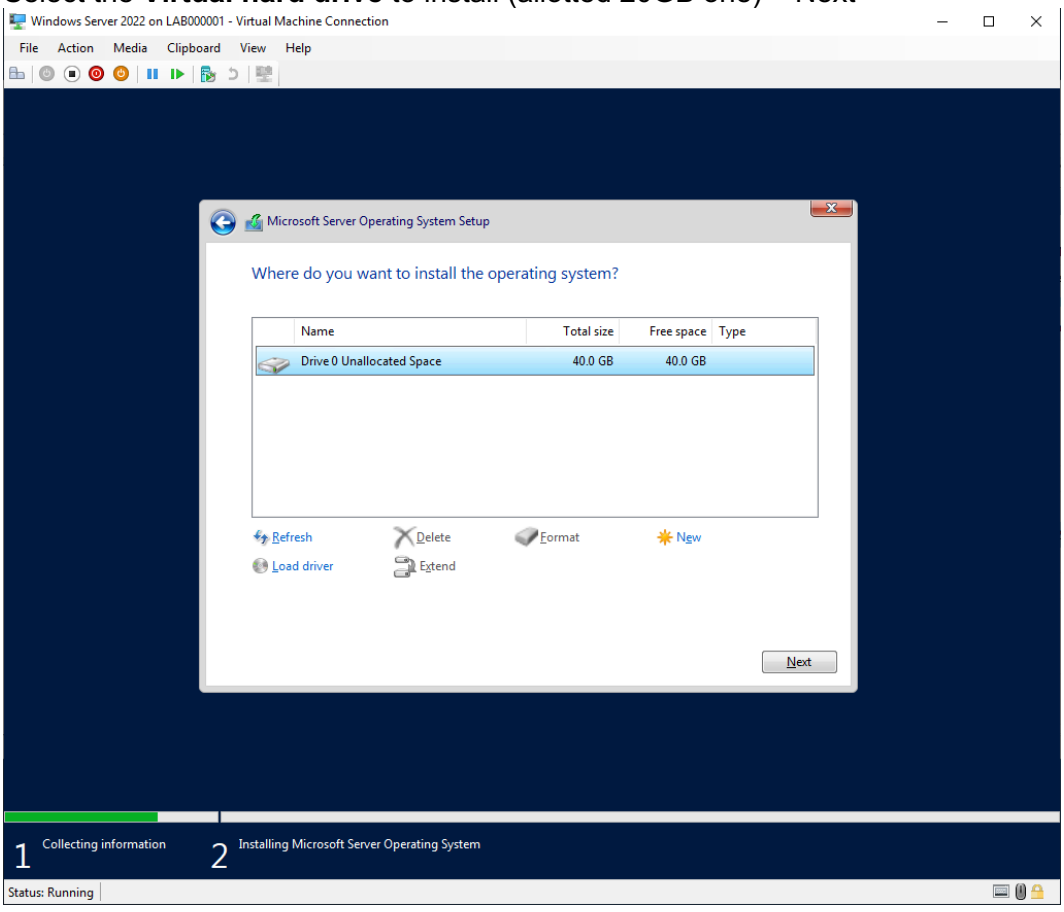
e) Check **"I accept …"** at the bottom > Next



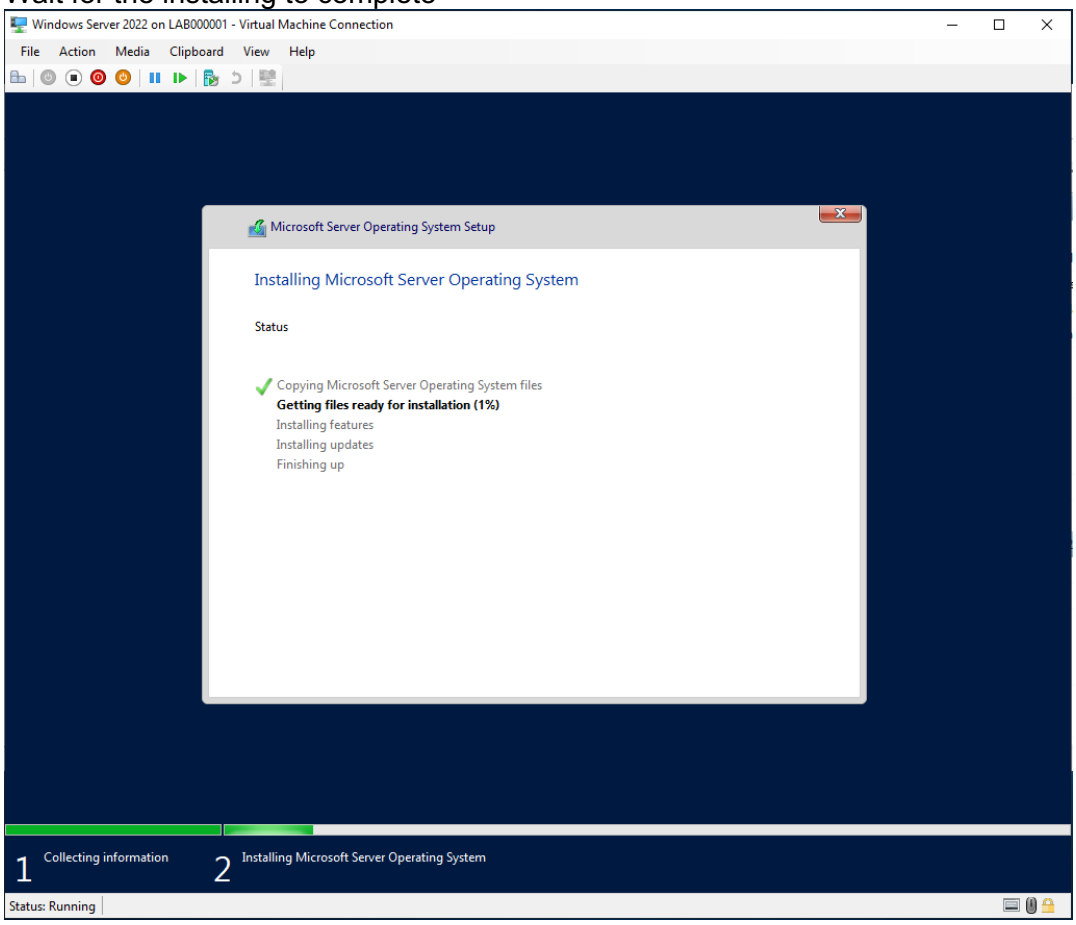
f) Click **“Custom: Install Microsoft Server Operating System only (advanced)”**

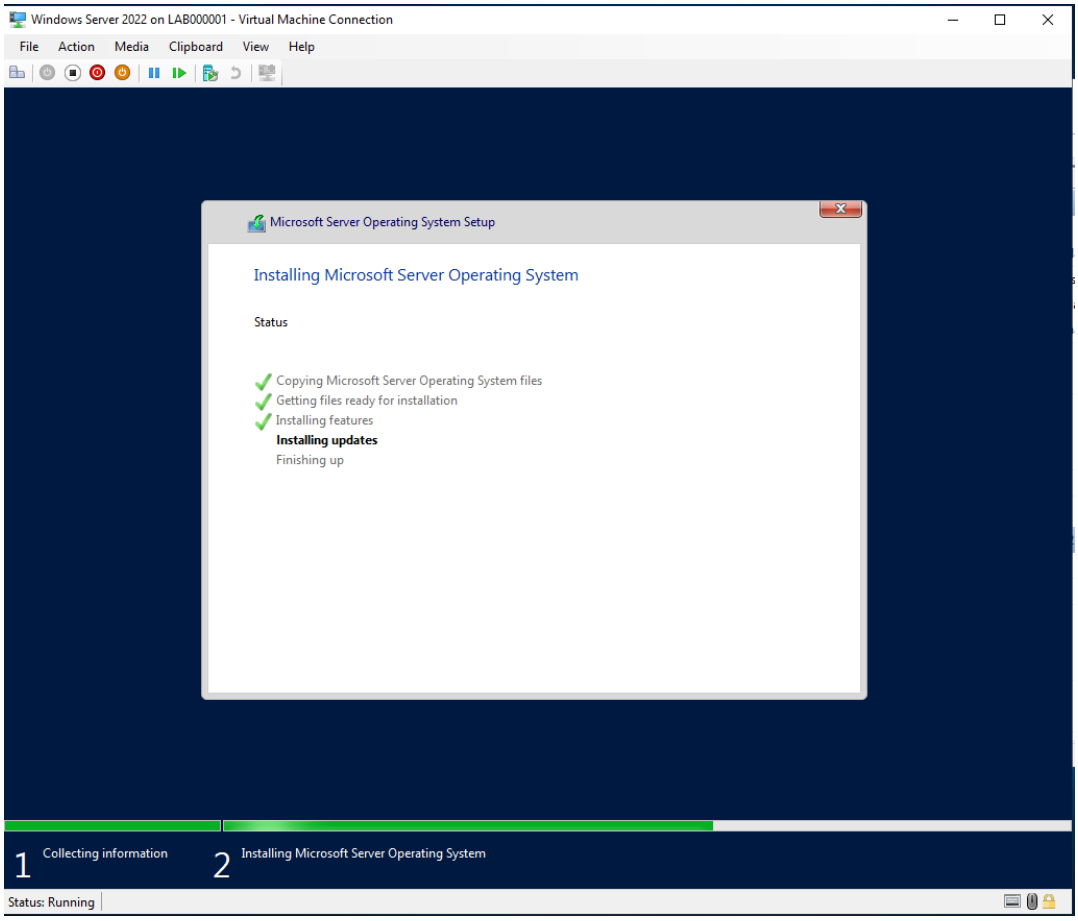


g) Select the **Virtual hard drive** to install (allotted 20GB one) > Next

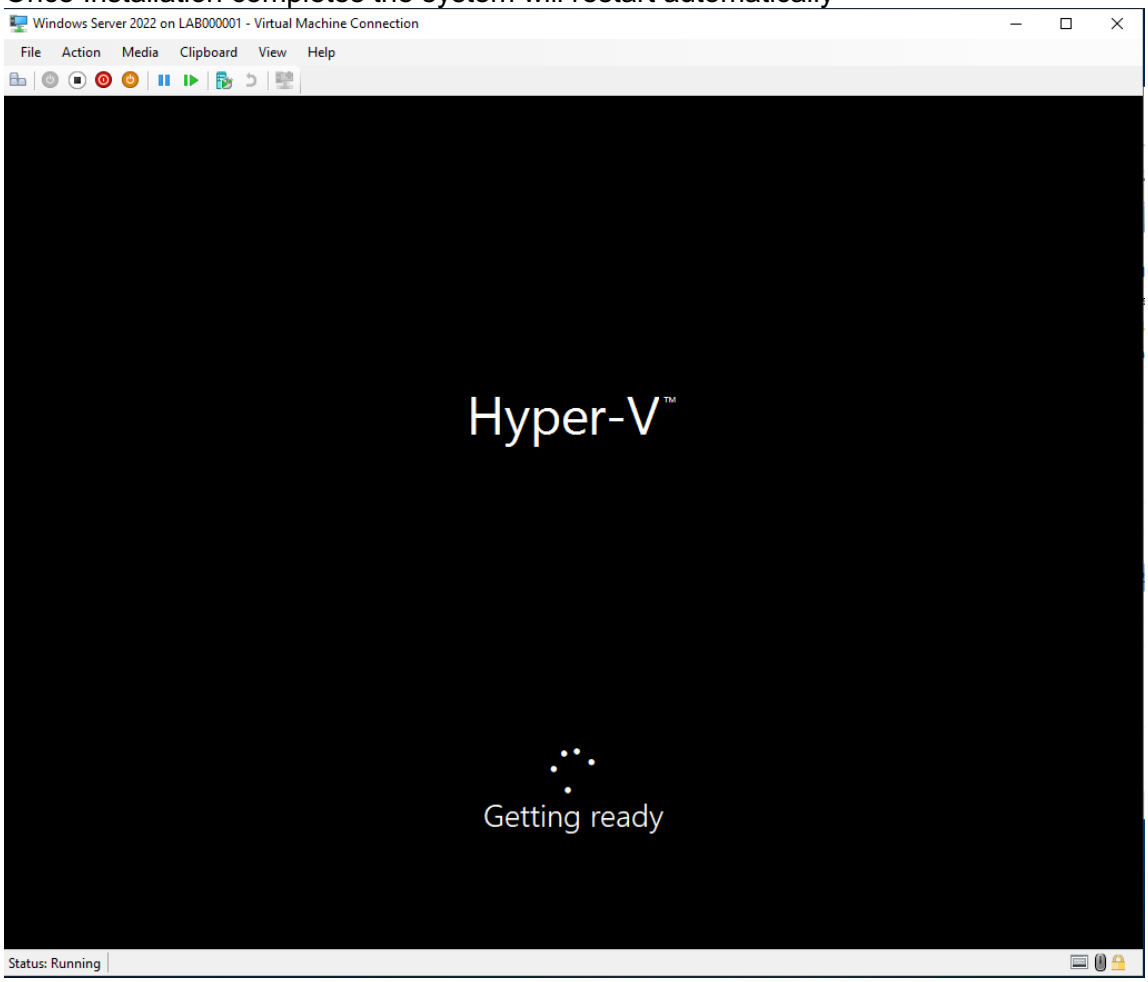


h) Wait for the installing to complete



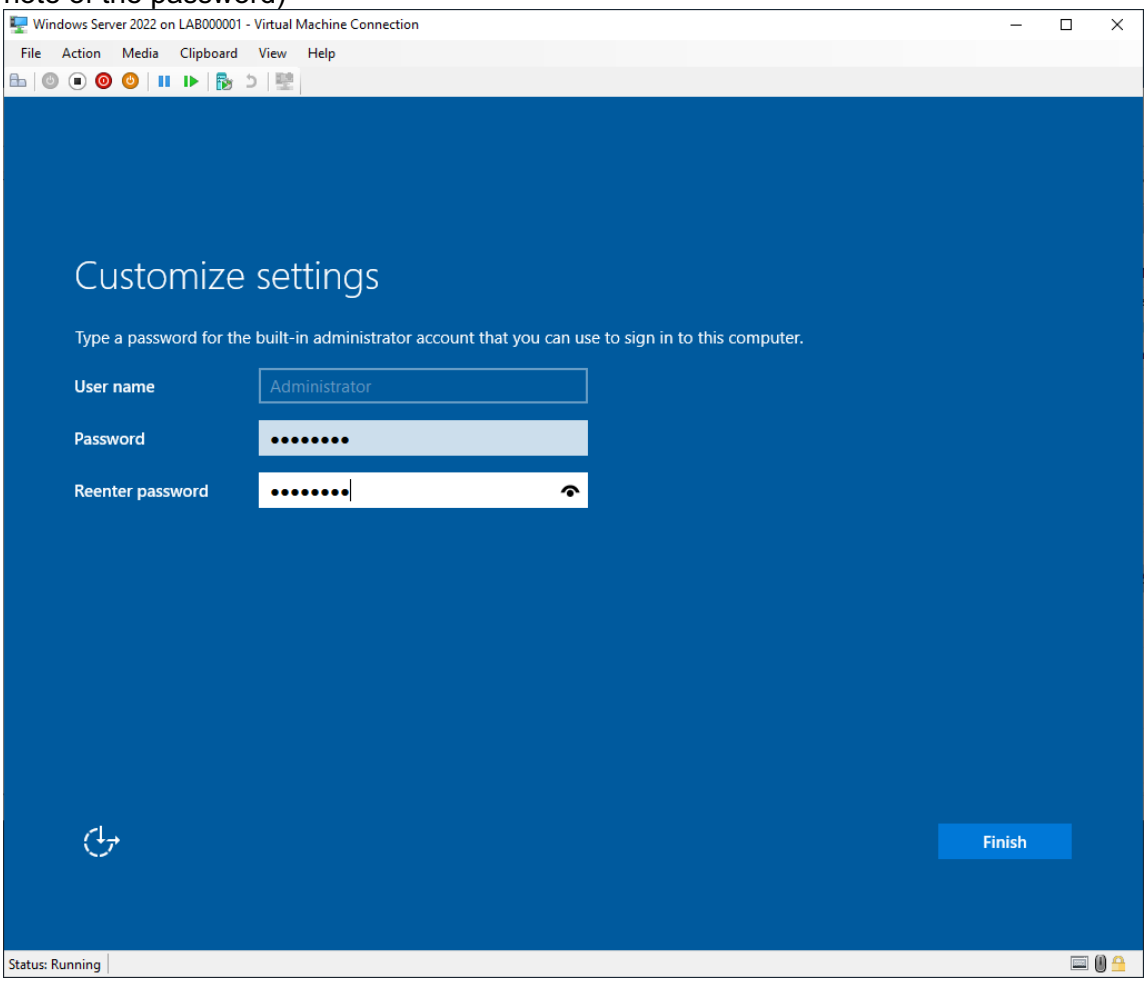


Once Installation completes the system will restart automatically

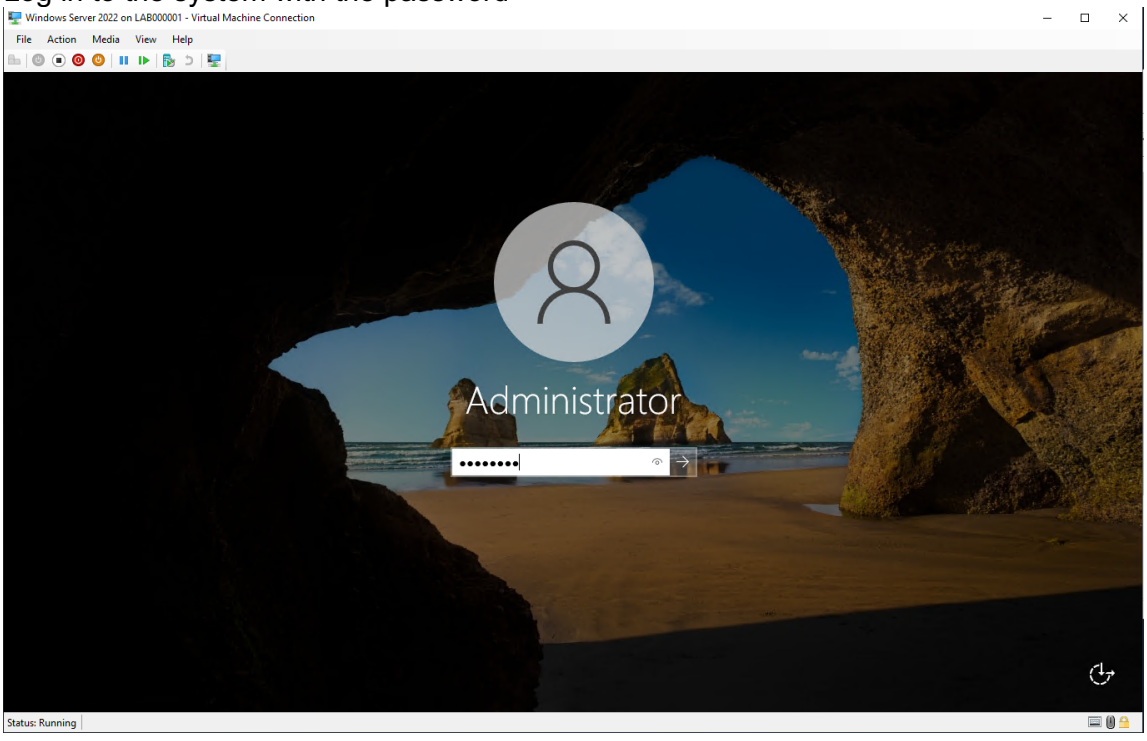


4. Check the Windows Server 2022 VM functioning

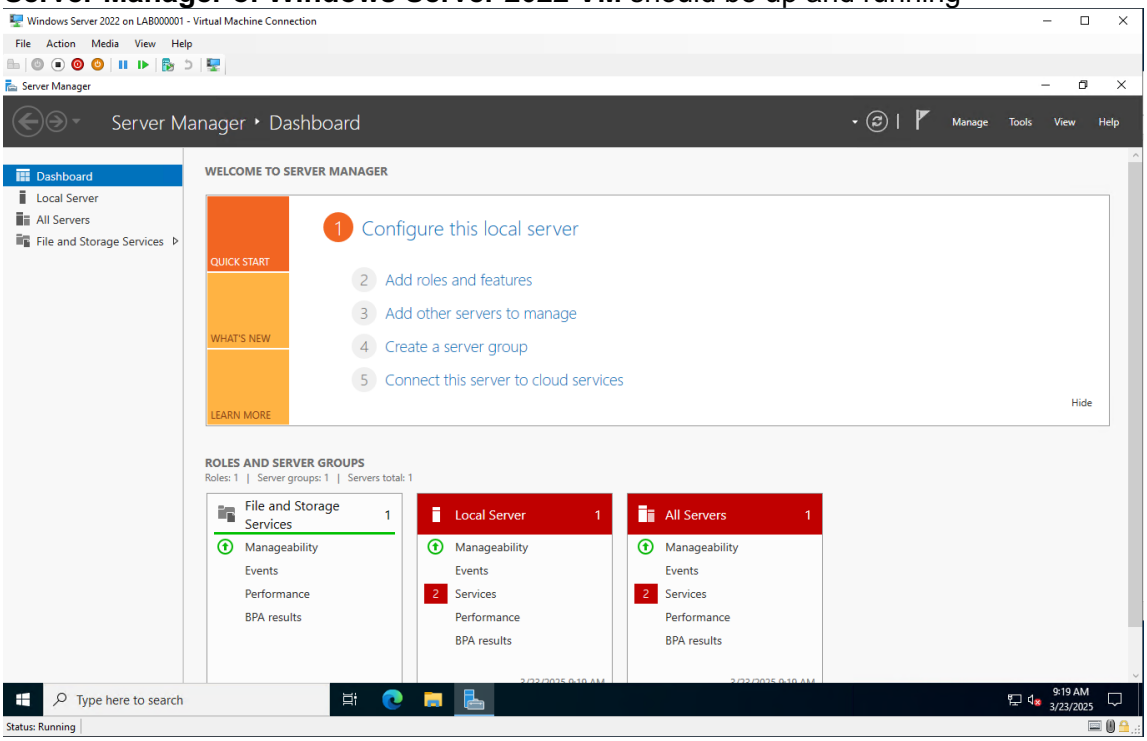
- When prompted, update the **Administrator Password** > Finish (Make a note of the password)



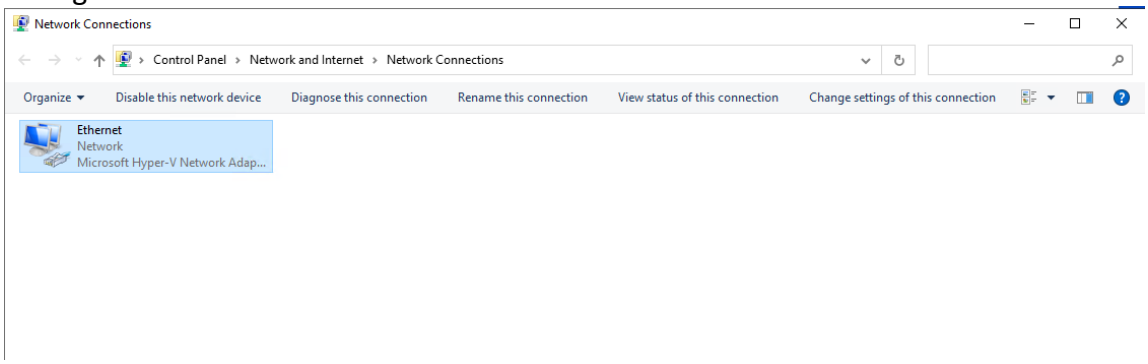
- Log in to the system with the password

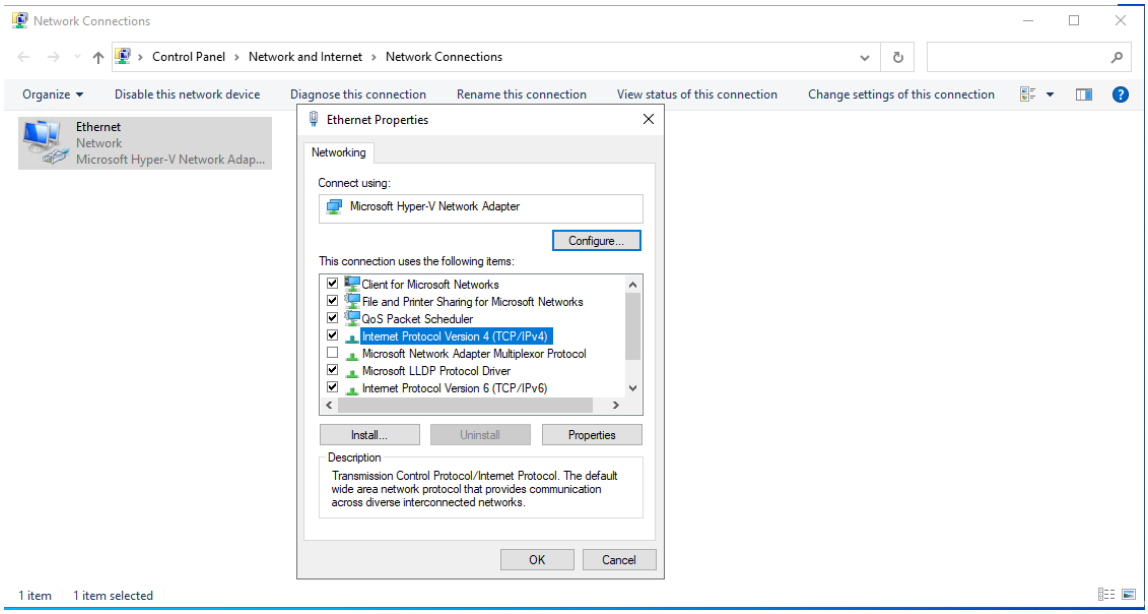


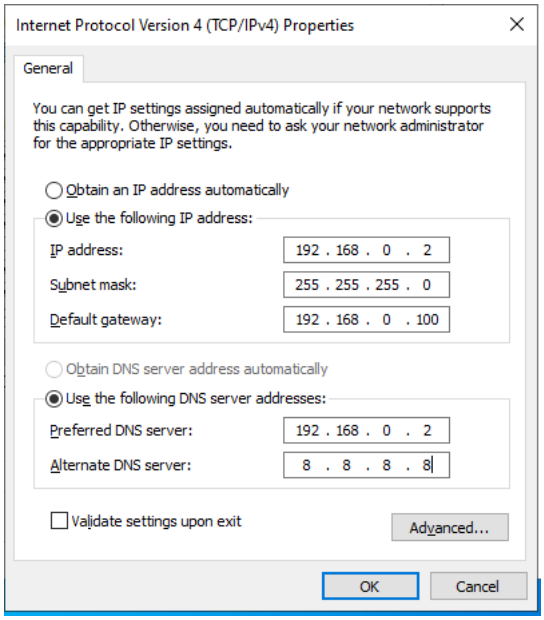
- **Server Manager of Windows Server 2022 VM** should be up and running



Configure Static IP Address:

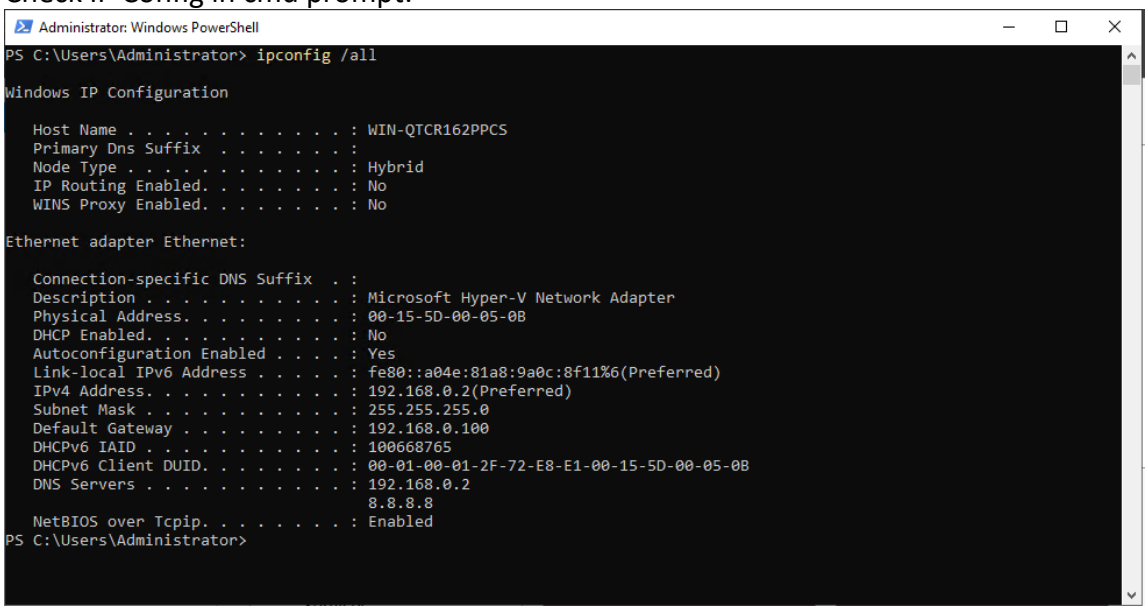




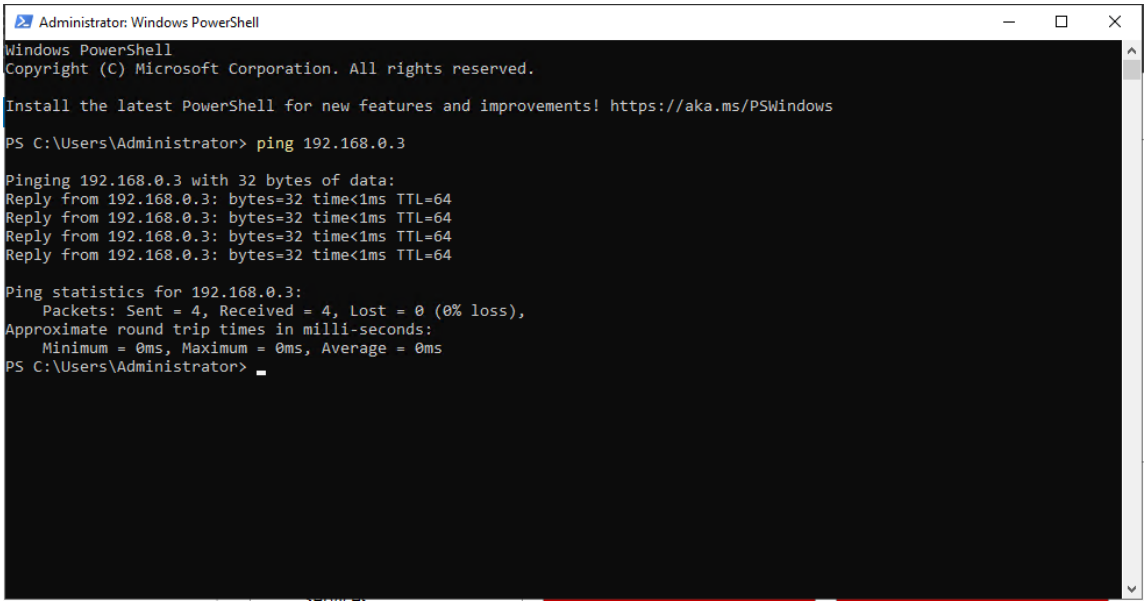


Restart WinServer

Check IP Config in cmd prompt:



Test Connectivity:
Ping the Ubuntu (WebServer):


Administrator: Windows PowerShell
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
PS C:\Users\Administrator> ping 192.168.0.3
Pinging 192.168.0.3 with 32 bytes of data:
Reply from 192.168.0.3: bytes=32 time<1ms TTL=64
Reply from 192.168.0.3: bytes=32 time<1ms TTL=64
Reply from 192.168.0.3: bytes=32 time<1ms TTL=64
Reply from 192.168.0.3: bytes=32 time<1ms TTL=64
Ping statistics for 192.168.0.3:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
PS C:\Users\Administrator>