



Cisco Spaces: Connector Hyper-V

- [Creating a Virtual Switch, on page 1](#)
- [Downloading and Deploying Hyper-V, on page 8](#)

Creating a Virtual Switch

This task shows you how to install a Hyper-V manager. The task also shows you how to use the Hyper-V manager to install a virtual switch.

Step 1 Navigate to **Windows > Server Manager**.

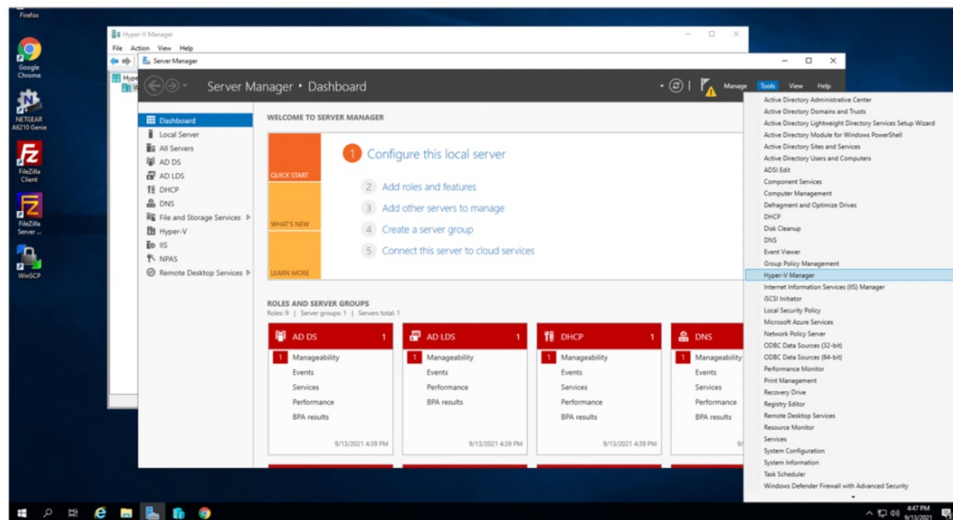


Figure 1:

Step 2 Click **Manage > Add Roles and Features**.

Creating a Virtual Switch

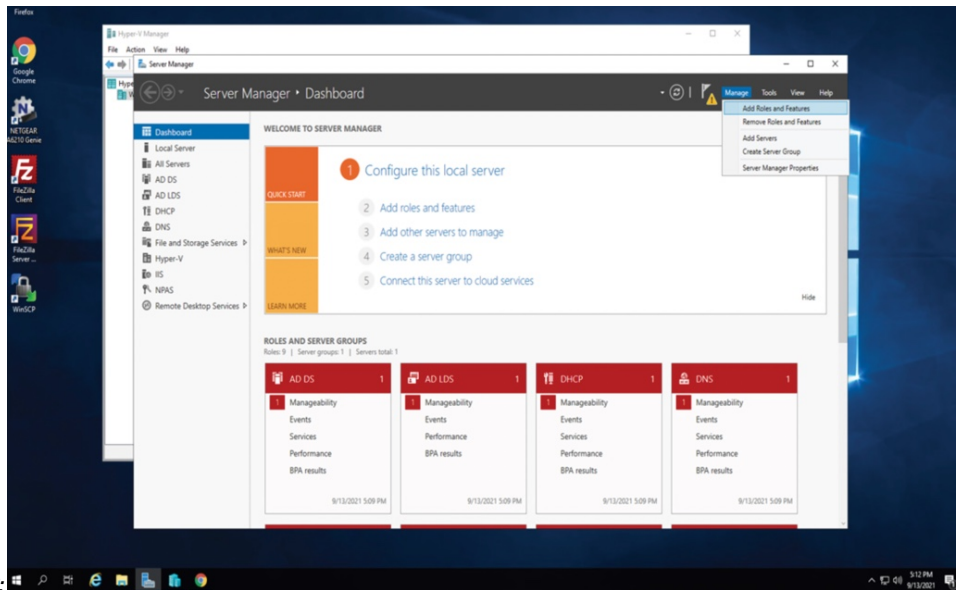


Figure 2:

Step 3 Click on **Role-based or feature-based installation**.

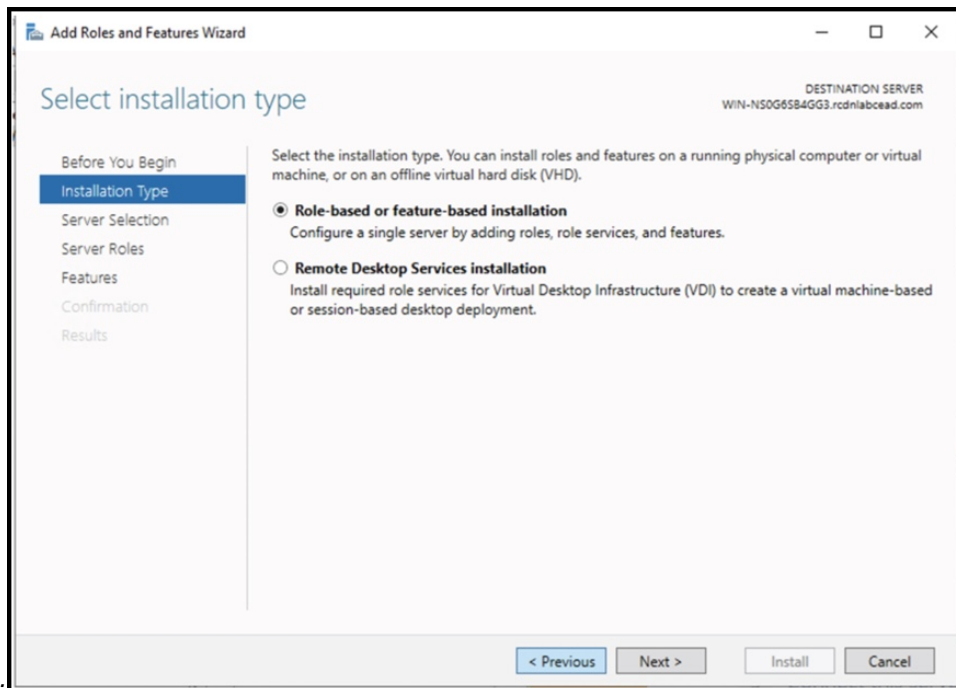


Figure 3:

Step 4 Choose **Select a server from the server pool**.

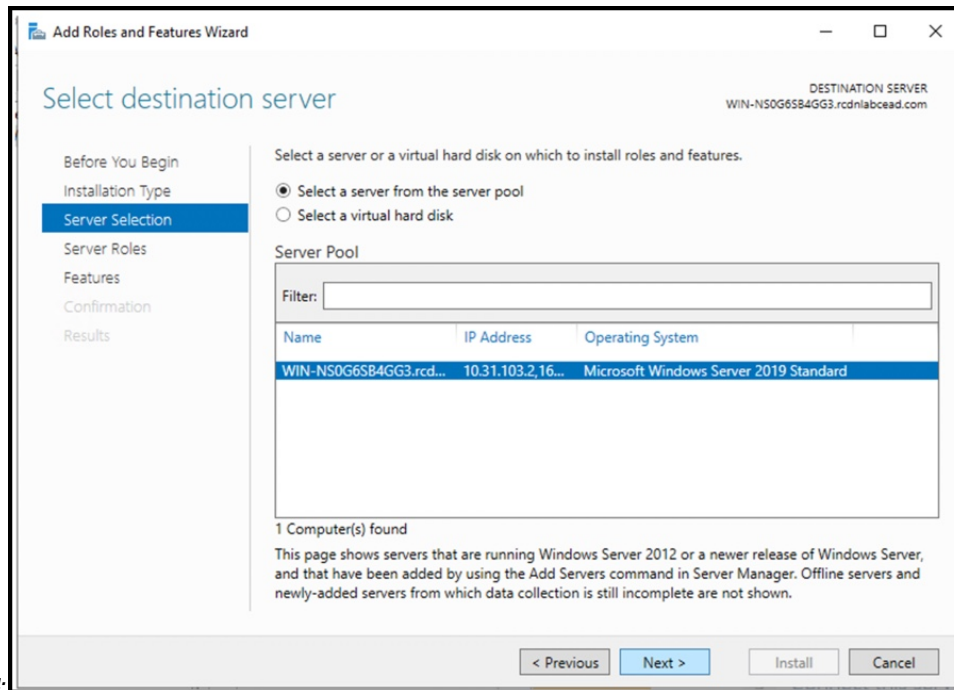


Figure 4:

Step 5 In the **Select server roles** window, select Hyper-V. Click **Next**.

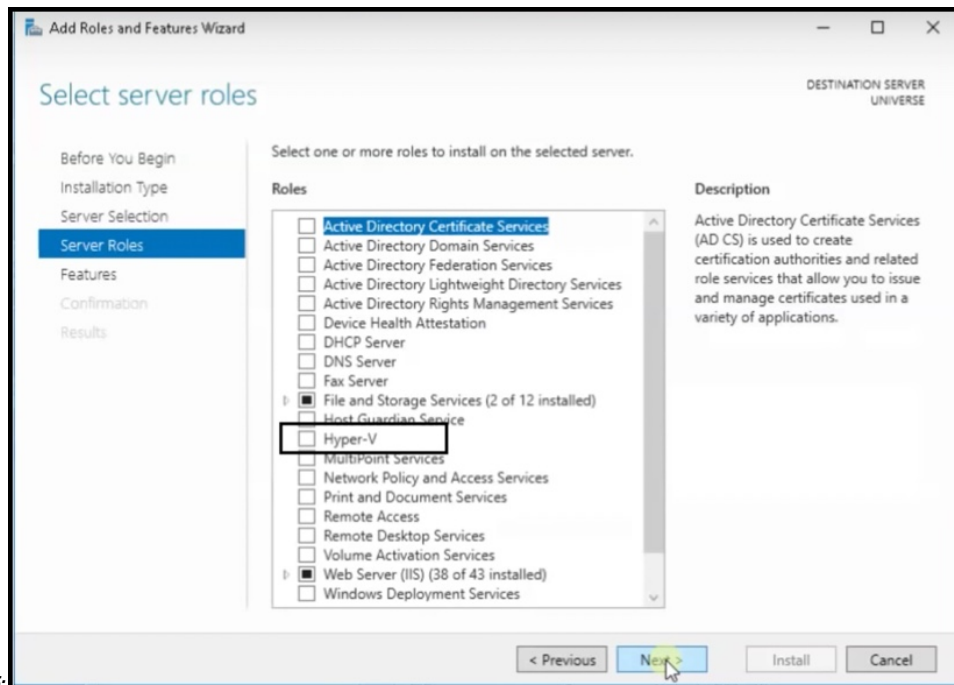


Figure 5:

Step 6 In the **Select features** window, check **.NET Framework**. Click **Next**.

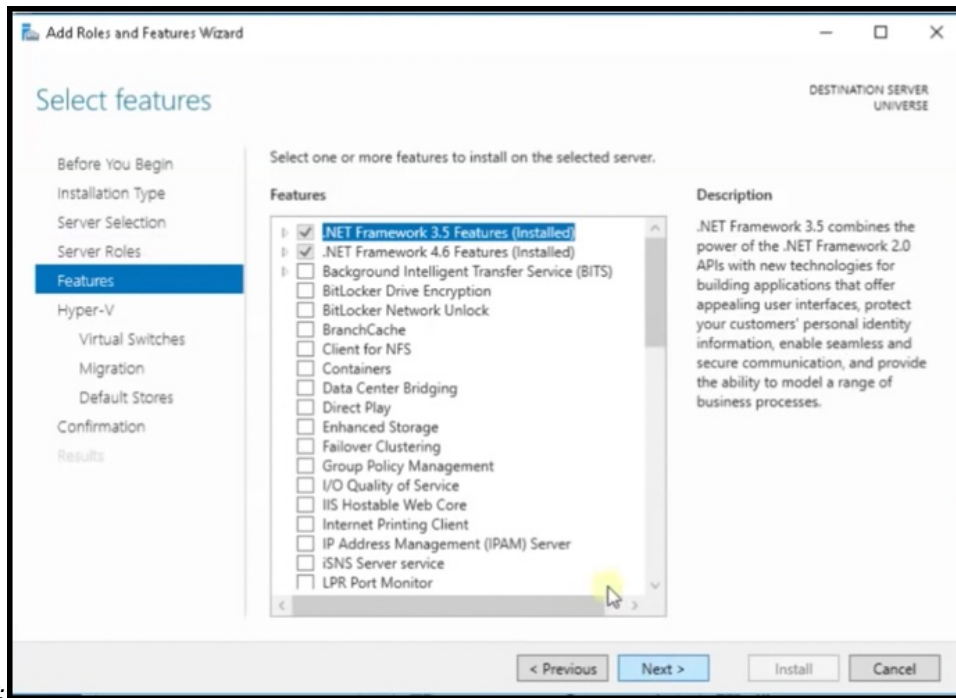


Figure 6:

Step 7

In the **Hyper-V** window, do the following:

- In the **Virtual Switches** window, click **Next**.

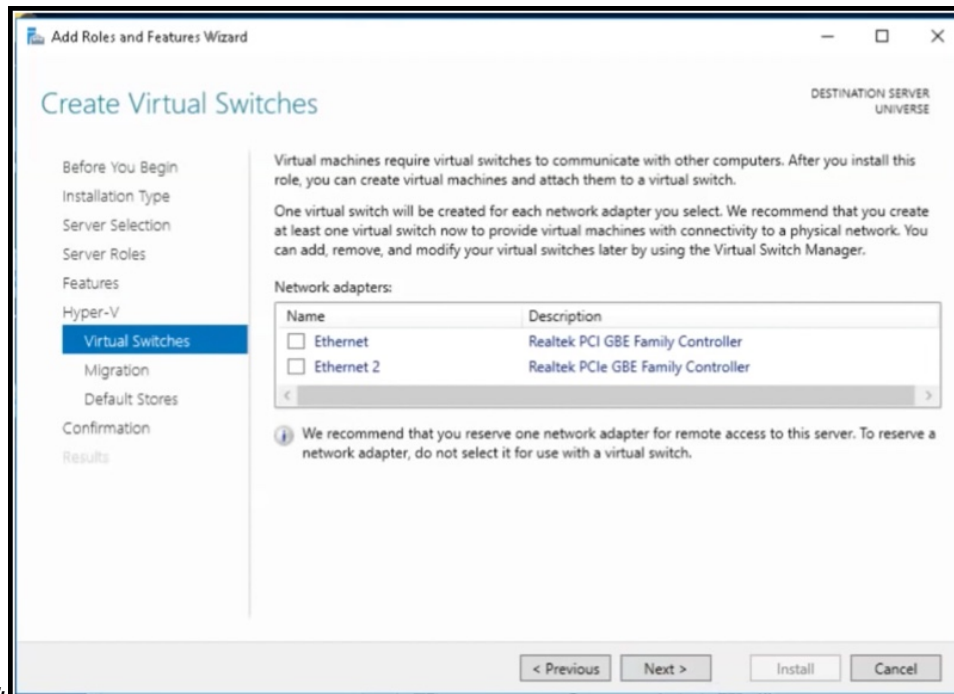


Figure 7:

- In the **Migration** window, click **Use Credential Security Support Provider (CredSSP)**. Click **Next**.

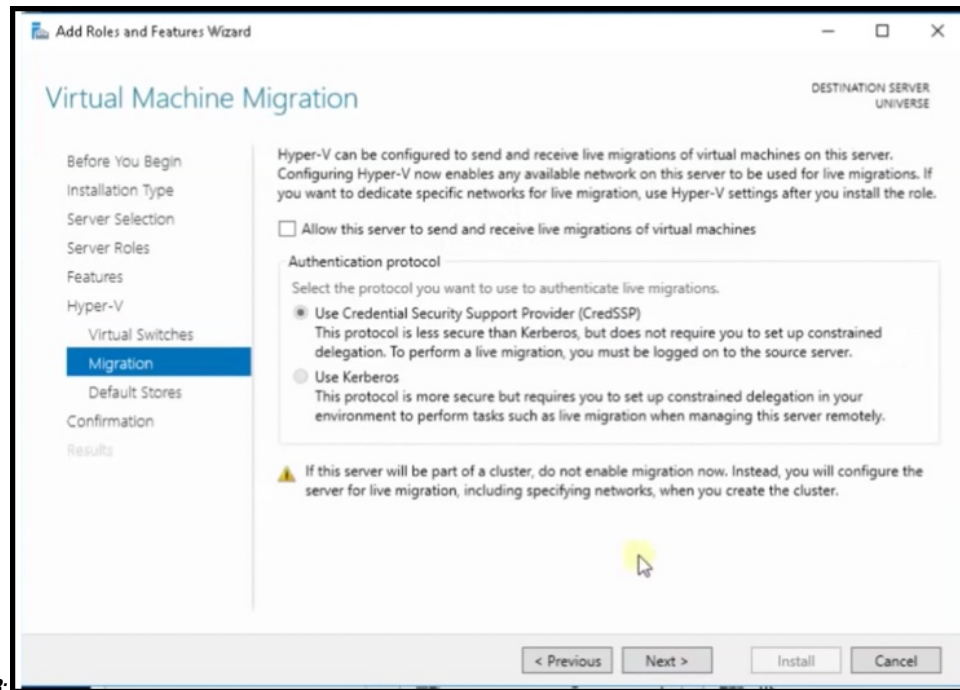


Figure 8:

- c) In **Default Stores**, select the location to install files or leave the default locations. Click **Next**.

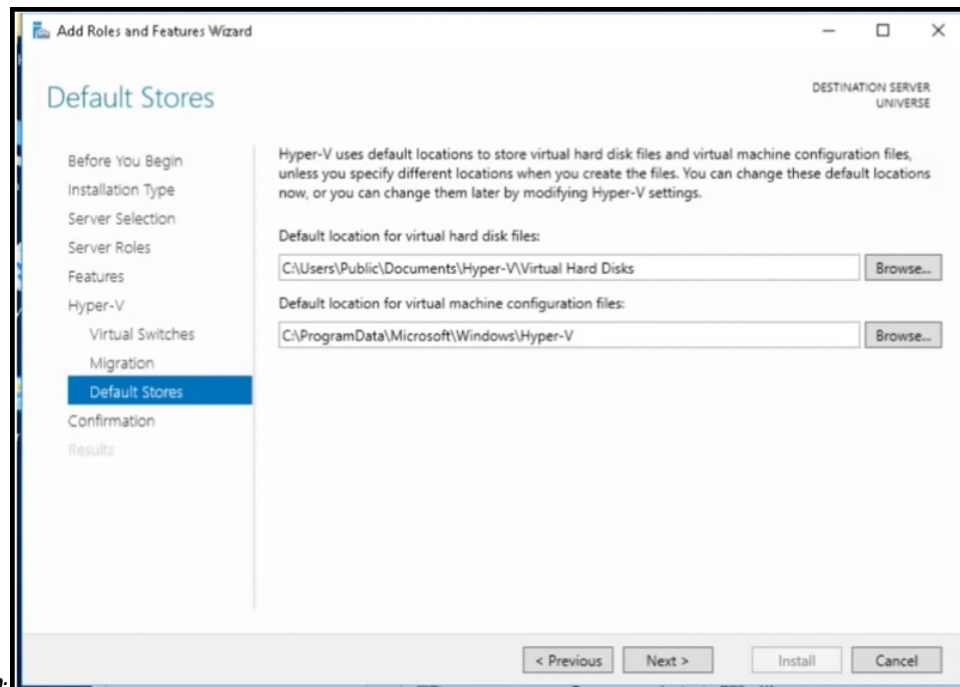


Figure 9:

- Step 8** Confirm the installation settings for Hyper-V and click **Install**.

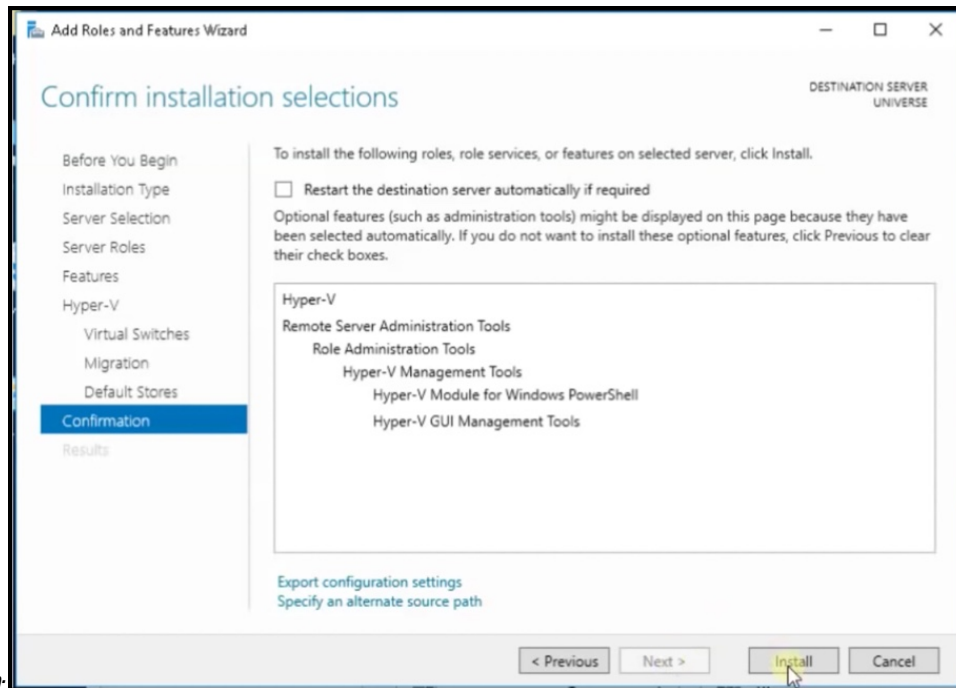


Figure 10:

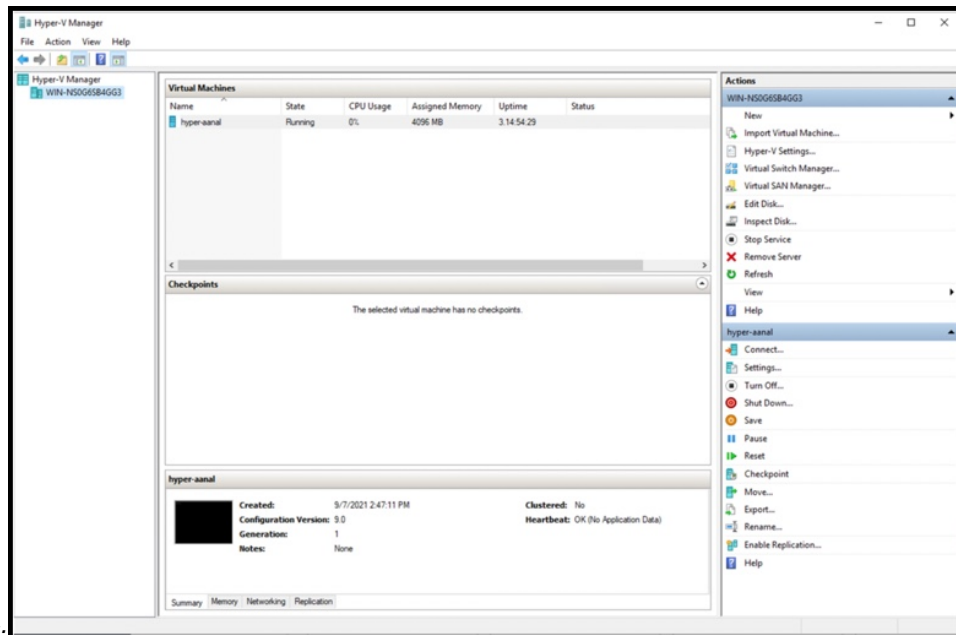
Step 9Open **Hyper-V Manager**.**Step 10**In Hyper-V Manager, go to **Actions > Virtual Switch Manager**.

Figure 11:

Step 11In the **Virtual Switch Manager** window, click **New virtual network switch**. In the **Create virtual switch** window, click **External** and then **Create Virtual Switch**.

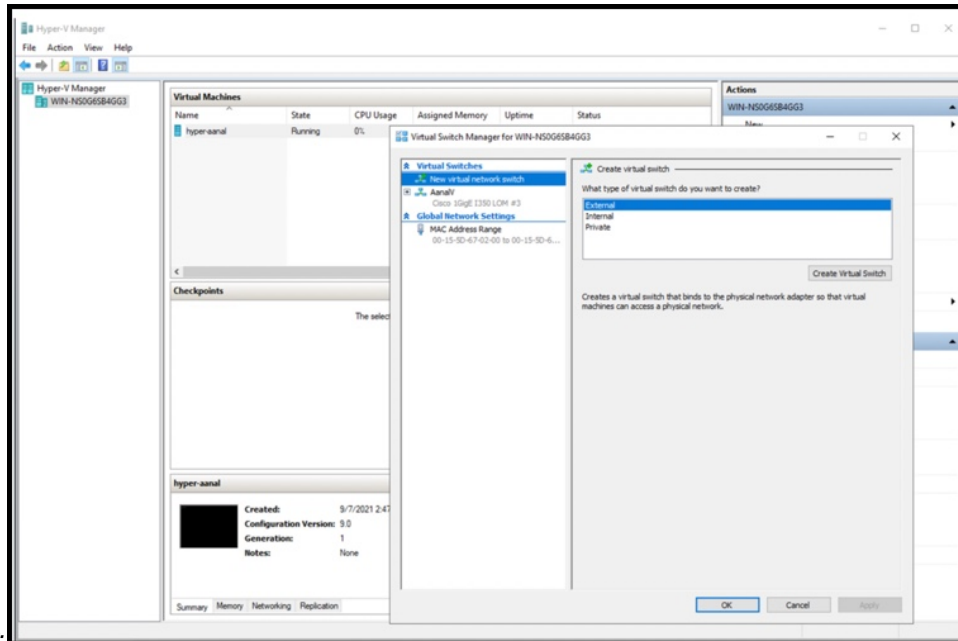


Figure 12:

Step 12

In the **Virtual Switch Properties** window, provide a **Name** for the switch. From the **Connection Type** area, choose **External Network** and choose a network. Click **Apply**.

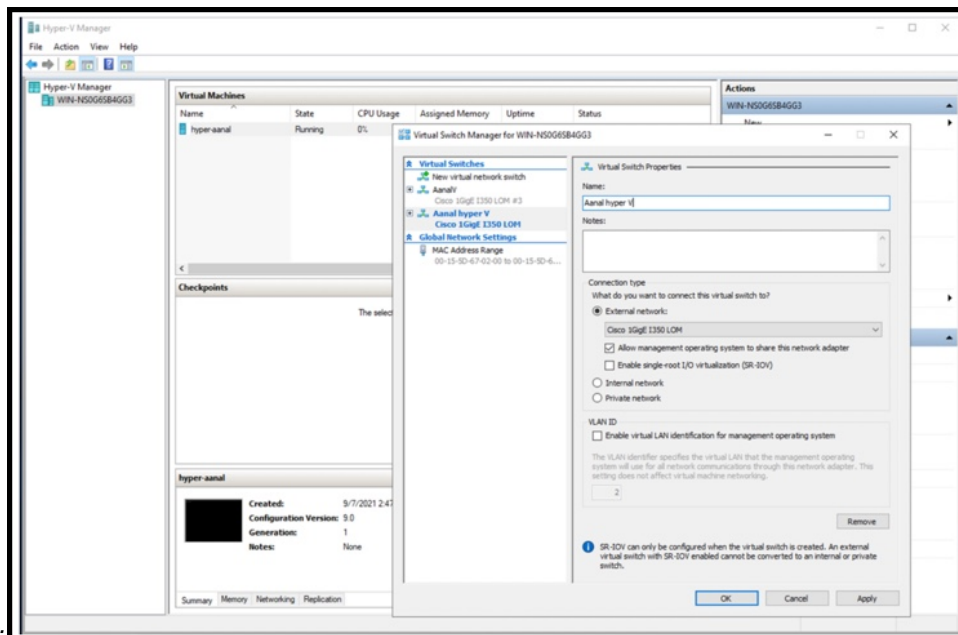


Figure 13:

Downloading and Deploying Hyper-V

This chapter provides information about how to download and deploy the Cisco Spaces: Connector and obtain the URL for the Connector GUI.



Note `dnasadmin` was previously `cmxadmin`

Before you begin

Create a vSwitch on Hyper-V. Connector connects to this vSwitch. See [Creating a Virtual Switch, on page 1](#)

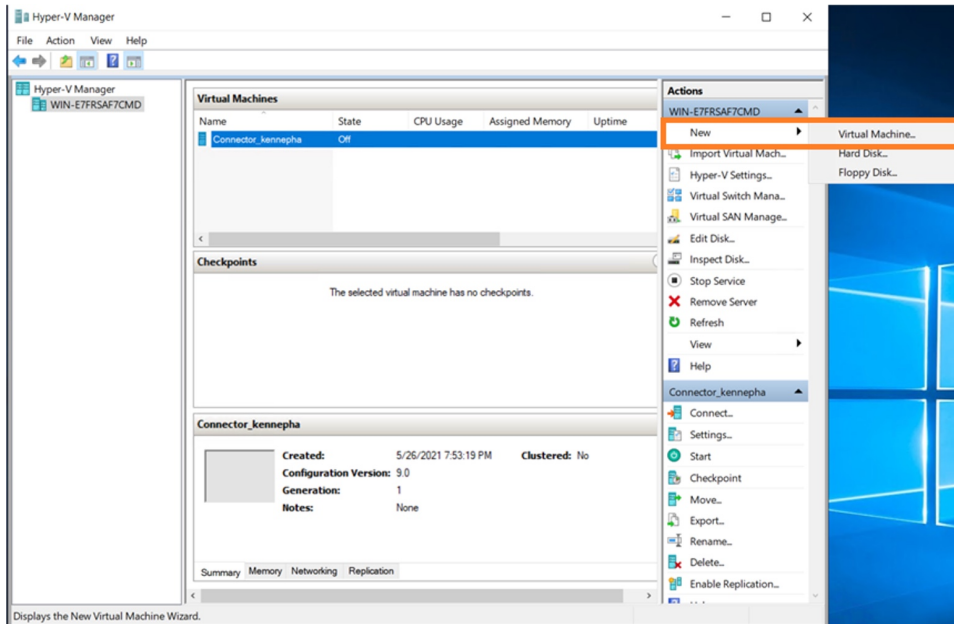
SUMMARY STEPS

1. Download [Connector](#) VHDX image from Cisco.com and store the VHDX in a folder location where you plan to create the Hyper-V instance.
2. Right-click the vSwitch created, and select **New > Virtual machine**.
3. Click **Next** to begin Hyper-V deployment.
4. Provide the **Name** of the Connector and select the location to create the virtual machine.
5. In the **Specify Generation** page, choose **Generation 1 VM**.
6. In the **Assign Memory** page, specify 4096 MB (4GB) of memory for the virtual machine instance.
7. In the **Configure Networking** page, select the vSwitch that you created as a pre-requisite.
8. In the **Connect Virtual Hard Disk** page, select the **Use an existing hard disk** option, and select the folder location where the VHDX file has been stored (Pre-requisite).
9. In the **Completing the New Machine Wizard** page, a final summary is displayed. Review this summary and click **Finish**.
10. Select the Hyper-V instance created, and click **Start**.
11. Select the Hyper-V instance created, and click **Connect** to open the Hyper-V console.
12. Log in to the terminal and enter the default username **root** and default password **cisco**.
13. Enter the network settings by specifying parameters such as IP address, hostname, and so on, that you want to configure on the Cisco Spaces: Connector.
14. Enter the time zone.
15. Enter the Network Time Protocol (NTP) server name to synchronize the system time with the NTP server's or leave it blank if you do not want to configure an NTP server.
16. Set a new password for the **root** user.
17. Set a new password for the **dnasadmin** user, which is user with administrative privileges.
18. Copy and save the URL before the automatic reboot. You can use this URL later to open the Cisco Spaces: Connector GUI.

DETAILED STEPS

-
- Step 1** Download [Connector](#) VHDX image from Cisco.com and store the VHDX in a folder location where you plan to create the Hyper-V instance.
- Step 2** Right-click the vSwitch created, and select **New > Virtual machine**.

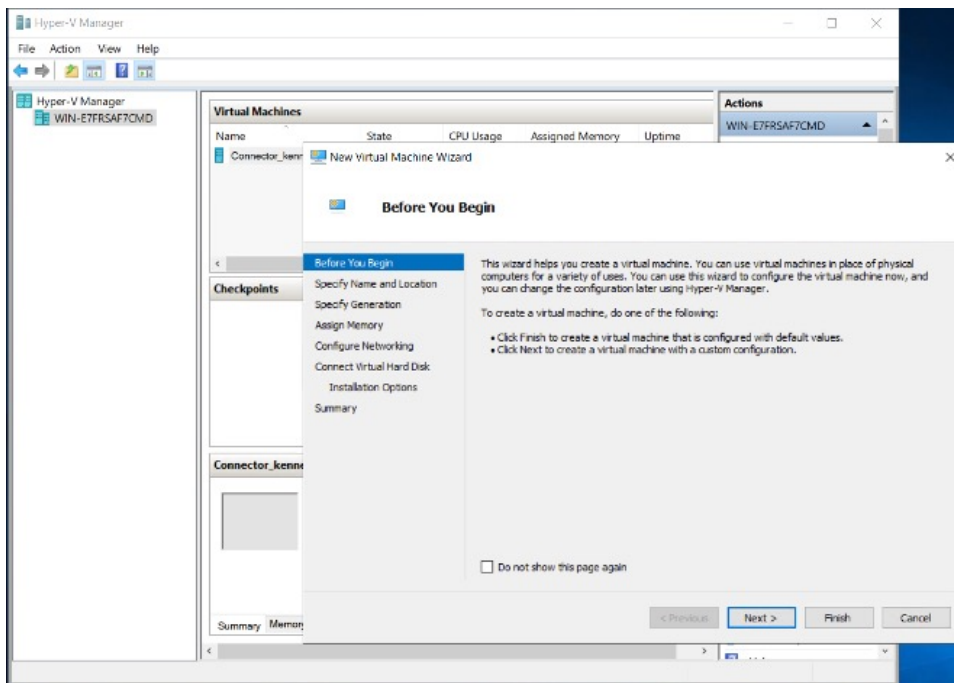
Figure 14: Start Hyper-V deployment



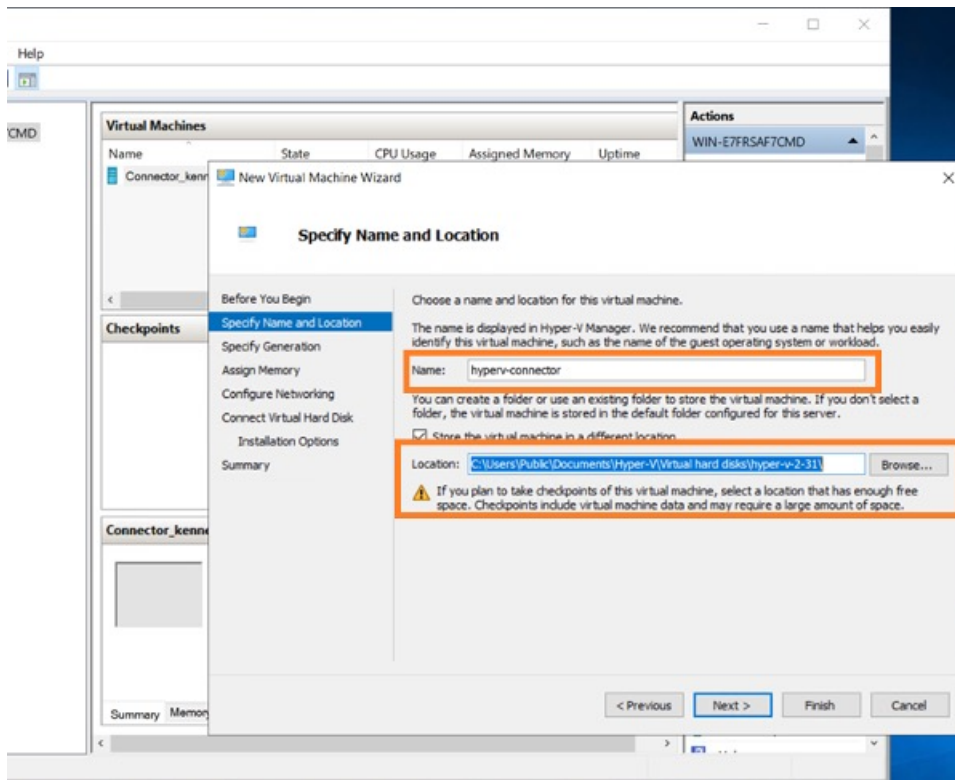
Note Do not use **Import Virtual Machine** or **New > Hard Disk** options.

Step 3 Click **Next** to begin Hyper-V deployment.

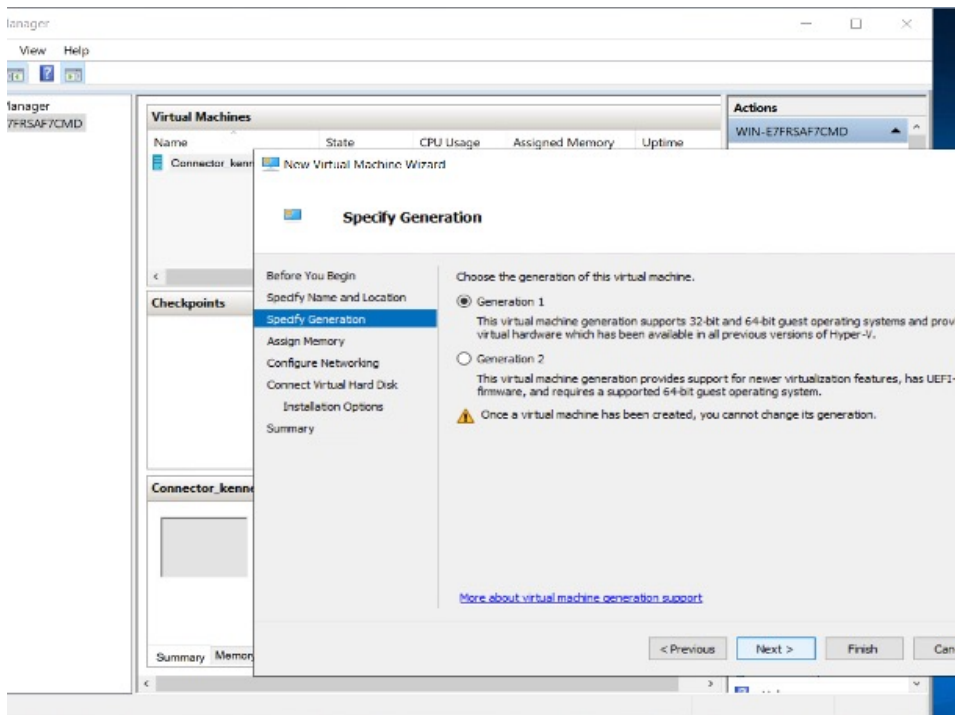
Figure 15: Start Hyper-V deployment



Step 4 Provide the **Name** of the Connector and select the location to create the virtual machine.



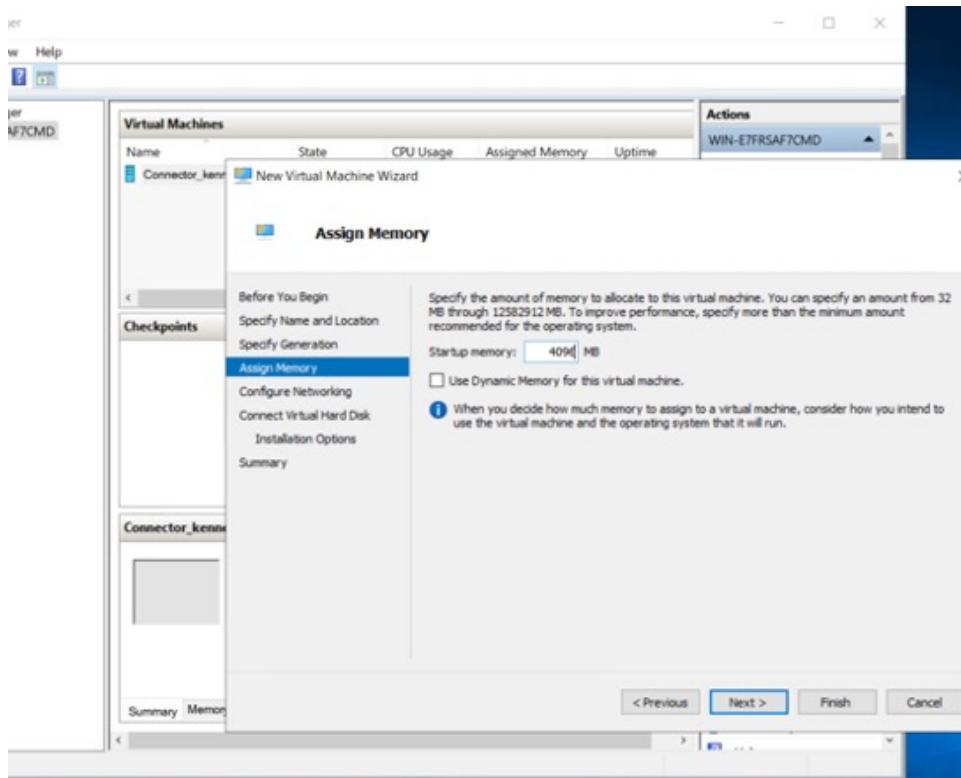
Step 5 In the **Specify Generation** page, choose **Generation 1 VM**.



Note Generation 2 VM is not supported.

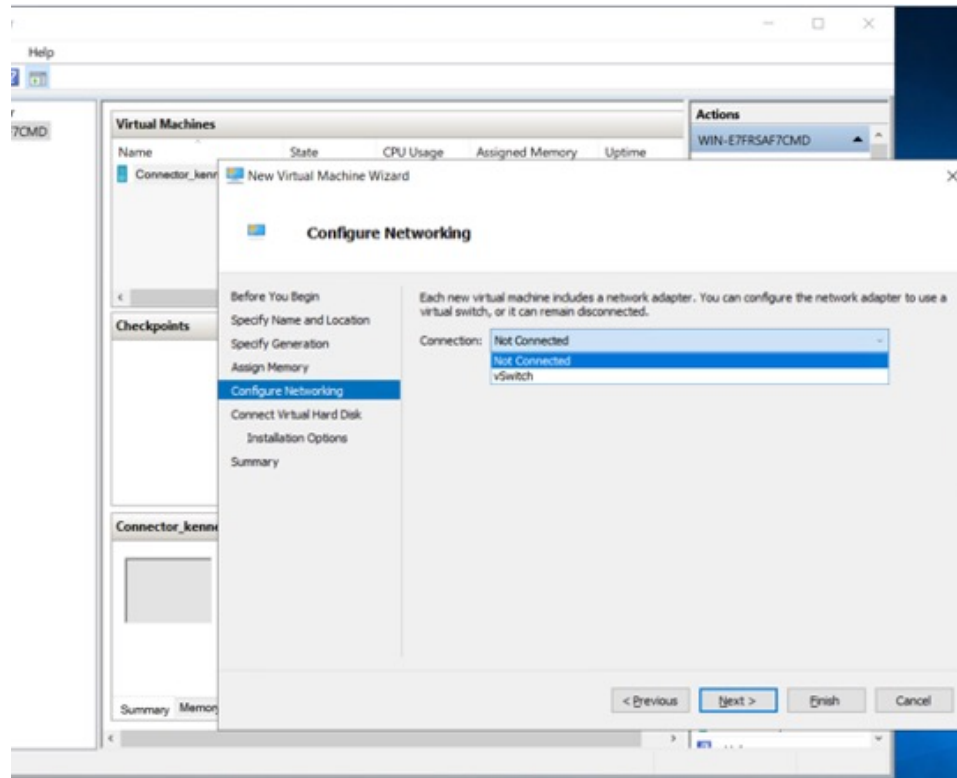
Step 6 In the **Assign Memory** page, specify 4096 MB (4GB) of memory for the virtual machine instance.

Note 4096 MB (4GB) of memory is equivalent to the standard configuration of OVA.



Step 7 In the **Configure Networking** page, select the vSwitch that you created as a pre-requisite.

Figure 16: Select vSwitch



Step 8 In the **Connect Virtual Hard Disk** page, select the **Use an existing hard disk** option, and select the folder location where the VHDX file has been stored (Pre-requisite).

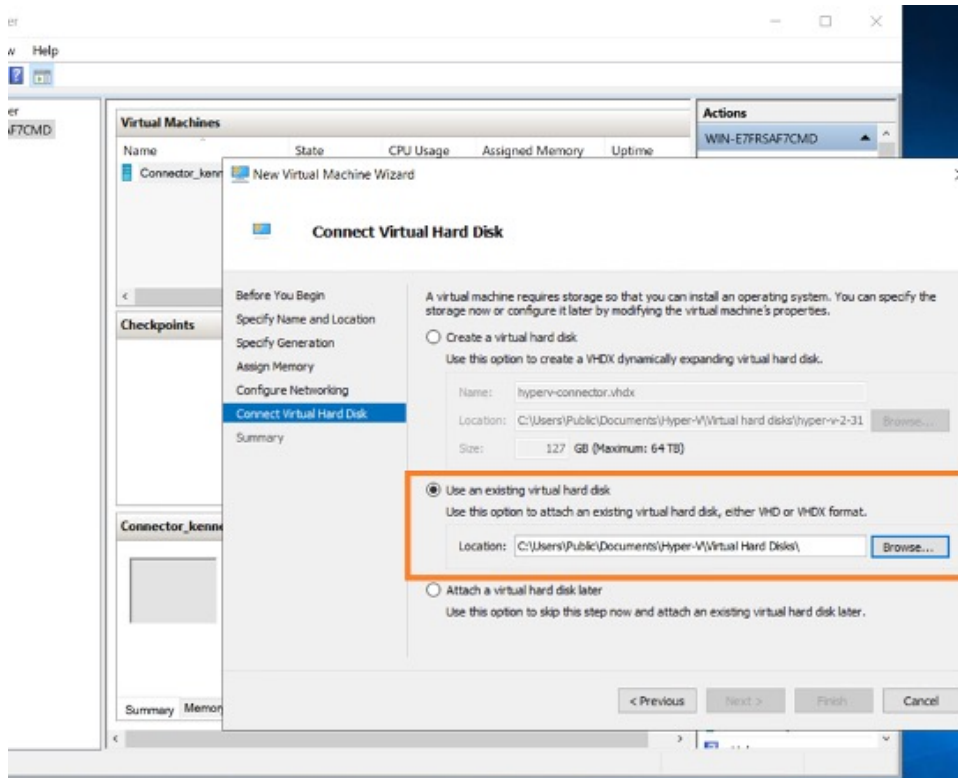
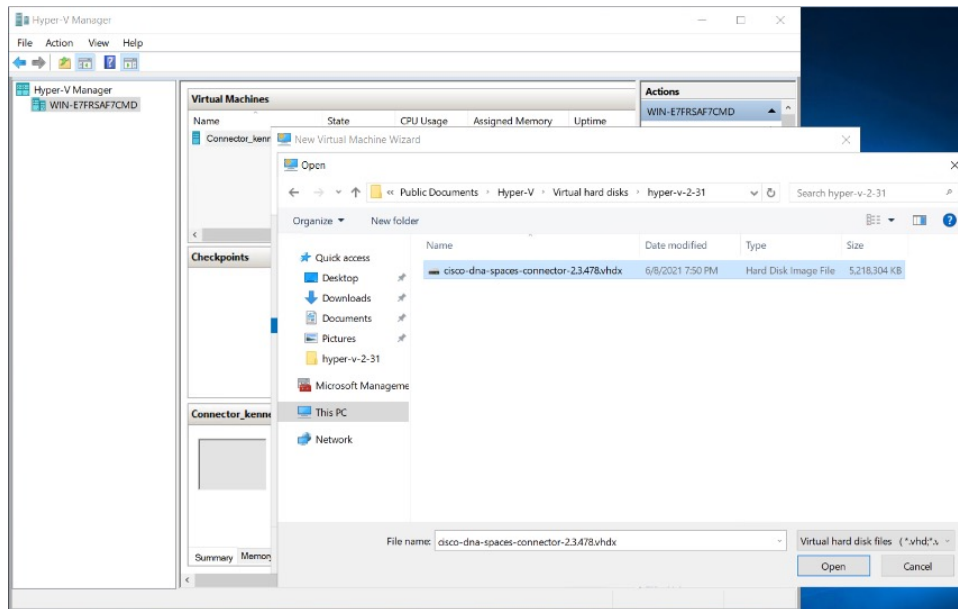
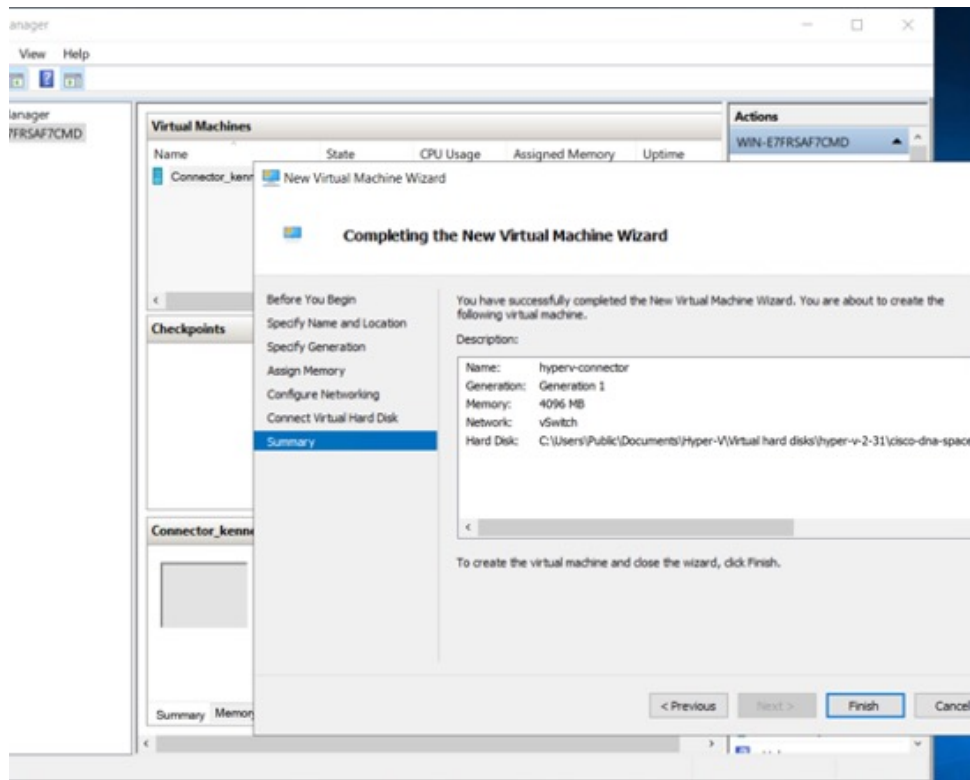


Figure 17: Folder Location where VHDX file is stored

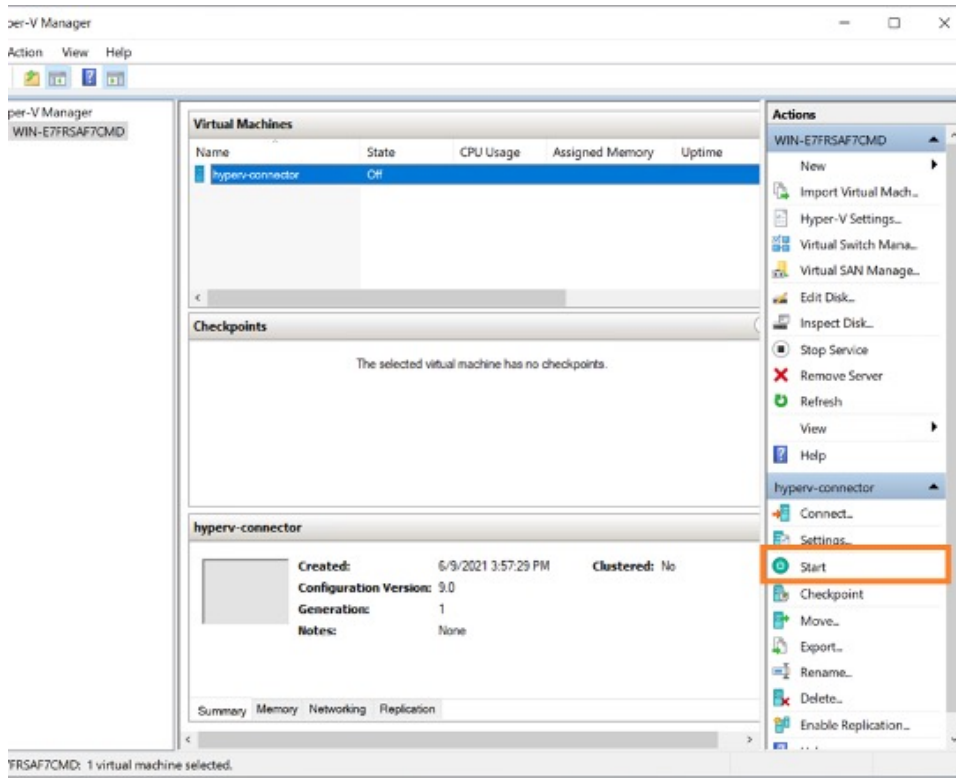


Step 9 In the **Completing the New Machine Wizard** page, a final summary is displayed. Review this summary and click **Finish**.

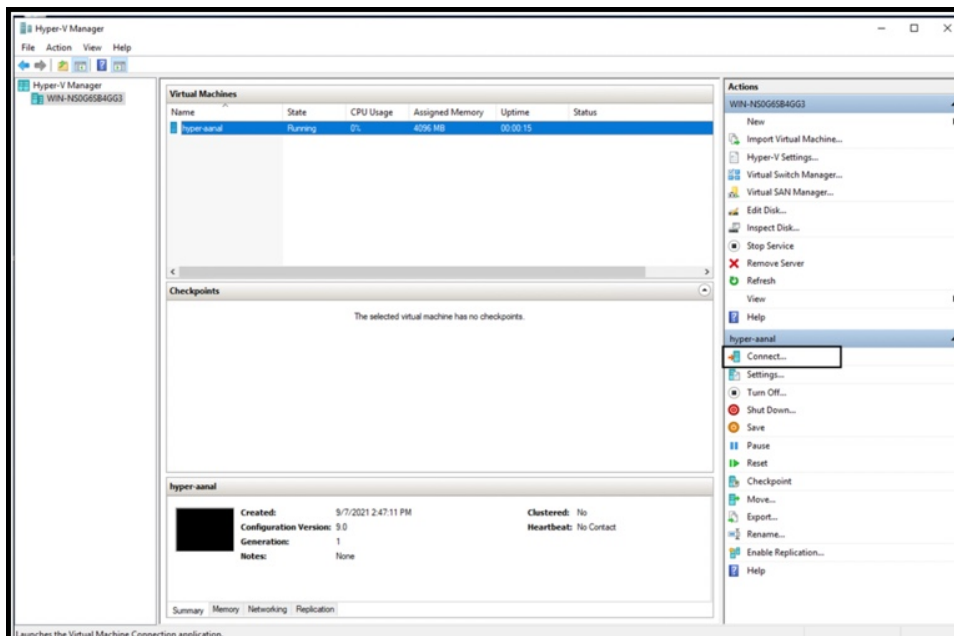


A Hyper-V instance is created.

Step 10 Select the Hyper-V instance created, and click **Start**.



Step 11 Select the Hyper-V instance created, and click **Connect** to open the Hyper-V console.



The virtual machine console is opened.

Step 12 Log in to the terminal and enter the default username **root** and default password **cisco**.

Step 13 Enter the network settings by specifying parameters such as IP address, hostname, and so on, that you want to configure on the Cisco Spaces: Connector.

```

cmx-connector-ntp-test-2
Starting network setup
Please enter hostname: connector
Please enter IP address: 10.22.244.100
Please enter netmask: 255.255.255.0
Please enter gateway: 10.22.244.1
Please enter DNS server: 172.16.100.100
Please enter search domain name:
Confirm network settings? (yes/no) _

```

Note Because this configuration screen times out in 60 seconds, ensure that you provide the input on time to avoid reconfiguration.

You can add multiple DNS server as a comma separated list in this step. Once the task is complete and the Cisco Spaces: Connector is deployed, you can login to the Connector CLI, and run the `connectorctl networkconfig` command to add more DNS servers or edit the existing list.

Step 14 Enter the time zone.

```

dhanashri-conn-545-11
Timezone setup
Would you like to setup timezone? (blank for default value (UTC))
y
1. Africa - Press 1
2. America - Press 2
3. Asia - Press 3
4. Australia - Press 4
5. Europe - Press 5
Please select an option from the list above: (blank for default value is 1)
2
1. America/Anchorage - Press 1
2. America/Buenos_Aires - Press 2
3. America/Chicago - Press 3
4. America/Denver - Press 4
5. America/Los_Angeles - Press 5
6. America/Mexico_City - Press 6
7. America/New_York - Press 7
8. America/Phoenix - Press 8
9. America/Regina - Press 9
10. America/Santiago - Press 10
11. America/Sao_Paulo - Press 11
12. America/Toronto - Press 12
13. America/Vancouver - Press 13
Please select an option from the list above: (blank for default (Default value is 1))
5

```



```

dhanashri-conn-545-11
Timezone set successfully
  Local time: Thu 2020-02-26 15:10:10 PST
  Universal time: Thu 2020-02-26 23:10:10 PST
  RTC time: Thu 2020-02-26 15:10:10 PST
  Time zone: America/Los_Angeles
  NTP enabled: yes
  NTP synchronized: no
  RTC in local TZ: yes
  DST active: no
  Last DST change: DST ended at
                  Sun 2019-11-03 01:59:59 PDT
                  Sun 2019-11-03 01:00:00 PST
  Next DST change: DST begins (the clock jumps one hour forward) at
                  Sun 2020-03-08 01:59:59 PST
                  Sun 2020-03-08 03:00:00 PDT

Warning: The system is configured to read the RTC time in the local time zone.
This mode can not be fully supported. It will create various problems
with time zone changes and daylight saving time adjustments. The RTC
time is never updated, it relies on external facilities to maintain it.
If at all possible, use RTC in UTC by calling
'timedatectl set-local-rtc 0'.

Please hold on... Fetching additional configurations...

```

- Step 15** Enter the Network Time Protocol (NTP) server name to synchronize the system time with the NTP server's or leave it blank if you do not want to configure an NTP server.

Figure 18: Enter NTP Setting

```

cmx-connector-ntp-test-2
Configure NTP
Please enter the NTP server name (blank for no NTP server): _

```

- Step 16** Set a new password for the **root** user.

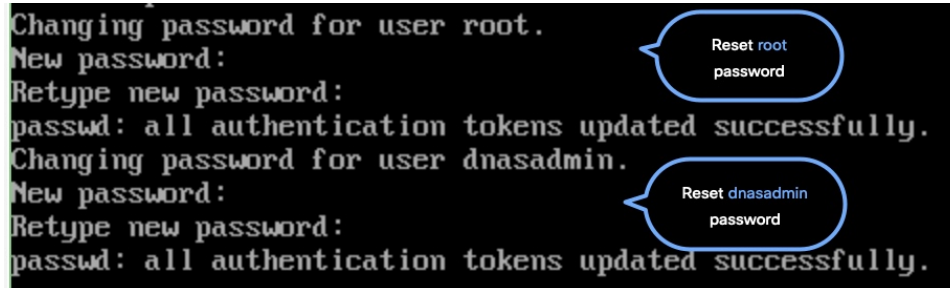
```

Changing password for user root.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
Changing password for user dnasadmin.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.

```

- Step 17** Set a new password for the **dnasadmin** user, which is user with administrative privileges.

```
Changing password for user root.  
New password:  
Retype new password:  
passwd: all authentication tokens updated successfully.  
Changing password for user dnasadmin.  
New password:  
Retype new password:  
passwd: all authentication tokens updated successfully.
```



Step 18 Copy and save the URL before the automatic reboot. You can use this URL later to open the Cisco Spaces: Connector GUI.

```
DNS Spaces Connector UI:  
https://10.22.244.90  
Username log in: dnasadmin  
The install is complete, a reboot will occur in 5 seconds...
```
