

# 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 VMSwitch(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 IPAddresses

```
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:

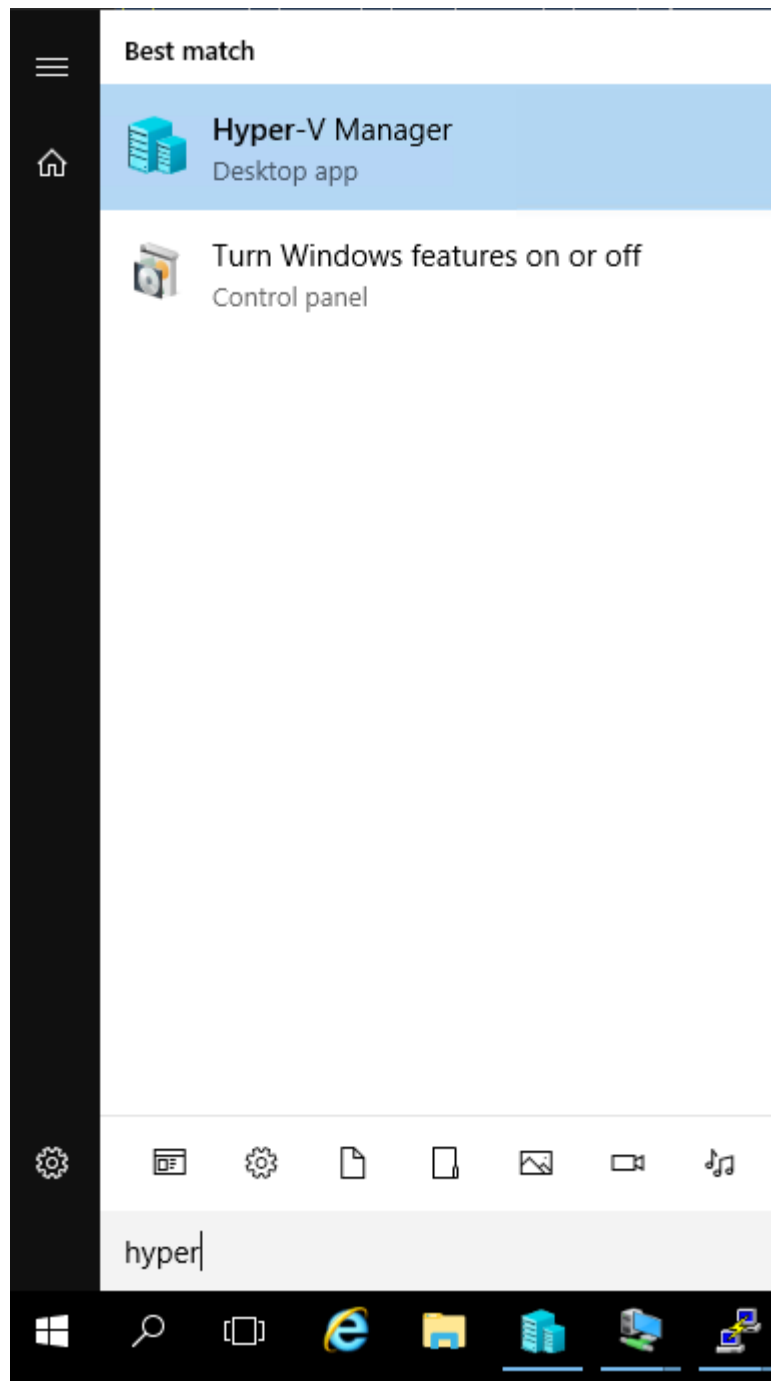
```
192.168.0.1 {name of the server}
```

## Creating a new Virtual Machine NetFoundry Gateway

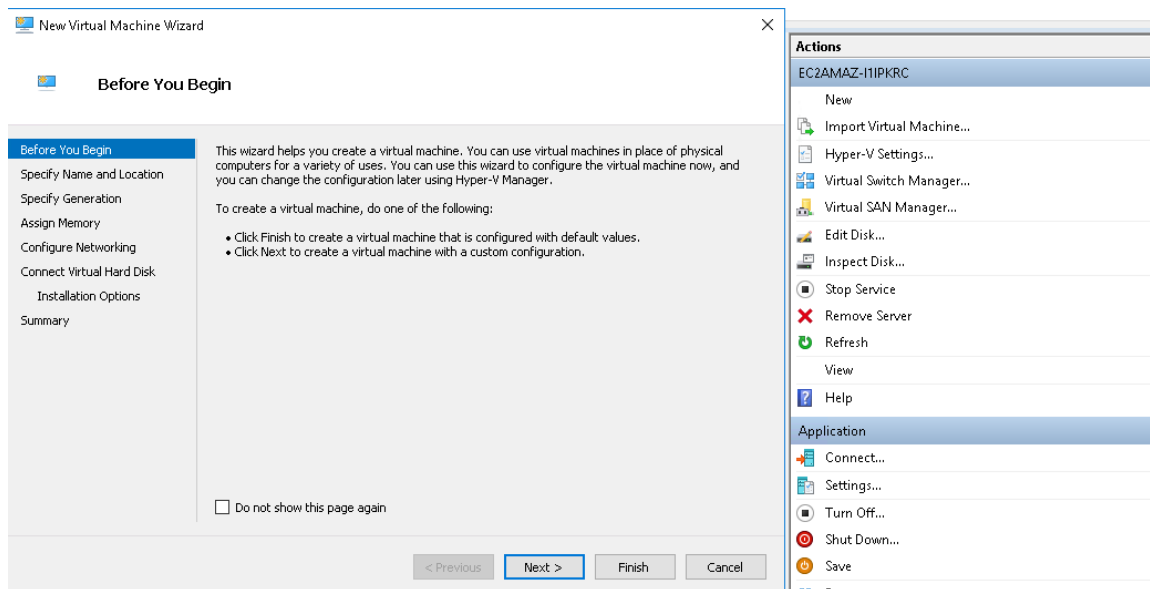
Download our Hyper-V image from the download site: [Downloads](#)

Unzip the file to access the VHD file.

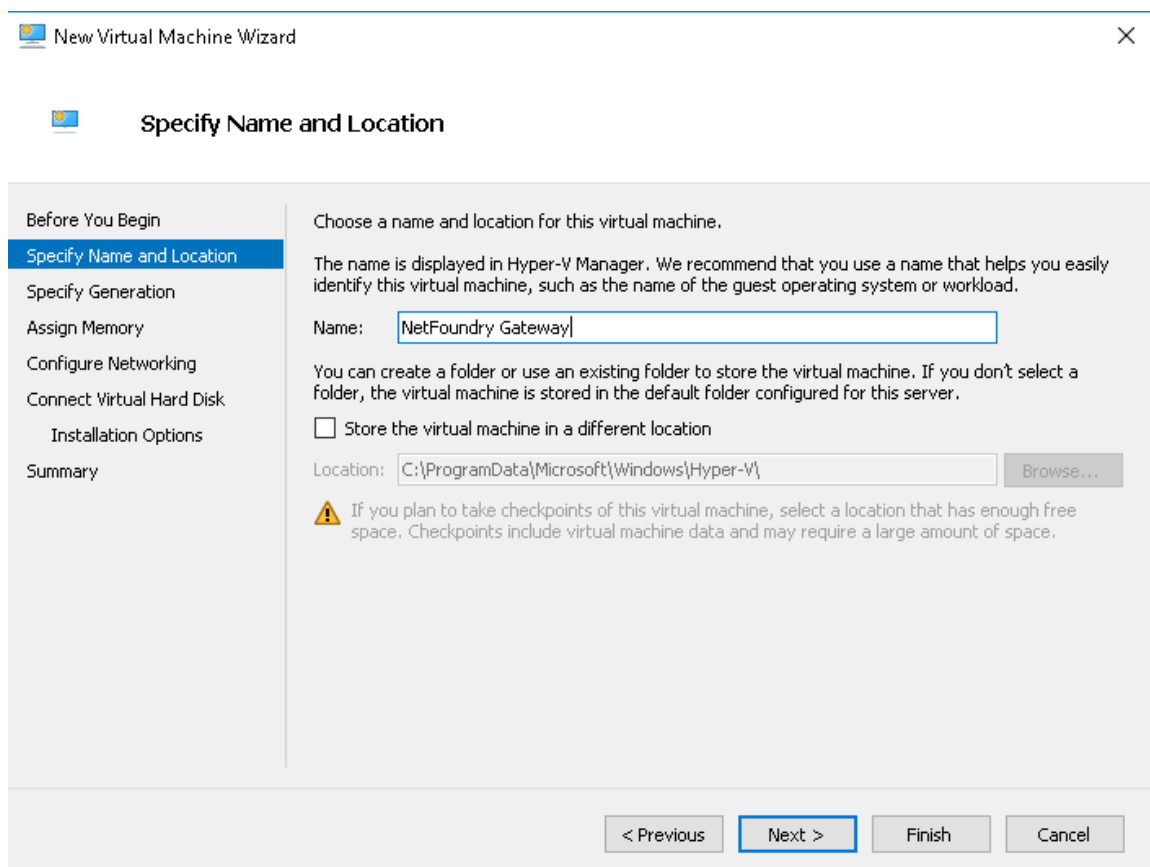
Open the Hyper-V Manager



Click on "New" → "Virtual Machine..."



## Name the Virtual Machine



## Select "Generation 1"

New Virtual Machine Wizard


**Specify Generation**

Before You Begin  
Specify Name and Location  
**Specify Generation**  
Assign Memory  
Configure Networking  
Connect Virtual Hard Disk  
Installation Options  
Summary

Choose the generation of this virtual machine.

☒ Generation 1  
This virtual machine generation supports 32-bit and 64-bit guest operating systems and provides virtual hardware which has been available in all previous versions of Hyper-V.

☐ Generation 2  
This virtual machine generation provides support for newer virtualization features, has UEFI-based firmware, and requires a supported 64-bit guest operating system.

 Once a virtual machine has been created, you cannot change its generation.

[More about virtual machine generation support](#)

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Assign memory to the Virtual Machine

New Virtual Machine Wizard

×

Assign Memory

Before You Begin

Specify Name and Location

Specify Generation

Assign Memory

Configure Networking

Connect Virtual Hard Disk

Installation Options

Summary

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.

Startup memory:  MB

☐ Use Dynamic Memory for this virtual machine.

i

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.

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Finish

Cancel

Assign the Virtual Machine to a VMSwitch

New Virtual Machine Wizard

×

Configure Networking

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.

Connection: 

New Virtual Switch  
Not Connected  
New Virtual Switch

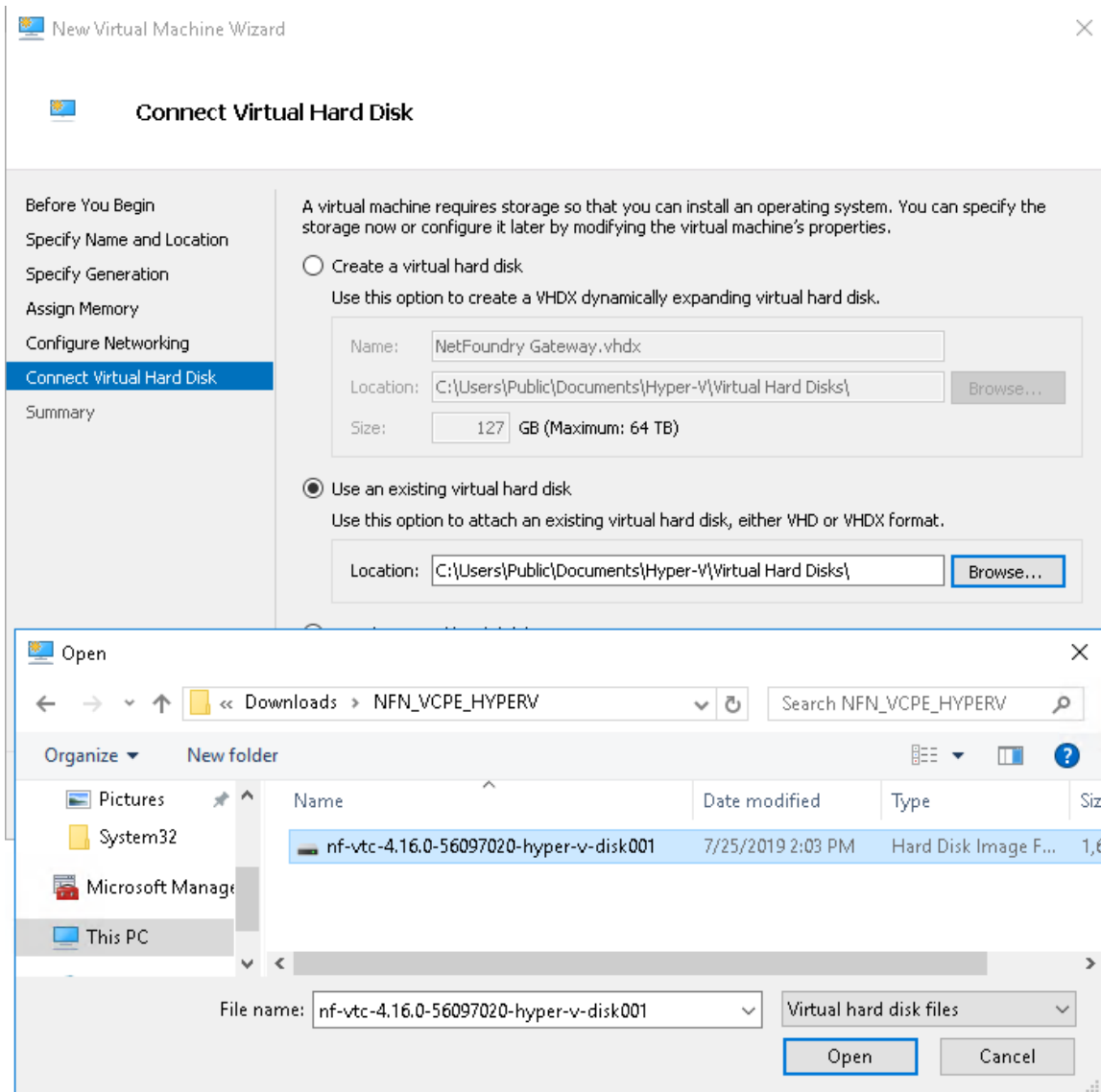
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Finish

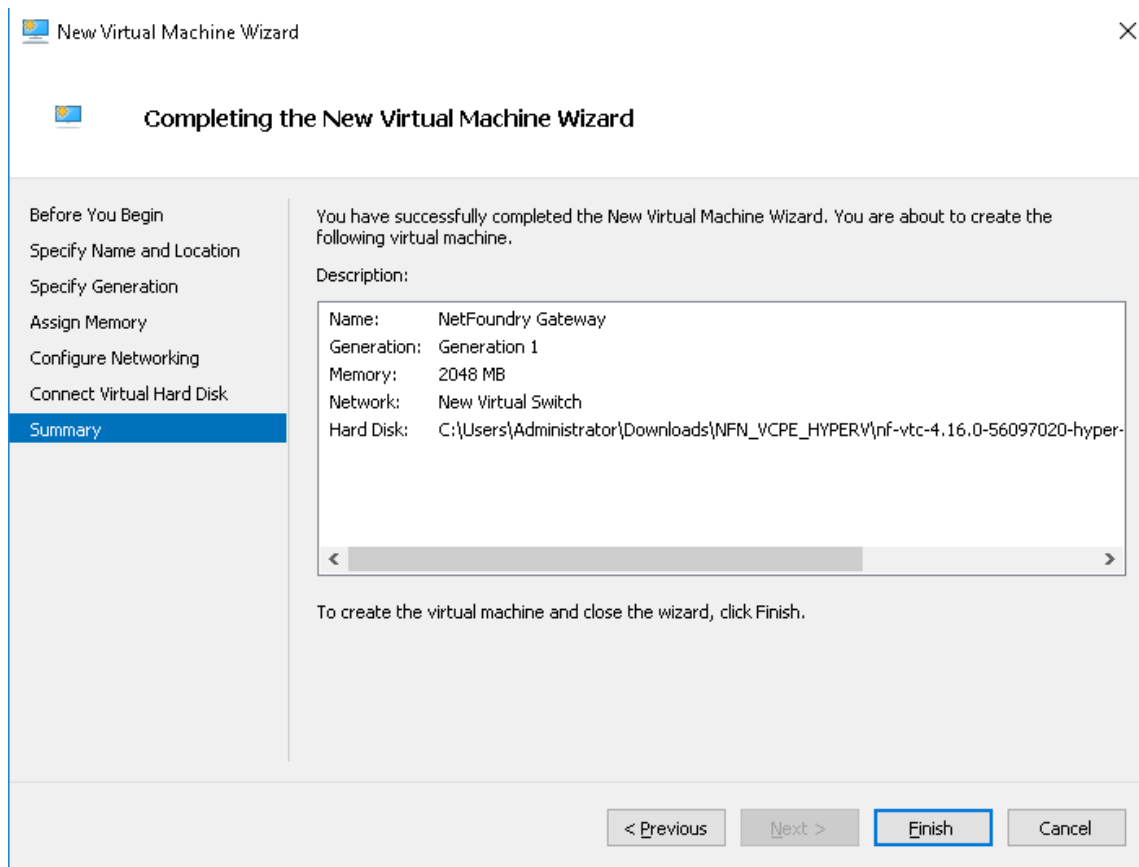
Cancel

Point the downloaded VHD



Finish the Virtual Machine Setup





You can now start the VM

