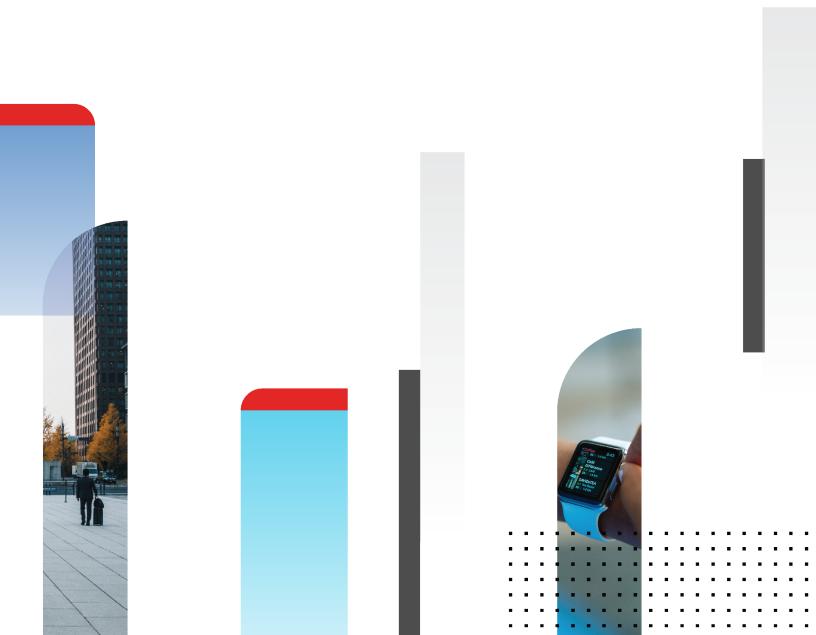


Hyper V Deployment Guide

FortiDeceptor 4.2.0



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Change Log

Date	Change Description
2022-05-12	Initial release.

About FortiDeceptor VM on Microsoft Hyper-V

FortiDeceptor VM is a 64-bit virtual appliance version of FortiDeceptor. It is deployed in a virtual machine environment. Once the virtual appliance is deployed and set up, you can manage FortiDeceptor VM via its GUI in a web browser on your management computer.

This document provides information about deploying a FortiDeceptor VM in Microsoft Hyper-V environments.

This includes how to configure the virtual hardware settings of the virtual appliance. This guide presumes that the reader has a thorough understanding of virtualization servers.

This document does not cover configuration and operation of the virtual appliance after it has been successfully installed and started. For that information, see the *FortiDeceptor Administration Guide* in the Fortinet Document Library.

Licensing

Fortinet offers the FortiDeceptor in a stackable license model. This model allows you to expand your VM solution as your environment expands. For information on purchasing a FortiDeceptor license, contact your Fortinet Authorized Reseller, or visit https://www.fortinet.com/how_to_buy/.

When configuring your FortiDeceptor, ensure that you configure hardware settings as outlined in the following table and consider future expansion. Contact your Fortinet Authorized Reseller for more information.

Technical Specification	Details
Virtual CPUs (min / max)	12 / Unlimited*
Virtual Network Interfaces	2-6 nics
Virtual Memory (min / max)	16GB / Unlimited**
Virtual Storage (min / max)	HDD 50G/ 16TB***

For more information, see the FortiDeceptor product data sheet available on the Fortinet web site, https://www.fortinet.com/content/dam/fortinet/assets/data-sheets/FortiDeceptor.pdf.

After placing an order for FortiDeceptor, a license registration code is sent to the email address used in the order form. Use the license registration code provided to register the FortiDeceptor with Customer Service & Support at https://support.fortinet.com.

Upon registration, you can download the license file. You will need this file to activate your FortiDeceptor. You can configure basic network settings from the CLI to complete the deployment. Once the license file is uploaded and validated, the CLI and GUI will be fully functional.

Deploying FortiDeceptor VM on Microsoft Hyper-V

To deploy FortiDeceptor VM on Microsoft Hyper-V:

- 1. Prepare the FortiDeceptor image for Hyper-V on page 6
- 2. Configure the Virtual Machine on page 8
- 3. Configure the hardware settings on page 12

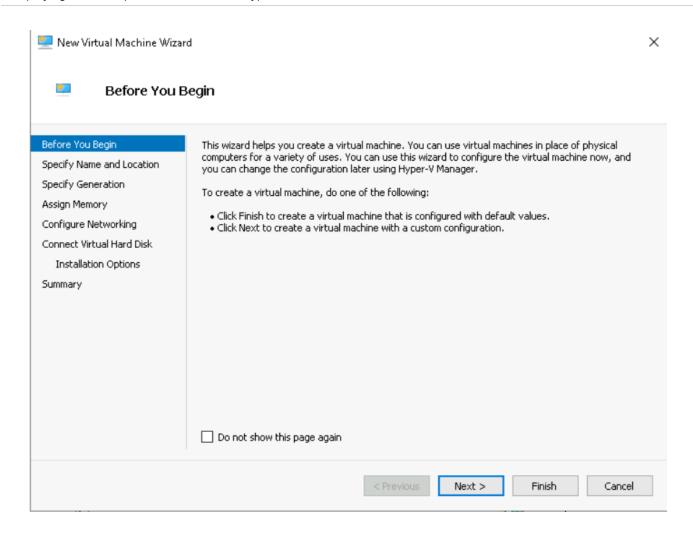
Prepare the FortiDeceptor image for Hyper-V

Download the image archive file for the Hyper-V platform and unzip it to get image file .out.hyperv.zip. After the image is downloaded, connect to the Hyper-V server to create the Virtual Machine.

To download the FortiDeceptor image:

- 1. Log in to FortiCloud.
- 2. In the banner, click Support > Downloads > Firmware Download. The Download/Firmware Images page opens.
- 3. From the Select Product dropdown, select FortiDeceptor.
- 4. Click the Download tab.
- 5. In the Image File Path section, click the image folder until you reach the image page.
- **6.** Select FDC_VM-v400-build0204-FORTINET.out.hyperv.zip.
- 7. Go to Start > Windows Administrative > Tools > Hyper-V Manager to launch the Hyper-V Manager on your Microsoft server.
- 8. In the Actions pane, click Connect to Server to connect to the Hyper-V server.
- 9. Right-click the server and click New > Virtual Machine. The New Virtual Machine Wizard opens.

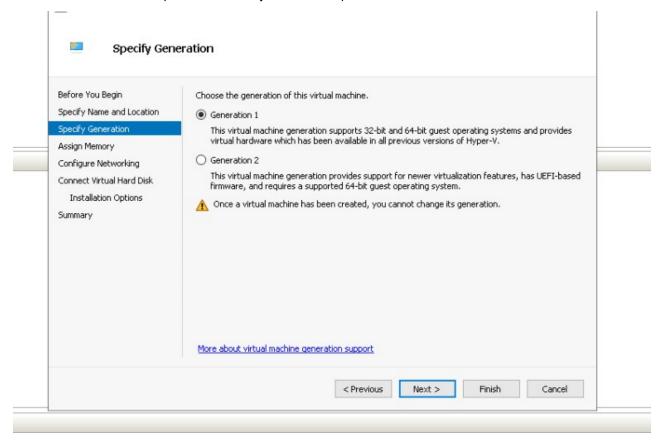
Alternatively, in the Actions menu, you can click New > Virtual Machine to launch the wizard.



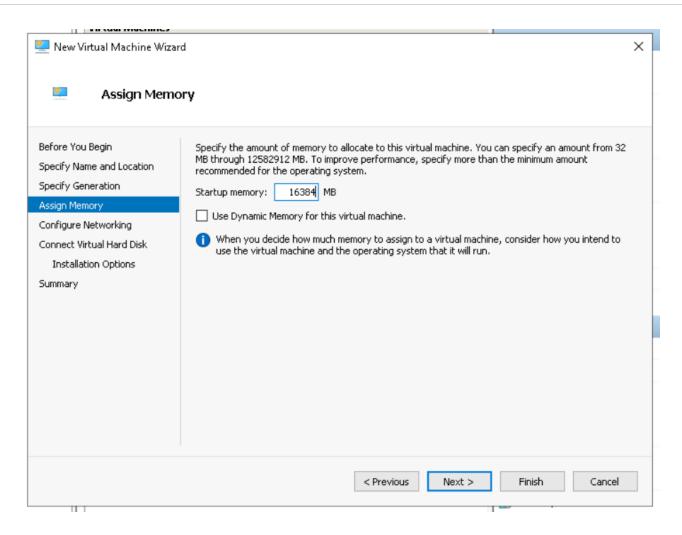
Configure the Virtual Machine

To configure the VM:

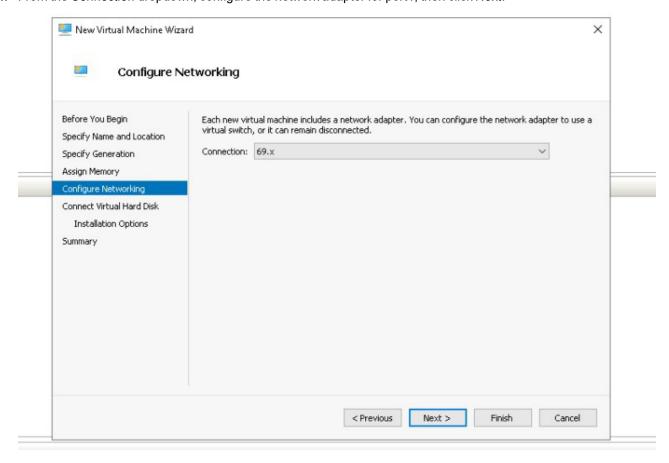
- 1. Specify a name for your FortiDeceptor and Location (if it is different from the default) for the VM and click Next.
- 2. Select Generation 1. This option is mandatory for FortiDeceptor.



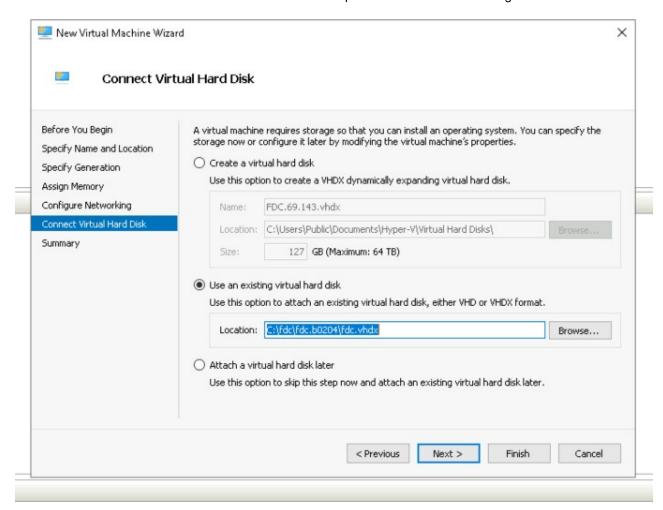
3. In the *Startup memory* field, specify the amount of memory to allocate to this VM and click *Next*. The recommended memory for the FortiDeceptor VM is 16 GB.



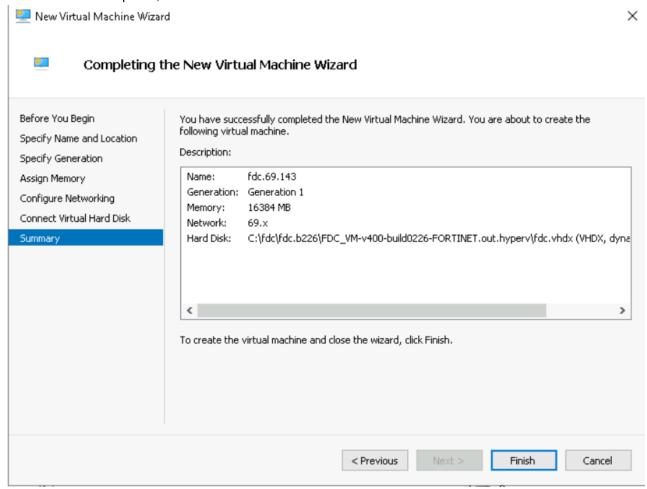
4. From the *Connection* dropdown, configure the network adapter for port1, then click *Next*.



5. Select Attach a virtual hard disk later and click Next. We will perform this task in a following section.



6. Review the chosen options, then click *Finish*.





Do not start the FortiDeceptor VM until you have completed all the steps in Configure the hardware settings on page 12.

Configure the hardware settings

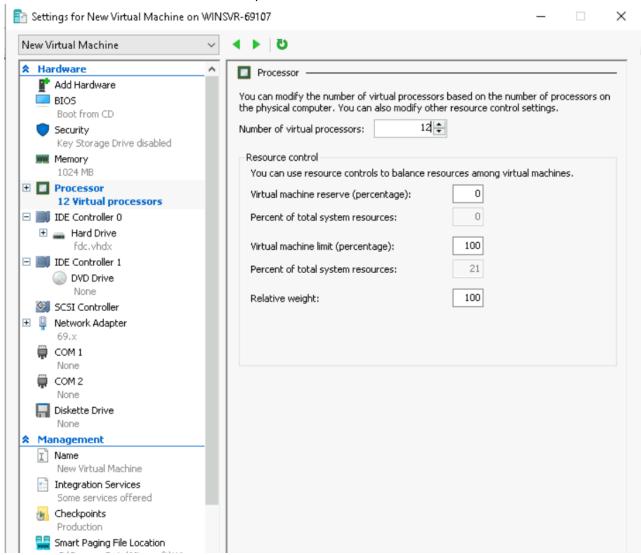
To configure the hardware settings, set the number of processors and attach the hard drive from the package you downloaded. After you have attached the hard drive, configure the Network Adapter and Deployment Network.



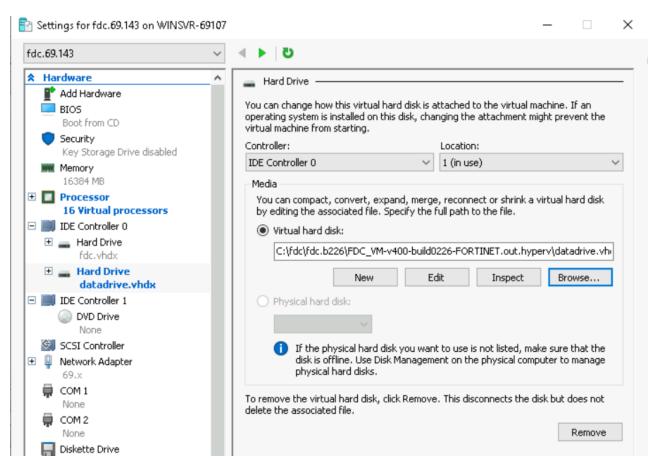
Unlike ESXi, to configure a trunk port on Hyper-V requires using PowerShell commands.

To configure the hardware settings:

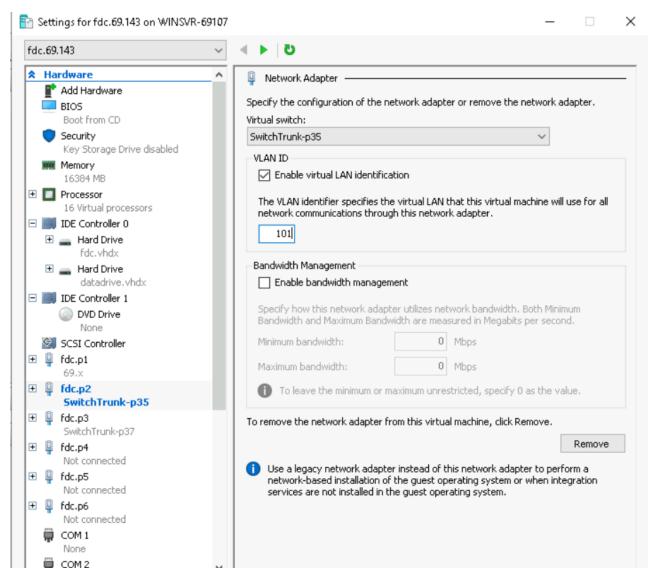
- 1. Right-click the VM you created and click Settings.
- 2. Click BIOS and set the BIOS to boot from the IDE as primary by moving it to the top. Click Apply.
- 3. Click Processor and set the Number of virtual processors to a minimum of 12.



- 4. Click IDE Controller 0 and add Hard Drive.
- **5.** Select *Virtual Hard Disk*, then click *Browse* to attach the first hard drive from the download package *fdc.vhdx*. Repeat this step for the second hard drive, '*datadrive.vhdx*'.



- 6. FortiDeceptor requires at least two Network Adapters and a maximum of six.
 - **a.** Go to Add Hardware > Network Adapter > Add to attach the Network Adapters.
 - b. Click Apply then click OK.



- 7. In the *Management* section, click *Smart Paging File Location* and use the *Browse* button to select the management folder on the Hyper-V server.
- **8.** Open a *PowerShell* window on the Hyper-V server and execute the following CLI command: Set-VMProcessor -VMName <VMName> -ExposeVirtualizationExtensions \$true
- 9. Start up the FortiDeceptor console from the Virtual Machines window. The default login is admin with no password.
- **10.** Open the console of the FortiDeceptor and configure the port1 IP and Default gateway as per the *FortiDeceptor Administration Guide*.
- 11. (Optional) For Deployment Networks using a trunk port, you will need to configure the network adapter manually.
 - **a.** Add the VM Network Adapter using PowerShell. You can rename the existing adapter.

b. Set the network adpater using VLAN Trunk Mode using the following command:

```
Set-VMNetworkAdaptervlan -VMName <VMName> -VMNetworkAdapterName <AdaptorName> -Trunk -AllowedVlanIdList "4-4090" -NativeVlanId 0
```

```
PS C:\Users\Administrator> add-vmnetworkadapter -VMName fdc.69.143 -name fdc.p2 -SwitchName SwitchTrunk-p35
PS C:\Users\Administrator> add-vmnetworkadapter -VMName fdc.69.143 -name fdc.p3 -SwitchName SwitchTrunk-p37
PS C:\Users\Administrator> add-vmnetworkadapter -VMName fdc.69.143 -name fdc.p4
PS C:\Users\Administrator> add-vmnetworkadapter -VMName fdc.69.143 -name fdc.p5
PS C:\Users\Administrator> add-vmnetworkadapter -VMName fdc.69.143 -name fdc.p6
PS C:\Users\Administrator> add-vmnetworkadapter -VMName fdc.69.143 -VMNetworkAdapterName fdc.p3 -Trunk -AllowedVlanI
                                       eVlanId 0
PS C:\Users\Administrator> Get-VMNetworkAdapter -VMName fdc.69.143
Name IsManagementOs VMName
                                                            SwitchName
                                                                                           MacAddress Status IPAddresses
fdc.p1 False
                                       fdc.69.143 69.x
                                                                                           000000000000
fdc.p2 False
                                       fdc.69.143 SwitchTrunk-p35 0000000000000
 Fdc.p3 False
                                       fdc.69.143 SwitchTrunk-p37 0000000000000
fdc.p4 False
fdc.p5 False
                                      fdc.69.143
fdc.69.143
                                                                                           0000000000000
                                                                                                                                 000
                                                                                           0000000000000
fdc.p6 False
                                       fdc.69.143
                                                                                            ааааааааааааа
PS C:\Users\Administrator> 🕳
```



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