採用Hyper-V的Nexus 1000v快速入門伺服器配置 示例

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簡介

System Center Virtual Machine Manager(SCVMM)。 還介紹了如何安裝和配置Cisco Nexus 1000v系列交換機,以及如何將虛擬機器(VM)新增到Nexus 1000v。

必要條件

需求

本文檔介紹MS Windows Hyper-V Server 2012和Cisco Nexus 1000v系列交換機。但是,您應該對 基本Windows功能的配置和安裝有一些經驗/知識,例如故障轉移群集。

以下是此部署的要求:

- Active Directory
- 網域名稱伺服器(DNS)
- 兩台管理/基礎架構Hyper-V主機
- •至少一個資料Hyper-V主機
- SCVMM伺服器
- Windows 2012快速伺服器

此映像取自《Cisco Nexus 1000v系列交換機部署指南》:



採用元件

此部署使用Microsoft Hyper-V 2012 Server 2012、用於Hyper-V的Nexus 1000v和SCVMM。

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除(預設))的組態來啟動。如果您的網路正在作用,請確保您已瞭解任何指令可能造成的影響。

背景資訊

Hyper-V核心與Windows Server 2012並行發佈。它只運行Server 2012的伺服器核心安裝(這意味 著沒有GUI,只有CLI),並且只運行Hyper-V和某些相關角色,如群集。其優勢在於Hyper-V核心 除了支援外完全免費。

安裝Windows Hyper-V Server

Hyper-V伺服器安裝與任何其他Windows安裝一樣,這意味著您必須完成以下步驟:

- 1. 如果使用儲存區域網路(SAN)儲存,則將儲存路徑減少為1。
- 2. 使用安裝嚮導安裝所需的驅動程式。

Hyper-V Server安裝過程不屬於本文檔的範圍。但是,它的工作方式與任何其他Windows安裝類似。

Windows核心簡介

MS正在推廣2008年推出的伺服器核心。Hyper-V的免費版本僅隨Windows核心提供。但是,如果安裝完整,則可以在兩者之間移動並重新啟動。

登入到Windows Core時,有兩個視窗?正常命令提示符和系統配置嚮導。

C=1.	C:\Windows\System32\cmd.exe - C:\Windows\system32\sconfig.cmd							
==:	Server Configuration							
1) 2)	Domain/Workgroup: Computer Name:	Workgroup: WORKGROUP WIN-JK7CERTKJA8						
3) 4)	Add Local Administrator Configure Repote Management	Enabled						
52	Windows Update Settings: Download and Install Undates	Manual						
γŚ	Remote Desktop:	Disabled						
8) 9)	Network Settings Date and Time	No active network adapters found.						
1Ó)	Help improve the product with CEIP	Not participating						
11) 12)) Log Off User Restart Server							
13) 14)) Shut Down Server) Exit to Command Line							

此處有許多選項可用於執行基本安裝/維護。第一步是為網路介面控制器(NIC)卡安裝驅動程式,下 一節將介紹這些驅動程式。

要從命令提示符進入PowerShell,請鍵入PowerShell。

04.	Administrator: Windows PowerShell
Mic	rosoft Windows [Version 6.2.9200]
(c)	2012 Microsoft Corporation. All rights reserved.
C:\	Windows\system32>powershell
Win	adows PowerShell
Cor	byright (C> 2012 Microsoft Corporation. All rights reserved.
PS	C:\Windows\system32>

如果意外關閉CLI視窗,請按**ctrl+alt+del**,然後開啟**工作管理員**以再次啟動它:

R			Task Manag	ger	
File Opt	ions View				
Processes	Performance	Users Details	Services		
	*			0%	4%
Nam	,	Create	e new task		x
App					
⊳ d (resource	e name of a prog e, and Windows v	ram, folder, docur vill open it for you	nent, or Internet	ИВ
Bac)pen: cmd.ex	e		~	
E	😗 Thi	s task will be crea	ated with administ	rative privileges.	ИВ
⊳∢					ИВ
Þ		ОК	Cancel	Browse	ИВ
Wir					
	lient Server Runti	me Process		0.1%	0.9 MB

如果關閉系統配置嚮導視窗,請鍵入config.cmd 以再次開啟它。

安裝驅動程式

安裝網路通訊所需的乙太網路介面控制器(ENIC)驅動程式。

- 1. 將驅動程式光碟安裝在鍵盤/影片/滑鼠(KVM)視窗的虛擬介質中。
- 2. 登入到Windows主機的控制檯時,會看到伺服器配置實用程式。鍵入**14**以進入CLI提示符或使 用開啟的另一個視窗。

C=1.	C:\Windows\System32\cmd.exe - C:\Windows\system32\sconfig.cmd							
	Server Configuration							
1) 2)	Domain/Workgroup: Computer Name:	Workgroup: WORKGROUP WIN-JK7CERTKJA8						
3) 4)	Configure Repote Management	Enabled						
52 62	Windows Update Settings: Download and Install Undates	Manual						
ΫŚ	Remote Desktop:	Disabled						
8) 9)	Network Settings Date and Time	No active network adapters found.						
10	Help improve the product with CEIP	Not participating						
11) 12) 13) 14)) Log Off User) Restart Server) Shut Down Server) Exit to Command Line							

3. 輸入PowerShell命令以進入PowerShell(之前,您只是在Windows命令提示符下)。



4. 使用**Get-PSDrive輕量**命令(cmdlet)列出所有可用的驅動器,包括您的CD驅動器。在這種情況下,光碟機是**E:**。

Administrator: Windows PowerShell								
C:\W\ndows\system32>powershell Windows PowerShell Copyright (C> 2012 Microsoft Corporation. All rights reserved.								
PS C:\Windows\system32> PS C:\Windows\system32> PS C:\Windows\system32> Get-PSDrive								
Name	Used (GB)	Free (GB)	Provider	Root				
 Ĥ 61ias			FileSystem	A:\				
C C Cert	12.53	67.13	FileSystem Certificate	C:\				
E Env	.78		FileSystem FileSystem Environment	E:\				
Function HKCU HKLM Variable WSMan			Function Registry Registry Variable WSMan	HKEY_CURRENT_USER HKEY_LOCAL_MACHINE				
PC C:\Uindoue\	custam395							

5. 導航到要安裝的驅動程式資料夾。

ON.	Adm	inis	strato	r: Windows I	PowerShell				
PS PS PS	S C:\Windows\system32> cd E:\ S E:\> cd .\Windows\Network\Cisco\MLOM\W2K12\x64 S E:\Windows\Network\Cisco\MLOM\W2K12\x64> ls								
	Directory: E:\Windows\Network\Cisco\MLOM\W2K12\x64								
Mod	e LastWrit	eT	ime	Length	Nane				
d 	4/19/2013 5: 11/16/2012 7: 11/1/2012 6: 11/1/2012 6: E:\Windows\Network\Cisco\	44 43 43 ML	PM PM PM PM 0M\W2	8444 6224 147560 K12\x64>	edump enic6x64.cat enic6x64.inf enic6x64.sys				

6. 使用pnputil - i - a .\[driver].inf命令安裝驅動程式。

C:¥.	Administrator: Windows PowerShell
PS	C:\Users\Administrator> cd E:\Windows\Network\Cisco\MLOM\W2K12\x64
PS	E:\Windows\Network\Cisco\MLOM\W2K12\x64>
PS	E:\Windows\Network\Cisco\MLOM\W2K12\x64>
PS	E:\Windows\Network\Cisco\MLOM\W2K12\x64> pnputil -i -a .\enic6x64.inf
Mic	crosoft PnP Utility
Pro	ocessing inf : enic6x64.inf
Suc	ccessfully installed the driver on a device on the systex.
Dri	iver package added successfully.
Pul	blished name : oem1.inf
Tot	tal attempted: 1
Nur	nber successfully imported: 1
PS	E:\Windows\Network\Cisco\MLOM\W2K12\x64>

7. 驗證是否已安裝驅動程式。此命令因驅動程式而異;若為ENIC,請運行ipconfig命令。

Administrator: Windows PowerShell
PS`E:\Windows\Network\Cisco\MLOM\W2K12\x64> ipconfig
Windows IP Configuration
Ethernet adapter Ethernet 3:
Connection-specific DNS Suffix . : rtp-sv.cisco.com Link-local IPv6 Address : fe80::3959:fd23:2afe:4547%20 IPv4 Address : 14.17.124.84 Subnet Mask : 255.255.255.0 Default Gateway : 14.17.124.254
Ethernet adapter Ethernet 2:
Connection-specific DNS Suffix . : rtp-sv.cisco.com Link-local IPv6 Address : fe80::149:152d:639c:501f%16 IPv4 Address : 14.17.124.83 Subnet Mask : 255.255.255.0 Default Gateway : 14.17.124.254

8. 如果使用DHCP,則地址應已準備就緒。否則,請返回伺服器配置嚮導,並使用**config.cmd** 命 令配置IP地址。

將Hyper-V伺服器新增到域

Windows依賴於一組複雜的信任域。若要將Hyper-V伺服器新增到SCVMM或遠端管理伺服器,您必 須是同一域的成員。對於域/工作組信任,有其他解決此問題的方法,但它們不在本文檔的討論範圍 之內。

1. 輸入sconfig.cmd命令以啟動伺服器配置嚮導。

C:\Windows\System32\cmd.exe - C:\Windows\system32\sconfig.cmd C:1. Server Configuration Workgroup: WORKGROUP WIN-JK7CERTKJA8 1) Domain/Workgroup: 2) Computer Name: 3) Add Local Administrator 4) Configure Remote Management Enabled 5) Windows Update Settings: 6) Download and Install Updates Manual 7) Remote Desktop: Disabled 8) Network Settings 9) Date and Time No active network adapters found. 10) Help improve the product with CEIP Not participating 11) Log Off User 12) Restart Server 13) Shut Down Server 14) Exit to Command Line

2. 輸入1以啟動域嚮導。本指南將指導您完成將伺服器新增到域的過程。

Administrator: Windows PowerShell
2) Restart Server 3) Shut Down Server 4) Exit to Command Line
nter number to select an option: 1
hange Domain/Workgroup Membership
oin (D)omain or (W)orkgroup? (Blank=Cancel) D
oin Domain ame of domain to join: rtp-sv.cisco.com pecify an authorized domain\user: administrator
oining rtp-sv.cisco.com
omputer Name
nter new computer name (Blank=Cancel): chrisb2-hyperv1 hanging Computer name
pecify an authorized domain\user: administrator

- 3. 使用您的域,並使用正確的憑據登入。
- 4. 如果沒有顯示指示設定已生效的視窗,請使用shutdown r命令重新啟動電腦,以使新設定生效。
- 5. 使用Jumpserver上的DNS管理器為主機新增DNS條目。

啟用遠端訪問

遠端訪問伺服器核心有許多方法。最好的是Microsoft管理控制檯(MMC)。

MMC

- 1. 在主機上運行netsh advanced firewall set allprofiles state off。
- 2. 在Windows 2012 Jumpserver中,開啟Server Manager,然後按一下右鍵All Servers。
- 3. 搜尋您的主機,並將其新增到伺服器管理器。

Local Server		Filter		0			
All Servers		ruci		~			
File and Storage Services	⊳	Server Name	IPv4 Address				Manageability
🗄 Hyper-V		CB-HYPERV2	14.17.124.31,14	.17.124.80,14.1	7.124.86,14	.17.124.87	Online - Performance counters not
	6				Add	Servers	
	Ar S N	ctive Directory earch: chrisb2-h lame hrisb2-hyperv2.r	DNS hyperv2.rtp-sv.cis	Import sco.com IP Address 14.17.124.3	;		Selected Computer

現在,您可以像在本地電腦上一樣使用伺服器管理器。

遠端案頭

從命令提示符運行cscript C:\Windows\System32\Scregedit.wsf /ar 0,以便為管理員啟用遠端案頭 連線。

C:¥.	Administrator: Windows PowerShell
PS	C:\>
PS	C:\> cscript C:\Windows\System32\SCregEdit.wsf /ar 0
Mic	crosoft (R) Windows Script Host Version 5.8
Coj	pyright (C) Microsoft Corporation. All rights reserved.
Reg	gistry has been updated.
PS	C:\>_

您現在可以使用具有管理員訪問許可權的帳戶訪問遠端案頭協**議(**RDP)。您也可以使用選項7從配置 嚮導啟用此功能。

Windows遠端外殼

1. 運行WinRM quickconfig以啟用遠端命令提示。



2. 從同一域上的電腦運行winrs - r:[serverName] [command] 命令。



遠端PowerShell

這與遠端Shell類似,但它為您提供完整的PowerShell訪問許可權,並允許您連線到遠端電腦,如安 全外殼(SSH)。

1. 在遠端主機上,運行Enable-PSRemoting - Force命令。

PS C:\Users\Administrator> Enable-PSRemoting -Force WinRM is already set up to receive requests on this computer. WinRM is already set up for remote management on this computer. PS C:\Users\Administrator> _

2. 在遠端電腦上運行Enter-PSSession - ComputerName [computer_name]。

Command Prompt - powershell C:\Users\chrisb2> PS C:\Users\chrisb2> Enter-PSSession -ComputerName chrisb2-hyperv1 [chrisb2-hyperv1]: PS C:\Users\chrisb2\Documents> [chrisb2-hyperv1]: PS C:\Users\chrisb2\Documents> [chrisb2-hyperv1]: PS C:\Users\chrisb2\Documents> ipconfig Windows IP Configuration Ethernet adapter Ethernet 3: Connection-specific DNS Suffix Link-local IPv6 Address . . . IPv4 Address : rtp-sv.cisco.com : fe80::3959:fd23:2afe:4547%14 : 14.17.124.84 : 255.255.255.0 : 14.17.124.254 Subnet Mask . Default Gateway Ethernet adapter Ethernet 2: Connection-specific DNS Suffix Link-local IPv6 Address IPv4 Address. rtp-sv.cisco.com fe80::149:152d:639c:501f%13 14.17.124.30 255.255.255.0 -. -Subnet Mask . Default Gateway 17. 14

安裝其他角色

將伺服器新增到jumpserver的MMC後,您可以從jumpserver運行**新增/刪除角色和功能**嚮導,並將角 色新增到遠端伺服器,就像任何其他伺服器一樣。現在執行此操作,以便在需要時安裝多路徑 I/O(MPIO),以及Hyper-V群集所需的故障轉移群集功能。

- 1. 開啟伺服器配置實用程式。
- 2. 導航到管理>新增角色和功能。
- 3. 選擇Hyper-V伺服器。
- 4. 如果您使用光纖通道(FC)和Failover Clustering,請安裝MPIO。
- 5. 對第二個主機重複此操作。

其他配置

1. 在命令提示符中使用mpiocpl命令,以便在安裝該功能後啟動MPIO嚮導。

 要通過CLI配置磁碟,請使用以下命令: Get-disk以列出可用磁碟Set-disk - number X - IsOffline \$false以使磁碟聯機Initialize-Disk X以 初始化磁碟New-Partition [Disk_Number] - UseMaximumSize - MBRType -AssignDriveLetter以建立分割槽Format-Volume - DriveLetter [DriveLetter]以格式化驅動器

3. 從jumpserver啟動Clustering(集群)嚮導,將兩台主機新增到集群。

將Hyper-V主機新增到SCVMM

現在,您已完成基本的Windows安裝 — 已安裝驅動程式,配置IP,您位於域中,您可以遠端管理該 盒。現在應該將主機新增到SCVMM(相當於vCenter)。如果您有運行Hyper-V管理器的主機,可 以將該主機指向您的主機以對其進行管理。但是,這是基本管理,類似於直接登入ESXi主機而不是 vCenter。 本節介紹如何將新調配的Hyper-V主機新增到SCVMM。

- 1. RDP到您的快速伺服器,並使用您的域帳戶登入。
- 2. 從案頭啟動Virtual Machine Manager控制檯。如果未安裝此程式,可以從SCVMM ISO進行安裝。

	· · · · ·		
Recycle Bin			
Virtual Machine Manager Console			

3. 將控制檯指向SCVMM伺服器,然後按一下使用當前Microsoft Windows會話標識單選按鈕。

8	Connect to Server		x
Micr Sy	vstem Center 2012		
Vir	tual Machine Manager		
Server name:	rtp-sv-svcmm.cisco.com:8100 Example: vmmserver.contoso.com:8100]
 Use current 	Microsoft Windows session identity		
O Specify created	dentials		
User name:	Example: contoso\domainuser		
Password:]
Automatically	connect with these settings Connect	t Cancel	

4. 您現在在SCVMM中。按一下右鍵All Hosts資料夾,然後選擇Create Host Group。用描述性標 題命名它。

Administrator - rtp-svscvmm.rtp-sv.cisco.com - Virtual Machine Manager							
Home	Folder						
ጷ 👔	* 👛 📑	逸.			1	<u>.</u>	PowerShell
Create Create V Service Machi	/irtual Create Create Host ne ▼ Cloud Group	Create VM Network	Assign Cloud	Overview	VMs Services	VM Networks	RO PRO
	Create		Cloud		Show		Window
VMs and Services	٠	VMs (0)					
🥵 Tenants							
a Clouds		Name	Sta	atus 🏾	Virtual M 👻	Availability	S Host
📥 VM Networ	rks						
Storage							
A C All Hosts							
Chris 🍄	Create Service						
🔺 🚞 mwi 🦉	Create Virtual Machine						
🦉 m 🛅	Add Hyper-V Hosts and Cl	usters					
🦉 m 🗎	🗿 m 📋 🛛 Add Citrix XenServer Hosts						
1	Add VMware ESX Hosts an	d Clusters					
<u></u>	Create Host Group						
1	Move						
	View Networking						
×	Delete						
(Fine)	Properties						

5. 按一下右鍵新建立的主機組,然後選擇新增Hyper-V主機和群集。



6. 按一下受**信任的Active Directory域中的Windows Server電腦**單選按鈕。

Add Resource Wizard
location
Indicate the Windows computer location
Windows Server computers in a trusted Active Directory domain
O Windows Server computer in an untrusted Active Directory domain
O Windows Server computers in a perimeter network
If you select this option, before you continue, use VMM Setup to install the VMM agent locally on the targeted computers. Ensure that you configure the perimeter network settings during the agent setup.
O Physical computers to be provisioned as virtual machine hosts
Select this option to add bare-metal computers with baseboard management controllers.

7. 按一下Use an existing Run As account單選按鈕。這是嚮導用於登入所新增主機的帳戶。

1	Add Resource Wizard
😭 Credentia	ls
Resource location	Specify the credentials to use for discovery
Credentials	The Run As account or credentials will be used to discover computers and to install the Hyper-V role and
Discovery scope	the Virtual Machine Manager agent if necessary.
Target resources	Use an existing Run As account
Host settings	Run As account: Administrator Browse
	O Manually enter the credentials
Summary	User name:
	Example: contoso\domainuser
	Password:

8. 輸入需**要新增**的伺服器的DNS名稱。

1	Add Resource Wizard
👌 Discover	y scope
Resource location	Specify the search scope for virtual machine host candidates
Credentials	Search for computers by whole or partial names, FQDNs, and IP addresses. Alternatively, you may
Discovery scope	generate an Active Directory query to discover the desired computers.
Target resources	Specify an Active Directory query to search for Windows Server computers
Host settings Migration Settings	Enter the computer names of the hosts or host candidates that you want VMM to manage. Each computer name must be on a separate line.
Summary	Computer names:
	chrisb2-hyperv1.rtp-sv.cisco.com

9. 在下一個螢幕上,選擇**必須新增的已發現伺服器**。如果在此螢幕上看不到伺服器,請返回並修 改搜尋引數。

1	Add Resou	rce Wizard	
臂 Target reso	ources		
Resource location Credentials	Select the computers that yo Discovered computers:	ou want to add as hosts	
Discovery scope	Computer Name	Operating System	Hypervisor
Target resources	Chrisb2-hyperv1.rtp-sv.cisco	.com Hyper-V Server 2012	Hyper-V
Host settings			
Migration Settings			
Summary			

10. 根據需要修改設定。例如,您可以變更預設路徑。

1	Add Resource Wizard	×
📍 Host settir	ngs	
Resource location Credentials Discovery scope	Specify a host group and virtual machine placement path settings for hosts Assign the selected computers to the following host group: Host group:	•
Host settings	If any of the selected hosts are currently managed by another Virtual Machine Manager (VMM) environment, select this option to reassociate the hosts with this VMM management server.	
Summary	Reassociate this host with this VMM environment VMM uses virtual machine placement paths as default locations to store virtual machines placed on a host. To add a new virtual machine placement path, specify a path and click Add. Add the following path:	
	Add Selected virtual machine placement paths: Remov	e

11. 如果需要**, 啟用**即時遷移。您也可以指定要使用的網路。

1	Add Resource Wizard
📍 Migration	Settings
Resource location Credentials Discovery scope Target resources Host settings	Specify the live storage and migration settings Live storage migration Maximum number of simultaneous live storage migrations: 2 Live migration settings V Turn on incoming and outgoing live migrations
Migration Settings	Maximum number of simultaneous live migrations: 2
Summary	 Use Credential Security Support Provider (CredSSP) Use Kerberos Incoming live migration settings: Use any available network Use the following IP subnets:
	Subnets Add
	Remove

12. 驗證並接受更改。確保修復所有錯誤。

1		Add Resource Wizard		
😭 Summary	I marine and		MA	
Resource location Credentials	Confirm the settin	ngs	[View Script
Discovery scope Target resources Host settings Migration Settings Summary	Resource type: Resource location: Discovery credential Discovery scope: Host settings:	Hyper-V capable Windows Servers Trusted Windows computer s: Administrator Computer name based discovery 1 computers are selected to manage Host group: All Hosts\chrisb2		
		Pres	vious Finish	Cancel

如果連線有問題(例如,連線發生錯誤),請完成以下步驟:

- 使用PowerShell netsh advanced firewall set allprofiles state off命令禁用Windows防火牆。
- •請確保使用正確的憑據並且主機位於域中。
- 檢視Windows錯誤日誌,因為這些日誌在此情況下通常很有用。

Hyper-V上的Nexus 1000v

預設情況下,Hyper-V上的Nexus 1000v配置與VMware上的Nexus 1000v配置非常不同。這是因為 Hyper-V上的Nexus 1000v非常依賴網路分段功能,這歸功於Hyper-V的網路架構。下面簡要概述不 同術語及其互動方式:

- **邏輯網**絡 邏輯網路是包含特定網路的通用儲存桶。例如,DMZ是一個邏輯網路,而 Production是另一個邏輯網路。
- **段池** 屬於邏輯網路的段集合。例如,它們可能適用於不同的站點,例如一個池用於RTP,一個池用於SJ。
- 網段 這是定義網路接入功能的位置。這就是分配VLAN的位置。
- Port-Profiles 策略集合,而非連線。此處為服務品質(QoS)、存取控制清單(ACL)和其他專案。
- IP池 分配給網段。在大多數情況下,這無關緊要。但是,在執行協調時,SCVMM可以自動 分配來自此池的地址。
- •乙太網路 這是來自主機的上行鏈路。每組上行鏈路都允許特定的網段池。
- vEthernet 這是VM的介面。它繼承其策略的埠配置檔案以及其VLAN的網段。
- VMnetwork 這是與SCVMM端的IP池組合的分段。
- Port-Classification 這是指SCVMM中的埠配置檔案策略。

以下是說明繼承鏈的圖表:



使用安裝程式應用程式安裝虛擬管理引擎模組(VSM)

將此方法用於全新安裝 — 安裝程式應用程式只顯示沒有虛擬交換機的主機。這將安裝VSM並提供 一些基本配置。不應使用此選項進行安裝,因為如果手動安裝該產品,您會更瞭解該產品。但是 ,此處包含以供參考。

- 1. 使用域憑據登入到jumpserver。
- 2. 開啟Windows資源管理器視窗,然後導航到[n1k捆绑包]\VSM\Installer_App。
- 3. 按一下右鍵Cisco.Nexus1000VInstaller.UI.exe,然後選擇Run as administrator。

(€) ⇒ ↑ 🛄 ► !	Nexus1000v.5.2.1.SM1.5.1 ► VSM ► 1	nstaller_App		
🔆 Favorites	Name		Date modified	Туре
📃 Desktop	Cisco.Nexus1000VInstaller.Com	re.dll	6/2/2013 7:35 PM	Application
〕 Downloads	Cisco.Nexus1000VInstaller.UI	1	6/2/2013 7:35 PM	Application
🔚 Recent places	OiscUtils.dll	Open		pplication
	Licenses	Pin to Start		ext Docum
🥃 Libraries	🚳 LukeSkywalker.IPNetworl 🎯	Run as adm	inistrator	pplication
Documents	🗈 NLog	Troublesho	ot compatibility	ML Config
N. N.A	A 1 1			- e .e

- 4. 檢視要求。按「Next」(下一步)。
- 5. 輸入SCVMM伺服器詳細資訊。確保使用管理員帳戶。

	C (C (D04D 40 DC CC D14		
	Cisco Nex	us 1000V Installer for I	Microsoft System Center 2012 with Hyper-
Steps		Login to SCVMM	
Prerequisites		Host Name / IP Address:	localhost
Login to SCVMM		Port (https):	8100
Enter VSM Details		Port (nttps):	rta_cu/chrish?
Review Inputs		Domain\User Name:	rtp-sv(chrisb2
Track Progress		Password:	••••••
View Installation Su	mmary		

6. 在下一頁中,您將需要基本的Nexus 1000v配置。根據您的需求填寫此內容。VSM ISO位於 VSM資料夾中,而VEM.msi位於VEM資料夾中。目前有一個<u>Cisco錯誤ID CSCuh36072</u>,阻 止此嚮導看到已定義虛擬交換機(vSwitch)的主機。Hyper-V伺服器附帶已建立的vSwitch。由於 此錯誤,您需要刪除vSwitch。若要將其刪除,請按一下右鍵host,轉到properties,然後按一 下virtual switches。

Cisco Nex	us 1000V Installer for M	licrosoft System Center 2012 with Hyper-V	x		
Steps	Enter the Virtual Super	visor Module (VSM) Details			
Prerequisites Login to SCVMM Enter VSM Details	Import Configuration Deploy the Virtual Super Host 1 (Primary VSM VM's	rvisor Module (VSM) in High Availability (HA) mode : Host)			
Review Inputs	IP Address / Name:	mw-hyperv1.rtp-sv.cisco.com	•		
Track Progress	Network Adapter:	Emulex OneConnect OCm10102-F-C, NIC/TOE	•		
View installation Summary	Host 2 (Secondary VSM V	M's Host)			
	IP Address / Name:	mw-hyperv1.rtp-sv.cisco.com	•		
	Network Adapter:	Emulex OneConnect OCm10102-F-C, NIC/TOE	•		
	VSM Name:	chrisb-HyperV			
	ISO Image Location:	C:\Users\chrisb2\Desktop\Nexus1000v.5.2.1.SM1.5.1\VSM\Install\nex Browse			
	Nexus 1000V VEM MSI:	M MSI: C:\Users\chrisb2\Desktop\Nexus1000v.5.2.1.SM1.5.1\VEM\Nexus1000 Browse			
	VSM IP Address: 14.17.124.15				
	Subnet Mask: 255.255.255.0				
	Gateway IP Address: 14.17.124.254				
	Domain ID:	365			
CISCO.	VSM Management VLAN:	124			
Nexus 1000V	Is the Management VLAN	of the host(s) same as the VSM Management VLAN ?			
	Yes O No	The management VLAN of the host(s) is: Host Management VLAN			
	Save Configuration				
About		Previous Next Cancel			

7. 驗證設定,然後按一下**Next**開始安裝。安裝大約需要10到20分鐘。



完成此嚮導後,您可以登入到VSM。Admin/Admin是預設安裝。

手動安裝Nexus 1000v

本節介紹如何手動安裝Nexus 1000v系列交換機,它可用於以下幾種情況:

- 與已存在的系統整合。手動安裝方法更加精細,使您可以精確控制其整合方式。
- 深入瞭解產品。此方法使您能夠更好地瞭解所有元件是如何整合的,從而更輕鬆地進行故障排 除和擴展。
- •安裝程式問題。如果安裝程式遇到任何問題,可以使用手動方法。

手動安裝VSM

如果需要將VSM安裝到已經存在的環境中,請使用此方法。此方法允許您使用已經存在的基礎架構 ,而不是構建自己的基礎架構。

第1部分—SCVMM設定

只需為每個SCVMM伺服器執行一次此過程。

- 1. 在SCVMM服務器上安裝提供程式MSI。
- 2. 匯入VSM模板。

在SVCMM伺服器上,開啟PowerShell。運行Register-Nexus1000vVsmTemplate.ps1腳本。 將虛擬乙太網模組(VEM)復制到SVCMM儲存庫ALLUSERSPROFILE%\Switch Extension Drivers。建立一個邏輯網路(Fabric > Logical Networks),並將其與標準交換機相關聯(按一下 右鍵主機、Properties、Virtual Switches以建立交換機,然後按一下Hardware以分配邏輯網路)。這樣,您就可以將VM放在此網路上。

第2部分 — VSM部署

- 1. 轉到**庫 > 庫伺服器**,然後將VSM .iso上傳到庫伺服器。
- 2. 按一下右鍵Infra1,然後選擇New Virtual Machine。
- 3. 選擇Nexus1000v-VSM-Template。在PowerShell指令碼運行第1部分時註冊了此指令碼。

8	Create Virtual Machine Wizard							
🕞 Select Source	e							
Select Source	Select the source for the new virtual machine							
Specify Virtual Machine Identity	Use an eviction vitual machine. VM template, or vitual bard disk							
Configure Hardware	Nexus 1000V-VSN-Template							
Select Destination								
Select Cloud	O Create the new virtual machine with a blank virtual hard disk							
Add Proportion								

- 4. 為VSM命名。
- 5. 將網路介面卡連線到第1部分中建立的網路。

🖬 Save as New: 🚙 Dis	k 🔆 SCSI Adapter 🦼 DVD 💐 Network Adapter 🛛 🗙 Remove
Nideo Adapter	Network Adapter 3
Default video adap	Connectivity
* Bus Configuration	
DE Devices 2 Devices attached	Connected to a VM network:
Nexus1000V-V 4.00 GB, Primary	VM network: VSM Connection Browse
Virtual DVD drive No Media Capt	Static IP (from a static IP Pool)
SCSI Adapter 0 0 Devices attached	
* Network Adapters	■ MAC Address
Network Adapter 1	O Dynamic
Connected to VSM	Static:
Network Adapter 2 Connected to VSM	Port Profile
Metwork Adapter 3	Classification:
Connected to VSM	Enable virtual switch optimizations

- 7. 向下滾動並啟用Availability(HA)下的High Availability(HA)(僅在將VSM安裝到故障轉移群集時 才需要這樣做)。
- 8. 將VSM放置在基礎結構主機上。
- 9. 部署VM後, 啟動KVM, 並運行初始配置嚮導。

第3部分 — VSM基本配置

1. 啟用network-segmentation-manager和http-server

```
chrisb2-hyperv#
chrisb2-hyperv# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
chrisb2-hyperv(config)# feature network-segmentation-manager
chrisb2-hyperv(config)# feature http-server
chrisb2-hyperv(config)#
```

 為您的VLAN建立IP池。這些是您分配給您的VM的IP。它們需要定義,但只有在SCVMM提供 自動化時才會使用。

nsm ip pool template VLAN124 ip address 14.17.124.80 14.17.124.250 network 14.17.124.0 255.255.255.0 default-router 14.17.124.254

3. 建立邏輯網路。您只需要一個邏輯網路,除非您有類似於DMZ的網路。

nsm logical network chrisb2-CALO

4. 建立網段池。使其成為邏輯網路的成員。

nsm network segment pool chrisb2-RTP member-of logical network chrisb2-CALO

5. 建立多個**網段**,每個接入VLAN對應一個網段。

nsm network segment chrisb2-124 member-of network segment pool chrisb2-RTP switchport access vlan 124 ip pool import template ip_pool_124 publish network segment switchport mode access

6. 為VM建立port-profile。此處不需要存取VLAN。請記住,埠配置檔案只是策略的集合。

```
port-profile type vethernet defaultAccess
no shutdown
state enabled
publish port-profile
```

7. 建立網絡分段管理器(NSM)上行鏈路。allow network segment pool命令通知SVCMM允許這些 網段通過上行鏈路。主機需要該命令才能看到資料段。

nsm network uplink UPLINK switchport mode trunk publish network uplink allow network segment pool chrisb2-RTP

8. 使用任何所需的策略(例如port-channel)修改建立的port-profile。

port-profile type Ethernet UPLINK channel-group auto mode on mac-pinning

第4部分 — SVCMM基本配置

1. 導覽至Fabric,然後展開Networking。按一下右鍵Switch Extension Manager,然後按一下 Add Virtual Switch Extension Manager。

Administrator - SCVMM.live.cisco.	com - Virtual Mach	ine Manager					- 0	ĸ
E Home							^	
Create Add Add Overview Fabric Resources	약 Services 좋 Virtual Machines 한 Hosts	PowerShell Jobs PRO Window	View Dependent Resources	Refresh	Remove	Properties Properties		
Fabric	Virtual Switch Extensi	on Managers (3)	vependencies	nerrear	NEINETE	rioperoes		_
> 99 Servers								P
A Networking	Name					Connection	string	
ver Logical Networks	📇 Cisco Nexus 1000	V Chassis version 5	2(1)SM1(5.1) [build 5	2(1)SM1(5.0	.201)]	http://14.17	4.151	_
MAC Address Pools	📇 Cisco Nexus 1000	V Chassis version 5	2(1)SM1(5.1) [build 5	2(1)SM1(5.0	.201)]	http://14.17	4.152	
Load Balancers	📇 Cisco Nexus 1000	V Chassis version 5	2(1)SM1(5.1) [build 5	2(1)SM1(5.0	.201)]	http://14.17	4.153	
VIP Templates								
B Switch Extension Man								
Logical Switches	tual Switch Extension M	anager						
Native Port Profiles								
Port Classifications								
Gateways								
Storage								*
Br VMs and Services								
😧 Fabric								
Library						-		
Jobs							ctivate Windows	
Settings						₿ ™ G N	o to Action Center to activate /indows.	

- 2. 輸入連接設定。連線字串地址為<u>http://your_VSM_IP_address</u>。
- 3. 按一下Browse,然後建立具有憑證的運行方式帳戶,以登入到Nexus 1000v。

3	Add Virt	tual Switch Extension Manager Wizard	x
😽 General		A A A A A A A A A A A A A A A A A A A	77
General Host Groups Summary	Enter connecti Select a manufactur string and credentia	on settings for the extension manager to add rer, model, and configuration provider for the extension manager. Enter the connection als to be used.	'n
	Manufacturer:	Cisco Systems, Inc.	
	Model: Provider:	Nexus 1000V	: -
	Connection string:	http://14.17.10.1	
	RunAs account:	VSM Browse	
		Previous Next Cancel]

4. 按「**Next**」(下一步)。

5. 在「主機組」面板中,選擇可以**使用虛**擬交換機擴展管理器的所有主機組,然後按一下**下一步**。

3	Add Virtual Switch Extension Manager Wizard
💐 Host Gro	oups
General Host Groups	Host groups that can use this virtual switch extension manager The virtual switch extension manager will be available to the following host groups.
Summary	All Hosts Ive2013-Group
	Previous Next Cancel

6. 在「摘要」面板中,確認設定,然後按一下**完成**。現在應建立交換機擴展。

第5部分 — 建立邏輯交換機

1. 在SCVMM使用者介面中,按一下左側導航面板中「網路」下的Fabric,然後按一下Logical Switches。按一下右鍵Logical Switches和Create Logical Switch。

Administrator - WIN2012.Live2013.com - Virtual Machine Manager (Evaluation Version - 177 days remaining)							
Home							^ 😧
Create Logical Network	Create gical Switch	Add Resources •	Show Window	View Dependent Resources Dependencies	Remove	Properties	
Fabric	Logical Switches (0)					Topeneo	
P Servers	Name						٩
1th Logical Networks	7		There are	no items to show in	this view		
MAC Address Pools							
Load Balancers							
VIP Templates							
Switch Extension Managers							
Create Logical	al Switch						
Port Classifications							
Gateways							~
> 🔒 Storage							
w VMs and Services							
Pabric Fabric							
🧮 Library							
🗄 Jobs							

- 2. 在「入門」頁面上按一下**下一步**。檢視說明,然後按一下**下一步**。
- 3. 輸入邏輯交換器的**名稱**和說明。

2	Create Logical Switch Wizard
👫 General	and the
Getting Started General Extensions Uplink	Enter name and description for the logical switch You can use a logical switch to apply settings to virtual switches across multiple hosts. A logical switch contains port profiles from the native Hyper-V switch and port profiles for any extensions that you use. Name: Pod-1 Description: Nexus 1000v for SCVMM
Virtual Port Summary	Enable single root I/O virtualization (SR-IOV) SR-IOV allows a device, such as a network adapter, to gain direct access to physical networks adapters that support SR-IOV. Using SR-IOV, network performance can achieve nearly the same performance as in non virtualized environments. You can enable SR-IOV only when a logical switch is created. To change your SR-IOV usage in the future, you must create a different logical switch.
	Previous Next Cancel

4. 在「擴展」面板中,將列出虛擬交換機擴展。選擇所創**建的VSM**擴展,然後按一下**下一步**。 **附註**:只能選擇一個轉發擴展。

🖬 Adr	ninistrator - SCVMM.live	e.cisco.com - Virtual Mach	ine Manager					- 0 -
	Home							^ 😢
+ Create	Add Overview	Fabric Services	PowerShell Jobs PRO	View Dependent	Refresh	Remove	Propertier	5
•	Add	Show	Window	Dependencies	Refresh	Remove	Properties	
Fabric	ervers letworking	Virtual Switch Extensi Name	on Managers (3)				Connection	م string
-	Logical Networks	📇 Cisco Nexus 1000	V Chassis version 5	.2(1)SM1(5.1) [build 5	.2(1)5M1(5.0	.201)]	http://14.1	7.4.151
	MAC Address Pools	🖶 Cisco Nexus 1000	V Chassis version 5	.2(1)SM1(5.1) [build 5	.2(1)SM1(5.0	.201)]	http://14.1	7.4.152
	Load Balancers	E Cisco Nexus 1000	V Chassis version 5	.2(1)SM1(5.1) [build 5	2(1)SM1(5.0	.201)]	http://14.1	7.4.153
	Switch Extension Manual Logical Switches Native Port Profiles Port Classifications Gateways Itorage	Add Virtual Switch Extension Ma	inager					~
20 V	/Ms and Services	_						
2 -	fabric							
i 🚟 1	library						~	
()	lobs						R	Activate Windows
7 5	Settings						4 -4 -	Windows.

- 5. 在Uplink(上行鏈路)面板中,指**定作為此邏輯**交換機一部分的上行鏈路埠配置檔案。上行鏈 路埠配置檔案可用於建立邏輯交換機例項的主機。將Uplink(上行鏈路)模式設定為**Team**。 **附註**:無論您使用一條上行鏈路還是多條上行鏈路,模式都應始終為**Team**。
- 6. 在Uplink port-profiles欄位中,點選Add。將開啟Add Uplink Port Profile視窗。

2	Create Logical Switch Wizard		x
👫 Uplink			
Getting Started General	Specify the uplink port profiles that are part of this logic The uplink port profiles configured here are available for use on hosts whe created.	cal switch ere an instance of this switch	is
Extensions Uplink	Uplink mode: Team	n	
Virtual Port Summary Port Virtual Port June Port Net	ect a port profile port profile selected here will be available for use by the host physical oter that connect to this logical switch. profile: Uplink-1 mmary ost groups: All Hosts etwork sites: Internet-1	d For Deleti Add Edit Remov	
	OK Cancel	Next Cancel	

2	Cr	eate Logical Switc	h Wizard		×
👫 Uplink				14	
Getting Started General Extensions	Specify the uplin The uplink port profile created.	k port profiles th s configured here are	at are part of th available for use on h	is logical switch osts where an instance of	this switch is
Uplink	Uplink mode: Team	•			
Virtual Port	Uplink Port Profile	Host Groups	Network Sites	Marked For Deleti	Add
Summary	Uplink-1	All Hosts	Internet-1	False	Edit Remove
			Pr	evious Next	Cancelii

7. 按「Next」(下一步)。在下一個螢幕上,選擇Add以啟動分類嚮導。

2	Create Logical Sv	vitch Wizard	x
👬 Virtual Por	t	Ata	<i>AH</i>
Getting Started	Specify the port classifications	for virtual ports part of this logical	switch
General Extensions	The port classifications configured here virtual machines.	will be available for use by virtual network ada	pters in a host or
Uplink	Virtual ports:	Default Medical For Delation	Add
Virtual Port	Port Classification	Default Marked For Deletion	Add
Summary			Edit Remove
			Clear Default
		Previous	Cancel

8. 選擇VSM和您建立的port-profile。按一下「browse」以建立連線埠分類。(埠分類是要應用於 介面的策略集合 — 請記住,這是埠配置檔案定義的!)

Add Virtual Port
Configure the virtual port
Specify the port classification for the virtual port. For each switch extension associated to the logical switch, one port profile may be selected. Additionally, a native virtual network adapter port profile may be associated to the virtual port.
Port classification: Browse
✓ Pod-1
Use this port profile: AllAccess-1
Include a virtual network adapter port profile in this virtual port
Native virtual network adapter port profile:
OK Cancel

Select a Port Profile Classification

Name	Description
SR-IOV	Port classification to be used for virtual machines t
Host management	Port classification to be used for host managemen
Network load balancing	Port classification to be used for virtual machines t
Live migration workload	Port classification to be used for host live migratio
Medium bandwidth	Port classification to be used for virtual machines t
Host Cluster Workload	Port classification for host cluster workloads.
Low bandwidth	Port classification to be used for virtual machines t
High bandwidth	Port classification to be used for virtual machines t
iSCSI workload	Port classification for host iSCSI workloads.

9. 指定埠分類的名稱和說明。

8	Create Port Classification Wizard
Specify a	name and description for the port classification
Name:	NoRestrictions-1
Description:	Port Profile with No Restrictions.
View Script	OK Cancel

right	Description
SR-IOV	Port classification to be used for virtual machines t
Host management	Port classification to be used for host managemen
Network load balancing	Port classification to be used for virtual machines t
Live migration workload	Port classification to be used for host live migratio
Medium bandwidth	Port classification to be used for virtual machines t
Host Cluster Workload	Port classification for host cluster workloads.
Low bandwidth	Port classification to be used for virtual machines t
High bandwidth	Port classification to be used for virtual machines t
iSCSI workload	Port classification for host iSCSI workloads.
AllAccess1	
NoRestrictions-1	Port Profile with No Restrictions.
	Create Port Classification.

F

^{10.} 選擇剛創**建的埠配**置檔案分類,然後點選確定。

8	Add	Virtual Port		x
Configure the virtue Specify the port classificat one port profile may be s associated to the virtual p	al port tion for the virtual port. I elected. Additionally, a n ort.	For each switch extension ative virtual network ada	associated to the lopter port profile ma	ogical switch, y be
Port classification: NoRes	trictions-1			Browse
Pod-1				
Use this port profile:	AllAccess-1			-
Native virtual network	adapter port profile i	n this virtual port		-
			ОК	Cancel

2	Create Lo	gical Switch Wi	izard	×
👫 Virtual P	ort		A	
Getting Started General Extensions Unlink	Specify the port classific The port classifications configur virtual machines. Virtual ports:	ations for virt	tual ports part of this logi ailable for use by virtual network	ical switch adapters in a host or
	Port Classification	Default	Marked For Deletion	Add
Virtual Port	NoRestrictions-1	False	False	Edit
Summary				Remove
				Set Default Clear Default
			Previous N	ext Cancel

11. 按一下「OK」以完成虛擬連線埠的新增。按一下**下一步**以關閉「建立邏輯交換機嚮導」視窗 。

2	Create Lo	gical Switch Wizard		×
🐖 Summary	/			
Getting Started General	Confirm the settings			View Script
Extensions Uplink Virtual Port Summary	Name: Description: Single Root I/O Virtualization Switch uplink mode: Virtual switch extensions: Uplink port profile sets: Virtual port profile sets:	Pod-1 Nexus 1000v for SCVMM Team Pod-1 1		
			Previous	Finish Cancel

第6部分 — 根據網段建立VMNetworks

1. 轉到VM和服務,按一下右鍵VM網路,然後選擇建立VM網路。

VMs and Services	<	٧N	1 Ne
🥵 Tenants			
a Clouds		Na	ame
J VM NC			4
Create VM Network			1
🧧 Storage		Ξ	Щ.
🔺 🚞 All Hosts			1
🔺 🦳 chrisb2			<u>_i</u>
🔺 🗑 chrisb2-hyperv			<u>_1</u>
50 · · · · · · · ·			

2. 為其指定一個描述性**名稱**,選擇您的**邏輯網路**,然後按一下**下一步**。

<u>9</u>		Create VM Network Wizard
🄔 Name		
Name Isolation Summary	Specify a name: Name: Description:	me and description for the VM network chrisb2-124
	Logical network:	chrisb2-CALO

3. 對於隔離,請選擇**外部提供的VM網路**,然後選擇**您的網段**。

<u>8.</u> .	Create VM Network Wizard
🄔 Isolation	
Name Isolation	Configure the isolation for this VM network, or select automatic to have it configured for you
Summary	 Automatic Specify an externally supplied VM network External VM network: chrisb2-124 User defined

4. 完成嚮導。現在,您可以在此VLAN上部署VM。

將主機新增到DVS

將主機新增到邏輯交換機時,將自動安裝VEM。

- 1. 轉到Fabric > All Hosts。
- 2. 按一下右鍵第二**台主機**,然後選擇**Properties**。
- 3. 按一下「Virtual Switches」。
- 4. 選擇New Virtual Switch > New Logical Switch。
- 5. 將NIC連線到Nexus 1000v邏輯交換機。

•	chrisb2-hyperv1.rtp-sv.cisco.com Properties
General	New Virtual Switch 🛒 New Virtual Network Adapter 🗙 Delete
Status	VSwitch0 External Logical switch: Microsoft_Switch_chrisb2-Nexus
Hardware	Microsoft_Switch_chrisb2 Logical Switch Uplink Port Profile
Host Access	Cisco VIC Ethernet Interfa V Native_Uplink_PortProfile, V
Virtual Machine Paths	
Reserves	
Storage	
Virtual Switches	
Migration Settings	
Placement	
Servicing Windows	

6. 驗證模組是否出現在VSM上的show module下。

chris	sb2-hype	erv#									
chris	chrisb2-hyperv‡ show mod										
Mod	Ports	orts Module-Type				Model			Status		
1	0	Virtual	Supervi	.sor Mo	odule		Nexus1000V			active *	e
2	0	Virtual	Supervi	.sor Mo	odule		Nexus1000V	7		ha-stand	iby
3	288	Virtual	Etherne	t Modu	ile		NA			ok	
4	288	Virtual	Etherne	t Modu	ile		NA			ok	
Mod	Sw		Hw	7							
1	5.2(1)	5M1(5.1)	0.	.0							
2	5.2(1)5	SM1 (5.1)	0.	0							
3	5.2(1)5	5M1 (5.1)	Wi	ndows	Server	2012	(6.2.9200,	6.30)		
4	5.2(1)	5M1(5.1)	Wi	ndows	Server	2012	(6.2.9200,	6.30)		
Mod	MAC-Add	iress(es)					Serial-Num				
1	00-19-0)7-6c-5a-	a8 to 0)0-19-0)7-6c-62	2-a8	NA				
2	00-19-0)7-6c-5a-	a8 to 0	0-19-0)7-6c-62	2-a8	NA				
3	02-00-0	0c-00-03-	00 to 0	2-00-0)c-00-03	3-80	NA				
4	02-00-0	0c-00-04-	00 to 0	2-00-0)c-00-04	-80	NA				
Mod	Server-	-IP	Serve	r-UUII)				Server	r-Name	
1	14.17.5	5.1	NA						NA		
2	14.17.5	5.1	NA						NA		
3	14.17.1	124.82	82DD7	D06-20)92-E011	-0000	-0000000000	04F	CHRISE	32-HYPERV	71
4	14.17.124.31 82DD7D06-2092-E011-000				-0000	0-0000000005F		CHRISE	32-HYPERV	72	

7. 將VM連線到您建立的分類和分段,然後驗證連線。

手動安裝VEM

如果SCVMM未安裝VEM,則可以使用此命令安裝VEM:

msiexec.exe /i [Path_to_N1k_bundle]\VEM\Nexus1000v-VEM-5.2.1.SM1.5.1.0.msi

驗證

目前沒有適用於此組態的驗證程序。

疑難排解

目前尚無適用於此組態的具體疑難排解資訊。