



Configuring VM-FEX for Hyper-V

This chapter includes the following sections:

- [Guidelines and Prerequisites for VM-FEX on Hyper-V, page 1](#)
- [Procedure for Configuring VM-FEX for Hyper-V, page 2](#)

Guidelines and Prerequisites for VM-FEX on Hyper-V

Consider the following guidelines and prerequisites for Cisco UCS Manager when configuring VM-FEX on Hyper-V:

- The host must be managed by Cisco UCS Manager Release 2.1 or later.
- The host adapters must be Cisco VIC adapters.
For more information about installing a Cisco VIC adapter, see the *Cisco UCS 5108 Server Chassis Hardware Installation Guide*.
- The predefined "SRIOV" BIOS policy enables Virtualization Technology (VT), Direct Cache Access, VT For Directed I/O, and Interrupt Remap. Do not change these settings.
- The predefined "SRIOV" adapter policy supports a host with up to 32 CPU threads. For a host with more than 32 threads, you must create a new adapter policy in which the number of interrupts is equal to the number of CPU threads.
- Do not configure more than one dynamic vNIC connection policy on a static vNIC.
- An SR-IOV PF cannot be used as an iSCSI vNIC.

Consider the following guidelines and prerequisites for Microsoft Windows 2012 when configuring VM-FEX on Hyper-V:

- The host operating system must be an edition of Windows Server 2012 or later that includes Hyper-V support.
For more information about installing Microsoft Hyper-V, see the Microsoft Windows Server documentation.
- Microsoft Windows 2008 and 2008 R2 are supported, but VMs running Windows 2012 will benefit from an accelerated I/O path.

Procedure for Configuring VM-FEX for Hyper-V

Before You Begin

Verify that the prerequisites listed in [Guidelines and Prerequisites for VM-FEX on Hyper-V](#), on page 1 are met, including software, host operating system, and BIOS settings.

Procedure

	Command or Action	Purpose
Step 1	In the UCS CLI, configure the dynamic vNIC connection policy, service profile, cluster, and port profile.	For more information, see Configuring UCS Components for VM-FEX .
Step 2	Prepare the host server and VMs and install the Cisco drivers and utilities.	For more information, see Configuring the Hyper-V Host Server .
Step 3	On the Hyper-V host, configure the virtual switch, create the VMs, and attach a port profile.	For more information, see Configuring the Hyper-V Virtual Machines .