

# **Cisco Spaces: Connector Hyper-V**

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- 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 installs a virtual switch.

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



Step 2 Click Manage > Add Roles and Features.



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





| Select destination                    | DESINATION<br>WIN-NS065844GG3.rcdnlabc  |
|---------------------------------------|---|
| Before You Begin<br>Installation Type | Select a server or a virtual hard disk on which to install roles and features. <ul> <li>Select a server from the server pool</li> </ul>   |
| Server Selection                      | Select a virtual hard disk  |
| Features<br>Confirmation<br>Results   | Filter:         Name       IP Address       Operating System         WIN-NS0G6SB4GG3.rcd       10.31.103.2,16       Microsoft Windows Server 2019 Standard  |
|                                       | 1 Computer(s) found<br>This page shows servers that are running Windows Server 2012 or a newer release of Windows 3<br>and that have been added by using the Add Servers command in Server Manager. Offline server<br>newly-added servers from which data collection is still incomplete are not shown. |

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







-

**Step 7** In the **Hyper-V** window, do the following:

a) In the Virtual Switches window, click Next.

| Before You Begin<br>Installation Type<br>Server Selection<br>Server Roles<br>Features | Virtual machines require virt<br>role, you can create virtual r<br>One virtual switch will be cr<br>at least one virtual switch no<br>can add, remove, and modif<br>Network adapters: | ual switches to communicate with other comp<br>nachines and attach them to a virtual switch.<br>eated for each network adapter you select. We<br>we to provide virtual machines with connectivit<br>y your virtual switches later by using the Virtua | enters. After you install<br>recommend that you<br>ty to a physical networ<br>al Switch Manager. | nstall this<br>: you creat<br>etwork. You<br>r. |
|---|---|---|--|---|
| Hyper-V<br>Virtual Switches<br>Migration  | Name Ethernet Ethernet 2  | Description<br>Realtek PCI GBE Family Controller<br>Realtek PCIe GBE Family Controller  | r  |   |
| Confirmation<br>Results   | <ul> <li>We recommend that yo network adapter, do no</li> </ul>   | u reserve one network adapter for remote acco<br>t select it for use with a virtual switch.   | ess to this server. To re  | serv  |

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



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

|   | DESTIN  |                              |
|---|---|------------------------------|
| Default Stores  | or an interest of the second se | UNIVERSE                     |
| Before You Begin<br>Installation Type<br>Server Selection | Hyper-V uses default locations to store virtual hard disk files and virtual machine configura<br>unless you specify different locations when you create the files. You can change these defau<br>now, or you can change them later by modifying Hyper-V settings.<br>Default location for virtual hard disk files:  | tion files,<br>alt locations |
| Features  | C:\Users\Public\Documents\Hyper-V\Virtual Hard Disks  | Browse                       |
| Hyper-V   | Default location for virtual machine configuration files:   |                              |
| Virtual Switches  | C:\ProgramData\Microsoft\Windows\Hyper-V  | Browse                       |
| Migration   |   |                              |
| Default Stores  |   |                              |
| Confirmation  |   |                              |
| Results   |   |                              |
|   |   |                              |
|   |   |                              |
|   |   |                              |
|   |   |                              |
|   |   |                              |
|   |   |                              |

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



Step 9 Open Hyper-V Manager.

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

| Name       State       CPU Usage       Ausgred Memory       Uptime       Status       Nor         Nor       Paper avail       Reverg       D:       4056 MB       3.1454.25       Nor       Nor       Nor         Virtual State Manager  | ← ← + 2          | Virtual Machines |           | Actions            |                           |            |                               |                        |  |
|--|------------------|------------------|-----------|--------------------|---------------------------|------------|-------------------------------|------------------------|--|
| Normal         Purrorg         0%         4005 MB         3.1454.20           Import Autor         Import Valuel Michine         Import Valuel Michine         Import Valuel Michine           Import Valuel Michine         Import Valuel Michine         Import Valuel Michine         Import Valuel Michine           Import Valuel Michine         Import Valuel Michine         Import Valuel Michine         Import Valuel Michine           Import Value Michine         Import Valuel Michine         Import Valuel Michine         Import Valuel Michine           Import Value Michine         Import Value Michine         Import Value Michine         Import Value Michine           Import Value Michine         Import Value Michine         Import Value Michine         Import Value Michine           Import Value Michine         Import Value Michine         Import Value Michine         Import Value Michine           Import Value Michine         Import Value Michine         Import Value Michine         Import Value Michine           Import Value Michine         Import Value Michine         Import Value Michine         Import Value Michine           Import Value Michine         Import Value Michine         Import Value Michine         Import Value Michine           Import Value Michine         Import Va   | MIN-143000364003 | Name             | State     | CPU Usage          | Assigned Memory           | Uptime     | Status                        | WIN-NS0G6SB4GG3        |  |
| Image: Second  |                  | hyper-aanal      | Running   | 0%                 | 4096 MB                   | 3.14:54:29 |                               | New                    |  |
| <ul> <li>Conclusions</li> <li>Startest: 50</li> <li>Sore</li> <li>So</li></ul>   |                  |                  |           |                    |                           |            |                               | Import Virtual Machine |  |
| c Ceckpoint The selected vitual machine has no decigores. Hope ramal Configuration Version: 50 <p< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Hyper-V Settings</td><td></td></p<>  |                  |                  |           |                    |                           |            |                               | Hyper-V Settings       |  |
| Cectopoints          Cectopoints       The selected virtual machine has no checigorets.         Marcel SMA Standard       Second         Marcel SMA Standard       Second         Second Standard       Second Standard         <   |                  |                  |           |                    |                           |            |                               | Virtual Switch Manager |  |
| Conclusions     The selected vitual inschere has no checkports                   |                  |                  |           |                    |                           |            |                               | Virtual SAN Manager    |  |
| <ul> <li>c</li> <li>Checkpoints</li> <li>The selected virtual machine has no decigorets.</li> <li>Remove Sover</li> <li>Remove S</li></ul>   |                  |                  |           |                    |                           |            |                               | 🕳 Edit Disk            |  |
| <ul> <li>c</li> <li>Caccbpoints</li> <li>The selected vitual machine has no checkports.</li> <li>The selected vitual machine has no checkports.</li> <li>Ferrore Server</li> <li>Africah.</li> <li>Were</li> <li>Heap</li> <li>Heap</li> <li>Sering</li> <li>Sering</li></ul>  |                  |                  |           |                    |                           |            |                               | Inspect Disk           |  |
| Conclopation     Conclopation     Paper-sama      Conclopation     C                 |                  |                  |           |                    |                           |            |                               | Stop Service           |  |
| Created:       5/7/2021 24711 PM       Cleatered: No       No       Particular         Image: None       Created:       5/7/2021 24711 PM       Cleatered: No       Reat         Image: None       Created:       5/7/2021 24711 PM       Cleatered: No       Reat         Image: None       Created:       5/7/2021 24711 PM       Cleatered: No       Reat         Image: None       None       Reat       Second       Reat         Image: None       None       Reat       Second       Reat         Image: None       None       Reat       Second       Reat   |                  | <                |           |                    |                           |            |                               | Remove Server          |  |
| Interpreter       Were         The selected visual machine has no checkports.       If Help         Heap       Heap         Water and       Context         Image: Selected visual machine has no checkports.       If Heap         Image: Selected visual machine has no checkports.       If Heap         Image: Selected visual machine has no checkports.       If Heap         Image: Selected visual machine has no checkports.       If Heap         Image: Selected visual machine has no checkports.       If Heap         Image: Selected visual machine has no checkports.       If Heap         Image: Selected visual machine has no checkports.       If Heap         Image: Selected visual machine has no checkports.       If Heap         Image: Selected visual machine has no checkports.       If Heap         Image: Selected visual machine has no checkports.       If Heap         Image: None       If Enable Registration         Image: Selected visual machine has no checkports.       If Heap   |                  | Checkmoints      |           |                    |                           |            |                               | Refresh                |  |
| Image: Provide the set of decigores.       Image: Provide the set of decigores.       Image: Provide the set of decigores.         Image: Provide the set of decigores.       Image: Provide the set of decigores.       Image: Provide the set of decigores.         Image: Provide the set of decigores.       Image: Provide the set of decigores.       Image: Provide the set of decigores.         Image: Provide the set of decigores.       Image: Provide the set of decigores.       Image: Provide the set of decigores.         Image: Provide the set of decigores.       Image: Provide the set of decigores.       Image: Provide the set of decigores.         Image: Provide the set of decigores.       Image: Provide the set of decigores.       Image: Provide the set of decigores.         Image: Provide the set of decigores.       Image: Provide the set of decigores.       Image: Provide the set of decigores.         Image: Provide the set of decigores.       Image: Provide the set of decigores.       Image: Provide the set of decigores.         Image: Provide the set of decigores.       Image: Provide the set of decigores.       Image: Provide the set of decigores.         Image: Provide the set of decigores.       Image: Provide the set of decigores.       Image: Provide the set of decigores.         Image: Provide the set of decigores.       Image: Provide the set of decigores.       Image: Provide the set of decigores.         Image: Provide the set of decigores.       Image: Provide the set of decigores.<  |                  | checkpoints      |           |                    |                           |            |                               | View                   |  |
| hyper-anal       imper-anal       imper-anaa       imper-anal       imper-anal </td <td></td> <td></td> <td>The selected</td> <td>virtual machine has no ch</td> <td>eckpoints.</td> <td></td> <td>Help</td> <td></td>  |                  |                  |           | The selected       | virtual machine has no ch | eckpoints. |                               | Help                   |  |
| kper-sand       Created:       5/7/2021242711PM       Cleatered: No       % Ground:       % Boot         Configuration Version:       30       HeartHeat: OK (80 Application Data)       % Boot       % Boot         Notes:       None       1       HeartHeat: OK (80 Application Data)       % Boot       % Boot   |                  |                  |           |                    |                           |            |                               | hyper-aanal            |  |
| Mper-sand       Image: Section 1         Created:       5/7/2022 24711 PM         Canfiguration Version:       50         Reset:       1   |                  |                  |           |                    |                           |            |                               | - Connect              |  |
| hyper-anal   |                  |                  |           |                    |                           |            |                               | Settings               |  |
| https://www.accience/configuration/terrising     5/7/2021 247:11 PM     Cleastered: No     %     %     %     %       Configuration/terrising     5/7/2021 247:11 PM     Cleastered: No     %     %     %     %       Configuration/terrising     5/7/2021 247:11 PM     Cleastered: No     %     %     %     %       Configuration/terrising     5/7/2021 247:11 PM     Cleastered: No     %     %     %     %       Configuration/terrising     5/7/2021 247:11 PM     Cleastered: No     %     %     %     %       Configuration/terrising     5/7/2021 247:11 PM     Cleastered: No     %     %     %     %       Configuration/terrising     5/7/2021 247:11 PM     Cleastered: No     %     %     %     %       Configuration/terrising     5/7/2021 247:11 PM     Cleastered: No     %     %     %     %       Configuration/terrising     5/7/2021 247:11 PM     Cleastered: No     %     %     %     %       Configuration/terrising     5/7/2021 247:11 PM     Cleastered: No     %     %     %     %       Motes:     None     %     Heartheat: O(K) (No Application Data)     %     %     %     %       Motes:     None     %     Heartheat: O(K) (No Application Data)     % <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Turn Off</td> <td></td>   |                  |                  |           |                    |                           |            |                               | Turn Off               |  |
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| Computation resolution 1 Heartbeat: UK pio Apolicion Luita) Hig Rename<br>Generation: 1 None III Hotes: None III Heip  |                  | Cn               | eated:    | 9/7/2021 2:47:11 8 | PM                        | Cluster    | ed: No                        | Export                 |  |
| Notes: None 😭 Enable Replication   |                  | Ge               | negation: | 1                  |                           | nearth     | eat: OK (No Application Data) | 🖷 Rename               |  |
| Pelp Help  |                  | No               | tes:      | None               |                           |            |                               | 1 Enable Replication   |  |
|  |                  |                  |           |                    |                           |            |                               | 😰 Help                 |  |
|  |                  |                  |           |                    |                           |            |                               |                        |  |

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

Figure



Step 12In the Virtual Switch Properties window, provide a Name for the switch. From the Connection Type area, choose<br/>External Network and choose a network. Click Apply.

| Hyper-V Manager<br>Virtual Machines |  |  |   | Actions  |  |
|-------------------------------------|--|--|---|--|--|
| Name "                              | State CPU Diag<br>Running DL   | e Assigned Memory Uptime<br>Sill Virtual Switch Manager for WIN-160065<br>A Virtual Switches<br>Sill Rev Virtual retrock switch<br>R Sill Anall Virger V<br>Coso Stoff 1350 L014 e3<br>R Adaba Technols Sections<br>Coso Stoff 1350 L014<br>Coso Stoff 1350 L014 | Status B4003  |  |  |
| ¢<br>Deckpoints                     | The selec  | 00-15-50-67-02-00 % 00-15-50-6   | Currention type What do you want to connect this virtual within to?  External network:  Also for any operating system to share this network adapter  Disoline single-root (1) virtualization (0R-001)  Steffer in etwork:  VLAH ID  CutAl in the interview interview interview interview adapter  Disoline single-root (2) virtualization for management operating system   |  |  |
| byper anal                          | Created: 9/7/2021.2.47<br>Configuration Version: 9.0<br>Generation: 1<br>None None |  | Control C | n for management operating system<br>that jub the the management operating<br>management through the network adapter. The<br>tree networking.<br>Remove<br>then the virtual switch is created. An external |  |

# **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.

| N. |
|----|
|----|

### 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 Sepecify 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.

| le Action View Help |                  |                              |                      |                 |         |                           |     |                 |
|---------------------|------------------|------------------------------|----------------------|-----------------|---------|---------------------------|-----|-----------------|
| Hyper-V Manager     | Virtual Machines |                              |                      |                 |         | Actions                   | _   |                 |
| WIN-E/FRSAF/CMD     | Name             | State                        | CPU Usage            | Assigned Memory | Uptime  | WIN-E7FRSAF7CMD           | ▲ ^ |                 |
|                     | Connector_kenner | oha Off                      | a. e enege           | ·               | - prime | New                       | •   | Virtual Machine |
|                     |                  |                              |                      |                 |         | Import Virtual Ma         | :h_ | Hard Disk       |
|                     |                  |                              |                      |                 |         | Hyper-V Settings          |     | Floppy Disk     |
|                     |                  |                              |                      |                 |         | Virtual Switch Mar        | na  |                 |
|                     |                  |                              |                      |                 |         | 🔬 Virtual SAN Mana        | ge_ |                 |
|                     | <                |                              |                      |                 |         | 💰 Edit Disk               |     |                 |
|                     | Checkpoints      |                              |                      |                 |         | Inspect Disk              |     |                 |
|                     |                  | The selected of              |                      | about a state   |         | Stop Service              |     |                 |
|                     |                  | The selected vi              | rtuai machine nas no | checkpoints.    |         | × Remove Server           |     |                 |
|                     |                  |                              |                      |                 | Refresh |                           |     |                 |
|                     |                  | ector_kennepha               |                      | View            | •       |                           |     |                 |
|                     |                  |                              |                      |                 |         | 🕜 Help                    |     |                 |
|                     |                  |                              |                      |                 |         | Connector_kennepha        | -   |                 |
|                     | Connector konnen | ha                           |                      |                 |         | 📲 Connect                 |     |                 |
|                     | Connector_kennep | na                           |                      |                 |         | Settings                  |     |                 |
|                     | c                | reated:                      | 5/26/2021 7:53:19    | PM Clustered: N | lo      | <ul> <li>Start</li> </ul> |     |                 |
|                     | c                | onfiguration Version:        | 9.0                  |                 |         | De Checkpoint             |     |                 |
|                     | G                | eneration:                   | 1                    |                 |         | Move_                     |     |                 |
|                     |                  | Generation: 1<br>Notes: None |                      | Export          |         |                           |     |                 |
|                     |                  |                              |                      |                 |         | T Rename                  |     |                 |
|                     |                  |                              |                      |                 |         | Delete                    |     |                 |
|                     | Summary Memory   | Networking Replication       |                      |                 |         | 18 Enable Replication     | -   |                 |
|                     |                  |                              |                      |                 |         | 1                         | *   |                 |

### 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 H | lyper-V de | eployment |
|--------------------|------------|-----------|
|--------------------|------------|-----------|

| Hyper-V Manager       |  |   |   |   |
|-----------------------|--|---|---|---|
| File Action View Help |  |   |   |   |
| 🗢 🔿 📶 🔛 🗔             |  |   |   |   |
| Hyper-V Manager       | lar.   |   | Actions   |   |
| WIN-E7FRSAF7CMD       | State ()   | REELIngen Accimpad Memory Un  | WIN-E7FRSAF7CMD   | · ^   |
| Connector_b           | en New Virtual Machine Wizz  | Begin   |   | ×   |
| < Connector.ke        | Before You Begin<br>Specify Name and Location<br>Specify Generation<br>Assign Nemory<br>Configure Networking<br>Connect Virtual Hard Disk<br>Installation Options<br>Summary | This witard heips you create a virtual in<br>computers for a variety of uses. You or<br>you can change the configuration later<br>To create a virtual machine, do one of<br>• Click Finish to create a virtual mach<br>• Click Next to create a virtual machine | nachine. You can use virtual machines<br>an use this witard to configure the vir<br>using Hyper-Y Manager.<br>the following:<br>ine that is configured with default value<br>and the configuration. | In place of physical<br>tual machine now, and<br>ues. |
| Summery Mer           |  | Do not show this page again   | < Provinces Rext > F  | Finish Cancel   |

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

|            |   |   |  |   | Actions  |                                  |
|------------|---|---|--|---|--|----------------------------------|
| Virtu      | al Machines   |   |  |   |  | · ^                              |
| Co         | nnector_kenr Provident  | e CPU Usage<br>Machine Wizard<br>Specify Name and L   | Assigned Memory  | Uptime  |  |                                  |
| <<br>Check | Before You Beg<br>points Specify Name a<br>Specify General                      | n Choose<br>nd Location The na<br>identifi            | e a name and location for<br>me is displayed in Hyper-V<br>y this virtual machine, such  | this virtual machine<br>Manager. We reci<br>h as the name of th   | ommend that you use a nam  | e that helps you<br>r workload.  |
|            | Assign Memory<br>Configure Netw<br>Connect Virtual<br>Installation (<br>Summary | orking You ca<br>Hard Disk folder,<br>Aptions Locatic | hyperv-connector<br>in create a folder or use an<br>the virtual machine is stor<br>are the virtual machine in a<br>crute story of the virtual machine<br>crute story of the virtual machine<br>(C) Users/Public/Docur<br>you plan to take checkpoi | n existing folder to<br>ed in the default fi<br>different location<br>menis/(hyper-V/Wrb<br>nts of this virtual m | store the virtual machine. If<br>older configured for this serv<br>tai hard disks/hyperve2-310<br>iachine, select a location tha | you don't select<br>ver.<br>Brow |
| Conne      | ector_kenne   |   | ace. Checkpoints include t   | virtual machine dat   | a and may require a large ar   | nount of space.                  |
|            |   |   |  |   |  |                                  |

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





Step 6In the Assign Memory page, specify 4096 MB (4GB) of memory for the virtual machine instance.Note4096 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).

| 7CMD | Virtual Machines |   |   |  |  | Actions  | _              |
|------|------------------|---|---|--|--|--|----------------|
|      | Name             | State   | CPU Usage Assi<br>Tizard<br><b>/irtual Hard Disk</b>  | gned Memory  | Uptime   | WIN-E/HISAF/CMU  |                |
|      | <<br>Checkpoints | Before You Begin<br>Specify Name and Location<br>Specify Generation<br>Assign Memory<br>Configure Networking<br>Connect Virtual Hand Dok<br>Summary | A virtual machin<br>storage now or<br>O create a vi<br>Use this op<br>Name:<br>Location:<br>Size: | e requires storagg<br>configure it later I<br>tual hard disk<br>tion to create a VH<br>hyperv-connect<br>C:\Users\Public<br>127 GB ( | e so that you can i<br>by modifying the v<br>EDX dynamically ex<br>or.vhdx<br>(Documents()Hyper<br>Maximum: 64 TB) | nstall an operating system. Yi<br>hual machine's properties,<br>panding virtual hard disk.<br>-W.Virtual hard disks/hyper-vi-2 | 2-31 Browsess  |
|      | Connector_kenns  |   | Use an exis<br>Use this op<br>Location:   | ting virtual hard d<br>tion to attach an e<br>C:\Users\Public\   | isk<br>:xisting virtual hard<br>:Documents\(Hyper  | i disk, either VHD or VHDX for<br>-VWirtual Hard Disks\  | mat.<br>Browse |
|      |                  |   | O Attach a vir<br>Use this opr  | tual hard disk late<br>ion to skip this ste  | r<br>p now and attach  | an existing virtual hard disk k  | ster.          |

Figure 17: Folder Location where VHDX file is stored

| Name       State       CPU Usage       Assigned Memory       Uptime       VIN-E7/REAF/CMD <ul> <li></li></ul>  | Hyper-V Manager Virtual Mac | hines                                   |   | Actions          |                      |                |   |  |
|--|-----------------------------|---|---|------------------|----------------------|----------------|---|--|
| Connector_Learns Connec | Name                        | State CP                                | U Usage Assigned Memory Uptime                              | WIN-E7FRSAF7CM   | D 🔺 î                | ×              |   |  |
| <ul> <li>← → ♥ ↑ ↓ ≪ Nublic Documents + Hyper-V - Virtual hard disks + hyper-V-2-31</li> <li>♥ Organize ▼ New folder</li> </ul> <ul> <li>Ørganize ▼ New folder</li> <li>Ølde access</li> <li>Ølde</li></ul>  |                             | - Open                                  |   |                  |                      |                |   |  |
| Criganize View folder 15:2 Unit<br>Checkpoints Connector 23.478 who 6/8/2021 750 PM Hard Disk Image File 5.218.304 KB<br>Desktop #<br>Downloads #<br>Potures #<br>Potures #<br>Norosoft Manageme<br>Connector Learn<br>Network   |                             | ← → × ↑ 🔤 « Pul                         | blic Documents  | hyper-v-2-31     | ✓ Ö Search H         | nyper-v-2-31   | - |  |
| Checkpoints       Image File       5.216.304 K8  | <                           | Organize • New folds                    | Name  | Date modified    | Туре                 | B== •          |   |  |
| Connector_kenn Connec | Geogra                      | Desktop #<br>Downloads #<br>Documents # | <ul> <li>cisco-dna-spaces-connector-2.3.478.vhdx</li> </ul> | 6/8/2021 7:50 PM | Hard Disk Image File | e 5,218,304 KB | l |  |
| Connector kenni en ris r.  |                             | hyper-v-2-31                            |   |                  |                      |                |   |  |
|  | Connector                   |   |   |                  |                      |                |   |  |

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



A Hyper-V instance is created.

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

| per-V Manager    |                  |   |                     |                 |        | - 0                              | ×          |  |  |
|------------------|------------------|---|---------------------|-----------------|--------|----------------------------------|------------|--|--|
| Action View Help |                  |   |                     |                 |        |                                  |            |  |  |
| per-V Manager    |                  |   |                     |                 |        | Actions                          | _          |  |  |
| WIN-E7FRSAF7CMD  | Virtual Machines |   |                     |                 |        | MUNI EZERCAEZCHAD                |            |  |  |
|                  | Name             | State   | CPU Usage           | Assigned Memory | Uptime | WIN-EPHGAP/CMD                   |            |  |  |
|                  | hyperv-connector | Off   |                     |                 |        | Ph. Incertification of the state |            |  |  |
|                  |                  |   |                     |                 |        | Import Virtual Mach.             |            |  |  |
|                  |                  |   |                     |                 |        | Hyper-V Settings_                |            |  |  |
|                  |                  |   |                     |                 |        | Virtual Switch Mana_             |            |  |  |
|                  |                  |   |                     |                 |        | virtual SAN Manage               |            |  |  |
|                  | C                |   |                     |                 |        | Edit Disk                        |            |  |  |
|                  | Checkpoints      |   |                     |                 |        | ( 🚽 Inspect Disk_                |            |  |  |
|                  |                  | The selected vitual machine has no checkpoints. |                     |                 |        |                                  |            |  |  |
|                  |                  |   |                     |                 |        |                                  |            |  |  |
|                  |                  |   |                     |                 |        |                                  |            |  |  |
|                  |                  |   |                     |                 |        |                                  |            |  |  |
|                  |                  |   |                     |                 |        |                                  |            |  |  |
|                  |                  |   |                     |                 |        |                                  |            |  |  |
|                  | human consists   | hyperv-connector                                |                     |                 |        |                                  |            |  |  |
|                  | nyperv-connector |   |                     |                 |        |                                  |            |  |  |
|                  | 0                | Created:  | 6/9/2021 3:57:29 PM | d Clustered: N  | ło     | Start                            |            |  |  |
|                  | 0                | infiguration Version:                           | 9.0                 |                 |        | b Checkpoint                     |            |  |  |
|                  | G                | teration  | None                |                 |        | Move_                            |            |  |  |
|                  |                  | Note: Note                                      |                     |                 |        |                                  | Deport.    |  |  |
|                  |                  |   |                     |                 |        |                                  | E Rename_  |  |  |
|                  |                  |   |                     |                 |        |                                  | Sc Delete. |  |  |
|                  | Summary Memory   | Networking Replication                          |                     |                 |        | Enable Replication               |            |  |  |
|                  | <                |   |                     |                 |        |                                  | ¥          |  |  |

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

| Hyper-V Manager                   |                   |  |                    |                 |          |                 |        |                        |  | × |
|-----------------------------------|-------------------|--|--------------------|-----------------|----------|-----------------|--------|------------------------|--|---|
| File Action View Help             |                   |  |                    |                 |          |                 |        |                        |  |   |
| (* *) 🖄 🔟 🔛 👘                     |                   |  |                    |                 |          |                 |        |                        |  |   |
| Hyper-V Manager                   | Virtual Machines  |  |                    |                 |          |                 |        | Actions                |  | _ |
|                                   | Name              | State  | CPU Usage          | Assigned Memory | Uptime   | Status          |        | WIN-NS0G6584GG3        |  | - |
|                                   | hyper-aanal       | Running  | 0%                 | 4096 MB         | 00:00:15 |                 |        | New                    |  | • |
|                                   |                   |  |                    |                 |          |                 |        | Import Virtual Machine |  |   |
|                                   |                   |  |                    |                 |          |                 |        | Hyper-V Settings       |  |   |
|                                   |                   |  |                    |                 |          |                 |        | Virtual Switch Manager |  |   |
|                                   |                   |  |                    |                 |          |                 |        | Virtual SAN Manager    |  |   |
|                                   |                   |  |                    |                 |          |                 |        | Edit Disk              |  |   |
|                                   |                   |  |                    |                 |          |                 |        | Inspect Disk           |  |   |
|                                   |                   |  |                    |                 |          |                 |        | Stop Service           |  |   |
|                                   |                   |  |                    |                 |          |                 |        | × Remove Server        |  |   |
|                                   | <                 |  |                    |                 |          |                 | >      | O Refresh              |  |   |
|                                   | Checkpoints       |  |                    |                 |          |                 | •      | View                   |  |   |
|                                   |                   | The selected virtual machine has no checkpoints. |                    |                 |          |                 |        | Help                   |  |   |
|                                   |                   |  |                    |                 |          |                 |        |                        |  |   |
|                                   |                   |  |                    |                 |          |                 |        | hyper-aanal            |  | • |
|                                   |                   |  |                    |                 |          |                 | 11     | Connect                |  |   |
|                                   |                   |  |                    |                 |          |                 |        | Settings               |  |   |
|                                   |                   |  |                    |                 |          |                 |        | Turn Off               |  |   |
|                                   |                   |  |                    |                 |          |                 |        | Shut Down              |  |   |
|                                   |                   |  |                    |                 |          |                 |        | Save                   |  |   |
|                                   |                   |  |                    |                 |          |                 | - 11   | II Pause               |  |   |
|                                   |                   |  |                    |                 |          |                 |        | Reset                  |  |   |
|                                   | humer-annal       |  |                    |                 |          |                 |        | By Checkpoint          |  |   |
|                                   |                   |  |                    |                 |          |                 | - 1    | Move                   |  |   |
|                                   |                   | Created:   | 9/7/2021 2:47:11 P | M               | Clustere | ed: No          |        | Export                 |  |   |
|                                   |                   | Configuration Version:                           | 9.0                |                 | Hearthe  | sat: No Contact |        | Rename                 |  |   |
|                                   |                   | Generation:                                      | 1                  |                 |          |                 |        | Enable Replication     |  |   |
|                                   | Notes:            |  | riane              |                 |          |                 | 2 Help |                        |  |   |
|                                   |                   |  |                    |                 |          |                 |        | - top                  |  |   |
|                                   |                   |  |                    |                 |          |                 |        |                        |  |   |
|                                   | Summary Memory    | y Networking Replication                         | 1                  |                 |          |                 | -1     |                        |  |   |
| aunches the Virtual Machine Conne | ction application |  |                    |                 |          |                 |        |                        |  |   |

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: 🔟 22 241 104   |
| Please enter netmask: 255.255.255.0     |
| Please enter gateway: 14 XX 244.        |
| Please enter DNS server: TVL.VU.LUJ.LUJ |
| Please enter search domain name:        |
| Confirm network settings? (yes/no)      |
| Enter Network                           |
| Settings                                |
|   |

**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  | 🖬 🖬 💼 🎲 Actions 🛞 |
|--|-------------------|
| Timezone setup<br>Would you like to setup timezone? (blank for default value (UTC))  |                   |
| y<br>1. Africa - Press 1<br>2. America - Press 2<br>3. Asia - Press 3<br>4. Australia - Press 4  |                   |
| 5. Europe - Fress 5<br>Please select an option from the list at<br>2<br>1. America/Anchorage - Press 1<br>2. America/Buenos_Aires - Press 2<br>3. America/Buenos_Aires - Press 3 | 1))               |
| 5. America/Denver - Press 4<br>5. America/Los_Angeles - Press 5<br>6. America/Mexico_City - Press 6<br>7. America/New_York - Press 7<br>8. America/Phoenix - Press 8             |                   |
| 9. America/Regina - Press 9<br>10. America/Santiago - Press 10<br>11. America/Sao_Paulo - Press 11<br>12. America/Joronto - Press 12   |                   |
| 13. nmericarvancouver - fress 13<br>Please select an option from the list above: (blank for default (Default value is<br>5   | 1))               |
|  |                   |
|  |                   |
|  |                   |
|  |                   |
|  |                   |

| dhanashri-conn-545-11   | 🖬 🖬 💼 🏟 Actions 🛞 |
|---|-------------------|
| Timezone set successfully<br>Local time: Thu 2828-82-28 23:<br>Universal time: Thu 2828-82-28 23:<br>RTC time: Thu 2828-82-28 15:86<br>Time zone: America/Los_Angeles<br>NTP enabled: yes<br>NTP synchronized: no<br>RTC in local TZ: yes<br>DST active: no<br>Last DST change: DST ended at<br>Sun 2819-11-83 01:59:59 PDT<br>Sun 2819-11-83 01:98:98 PST                                    |                   |
| Next DST change: DST begins (the clock jumps one hour forward) at<br>Sun 2020-03-00 01:59:59 PST<br>Sun 2020-03-00 03:00:00 PDT   |                   |
| Warning: The system is configured to read the RTC time in the local time zone.<br>This mode can not be fully supported. It will create various problems<br>with time zone changes and daylight saving time adjustments. The RTC<br>time is never updated, it relies on external facilities to maintain it.<br>If at all possible, use RTC in UTC by calling<br>'timedatectl set-local-rtc 8'. |                   |
| 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.

# 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.

Figure 18: Enter NTP Setting



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

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