

Deploy on Microsoft Hyper-V

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	Action	More Information
1.	Review the Release Notes for your AsyncOS release.	Release Notes are available from the locations in Additional Information.
2.	Download the virtual appliance image and MD5 hash from Cisco.	You will need the MD5 hash to check the data integrity of the appliance image. Prepare the Content Secure Image and Files.
3.	Deploy the virtual appliance on Hyper-V.	**1.** Set up the Windows Server Operating System. Ensure that you have installed the required Hyper-V roles. See System Requirements for more information. **2.** Download the image as described in Prepare the Content Secure Image and Files. **3.** Using the Hyper-V Manager, install the virtual appliance image using the New Virtual Machine Wizard and edit the processor setting. For detailed steps, see Deploy a Virtual Appliance on Microsoft Hyper-V, on page 2
4.	If DHCP is disabled, set up the appliance on your network.	If DHCP Is Disabled, Set Up the Appliance on the Network (Microsoft Hyper-V).
5.	Install the license file	Install the Virtual Appliance License File.

	Action	More Information
6.	Log into the web UI of your appliance and configure the appliance software as you would do for a physical appliance. For example, you can: • Run the System Setup Wizard • Upload a configuration file • Manually configure features and functionality.	• For instructions on accessing and configuring the appliance, including gathering required information, see the online help or user guide for your AsyncOS release, available from the relevant location in Additional Information. • To migrate settings from a physical appliance, see the release notes for your AsyncOS release. Feature keys are not activated until you enable the respective features.

Note The following are the limitations for virtual Cisco Secure Web appliances (with FreeBSD 10.x) deployed on Microsoft Hyper-V generation 1 platform:

- It is not possible to modify the virtual appliance interfaces using the **etherconfig** CLI command.
- The **ifconfig** CLI command displays the virtual appliance interface status as Unknown or Simplex even though it runs on Duplex mode.

However, there is no impact on the performance of the appliance due to the above limitations.

Deploy a Virtual Appliance on Microsoft Hyper-V

Before you begin

Download the image as described in Prepare the Content Secure Image and Files.

Procedure

Step 1 Open the Hyper-V Manger and select **Action** > **New** > **Virtual Machine**.

Step 2 In the **New Virtual Machine Wizard**, do the following:

a) Review the **Before You Begin** page and click **Next**.

b) Specify the name and storage location for your virtual machine and then click **Next**.

Note
The virtual machines dynamically increase their storage size, so we recommend you to select a storage location with ample space.

c) Select the generation for the virtual machine and click **Next**.

Note

Some of the older operating systems and hardwares does not support the new features in **Generation 2** virtual machines. If you are using an older hardware or operating system, we recommend you to always select **Generation 1**.

d) Assign the memory that you want to allocate for the virtual machine. Enter the value in MBs and click **Next**.
e) Choose the Cisco VIC Ethernet interface virtual switch from the **Connection** drop-down list and then click **Next**.
f) Choose the option **Use an existing virtual hard disk**. Browse and select the `vhdx.tgz` image that you have downloaded from Cisco.com and then click **Next**.
g) Review the virtual machine details and click **Finish**.

Step 3 Right-click the newly deployed virtual machine and select **Settings**.

Step 4 Select **Processor** and enter the number of processors. For more information on the number processors and NICs required, see Determine the Best-Sized Virtual Appliance Image for Your Deployment to check for the number of processors and NICs required.

Step 5 (Optional) Select **Add Hardware** and add network interfaces for P1 and P2.

Step 6 Select the interfaces and configure VLAN with appropriate values.

Step 7 Click **OK** to save the settings.

Step 8 Right-click the virtual machine and select **connect** to launch the virtual appliance.

If DHCP Is Disabled, Set Up the Appliance on the Network (Microsoft Hyper-V)

Note If you cloned the virtual security appliance image, perform the following steps for each image.

Procedure

Step 1 From the Hyper-V manager console, run **interfaceconfig**.

Step 2 Write down the IP address of the virtual appliance's Management port.

Note
The Management port obtains its IP address from your DHCP server. If the appliance cannot reach a DHCP server, it will use **192.168.42.42** by default.

Step 3 Configure the default gateway using the **setgateway** command.

Step 4 Commit the changes.

Note
The hostname does not update until after you have completed the setup wizard.