

Setting up a Hyper-V Virtual Sensor

https://campus.barracuda.com/doc/19610/

Setting up a Hyper-V virtual sensor requires several steps. Follow the procedures below:

- To download the Hyper-V ZIP
- To create a new Hyper-V virtual switch for mirroring

After you have followed these procedures, contact your Barracuda XDR representative to complete the setup.

The virtual sensor files are large and can take over 100GB of memory when unzipped.

To work properly, the host must have 2 Network Interface Cards.

To download the Hyper-V ZIP

- 1. In Barracuda XDR Dashboard, click Downloads > Virtual Sensors.
- 2. In the **Step 2** box, select **Hyper-V**.
- 3. Click one of the following buttons:
 - Hyper-V ZIP
 - Hyper-V ZIP (Large)
 - The ZIP file downloads.
- 4. Unzip the file.

To create a new Hyper-V virtual switch for mirroring

Before you begin, identify an open physical NIC on the Hyper-V host and make a physical connection to a mirrored pot on the core switch or firewall.

- 1. In Hyper-V manager, in the right navigation panel, click Virtual Switch Manager.
- 2. Click External, then click Create New Virtual Switch.
- 3. Type an appropriate name for the switch. For example, Virtual_Switch_Name.
- 4. Select the physical NIC you identified and designate it as the external NIC to connect.
- 5. Click **OK**.
- 6. On the Hyper-V host, as an Administrator, open a PowerShell session.
- 7. Execute the following commands, which enable the virtual switch to receive packets from the physical mirror port:

```
$a = Get-VMSystemSwitchExtensionPortFeature -FeatureId
776e0ba7-94a1-41c8-8f28- 951f524251b5
$a.SettingData.MonitorMode = 2
add-VMSwitchExtensionPortFeature -ExternalPort -SwitchName
```



<virtual_switch_name> - VMSwitchExtensionFeature \$a, where
<virtual_switch_name> is the name of the virtual switch you identified in Step 4.

- 8. In the right navigation panel, click **Virtual Switch Manager**.
- 9. Click the + button next to the virtual switch you identified in Step 4.
- 10. Click **Extensions**.
- 11. Ensure Microsoft NDIS Capture is selected.
- 12. Click **OK**.

To import the Hyper-V virtual machine

Complete the To download the Hyper-V Zip procedure above before continuing with this procedure.

1. In Hyper-V manager, in the right navigation panel, click **Import Virtual Machine**.

SKWS-CORPIT0140	Virtual Machines	Actions	Actions	
	Name State C	PU Usage Assigned Memory SKWS-CORPIT0140 Image: Sever Seve		
	No virtual r	achine selected.		
	Details			
	No ite	n selected.		

- 2. In the Import Virtual Machine dialog, click Next.
- 3. On the **Locate Folder** page, click Browse and navigate to the folder where you extracted the Hyper-V image.



Import Virtual Machine		X ctions
Locate Fold Before You Begin Locate Folder Select Virbual Machine Choose Import Type Summary	Specify the folder containing the virtual machine to import. Folder: States / uneyes Maching Desistory (EPA4.044) yperv (Ubuntus 18.0440md64) Browse	KWS-CORPIT0140 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

- 4. Click Next.
- 5. On the **Import Virtual Machine** page, enable **Copy the virtual machine (create a new unique ID)**.

Import Virtual Machine		X ons IS-CORPIT0140	
Choose In	nport Type	Quick Create New Import Virtual Machine	
Before You Begin Locate Folder Select Virtual Machine Choose Import Type Summary	Choose the type of import to perform: Choose the virtual machine in-place (use the existing unique ID) Restore the virtual machine (use the existing unique ID) © Copy the virtual machine (create a new unique ID)	import virtual Machine Hyper-V Settings Virtual Switch Manager Virtual SAN Manager Edit Disk Inspect Disk	
		Stop Service Remove Server Refresh View	
		Help	
	< Previous Next > Finals Cancel	1	

- 6. Click Next.
- 7. On the **Connect Network** page, select the **v.switch** you want to use.



Before You Begin Locate Folder Select Virtual Machine Choose Import Type	This page allows you to connect to virtual switches that are available on the destination computer. The following configuration errors were found for virtual machine 'E15 CLIENT1'. Could not find Ethernet switch 'E15-Cloud'.
Connect Network Summary	Specify the virtual switch you want to use on computer " W541". Connection: Not Connected ~ ~

- 8. Click Next.
- 9. On the **Choose Folders for Virtual Machine Files** page, select the following paths:
 - $\circ\,$ Virtual machine configuration folder
 - Checkpoint store
 - Smart Paging folder

Import Virtual Machine Choose Folders for Virtual Machine Files			rS-CORPIT0140 Quick Create New	
Before You Begin Locate Folder Select Virtual Machine Choose Import Type Choose Destination Choose Storage Folders Summary	You can specify new or existing faiders to store the virtual machine files. Otherwise, the witard machine configuration. Image: Store the virtual machine in a different location Virtual machine configuration folder: C:\VirogramData\Microsoft\Windows\Hyper-V\ Brows Checkpoint store: C:\Users\Ameya.Macha\AppData\Local\Temp\hyperv455656806\ubuntu-18.04-amd6* Brows Smart Paging folder: C:\Users\Ameya.Macha\AppData\Local\Temp\hyperv455656806\ubuntu-18.04-amd6* Brows	e	New Import Virtual Machine Hyper-V Settings Virtual SAN Manager Edit Disk Edit Disk Stop Service Remove Server Refresh View Help	
	< Previous Next > Freich Can	cel		

- 10. Click Next.
- 11. On the **Choose Folders to Store Virtual Hard Disks** page, click **Browse** and navigate to the folder where you want to store the hard disks for the virtual machine.



Choose Fo	/S-CORPIT0140 Quick Create	
Before You Begin Locate Folder Select Virtual Machine Choose Import Type Choose Destination Choose Storage Folders Summary	Where do you want to store the imported virtual hard disks for this virtual machine? Location: C:\Lisers\Public\Documents\Hyper-V\Virtual Hard Disks\ Browse	New Import Virtual Machine Hyper-V Settings Virtual Switch Manager Virtual SAN Manager Edit Disk Inspect Disk Stop Service Remove Server Refresh
		View Help
G	< Previous Next > Prish Cancel	

12. On the Completing Import Wizard page, click Next.

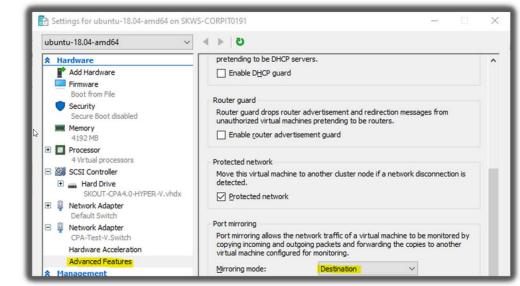
Import Virtual Machine		×	ctions
			KWS-CORPIT0140
Completing Import Wizard		Quick Create New Import Virtual Machine	
Before You Begin Locate Folder Select Wrtual Machine Choose Import Type Choose Destination Choose Storage Folders Summary	Import file: Import Type: Virtual machine configuration folder: Checkpoint folder: Smart Paging file store: Virtual hard disk destination folder:	ubuntu-18.04-amd64 C:\Usery Umeya.Macha\Desktop\CPA4.0+Hyperv\ubuntu-18.04 Copy (generate new ID) C:\ProgramData\Microsoft\Windows\Hyper-V\ C:\Usery Umeya.Macha\papData\Local\Temp\Hyperv45565680 C:\Users\Public\Documents\Hyper-V\Virtual Hard Disks\	Hyper-V Settings Virtual Switch Manager Edit Disk Inspect Disk Stop Service Remove Server Refresh View Help
nsitic	C To complete the import and dose this w	zard, dick Finish.	

13. Click **Finish**.

To set up port mirroring

- 1. In Hyper-V manager, right-click the **Hyper-V SKOUT Sensor**.
- 2. Click **Settings**.
- 3. Click the second **Network Adapter**, and in **Virtual Switch**, select the **v.switch** created above. Click **Apply**.
- 4. Click + button next to **Advanced Features**.
- 5. In the **Port mirroring** section, in **Mirroring mode**, select **Destination**.





- 6. Click Apply.
- 7. In the same **Network Adapter** (the second), in the **Hardware Acceleration** section, clear the **Enable** check box.
- 8. Click **Apply**, then click **OK**.

Additional Port Mirroring Setup from VLAN Traffic Configurations

If your environment uses a VLAN to route traffic, you have to configure Microsoft Hyper-V to accept packets from the designated VLAN identifier range.

To set up VLAN port mirroring

 In Hyper-V Guest, create a NIC designated as management using the following Powershell command: Add-VMNetworkAdapter -VMName
 VirtualMachineName> -Name "Management",

where **<VirtualMachineName>** is the name of the virtual machine.

- Add the port to use as a mirror, for example: Add-VMNetworkAdapter -Vmname
 VirtualMachineName> is the name of the virtual machine.
- 3. Repeat Steps 1 and 2 for each NIC.
- 4. Add the VLAN ID ranges you want to mirror, for example: Set-VMNetworkAdapterVlan -VMName <VirtualMachineName> -VMNetworkAdapterName "mirror" -trunk allowedvlanidlist <VLANIDRange> nativevlanid <VLANIDRange> , where <VirtualMachineName> is the name of the virtual machine and <VLANIDRange> is the range of the VLAN ID.



Barracuda XDR



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