

How to install a virtual machine on Windows 11 using Hyper-V Manager

If you want to have a separate environment to test some potentially dangerous software, or try out some new versions of Windows without wanting them to be involved with the data on your current computer, then install a virtual machine on your computer. Windows 11 with Hyper-V Manager is the most optimal way to help you solve such problems.

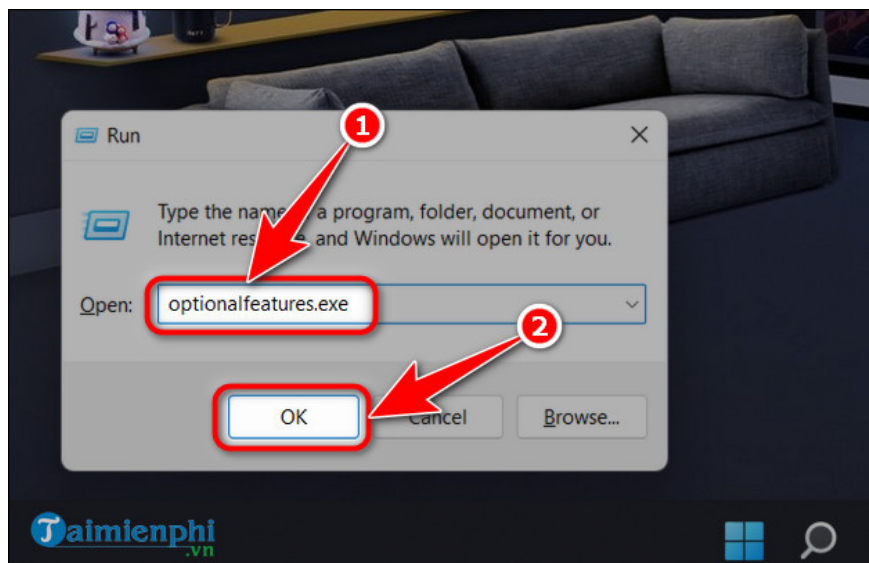
Using a virtual machine is a solution that helps you make changes in the system and test software that is at risk of virus infection without damaging the main machine you are using. If you are using **Windows 11**, you can now install a virtual machine yourself without downloading and using other software.

How to use Hyper-V Manager to create virtual machines on Windows 11

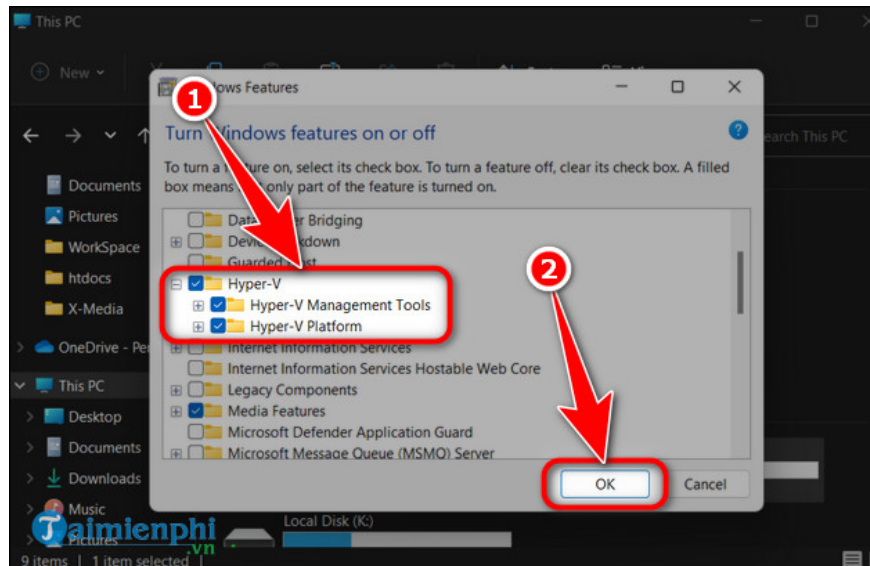
I. Instructions for installing virtual machines directly on Windows 11

*Step 1: Press the **Windows + R** key combination to open the **Run** dialog box.*

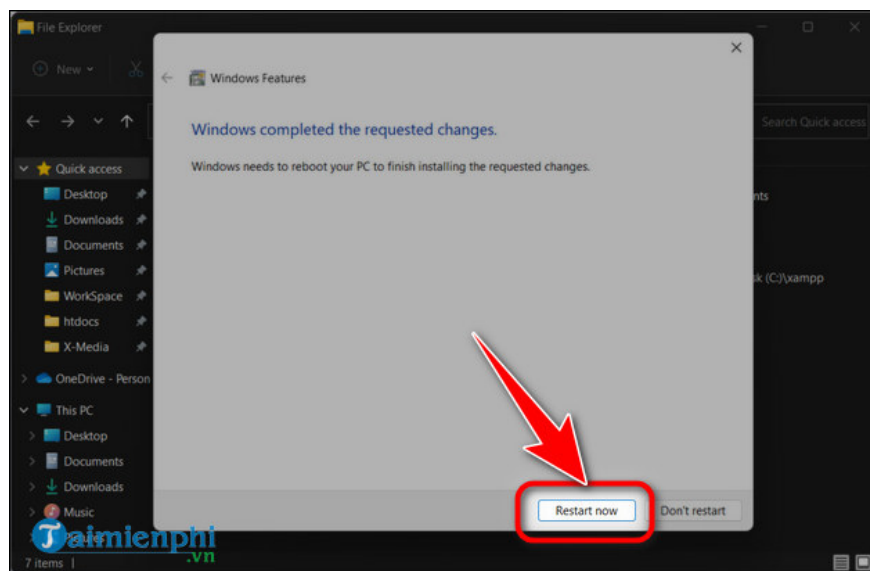
*Step 2: Enter **optionalfeatures.exe** and click **OK**.*



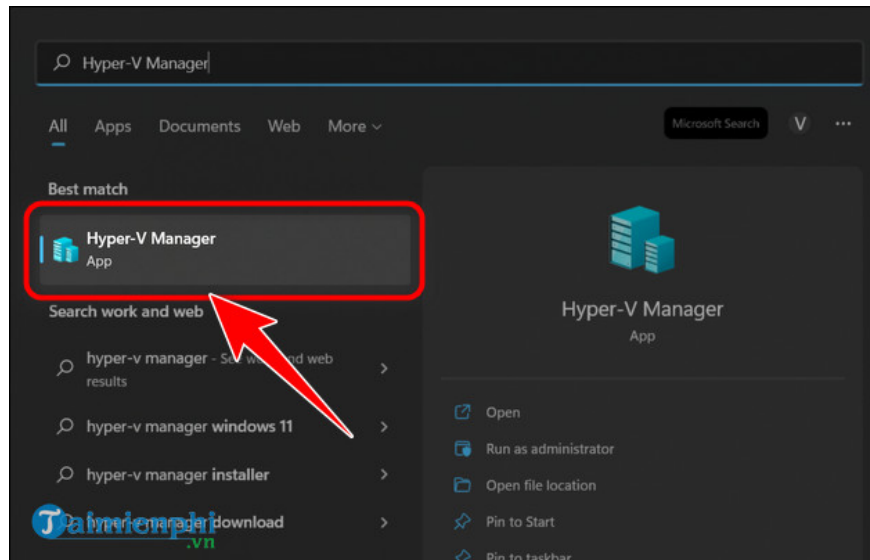
*Step 3: In the **Windows Features** window, select the items in **Hyper-V** => click **OK**.*



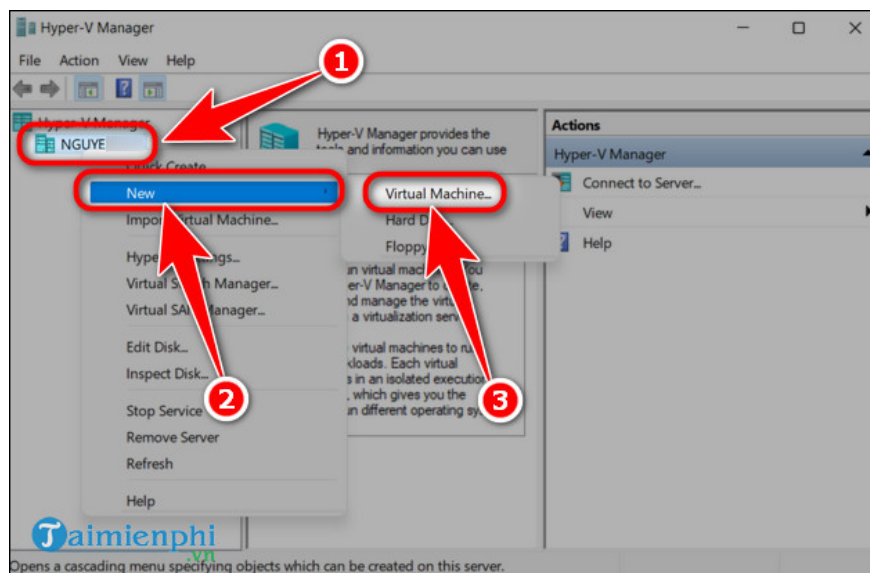
Step 4: Click **Restart Now** to apply the settings.



Step 5: After the computer restarts. Press the **Windows+S** key combination , enter **Hyper-V** => select **Hyper-V Manager** .

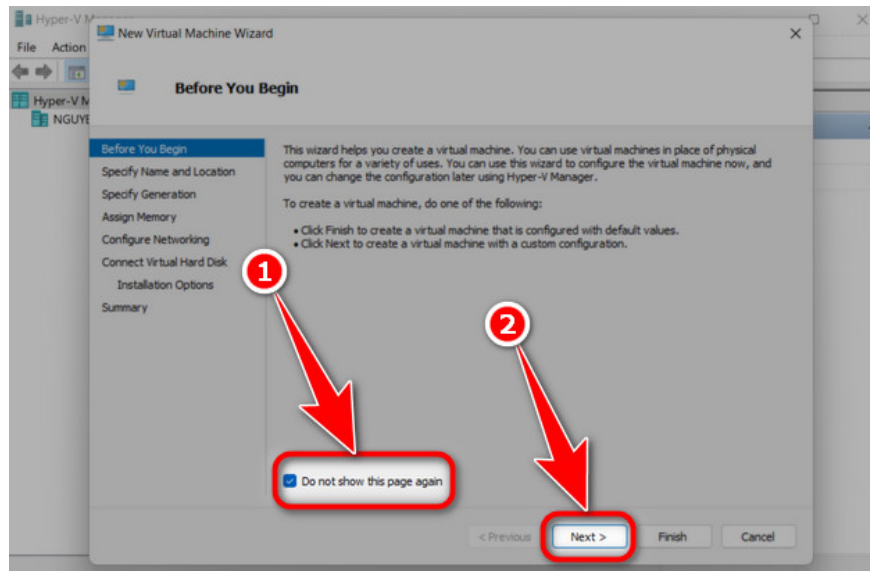


Step 6: Right- click your **computer name** => select **New** => **Virtual Machine** . .

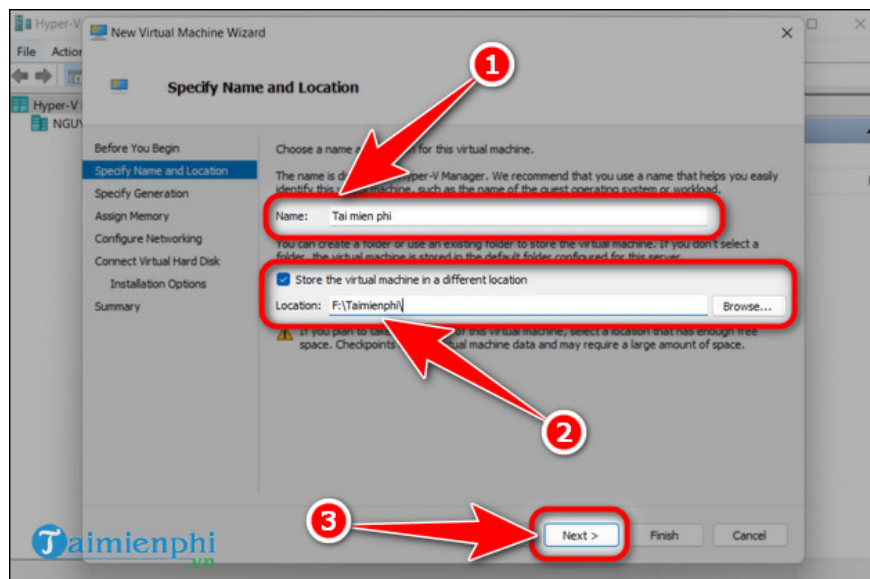


Step 7: The **Before You Begin** window appears. Click **Next** to continue.

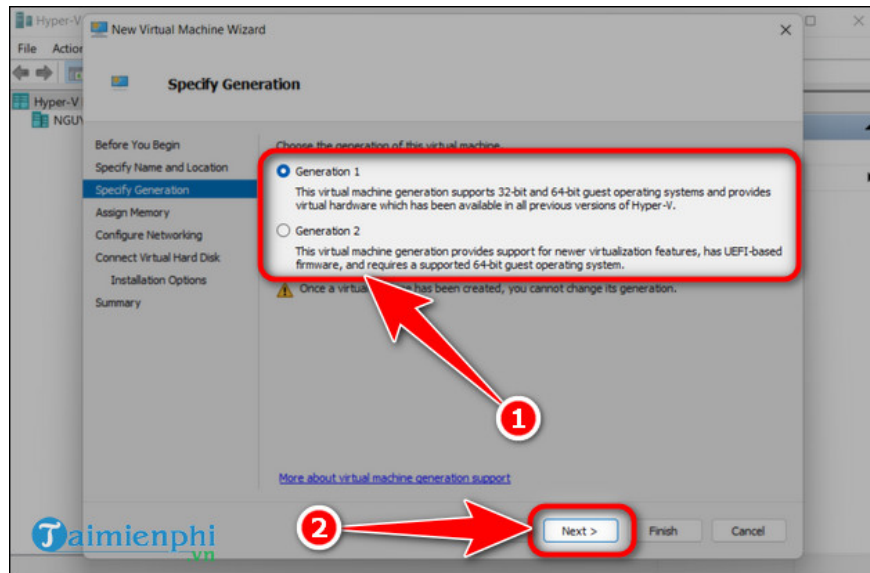
- **Note:** You can check the **Do not show this page again** box to not display this window again the next time you use it.



Step 8: In the Name box , give your **virtual machine any name** . If you want to **change the virtual machine storage location** , check **Store the virtual machine in a different location** => click **Browse** => Select storage location => **Click Next** to continue.



Step 9: You **choose 1 of 2** options here => Click **Next** .
- **Generation 1:** Virtual machines will support old versions of **32 bit and 64 bit** operating systems. - **Generation 2:** Virtual Mac will only support the latest **64 bit operating system version**.

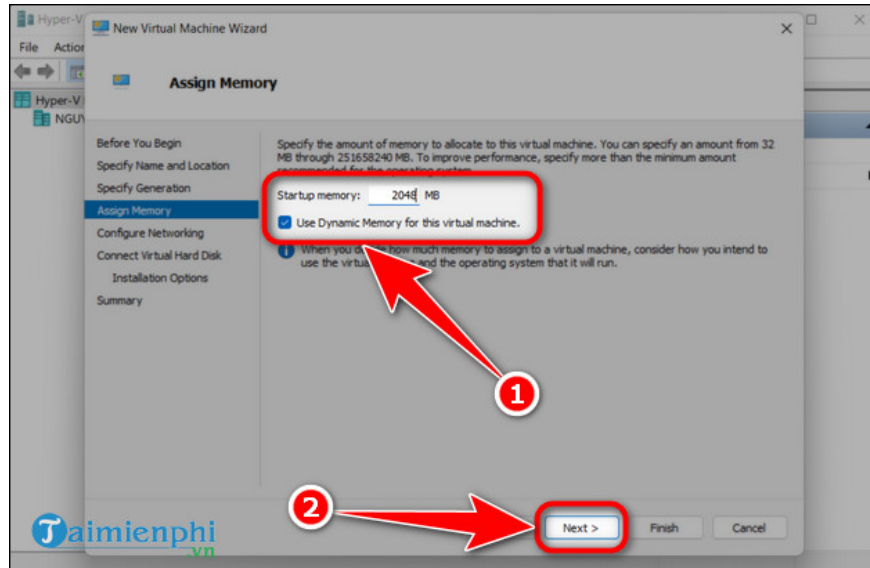


Step 10: In the **Startup memory** section , **enter the amount of RAM** for the virtual machine. Select **Use Dynamic Memory for this virtual machine** => Click **Next** .

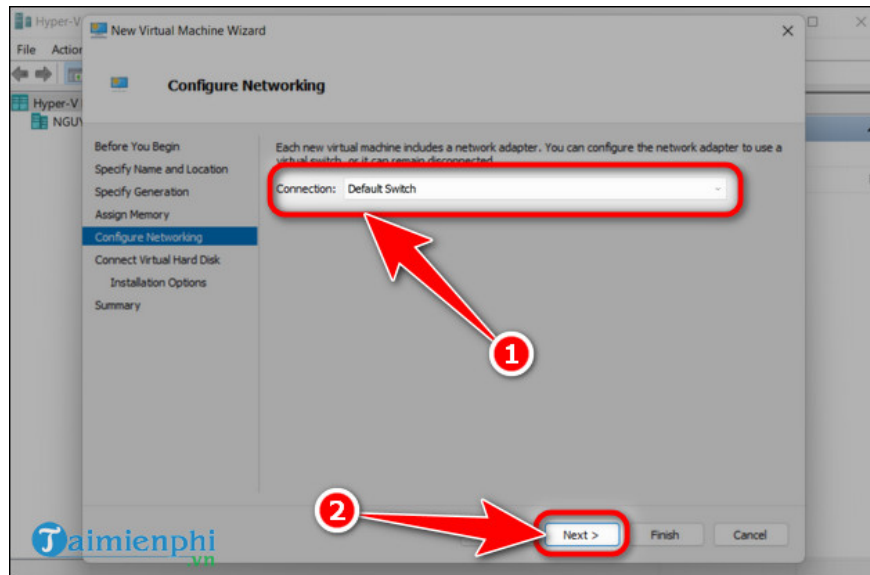
- Note:

+ You should give the virtual machine at least 2048MB for the virtual machine to operate smoother and more stable. If your computer only has 4GB of RAM, you can use less. + **Use Dynamic Memory for this virtual machine**

should be checked . This item has the effect of allowing the virtual machine to use more RAM than you initially set in case it is necessary.

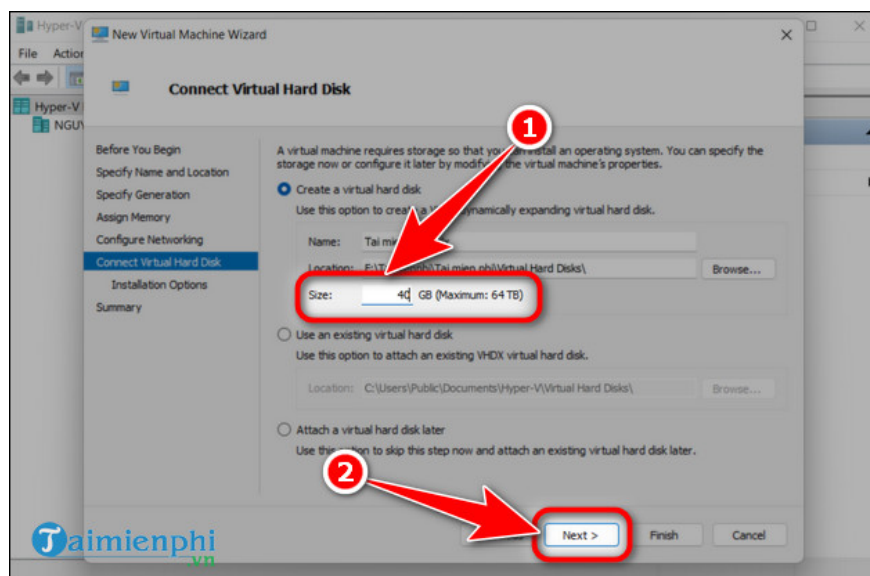


Step 11: In the **Connection** menu , select **Default Switch** => Click **Next** .



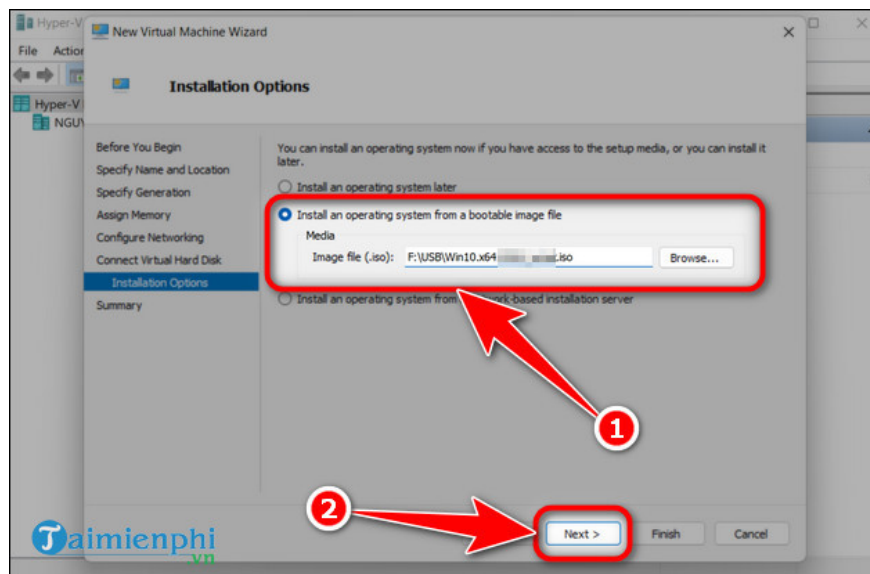
Step 12: Select **Create a virtual hard disk** . In the **Size** section , **fill in the hard drive capacity** you want to share with the virtual machine (maximum 64TB). Click **Next** to continue.

- **Note:** The **32-bit** version of Windows requires **16GB** of disk space, while the **64-bit** version requires **32GB** . So you need to allocate disk space according to the operating system you plan to install on your virtual machine.
- + **Use an existing virtual hard disk:** Use a previously created virtual hard drive.
- + **Attach a virtual hard disk later:** Use this option to temporarily skip this step and want to divide the capacity later.

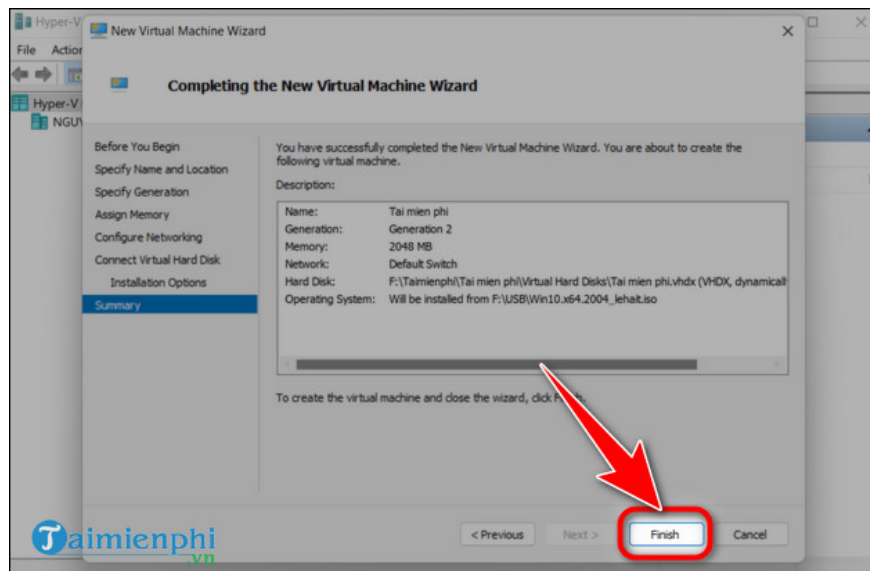


Step 13: Select **Install an operating system from bootable image file** => Click **Browse** to select the **Win** file to run on the virtual machine => Click **Next** .

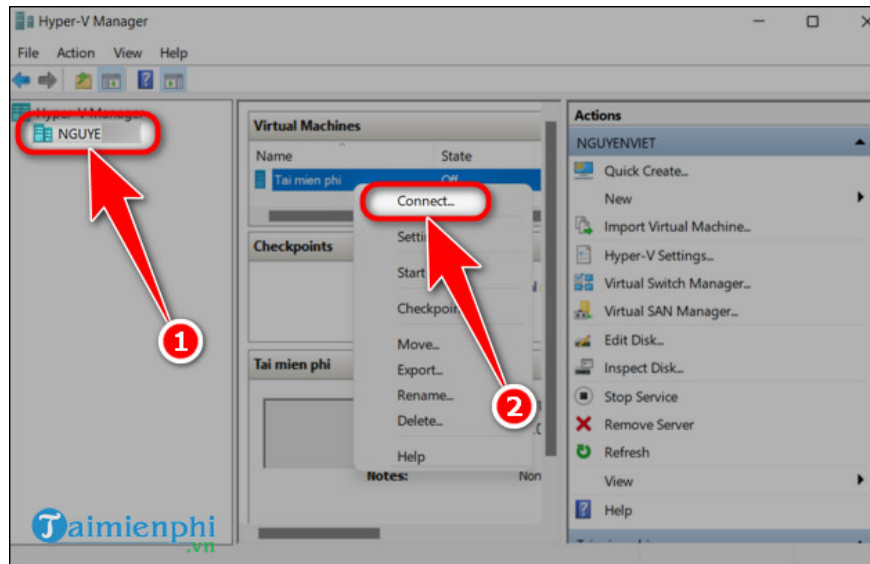
- **Install an operating system later:** Install the operating system later.
- **Install an operating system from a network-based installation server:** Install the operating system via the network.



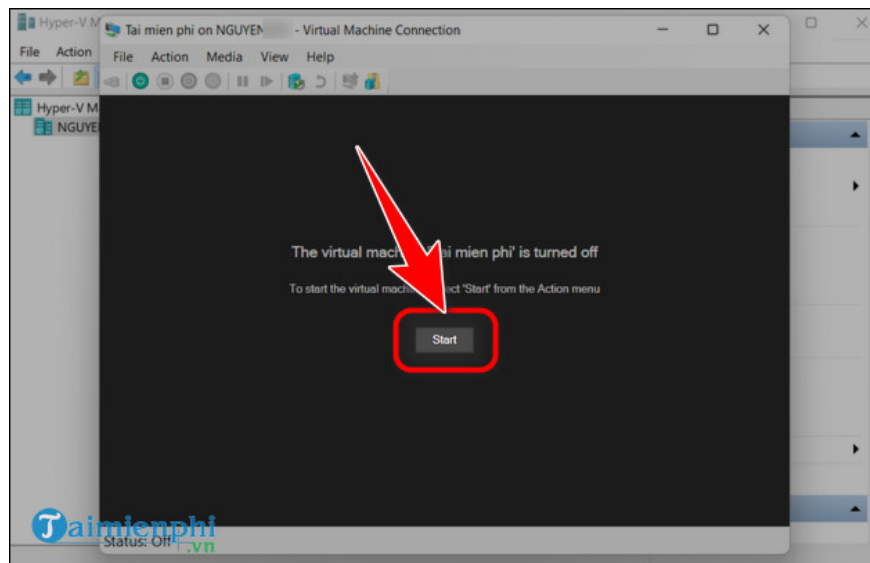
Step 14: Review **the detailed parameters** of the virtual machine and click **Finish** to proceed with creating the virtual machine.



Step 15: After the installation process is complete. Go back to **Hyper-V Manager** => **right click** on the virtual machine you just created, select **Connect** .



- Click **Start** to launch the virtual machine.



II. Benefits of using Hyper-V Manager virtual machine on Windows 11

- **Cost savings:** You do not need to buy additional physical resources but can still use the virtual environment and perform functions on it, just like a real computer.
- **Perfect security:** Any changes in the virtual machine will be encapsulated and will not affect your main machine. So you can run any potentially malicious program or make high-risk system changes.
- **Scalability:** You can install and test many different operating systems without worrying about data conflicts. Everything on virtual machines will disappear when you delete them.

III. Notes when using virtual machines on Windows 11

- **Data storage:** If you store information on a virtual machine, when you delete the virtual machine, it will also delete all information and data on that virtual machine.
- **Taking up computer resources:** If the computer has a low hardware configuration but installs too many

virtual machine programs, the computer will slow down and affect other programs.

- **Connectivity between the main machine and virtual machine:** Due to focusing on one computer, if the main machine breaks down, all virtual computers set up on it will also be affected.

- **Compatibility:** For Hyper-V virtual machines, some Windows Home editions will not be available or cannot be used.

So, you have created your own virtual machine. Now you can install applications or change system settings, etc. without affecting your main device. If you cannot use Hyper-V, you can **install a virtual machine using VMware** so you can use it to do the same things as on a Hyper-V virtual machine.

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