在Microsoft Hyper-V Manager上安装和配置 FindIT Network Manager和FindIT Network Probe

目标

Cisco FindIT网络管理提供的工具可帮助您使用Web浏览器轻松监控、管理和配置Cisco 100至500系列网络设备,如交换机、路由器和无线接入点(WAP)。它还会通知您有关设备和 思科支持的通知,如新固件的可用性、设备状态、网络设置更新以及不再在保修期内或支持合 同覆盖的任何已连接思科设备。

FindIT网络管理是一个分布式应用,由两个独立的组件或接口组成:一个或多个探测功能(称 为FindIT Network Probe)和一个称为FindIT Network Manager的管理器。

安装在网络中每个站点的FindIT网络探测实例执行网络发现,并直接与每台思科设备通信。在 单站点网络中,您可以选择运行FindIT网络探测功能的独立实例。但是,如果网络由多个站点 组成,您可以在方便的位置安装FindIT Network Manager,并将每个探测功能与Manager相关 联。从Manager界面,您可以获得网络中所有站点状态的概要视图,并在您希望查看该站点的 详细信息时连接到安装在特定站点的探测功能。

本文提供有关如何在Microsoft Hyper-V Manager上安装和配置FindIT Network Manager和 FindIT Network Probe的说明。

在Microsoft Hyper-V Manager上安装FindIT Network Manager

在Microsoft Hyper-V Manager上安装虚拟交换机

按照以下步骤将虚拟硬盘(VHD)虚拟机(VM)映像部署到Microsoft Hyper-V管理器。

步骤1.在Windows Server或计算机上启动Hyper-V管理器。



注意:在本例中,使用Windows 10。

步骤2.选择"Virtual Switch Manager"。

Actions			
CIS	co 🔺		
	New 🕨		
r <mark>b</mark>	Import Virtual Machine		
*	Hyper-V Settings		
₿ 1	Virtual Switch Manager		
	Virtual SAN Manager		
2	Edit Disk		
-	Inspect Disk		
	Stop Service		
\mathbf{X}	Remove Server		
υ	Refresh		
	View 🕨		
?	Help		

步骤3.在Virtual Switches区域下,单击New Virtual network switch以添加虚拟交换机。

🚰 Virtual Switch Manager for CISCO



步骤4.在窗口的左侧,在Name字段中输入虚拟交换机的名称。

🚜 Virtual Switch Properties —				
Name:				
Intel Virtual Switch				
Notes:				
	· · · · · · · · · · · · · · · · · · ·			
	×			

注意:在本例中,使用英特尔虚拟交换机。

步骤5.单击"**外部网**络",然后从下拉列表中选择适配器。

Connection type	
What do you want to connect this virtual switch to?	
External network:	
Intel(R) 82579LM Gigabit Network Connection	~
Allow management operating system to share this network adapter	
Internal network	
O Private network	

注意:在本例中,选择Intel(R)82579LM千兆网络连接。

步骤6.确保选中"允**许管理操作系统共享此网络适配器**"复选框。这意味着管理操作系统将有权 访问所选的物理网络适配器。

Connection type What do you want to connect this virtual switch to?	
External network:	
Intel(R) 82579LM Gigabit Network Connection	\sim
Allow management operating system to share this network adapter	
O Internal network	
O Private network	

步骤7.单击"应用",然后单击"确定"。

Name:		
Intel(R) 82579LM - Virtual Switch	
Notes	:	
		~
-		~
-Conr Wh	nection type at do you want to connect this virtual switch to?	
۲	External network:	
0	Intel(R) 82579I M Gigabit Network Connection	~
	Allow management operating system to share this network adar	ater
~		Juei
0		
	ID Enable virtual LAN identification for management operating system	
	chable virtual card dentification for management operating system	
The	VLAN identifier specifies the virtual LAN that the management oper tem will use for all network communications through this network add	ating apter, This
set	ting does not affect virtual machine networking.	
	2	
		_

新虚拟交换机应显示在"虚拟交换机"区域下。

🚰 Virtual Switch Manager for CISCO

*	Virtual Switches	
📲 New virtual network switch		
Intel Virtual Switch Intel(R) 82579LM Gigabit Net		
🛃 Extensions		
*	Global Network Settings	

使用Microsoft Hyper-V Manager安装FindIT Network Manager

按照以下步骤将虚拟硬盘(VHD)虚拟机(VM)映像部署到Microsoft Hyper-V管理器。

步骤1.从思科S系列站点下载FindIT Network Manager VHD VM映<u>像,然</u>后提取到您的首选位 置。

步骤2.在Hyper-V管理器上,单击"操作">"导入虚拟机"。

yper-V Manager					
Action View Help					
New	>				
Import Virtual Machine					
Hyper-V Settings					
Virtual Switch Manager					
Virtual SAN Manager	Virtual SAN Manager				
Edit Disk	Edit Disk				
Inspect Disk	Inspect Disk				
Stop Service					
Remove Server	Remove Server				
Refresh	Refresh				
Help					
	Action View Help New Import Virtual Machine Hyper-V Settings Virtual Switch Manager Virtual SAN Manager Edit Disk Edit Disk Inspect Disk Stop Service Remove Server Refresh Help				

步骤3.单击"浏览",在步骤1中找到下载的VHD文件。

Specify the folder containing the virtual machine to import.

Folder:



步骤4.浏览FindITNetworkManager文件夹,然后单击"选择文**件夹"**。

Name	Date modified	Туре
Snapshots	8/28/2016 7:33 PM	File folder
Virtual Hard Disks	10/7/2016 11:52 AM	File folder
Virtual Machines	10/7/2016 11:53 AM	File folder

<			
er:	FindITNetworkManager		
		Select Folder	Cancel

步骤5.单击"下**一步"**。

Specify the folder containing the virtual machine to import.				
Folder: SHOTS\FindIT\CentOS68-F	Browse			
	< Previous	Next >	Finish	Cancel

步骤6.再次单**击"下**一步"。

Select the virtual machine to import:

Name	х.	Date Created
FindITNetworkManager		8/26/2016 3:28:19 PM
	< Previous Next >	Finish Cancel

步骤7.单击"复**制虚拟机"(创建新的唯一ID),然**后单击"下**一步**"。

Choose the type of import to perform:		
O Register the virtual machine in-place (use the existing unique ID)		
Restore the virtual machine (use the existing unique ID)		
Ocopy the virtual machine (create a new unique ID)		
< Previous Next >	Finish	Cancel

步骤8.单击Next将VM存储在指定位置。

注意:或者,您可以选中"将虚**拟机存储到不同位置"复选框**以更改指定的位置。

You can specify new or existing folders to store the virtual machine files. Otherwise, the wizard imports the files to default Hyper-V folders on this computer, or to folders specified in the virtual machine configuration.

Store the virtual machine in a different location	
Virtual machine configuration folder:	
C:\ProgramData\Microsoft\Windows\Hyper-V\	Browse
Checkpoint store:	
C:\ProgramData\Microsoft\Windows\Hyper-V\	Browse
Smart Paging folder:	
C:\ProgramData\Microsoft\Windows\Hyper-V\	Browse
< Previous Next > Finish	Cancel

步骤9.再次单**击"下**一步"。

Where do you want to store the imported virtual hard disks for this virtual machine?				
Location: C:\Users\Public\Documents\Hyper-V\Virtual Hard Disks\	Browse			
< Previous Next > Finish	Cancel			

步骤10.查看说明,然后单击**完成**。

You are about to perform the following operation.

-		
Dec	crip	tion
	uip	uon.

Virtual Machine:	FindITNetworkManager		
Import file:	C:\Users\CISCO\Documents\FindIT\CentOS68-FindITManager-:		
Import Type:	Copy (generate new ID)		
Virtual machine configuration folder:	C:\ProgramData\Microsoft\Windows\Hyper-V\		
Checkpoint folder:	C:\ProgramData\Microsoft\Windows\Hyper-V\		
Smart Paging file store:	C:\ProgramData\Microsoft\Windows\Hyper-V\		
Virtual hard disk destination folder:	C: \Users \Public \Documents \Hyper-V \Virtual Hard Disks \		
<	>		
Fo complete the import and close this v	wizard, dick Finish.		

注意:成功部署FindIT Network Manager后,该管理器将显示在虚拟机列表中。

步骤11.右键单击VM,然后单击Connect打开VM控制台。

Hyper-V Manager				
File Action View	Help			
🗢 🄿 🖄 📰 🛛				
Hyper-V Manager	Virtual Machines			
	Name	State	CPU Usage	Assigned
	FindIT Network Manager	Off	Connect	
			Settings	
			Start	
			Checkpoint	
			Move	
			Export	
	<		Rename	
	Checkpoints		Delete	
		The	Help	

步骤12.单击新虚拟机,然后单击"操作"**>"开始"**打开虚拟机的电源。



您现在应该已在Microsoft Hyper-V管理器上部署FindIT Network Manager VM。

配置已部署的FindIT网络管理器

使用首选虚拟机完成FindIT Network Manager的部署后,按照以下步骤配置VM。

步骤1.使用默认用户名和密码登录控制台:思科/思科。

FindITManager login: **cisco** Password: **cisco**

步骤2.提示您更改思科帐户的密码后,输入当前密码。

CentOS release 6.8 (Final) Kernel 2.6.32-642.3.1.el6.x86_64 on an x86_64

FindITManager login: cisco Password: You are required to change your password immediately (root enforced) Changing password for cisco. (current) UNIX password:

步骤3.输入并重新键入思科帐户的新密码。

CentOS release 6.8 (Final) Kernel 2.6.32-642.3.1.el6.x86_64 on an x86_64 FindITManager login: cisco Password: You are required to change your password immediately (root enforced) Changing password for cisco. (current) UNIX password: New password: Retype new password:

将显示DHCP IP地址和管理GUI地址。

CentOS release 6.8 (Final)
Kernel 2.6.32-642.3.1.el6.x86_64 on an x86_64
FindITManager login: cisco Password: You are required to change your password immediately (root enforced) Changing password for cisco. (current) UNIX password: New password: Retype new password:
FindIT Manager (1.0.0.20160928-beta) Powered by CentOS release 6.8 (Final) IP Address: 192.168.1.101 Administration GUI: https://192.168.1.101
Enter 'sudo config_vm' to change platform settings and set a static IP a
 [cisco@FindITManager ~]\$ _

注意:在本例中,FindIT Network Manager的IP地址为192.168.1.101,管理GUI地址为 https://192.168.1.101。

步骤4.输入sudo config_vm命令以启动初始设置向导。

[cisco@FindITManager cisco]\$ sudo config_vm

步骤5.输入sudo的密码。默认密码为cisco。如果更改了密码,请输入新密码。

[cisco@FindITManager ~]\$ cd /opt/cisco [cisco@FindITManager cisco]\$ sudo config_vm [sudo] password for cisco:

步骤6.在设置向导中**输入**y表示是或n表示否,以配置主机名、网络、NTP服务器和时区。

Config a hostname ? (y/n) : y

步骤7.(可选)如果在配置网络时指定了DHCP,请输入ifconfig命令检查分配的IP地址并记住 它。也可以配置静态IP。

[cisco@FindITManager cisco]\$ ifconfig

现在,您应该已在VM上完成FindIT Network Manager安装。

要了解如何访问和配置FindIT网络管理器的初始设置,请单击<u>此处</u>获取说明。

在Microsoft Hyper-V Manager上安装FindIT网络探测功能

安装FindIT网络探测

按照以下步骤将VHD VM映像部署到Microsoft Hyper-V Manager。

步骤1.从思科S系列站点下载FindIT网络探测VHD_VM映像。

步骤2.在Windows Server或计算机上启动Hyper-V管理器。



注意:在本例中,使用Windows 10。

步骤3.在Hyper-V管理器上,单击"操作">"导入虚拟机"。

Hyper-V Manager Action View File Help New > Import Virtual Machine... H Hyper-V Settings... Virtual Switch Manager... Virtual SAN Manager... Edit Disk... Inspect Disk... Stop Service Remove Server Refresh Help

步骤4.单击"浏览"并在步骤1中找到下载的VHD文件。



步骤5.浏览FindITNetworkProb文件夹,然后单击"选择文件夹"。



<		
r: FindITNetworkProb		
	Select Folder	Cancel

步骤6.单击"下**一步"**。

Specify	the folder containing the virtual machine to import.	
Folder:	FindIT\CentOS68-FindITManager-1.0.0.201610210.S68\FindITNetworkProb	Browse
	< Previous Next > Finish	Cancel

步骤7.再次单**击"下**一步"。

Select the virtual machine to import:

Name	^	Date (Created	
FindITNetworkProb		8/29/2	016 10:32:54 AM	
	< Previous	Next > Fi	nish Cance	1

步骤8.单击"复**制虚拟机"(创建新的唯一ID),然**后单击"下一步"。

Choose the type of import to perform:
 Register the virtual machine in-place (use the existing unique ID)
O Restore the virtual machine (use the existing unique ID)
Ocopy the virtual machine (create a new unique ID)
< Previous Next > Finish Cancel

步骤9.单击Next将VM存储在指定位置。

注意:或者,您可以选中"将虚**拟机存储到不同位置"复选框**以更改指定的位置。

You can specify new or existing folders to store the virtual machine files. Otherwise, the wizard imports the files to default Hyper-V folders on this computer, or to folders specified in the virtual machine configuration.

Browse
Browse
Browse
Cancel

步骤10.再次单**击"下**一步"。

Where do you want to store the imported virtual hard disks for this virtual machine?					
Location:	C:\Users\Public\Documer	nts\Hyper-V\Virtual	Hard Disks\		Browse
		< Previous	Next >	Finish	Cancel

步骤11.查看说明,然后单击**完成**。

You are about to perform the following operation.

_			
Descr	ID	tion	۰.
Deser	÷	u o i	

Virtual Machine:	FindITNetworkProb		
Import file:	C:\Users\CISCO\Documents\FindIT\OpenWRT-FindITProbe-1.		
Import Type:	Copy (generate new ID)		
Virtual machine configuration folder:	C:\ProgramData\Microsoft\Windows\Hyper-V\		
Checkpoint folder:	C:\ProgramData\Microsoft\Windows\Hyper-V\		
Smart Paging file store:	C:\ProgramData\Microsoft\Windows\Hyper-V\		
Virtual hard disk destination folder:	C: \Users \Public \Documents \Hyper-V \Virtual Hard Disks \		
4			
o complete the import and close this v	vizard, dick Finish.		
	< Previous Next > Finish Cancel		

步骤12.右键单击VM,然后单击"连接"**以打**开VM控制台。

Virtual Machines						
Name	State	CPU	Usage	Assigned N	Memory	Uptime
FindIT Network Probe	Off					
🗄 Findl I Network Manager	Running		Settings Start			00:05:42
			Checkpo	oint		
			Move			
			Export			
<			Rename			
Checkpoints			Delete			
	The se	le	Help		ckpoints.	

步骤13.单击新VM,然后单击Action > Start打开VM。

🕎 F	indIT Network Probe on	CISCO - Virtual Mac	hine Connection
File	Action Media View	Help	_
6n	Ctrl+Alt+Delete	Ctrl+Alt+End	
	Start	Ctrl+S	
	Shut Down	Ctrl+D	
	Save	Ctrl+A	
	Pause	Ctrl+P	
	Reset	Ctrl+R	
	Checkpoint	Ctrl+N	
	Revert	Ctrl+E	ndIT Network Probe

配置已部署的FindIT网络探测

完成部署后,按照以下步骤配置VM。

步骤1.使用默认用户名和密码登录控制台:思科/思科。

FindITProbe login: **cisco** Password: **cisco**

系统将提示您更改思科帐户的密码。将显示DHCP IP地址和管理GUI地址。

BusyBox	v1.23.2	(2016-09	9-02 1	7:15:18	CST)	built-in	shell	(ash)
	 	;; ; ;	 		 i	 	 	
Find IT Powered	Probe () d by Open	1.0.1.163 nWrt CHA	301) JS CAL	MER (15	.05, r	•47955)		
IP Addı Enter	ress: 192 'config_v	2.168.1.: vm' to cl	102 hange	Admini: platfor	strati M sett	ion GUI: } ings and	nttps:/ set a	⁄∕192. stati
 Changing New pas:	g passwo sword: _	rd for c	isco					

注意:在本例中,FindIT网络探测的IP地址为192.168.1.102。

步骤2.输入并重新键入思科帐户的新密码。

```
Changing password for cisco
New password:
Retype password:
Password for cisco changed by cisco
cisco@FindITProbe:~#__
```

步骤3.(可选)输入ifconfig命令以查找FindIT Network Probe的IP地址。

lITProbe:~# ifconfig
Link encan:Ethernet HWaddr 00:0C:29:6F:2E:DD
inet addr:192.168.1.102 Bcast:192.168.1.255 Mask:
inet8 addr. fe6828c.23ff:fe6f:2edd/64 Scope:Link
inet6 addr: fec0::20c:29ff:fe6f:2edd/64 Scope:Site
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:149596 errors:0 dropped:0 overruns:0 fra
TX packets:205206 errors:0 dropped:0 overruns:0 car
collisions:0 txqueuelen:1000
RX bytes:26494354 (25.2 MiB) TX bytes:183876308 (1
Link encap:Local Loopback inet addr:127.0.0.1 Mask:255.0.0.0 inet6 addr: ::1/128 Scope:Host UP LOOPBACK RUNNING MTU:65536 Metric:1
RX packets:73994 errors:0 dropped:0 overruns:0 fram
TX packets:73994 errors:0 dropped:0 overruns:0 carr
collisions:0 txqueuelen:0
RX bytes:33273411 (31.7 MiB) TX bytes:33273411 (31

您现在应该已在计算机上配置了FindIT网络探测功能。

要了解如何访问和配置FindIT网络探测功能的初始设置,请单击<u>此处</u>获取说明。要了解如何将 FindIT Network Probe与FindIT Network Manager关联,请单击<u>此处</u>获取说明。