Getting Started

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

> ✏️ **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:
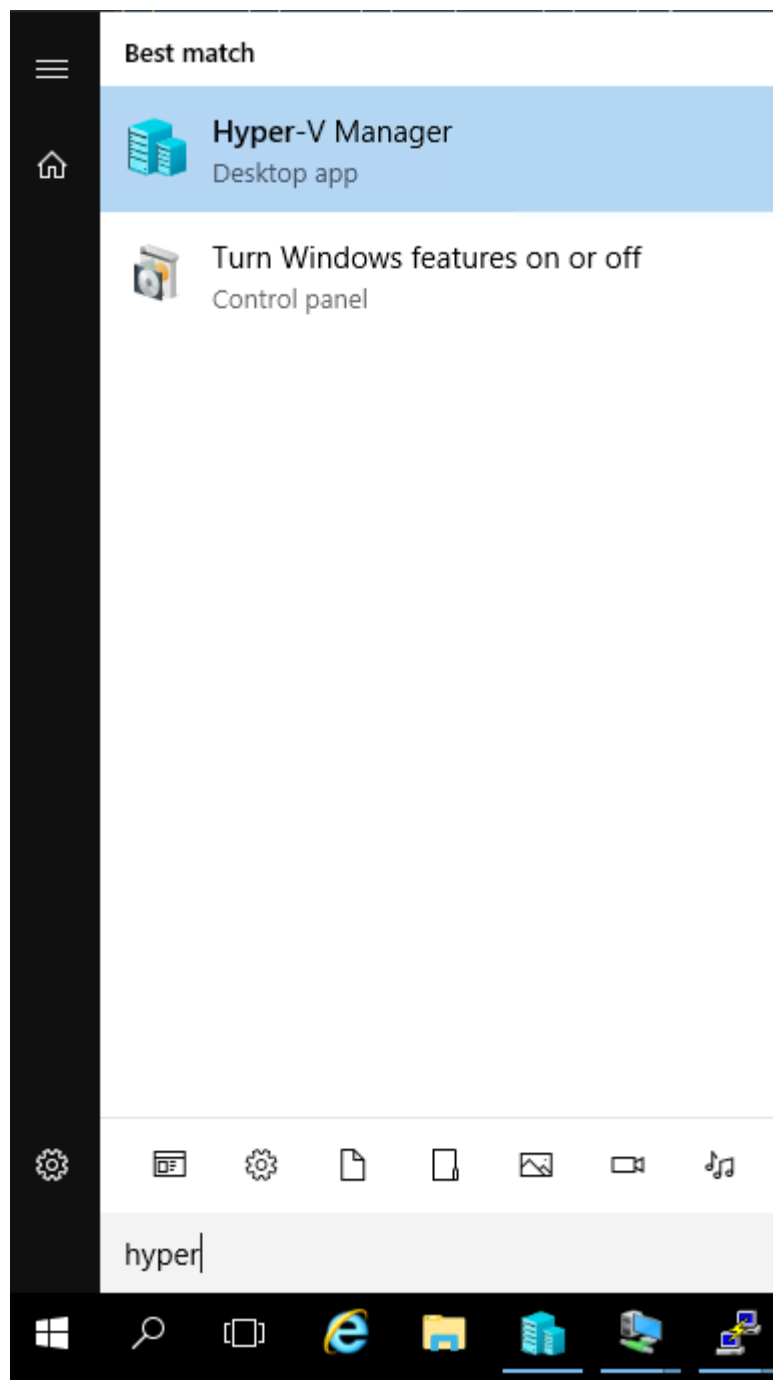>
> 192.168.0.1 {name of the server}
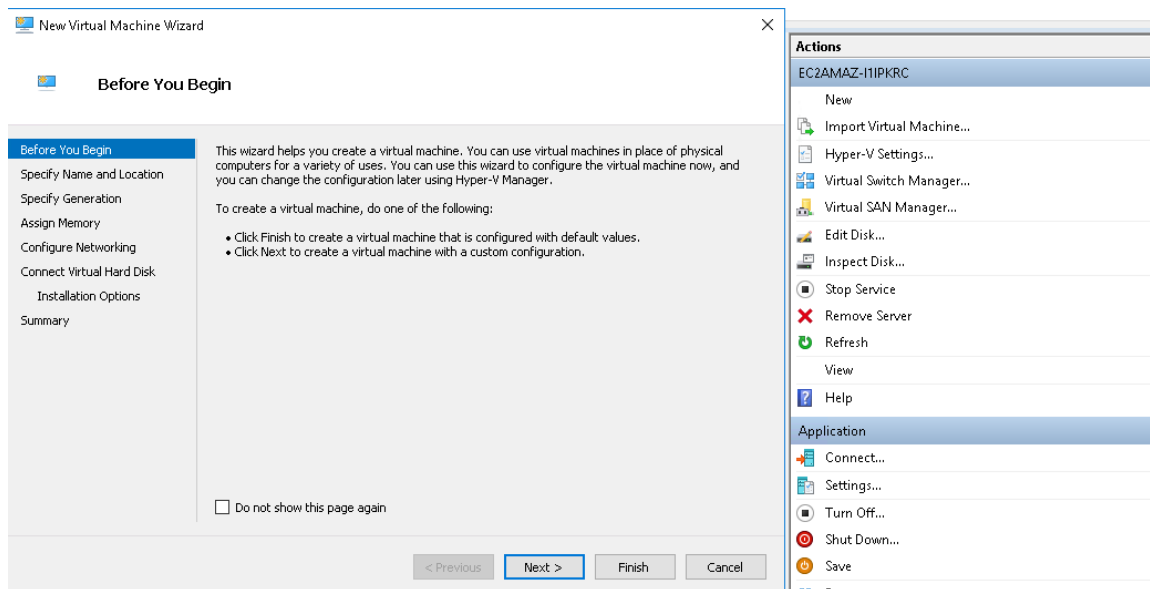
Creating a new Virtual Machine NetFoundry Gateway

Download our Hyper-V image from the download site: Downloads
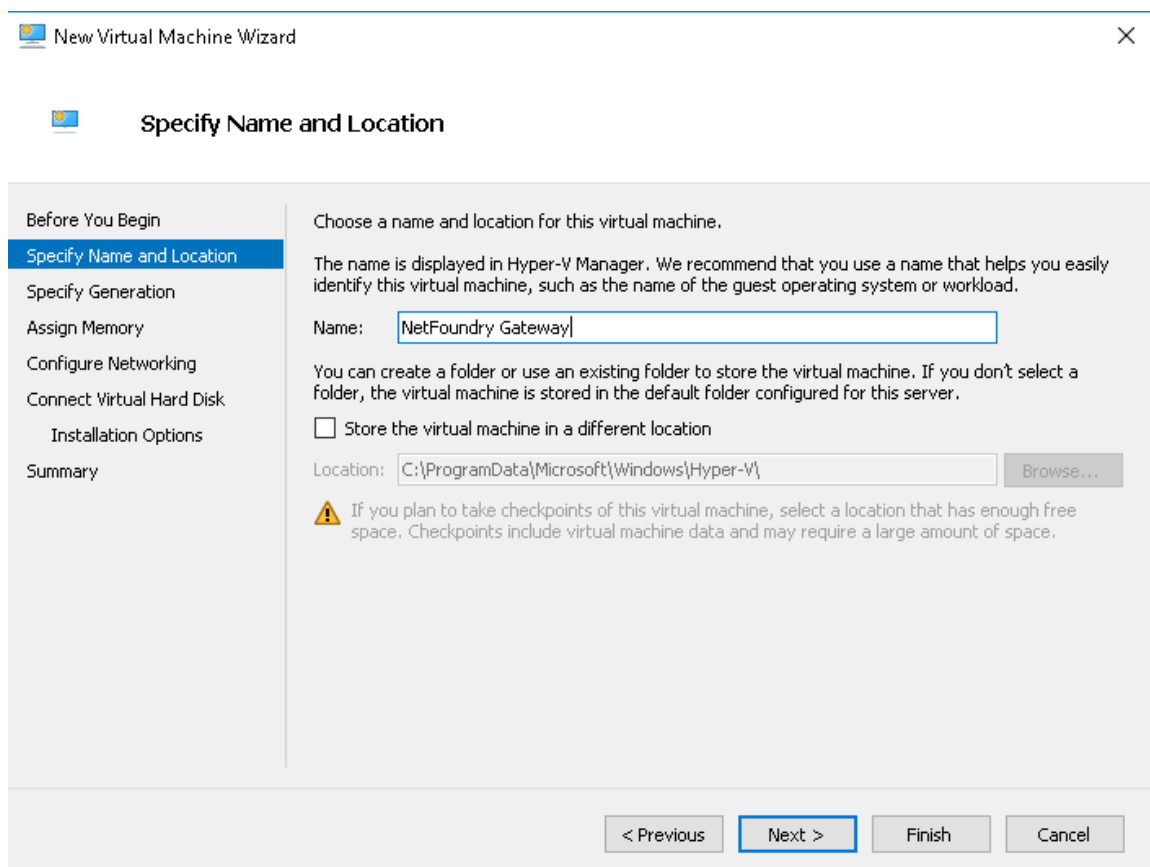
Unzip the file to access the VHD file.

Open the Hyper-V Manager

Click on "New" → "Virtual Machine..."

Name the Virtual Machine

Select "Generation 1"

Assign memory to the Virtual Machine

New Virtual Machine Wizard   ✕

Assign Memory

Before You Begin	Specify the amount of memory to allocate to this virtual machine. You can specify an amount from 32 MB through 12582912 MB. To improve performance, specify more than the minimum amount recommended for the operating system.
Specify Name and Location	
Specify Generation	
Assign Memory	Startup memory: 2048 MB
Configure Networking	☐ Use Dynamic Memory for this virtual machine.
Connect Virtual Hard Disk	ⓘ When you decide how much memory to assign to a virtual machine, consider how you intend to use the virtual machine and the operating system that it will run.
Installation Options	
Summary	

< Previous   Next >   Finish   Cancel

Assign the Virtual Machine to a VMSwitch

Point the downloaded VHD
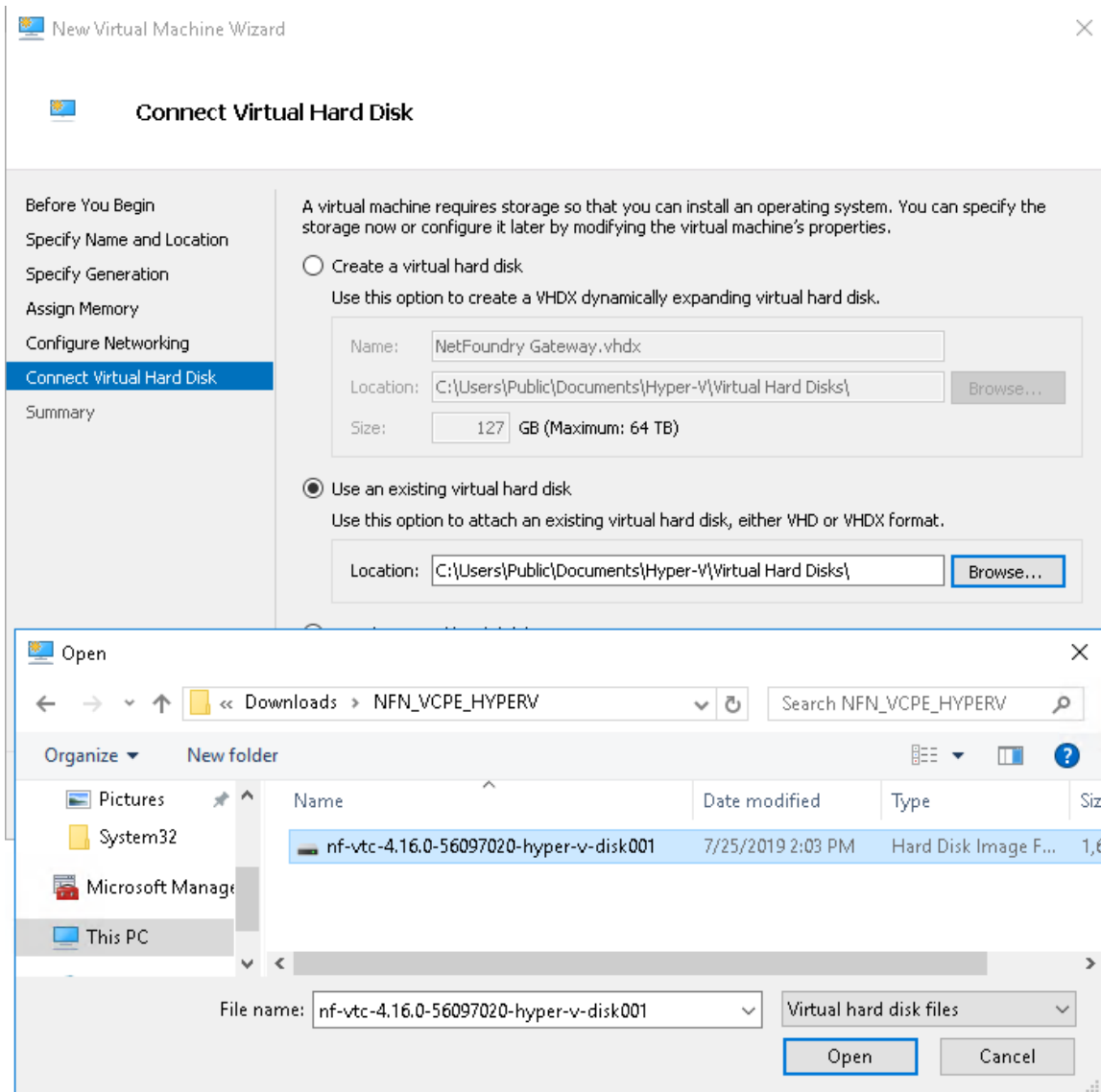
Finish the Virtual Machine Setup

New Virtual Machine Wizard

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   Next >   Finish   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

ip-192-168-0-10 login: _

Status: Running