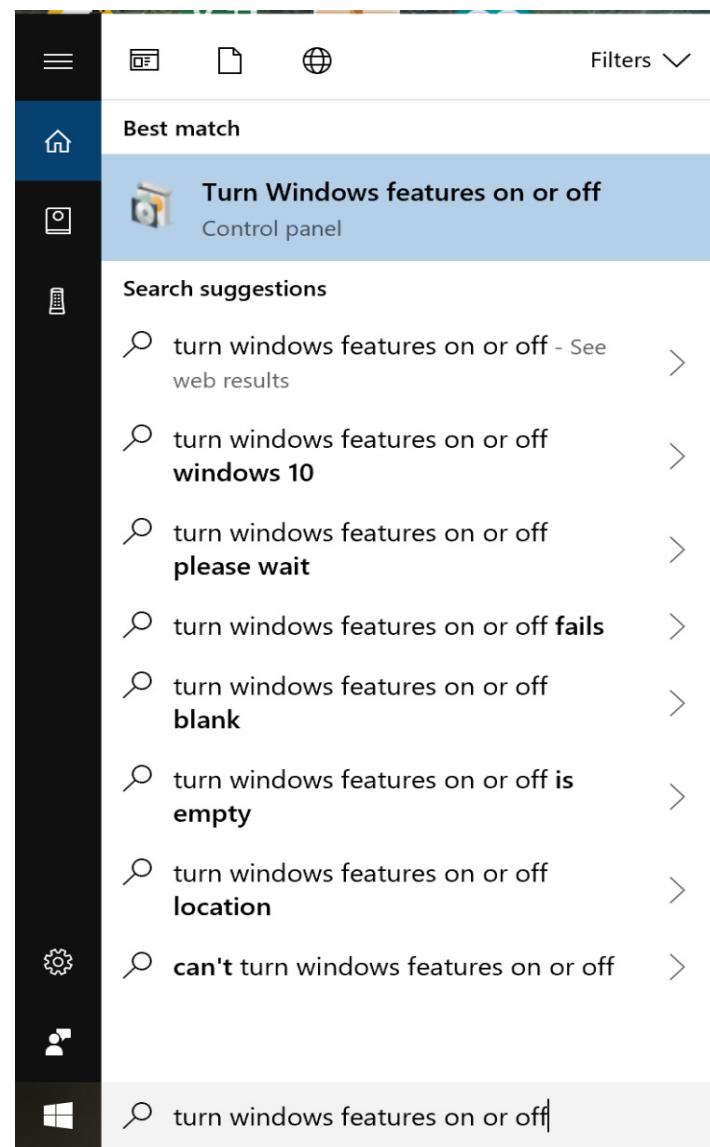
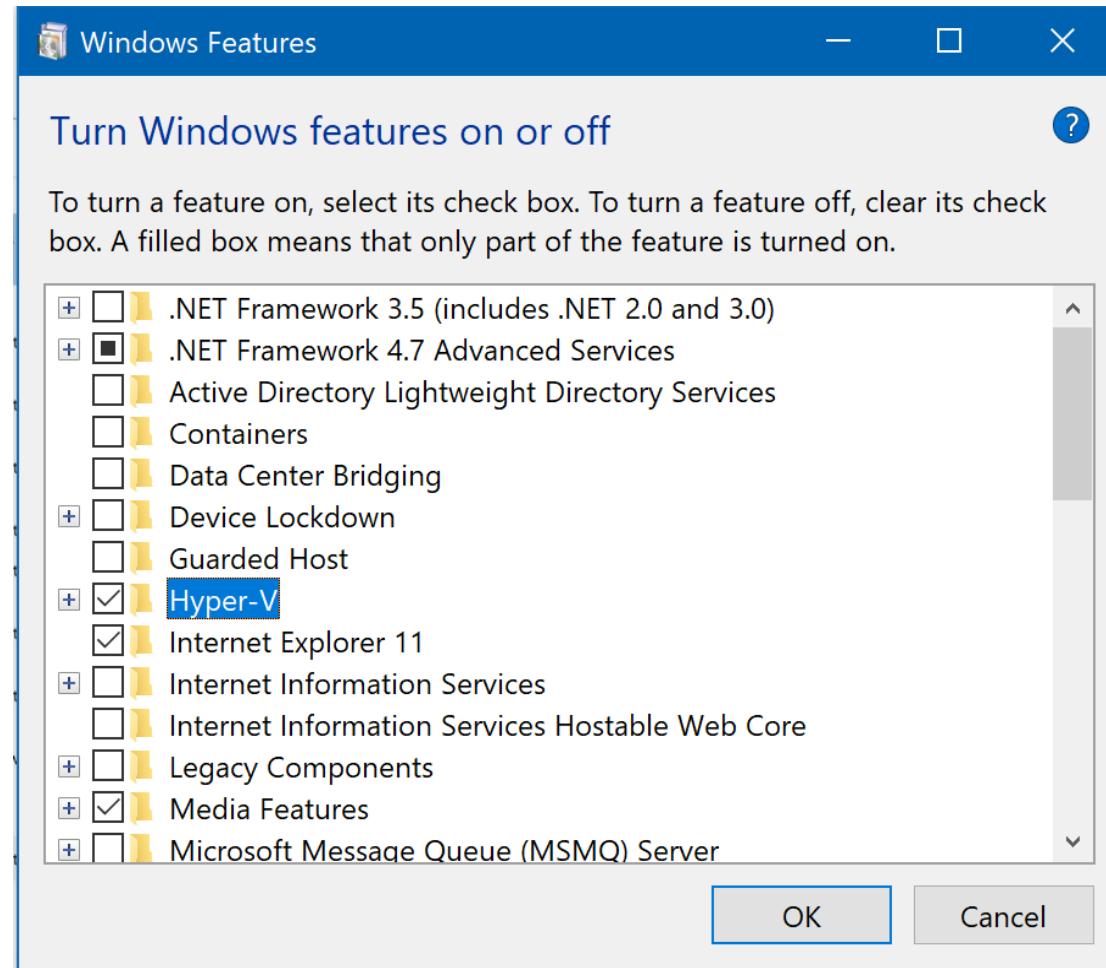
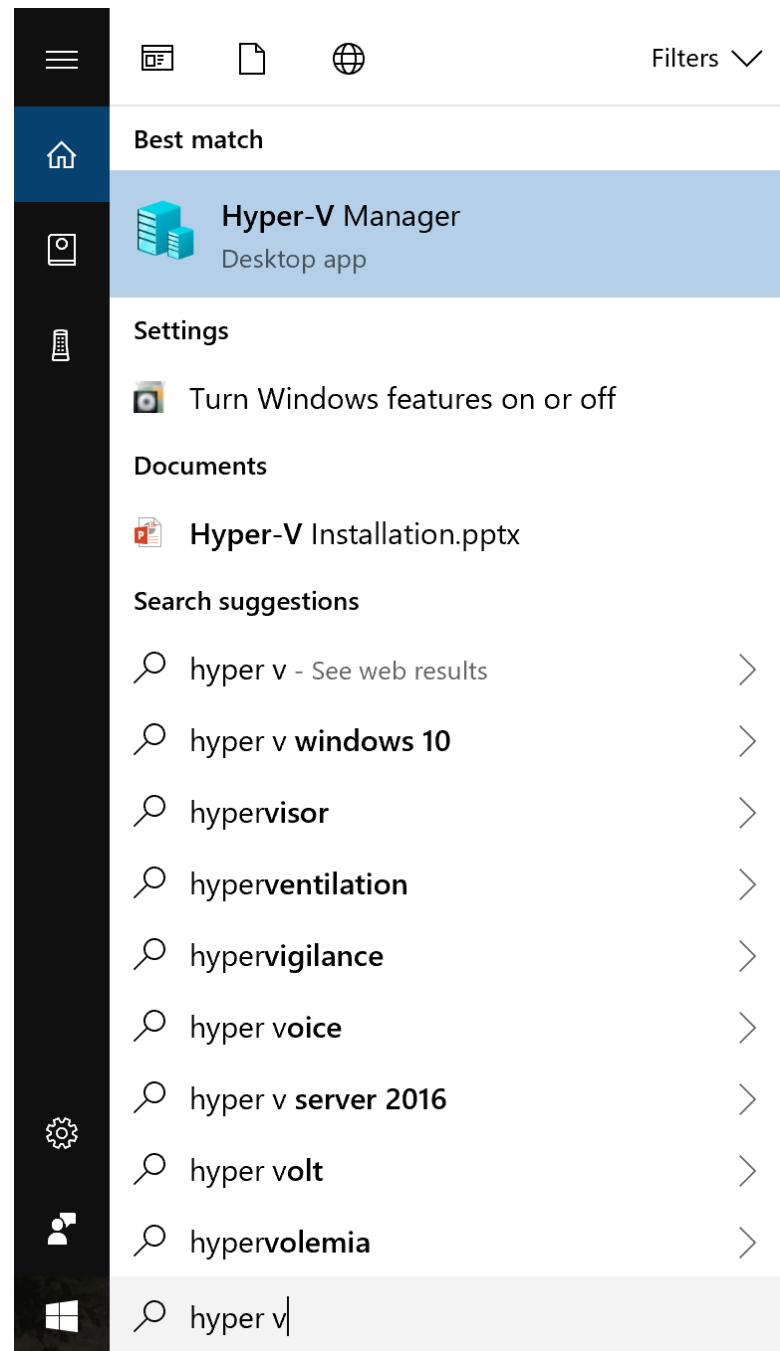


Installing CentOS 7 using Hyper-V







Hyper-V Manager

File Action View Help

Quick Create...
New
Import Virtual Machine...
Hyper-V Settings...
Virtual Switch Manager...
Virtual SAN Manager...
Edit Disk...
Inspect Disk...
Stop Service
Remove Server
Refresh
Help

Machines

State	CPU Usage	Assigned Memory	Uptime	Status	Configuratio...
No virtual machines were found on this server.					

Checkpoints

No virtual machine selected.

Details

No item selected.

Actions

DESKTOP-J2LUU9O

- Quick Create...
- New
- Import Virtual Machine...
- Hyper-V Settings...
- Virtual Switch Manager...**
- Virtual SAN Manager...
- Edit Disk...
- Inspect Disk...
- Stop Service
- Remove Server
- Refresh
- View
- Help

Displays the Virtual Switch Manager user interface.

Hyper-V Manager

File Action View Help



Hyper-V Manager
DESKTOP-J2LUU9O

Virtual Machines

Name

- Virtual Switches
 - New virtual network switch
 - Default Switch
Default Network
- Global Network Settings
 - MAC Address Range
00-15-5D-38-01-00 to 00-15-5D-3...

Checkpoints

Details

Virtual Switch Manager for DESKTOP-J2LUU9O

Create virtual switch

What type of virtual switch do you want to create?

External

Internal

Private

Create Virtual Switch

Creates a virtual switch that binds to the physical network adapter so that virtual machines can access a physical network.

OK

Cancel

Apply

Actions

DESKTOP-J2LUU9O

- Quick Create...
- New
- Import Virtual Machine...
- Hyper-V Settings...
- Virtual Switch Manager...
- Virtual SAN Manager...
- Edit Disk...
- Inspect Disk...
- Stop Service
- Remove Server
- Refresh

View

Help

Visit this link if you need help continuing the installation process for the Virtual Switch on the Virtual Machine (to be able to connect to a network):

<https://docs.microsoft.com/en-us/windows-server/virtualization/hyper-v/get-started/create-a-virtual-switch-for-hyper-v-virtual-machines>

Hyper-V Manager

File Action View Help

Hyper-V Manager DESKTOP-J2LUU9O

Virtual Machines

Name	State	CPU Usage	Assigned Memory	Uptime	Status	Configuratio...
No virtual machines were found on this server.						

Checkpoints

No virtual machine selected.

Details

No item selected.

Actions

DESKTOP-J2LUU9O

- Quick Create...
- New **Virtual Machine...**
- Import Hard Disk...
- Hyper-V Floppy Disk...
- Virtual Switch Manager...
- Virtual SAN Manager...
- Edit Disk...
- Inspect Disk...
- Stop Service
- Remove Server
- Refresh
- View
- Help

Displays the New Virtual Machine Wizard.

Hyper-V Manager
DESKTOP-J2LUU9O

Virtual Machines

Name

State

CPU Usage

Assigned Memory

Uptime

Status

Configuratio...

No virtual machines were found on this server.

New Virtual Machine Wizard

Before You Begin

Before You Begin

Specify Name and Location

Specify Generation

Assign Memory

Configure Networking

Connect Virtual Hard Disk

Installation Options

Summary

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.

To create a virtual machine, do one of the following:

- Click Finish to create a virtual machine that is configured with default values.
- Click Next to create a virtual machine with a custom configuration.

 Do not show this page again

< Previous

Next >

Finish

Cancel

Actions

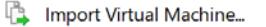
DESKTOP-J2LUU9O



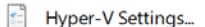
Quick Create...



New



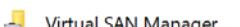
Import Virtual Machine...



Hyper-V Settings...



Virtual Switch Manager...



Virtual SAN Manager...



Edit Disk...



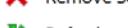
Inspect Disk...



Stop Service

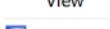


Remove Server



Refresh

View



Help

Hyper-V Manager

File Action View Help



Hyper-V Manager
DESKTOP-J2LUU9O

Virtual Machines

Name

State

CPU Usage

Assigned Memory

Uptime

Status

Configuratio...

No virtual machines were found on this server.

New Virtual Machine Wizard

Specify Name and Location

Before You Begin

Specify Name and Location

Specify Generation

Assign Memory

Configure Networking

Connect Virtual Hard Disk

Installation Options

Summary

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:

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.

Store the virtual machine in a different location

Location:

If you plan to take checkpoints of this virtual machine, select a location that has enough free space. Checkpoints include virtual machine data and may require a large amount of space.

< Previous

Next >

Finish

Cancel

Actions

DESKTOP-J2LUU9O

Quick Create...

New

Import Virtual Machine...

Hyper-V Settings...

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Edit Disk...

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Stop Service

Remove Server

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Hyper-V Manager
DESKTOP-J2LUU9O

Virtual Machines

Name

State

CPU Usage

Assigned Memory

Uptime

Status

Configuratio...

No virtual machines were found on this server.

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

Checkpoints

Details

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.

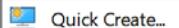
⚠ Once a virtual machine has been created, you cannot change its generation.

[More about virtual machine generation support](#)

< Previous Next > Finish Cancel

Actions

DESKTOP-J2LUU9O



New



Hyper-V Settings...



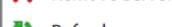
Virtual SAN Manager...



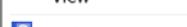
Edit Disk...



Inspect Disk...



Stop Service



Remove Server



Refresh



View



Help

Hyper-V Manager

File Action View Help



Hyper-V Manager
DESKTOP-J2LUU9O

Virtual Machines

Name

State

CPU Usage

Assigned Memory

Uptime

Status

Configuratio...

No virtual machines were found on this server.

New Virtual Machine Wizard

Assign Memory

Before You Begin
Specify Name and Location
Specify Generation
Assign Memory
Checkpoints
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.

< Previous Next > Finish Cancel

Actions

DESKTOP-J2LUU9O



New



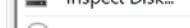
Hyper-V Settings...



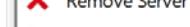
Virtual SAN Manager...



Edit Disk...



Inspect Disk...



Stop Service



Remove Server



Refresh



View



Help

Hyper-V Manager
DESKTOP-J2LUU9O

Virtual Machines

Name

State

CPU Usage

Assigned Memory

Uptime

Status

Configuratio...

No virtual machines were found on this server.

New Virtual Machine Wizard

Configure Networking

Before You Begin

Specify Name and Location

Specify Generation

Assign Memory

Configure Networking

Checkpoints

Details

Connection: My Virtual Switch

Not Connected

Default Switch

My Virtual Switch

< Previous Next > Finish Cancel

Actions

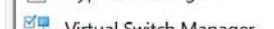
DESKTOP-J2LUU9O



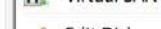
New



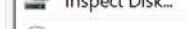
Hyper-V Settings...



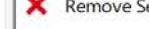
Virtual SAN Manager...



Inspect Disk...



Remove Server



View



Help

Hyper-V Manager

File Action View Help



Hyper-V Manager
DESKTOP-J2LUU9O

Virtual Machines

Name

State

CPU Usage

Assigned Memory

Uptime

Status

Configuratio...

No virtual machines were found on this server.

New Virtual Machine Wizard

Connect Virtual Hard Disk

Before You Begin

Specify Name and Location

Specify Generation

Assign Memory

Configure Networking

Connect Virtual Hard Disk

Installation Options

Summary

A virtual machine requires storage so that you can install an operating system. You can specify the storage now or configure it later by modifying the virtual machine's properties.

Create a virtual hard disk

Use this option to create a VHDX dynamically expanding virtual hard disk.

Name: CentOS 7.vhdx

Location: C:\Users\Public\Documents\Hyper-V\Virtual Hard Disks\

[Browse...](#)

Size: 32 GB (Maximum: 64 TB)

Use an existing virtual hard disk

Use this option to attach an existing virtual hard disk, either VHD or VHDX format.

Location: C:\Users\Public\Documents\Hyper-V\Virtual Hard Disks\

[Browse...](#)

Attach a virtual hard disk later

Use this option to skip this step now and attach an existing virtual hard disk later.

< Previous

Next >

Finish

Cancel

Actions

DESKTOP-J2LUU9O

[Quick Create...](#)

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[Import Virtual Machine...](#)

[Hyper-V Settings...](#)

[Virtual Switch Manager...](#)

[Virtual SAN Manager...](#)

[Edit Disk...](#)

[Inspect Disk...](#)

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[Remove Server](#)

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Hyper-V Manager
DESKTOP-J2LUU9O

Virtual Machines

Name

State

CPU Usage

Assigned Memory

Uptime

Status

Configuratio...

No virtual machines were found on this server.

New Virtual Machine Wizard

Installation Options

Before You Begin

You can install an operating system now if you have access to the setup media, or you can install it later.

Install an operating system later

Install an operating system from a bootable CD/DVD-ROM

Media

Physical CD/DVD drive: [Browse...]

Image file (.iso): e:\Downloads\CentOS-7-x86_64-DVD-1804 (1).iso [Browse...]

Install an operating system from a bootable floppy disk

Media

Virtual floppy disk (.vfd): [Browse...]

Install an operating system from a network-based installation server

! Your network adapter is disconnected. To perform a network-based installation, return to the Configure Networking page and connect the network adapter.

< Previous Next > Finish Cancel

Checkpoints

Installation Options

Summary

Details

Actions

DESKTOP-J2LUU9O



New



Hyper-V Settings...



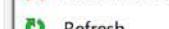
Virtual SAN Manager...



Inspect Disk...



Remove Server



View



Help

Hyper-V Manager
DESKTOP-J2LUU9O

Virtual Machines

Name State CPU Usage Assigned Memory Uptime Status Configuration...

No virtual machines were found on this server.

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

Installation Options

Summary

You have successfully completed the New Virtual Machine Wizard. You are about to create the following virtual machine.

Description:

Name:	CentOS 7
Generation:	Generation 1
Memory:	4000 MB
Network:	Not Connected
Hard Disk:	C:\Users\Public\Documents\Hyper-V\Virtual Hard Disks\CentOS 7.vhdx (VHDX, dyn)
Operating System:	Will be installed from C:\Users\Patrick's Surface\Downloads\CentOS-7-x86_64-DVD1.iso

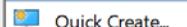
To create the virtual machine and close the wizard, click Finish.

< Previous Next > Finish Cancel

Details

Actions

DESKTOP-J2LUU9O



New



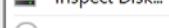
Hyper-V Settings...



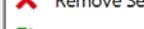
Virtual SAN Manager...



Inspect Disk...



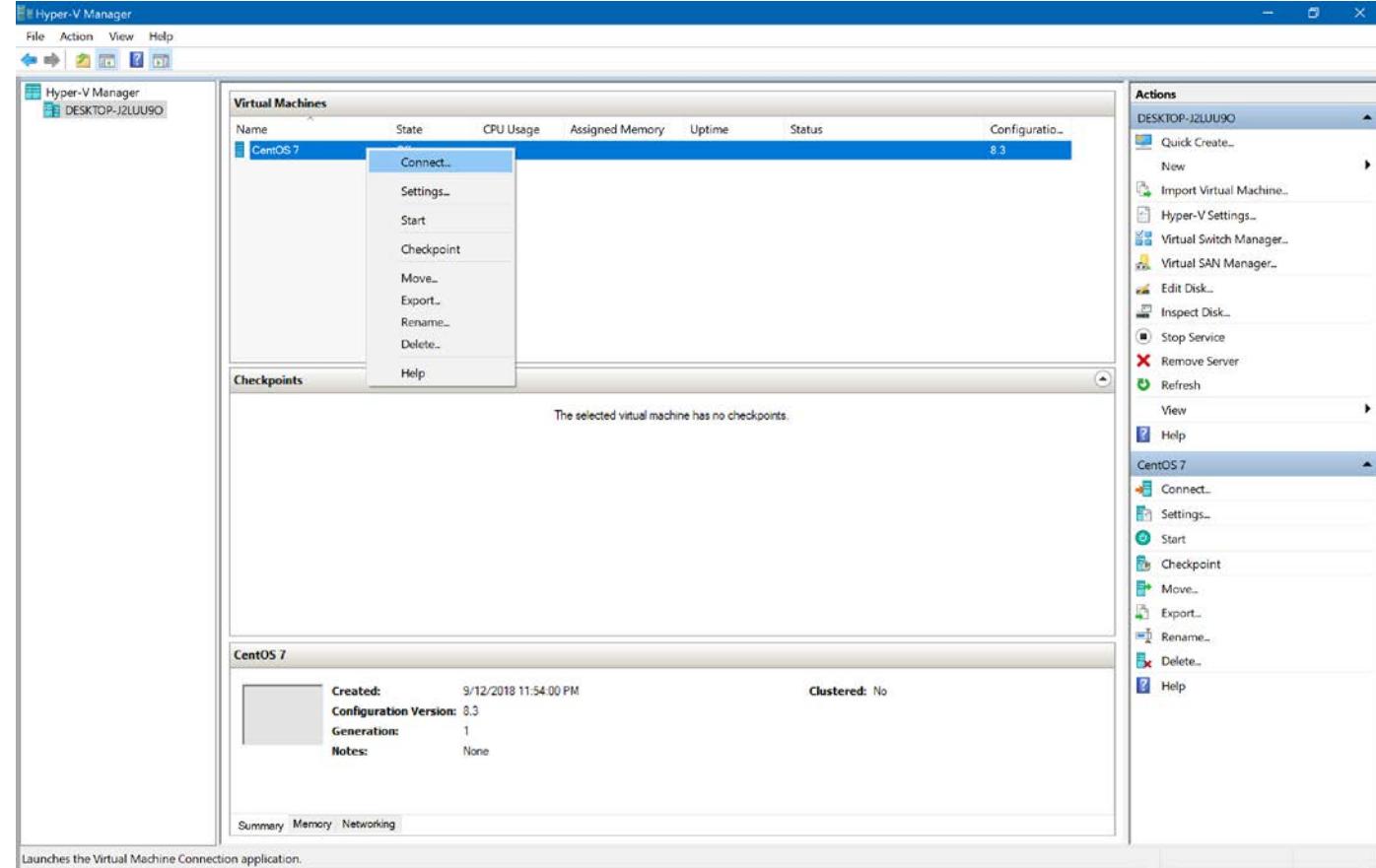
Remove Server



View



Help



Once you click connect, press start in the upper left hand corner. Then don't touch anything...the installer will run on its own

Select English (United States) and press “Continue”

1. Let everything load then click “Installation Destination”
2. Click the Virtual Disc you set up before, then click it again to make sure it’s checked.
3. Go to the bottom and click “Automatic Partitioning”
5. Then hit “Done”

1. Click “Software Selection”
2. Follow the instructions below

Software Selection

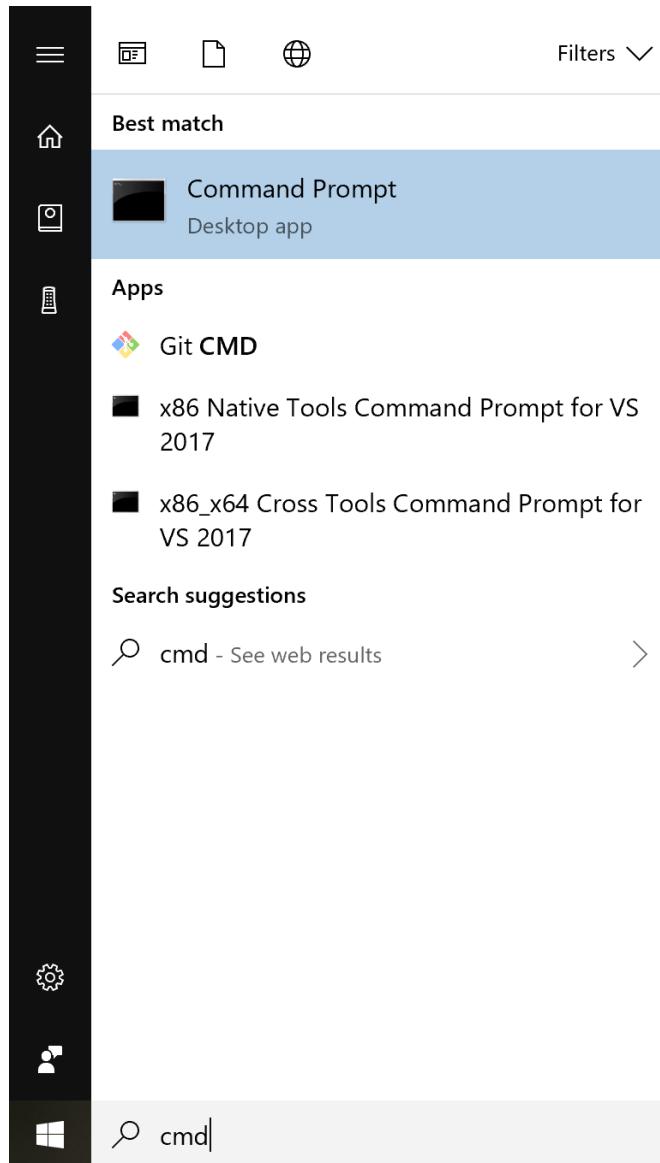
VirtualBox/CentOS Setup 21

Here, I prefer the GNOME desktop and I want to be sure that I install the development tools (compiler, etc).

The screenshot shows the 'SOFTWARE SELECTION' window of the CentOS 7 Installation process. On the left, under 'Base Environment', the 'GNOME Desktop' option is selected. On the right, under 'Add-Ons for Selected Environment', several options are listed with checkboxes:

- GNOME Applications**: A set of commonly used GNOME Applications.
- Office Suite and Productivity**: A full-purpose office suite, and other productivity tools. This option is highlighted with a blue arrow.
- Development Tools**: A basic development environment.
- System Administration Tools**: Utilities useful in system administration.

Make other choices as you like... more packages can be installed later.



1. Type: ipconfig
into the command line and press ENTER
2. Locate the Virtual Switch you created earlier
(it should say something like: Ethernet adapter
vEthernet (*Your Virtual Switch Name*)

1. Go back to the CentOS and click “Network & Host Name”
2. Click “Configure”
3. Click the “IPv4 Settings” tab
4. Change the method to “Manual”
5. Click the “Add” button under the Address section and locate the corresponding Address, Netmask, and Gateway in the command prompt
6. Enter the Netmask and Gateway exactly as they appear. For the Address section, find “IPv4 Address” and change the last number
(i.e. if the command prompt says 10.0.0.200 make the Address in CentOS 10.0.0.201)
7. In the DNS Servers field enter:
8.8.8, 8.8.4.4
*Notice the space after the comma
8. Hit “Save”
9. Turn on the ethernet device in the top right
10. Click “Done”

From here the rest of the setup should be the same as the Virtual Box setup pdf now that the CentOS is installed

Additional Resources

- <https://www.youtube.com/watch?v=XEi89ljSe2M> (Helpful video)
- <https://docs.microsoft.com/en-us/windows-server/virtualization/hyper-v/get-started/create-a-virtual-switch-for-hyper-v-virtual-machines> (Explains creating the virtual switch)