Getting Started

How to Launch a NetFoundry Gateway on Hyper-V 2016/2019

B Prerequisites

Windows 2016 server already running

All powershell commands require Administrative Privileges

Installing Hyper-V

Installing Binaries

If not already installed, you'll need to install hyper-v

Issue the following command to install hyper-v this will restart your server

Install-WindowsFeature -Name Hyper-V -IncludeManagementTools -Restart

Installing a VMSwitch

You'll need to have at least one VMSwitch if you don't already have one.

Please note, we are adding an Internal switch for setup with a NAT server.

Issue the following command to install a new "Internal" VSwitch

New-VMSwitch -SwitchName "Hyper-VSwitch" -SwitchType Internal

Configuring NAT

In order to create a NAT IP Address, you need to associate it with the Hyper-V VMSwtich(Hyper-V Virtual Ethernet Adapter), like the one created above. To see the current adapters, issue the following command

Get-NetAdapter

Use the result to create a new NATIPAddress on the specified Interface

New-NetIPAddress -IPAddress 192.168.0.1 -PrefixLength 24 -InterfaceIndex 5

How you can tell hyper-v what to allow through the Net IPAddresss

New-NetNat -Name MyNATnetwork -InternalIPInterfaceAddressPrefix 192.168.0.0/24

Configuring DHCP

Use the following command to install the dhcp feature:

Install-WindowsFeature -Name 'DHCP' -IncludeManagementTools

To create a new DHCP Scope:

Add-DhcpServerv4Scope -Name GuestIPRange -StartRange 192.168.0.10 -EndRange 192.168.0.20 -SubnetMask 255.255.255.0 -State Active

To adjust the DHCP Scope Options:

Set-DhcpServerv4OptionValue -ScopeId GuestIPRange -Router 192.168.1.1

🗄 Important

If the DHCP MMC snap-in shows an exclamation mark & doesn't show the scope, you might need to add a hosts entry in c:\windows\system32\drivers\etc\hosts Example entry:

192.168.0.1 {name of the server}

Creating a new Virtual Machine NetFoundry Gateway

Download our Hyper-V image from the download site: Downloads

Unzip the file to access the VHD file.

Open the Hyper-V Manager

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Click on "New" \rightarrow "Virtual Machine..."

🖳 New Virtual Machine Wizar	d	×	
🔤 Before You Begin			Actions
			EC2AMAZ-I1IPKRC
			New Rain New Virtual Machine
Before You Begin This wizard helps you create a virtual machine. You can use virtual machines in place of physical computers for a variety of uses. You can use this wizard to configure the virtual machine now, and you can change the configuration later using Hyper-V Manager. Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary			 Hyper-V Settings Virtual Switch Manager Virtual SAN Manager Edit Disk Inspect Disk Stop Service Refresh View Help
	Do not show this page again		Application Connect Settings Turn Off Shut Down
	< Previous Next > Finish Cancel		Save

Name the Virtual Machine

🖳 New Virtual Machine Wiza	ırd	×		
💷 Specify Nam	e and Location			
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk	Choose a name and location for this virtual machine. The name is displayed in Hyper-V Manager. We recommend that you use a name that helps you easily identify this virtual machine, such as the name of the guest operating system or workload. Name: NetFoundry Gateway You can create a folder or use an existing folder to store the virtual machine. If you don't select a folder, the virtual machine is stored in the default folder configured for this server.			
Installation Options	Store the virtual machine in a different location			
Summary	Location: C:\ProgramData\Microsoft\Windows\Hyper-V\ If you plan to take checkpoints of this virtual machine, select a location that has space. Checkpoints include virtual machine data and may require a large amount	Browse enough free of space.		
	< Previous Next > Finish	Cancel		

Select "Generation 1"



Assign memory to the Virtual Machine

🖳 New Virtual Machine Wizard



Assign the Virtual Machine to a VMSwitch



💴 Configure Ne	etworking
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	Each new virtual machine includes a network adapter. You can configure the network adapter to use a virtual switch, or it can remain disconnected.
	< Previous Next > Finish Cancel

Point the downloaded VHD

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٠	New Virtual	Machine	Wizard	

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Connect Virtual Hard Disk

Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Summary	A virtual machine requires storage so that you ca storage now or configure it later by modifying the Create a virtual hard disk Use this option to create a VHDX dynamically Name: NetFoundry Gateway.vhdx Location: C:\Users\Public\Documents\Hyp Size: 127 GB (Maximum: 64 TB Use an existing virtual hard disk Use this option to attach an existing virtual hyp Location: C:\Users\Public\Documents\Hyp	n install an operating syste virtual machine's properti expanding virtual hard disk ber-V\Virtual Hard Disks\) ard disk, either VHD or VHE ber-V\Virtual Hard Disks\	em. You can specify the es. Browse X format.	
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File na	me: nf-vtc-4.16.0-56097020-hyper-v-disk001	✓ Virtual harOpen	d disk files 🗸 🗸	

Finish the Virtual Machine Setup

🖳 New Virtual Machine Wiza	rd	×		
🔤 Completing	the New Virtual Machine Wizard			
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Summary	You have successfully completed the New Virtual Machine Wizard. You are about to create the following virtual machine. Description: Name: NetFoundry Gateway Generation: Generation 1 Memory: 2048 MB Network: New Virtual Switch Hard Disk: C:\Users\Administrator\Downloads\NFN_VCPE_HYPERV\nf-vtc-4.16.0-56097020-hyper			
	To create the virtual machine and close the wizard, click Finish. < Previous Einish Cancel			

You can now start the VM

🕎 Gateway on EC2AMAZ-I1IPKRC - Virtual Machine Connection	-		×
File Action Media Clipboard View Help			
Authorized uses only. All activity may be monitored and reported. Hint: Num Lock on			^
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