Lab 10.1.6 Creating Hyper-V Virtual Machines

From TestOut CompTIA Security+ Course

In this lab I will be creating 2 VMs on a Hyper-V Server.

The scenario for this lab is as follows:

"You have installed Hyper-V on ITAdmin. You're experimenting with creating virtual machines. In this lab, your task is to create two virtual machines named VM1 and VM2. Use the following settings as specified for each machine:

VM1:

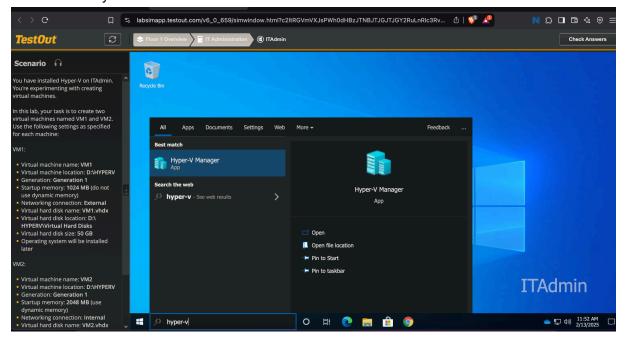
- Virtual machine name: VM1
- Virtual machine location: D: \ HYPERV
- Generation: Generation 1
- Startup memory: 1024 MB (do not use dynamic memory)
- Networking connection: ExternalVirtual hard disk name: VM1.vhdx
- Virtual hard disk location: D: \ HYPERV \ Virtual Hard Disks
- Virtual hard disk size: 50 GB
- Operating system will be installed later

VM2:

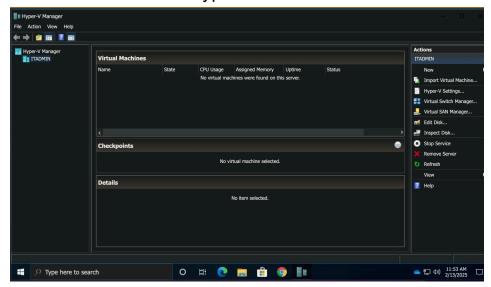
- Virtual machine name: VM2
- Virtual machine location: D: \ HYPERV
- Generation: Generation 1
- Startup memory: 2048 MB (use dynamic memory)
- Networking connection: Internal
- Virtual hard disk name: VM2.vhdx
- Virtual hard disk location: D: \ HYPERV \ Virtual Hard Disks
- Virtual hard disk size: 250 GB
- Operating system will be installed later
- Minimum RAM: 512 MBMaximum RAM: 4096 MB"

To start I will Open the Hyper-V manager on my Windows Workstation.

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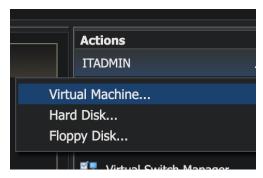
Once it's open, I'll navigate to the right-menu pane and hit the "New" button to create a new VM on this ITAdmin Hyper-V server.



Once the drop down menu opens from clicking **New** I am presented with 3 options. I can create the following within the Hyper-V Manager:

- 1. Virtual Machine
- 2. Floppy Disk (virtual)
- 3. Hard Disk (virtual, .vhdx file)

For this specific scenario, I will click **Virtual Machine** since my task is to create 2 VMs for this lab.



Clicking **Virtual Machine** results in a new pop-menu which says **New Virtual Machine Wizard.** As I go through this Wizard I need to keep in mind the following requirements for this First VM I'm creating:

Virtual machine name: VM1

Virtual machine location: D:\HYPERV

• Generation: Generation 1

• Startup memory: 1024 MB (do not use dynamic memory)

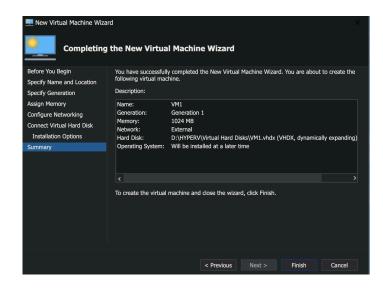
Networking connection: ExternalVirtual hard disk name: VM1.vhdx

• Virtual hard disk location: D:\HYPERV\Virtual Hard Disks

Virtual hard disk size: 50 GB

Operating system will be installed later

Once I've finished clicking through all the prompts I will verify all the details match the above:



Once I verify all the settings have been configured I will hit the **Finish** to finalize the install.

I will then Hit the **New** button again to create another VM. This time it should adhere to the following guidelines:

Virtual machine name: VM2

Virtual machine location: D: \ HYPERV

• Generation: Generation 1

• Startup memory: 2048 MB (use dynamic memory)

Networking connection: InternalVirtual hard disk name: VM2.vhdx

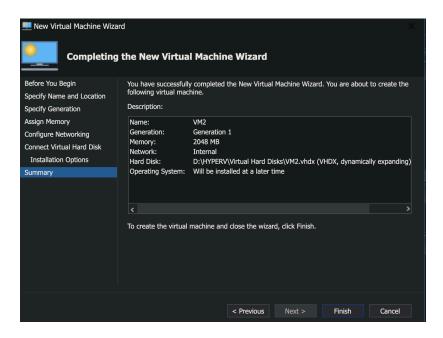
Virtual hard disk location: D: \ HYPERV \ Virtual Hard Disks

Virtual hard disk size: 250 GB

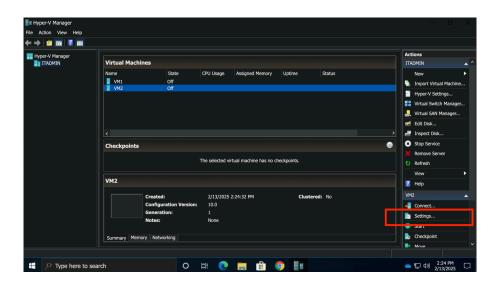
Operating system will be installed later

Minimum RAM: 512 MBMaximum RAM: 4096 MB

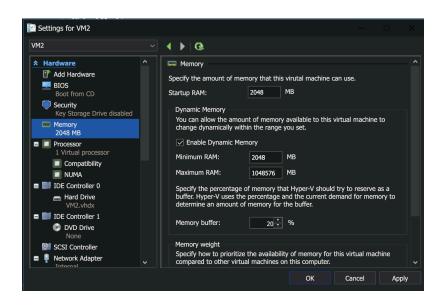
Once again a wizard pops up and prompts me for the configuration settings. I will configure them according to the above and verify the summary at the end:



I did notice that at the end there was no way to set a minimum and maximum memory size for the dynamic memory I set. I'll head back to the list of VMs within the Hyper-V manager.

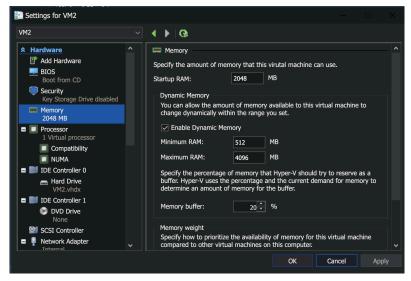


I'll click the **VM2** so that it's highlighted and click the **Settings** button. This brings up a virtual Hardware configuration menu. I'll click the Memory button to bring up the configuration set. There it is! I can see the Dynamic memory min and max values.



I'll set the min and max values from 512MB to 4096MB as instructed.

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I will then hit the **Apply** then **OK** buttons.

That's it! Both VMs are created. This now concludes this lab.

