安裝、配置用於vSphere Web客戶端的Cisco UCSM外掛並對其進行故障排除

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簡介

本文檔介紹如何安裝、配置適用於vSphere Web客戶端的Cisco UCS Manager外掛並對其進行故障 排除。Cisco UCSM外掛是vSphere Web Client v5.5及更高版本的擴展。它使虛擬化管理員能夠檢 視、管理和監控Cisco UCS物理基礎設施的各個方面。結果是為Virtual Center使用者提供了一個單 一窗格,以便獲取給定虛擬機器管理程式的物理和虛擬基礎架構資訊。

必要條件

需求

思科建議您瞭解、

- Cisco UCS和UCS管理器(UCSM 2.x和3.x)
- VMWare vCenter
- HTTP/HTTPS伺服器到主機vCenter外掛

採用元件

本文件中的資訊是以下列軟體和硬體版本為依據

- vCenter 5.5或更高版本
- Cisco UCS管理器外掛1.x(1.1.1和1.2.1)
- UCS管理員2.2
- VMware vSphere Web客戶端5.5
- •HTTP或HTTPS伺服器上託管的外掛包。

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變更或設定可能造成的影響。

設定

• 下載外掛和註冊工具zip檔案,網址為:http://<u>www.cisco.com/</u> <u>適用於VMware vSphere Web客戶端的Cisco UCS管理器外掛</u> <u>Cisco UCS管理器外掛註冊工具</u>

Name	Date Modified	Size
Cisco UCS Plugin Registration Tool.exe	Mar 11, 2015, 12:35 PM	1 186 KB
Cisco_UCS_Plugin_Registration_Tool_v1.1.1.zip	Feb 24, 2016, 10:20 AN	1 35 KB
ucs-vcplugin-1.1.1	Feb 24, 2016, 10:23 AN	1
ucs-vcplugin-1.1.1.zip	Feb 23, 2016, 4:39 PM	18.9 MB

步驟2.

- 安裝VMware PowerCLI 5.1或更高版本以運行註冊工具。
- 安裝VMware vCenter 5.1或更高版本。
- PowerCLI安裝嚮導 —

🕵 VMware vSphere PowerCLI		
vmware	Welcome to the InstallShield Wizard for VMware vSphere PowerCLI The InstallShield(R) Wizard will install VMware vSphere PowerCLI on your computer. To continue, click Next.	
Build version: 5.5.0.5836	< Back Next > Canc	el

VMware vSphere PowerCLI	
InstallShield Wizard Completed	
vmvare	•
Build version: 5.5.0.5836 < Back Finish Cano	el

步驟3.

- 安裝VMware vSphere Web客戶端5.5及其前提條件。
- 有關VMware vSphere Web客戶端前提條件的資訊,請參閱 http://kb.vmware.com/selfservice/microservice/ search.site?language=en_ cmd=displayUS&KC&externalId=2005083
- 安裝vCenter。本文檔中的示例使用vCenter 5.5裝置。

步驟4.

•HTTP或HTTPS伺服器上託管的外掛包

 $\leftarrow \rightarrow C$

/software/vmware/vsphere/

Apps

🛨 Bookmarks 📄 Bookmarks

Index of /software/vmware/vsphere

<u>Name</u>	Last modified	<u>Size</u>	Description
Parent Directory		-	
	13-Apr-2013 00:26	-	
	13-Apr-2013 00:28	-	
	13-Apr-2013 00:27	-	
	24-Sep-2013 18:08	-	
	21-Feb-2015 01:40	-	
	16-Dec-2015 03:52	-	
cli/	13-Apr-2013 20:12	-	
<u>license/</u>	17-Nov-2015 23:34	-	
ucs-vcplugin-1.1.1.zip	23-Feb-2016 16:39	18M	
ucs-vcplugin-1.2.1.zip	24-Feb-2016 16:09	19M	

步驟5.

- 解壓註冊工具,然後按兩下將其啟動。 出現Cisco UCS外掛註冊工具螢幕。
- 要註冊新外掛,請配置以下欄位: IP/主機名 vCenter伺服器的IP或主機名。使用者名稱 vCenter使用者名稱。密碼 vCenter密碼。外掛位置: 外掛zip檔案的HTTPS/HTTP URL。例如,<u>https://10.1x.1x.1/plugins/ucs/ucs-vcplugin-1.1.1.zip。</u>按一下「**Submit**」。

🛕 Cisco UCS Plug	Cisco UCS Plugin Registration Tool v1.1.1						
This tool registers/	This tool registers/unregisters the Cisco UCS Plugin for VMware vSphere Web Client						
Action							
Register Plug	in 💿 Unregister Plugin						
vCenter Details							
IP/Hostname							
Username	root						
Password	*****						
Plugin Location							
URL of the plugin Ex: https://10.10	location in HTTP/HTTPS server). 10. 1/plugins/ucs-vcplugin-1.0. 1. zip						
https://www.ac.ac.ac.ac.ac.ac.ac.ac.ac.ac.ac.ac.ac.							
	Submit	Cancel					

🛕 Cisco UCS Plug	Cisco UCS Plugin Registration Tool v1.1.1						
This tool registers/unregisters the Cisco UCS Plugin for VMware vSphere Web Client							
Action							
Register Plugi	in (Unregister Plugin					
vCenter Details							
IP/Hostname		Information	X				
Username Password	root	Cisco UCS Plugin registered successfully					
Plugin Location OK							
URL of the plugin location in HTTP/HTTPS Ex: https://10.10.10.1/plugins/ucs-vcplugin-1.0.1.zip							
https://www.software/vmware/vsphere/ucs-vcplugin-1.1.1.zip							
Submit Cancel							

• 如果要註銷UCS Manager外掛,請選中註銷外掛覈取方塊並填寫欄位。

 如果您正在重新註冊,您可能會看到Already Registered!警告對話方塊,顯示以下消息:「 Cisco Ucs外掛1.x已註冊。如果已經下載了外掛檔案,則在手動刪除它們並重新啟動vSphere Web客戶端服務之前,不會再次下載它們。檢視消息,然後按一下OK以繼續。

步驟6.

• 登入到vCenter以檢查是否已安裝UCSM外掛。



第7步:

- 使用vCenter上的UCSM外掛註冊UCSM域。
- 按兩下Cisco UCS外掛。
- 按一下**註冊**以註冊新的UCS域。

Cisco UCS Management Center				
Home				
Registered UCS Domains				Plugin Version: 1.2(1)
UCS Hostname/IP	Username	SSL	Port	Connection State
	Register UCS Do	omain	×	
	UCS Hostname/	/IP*	ND C	
	Username*	admin		
	Password*	*****	**	
	Port*	443		
	SSL	\checkmark		
		ОК	Cancel	
Register Edit Re-re	gister Unregister			

• 首次註冊後,您會收到錯誤,如下圖所示。

	Cisco UCS Management Center					
	Home					
> > >	Registered UCS Domains				Plugin Version:	1.2 (1)
4	UCS Hostname/IP	Username	SSL	Port	Connection State	
> > >		Error An internal en Reloading the problems left Click Yes to ro Show error st	ror has occurred - Error # e client is recommended, i by this error. eload the vSphere Web C ack Yes No	H009. so as to clear any Client?		
	Register Edit Re-re	gister Unregister				

• 按一下Yes重新載入vSphere Web客戶端。重新登入後,您必須看到UCSM域已註冊。

Cisco UCS Management Center

Home

Registered UCS Domains

cisco.

Plugin Version: 1.2(1)

UCS Hostname/IP	Username	SSL	Port	Connection State
	admin		443	†.

驗證

步驟1.

• 檢查UCSM域詳細資訊

I Home 🕨 🔊 🖡 Rack13-FI	Rack13-FI Actions -	nage Related Objects		
Chassis Rack Mounts Fabric Interconnects		Rack13-FI Version: Virtual IPv4 Address: HA Configuration:	2.2(5a) UCSM Version	Fault Summary
		Chassis: ESX Servers: Non-ESX Servers: VMs:	1	cisco.

• UCSM外掛選項



• 其他選項, 如韌體、服務配置檔案、服務配置檔案模板、伺服器池

(Home) 🕲 I	Rack13-FI Actions -					
Rack13-Fl	Summary Monitor Manage Related Objects					
🗊 Chassis 📃 1						
Rack Mounts	Service Profiles Service Profile Templates Server Pools Firmware					
E Fabric Interconnects	Host Firmware Packages Firmware Upload Tasks Firmware Packag	es				
Chassis	🙀 Actions					
🗊 chassis-1	Name Type	State Version				
	(ucs-mini-k9-bundle-infra.3.0.1c.A.bin full-bundle action	ive 3.0(1c)A				
	ucs-k9-bundle-b-series.2.2.3d.B.bin b-series-bundle active	ive 2.2(3d)B				
	ucs-k9-bundle-b-series.2.2.5b.B.bin b-series-bundle active	ive 2.2(5b)B				
	ucs-k9-bundle-b-series.2.2.2c.B.bin b-series-bundle active	ive 2.2(2c)B				
	(ucs-k9-bundle-b-series.2.1.2a.B.bin b-series-bundle active	ive 2.1(2a)B				
	() ucs-k9-bundle-b-series.2.1.3b.B.bin b-series-bundle activ	ive 2.1(3b)B				
	🔬 ucs-m82-8p-vic.2.2.1c.T03-ET.gbin image acti	ive				
	(ucs-m82-8p-vic.2.2.1c.T02-ET.gbin image active	ive				
	🛞 ucs-m82-8p-vic.2.2.1c.T01-ET.gbin image acti	ive				
	(ucs-m82-8p-vic.2.2.1c.T05-ET.gbin image active	ive				
	(g) ucs-m82-8p-vic.2.2.1c.T04-ET.gbin image acti	ive				
	(ucs-k9-bundle-infra.2.1.3b.A.bin infrastructure-bur action	ive 2.1(3b)A				
	() ucs-k9-bundle-infra.2.2.5a.A.bin infrastructure-bur action	ive 2.2(5a)A				
	(ucs-k9-bundle-infra.2.2.1d.A.bin infrastructure-bur action	ive 2.2(1d)A				
	ucs-k9-bundle-infra.2.2.5b.A.bin infrastructure-bur active	ive 2.2(5b)A				
	🛞 ucs-m82-8p-vic.2.2.1d.T-ET.gbin image acti	ive				
	(a) ucs-m81kr-vic.2.0.3a.gbin image action	ive				
	(a) ucs-tac-e2e-diag.gbin image acti	ive				

疑難排解

對vCenter裝置上的UCSM外掛安裝進行故障排除 —

步驟1.

• 看看這邊的黑幫。

https://<vCenter

IP>/mob/?moid=ExtensionManager&doPath=extensionList%5b%22com%2ecisco%2eucs%2e vcplugin%22%5d%2eserver

Data Pare Prop	Data Object Type: ExtensionServerInfo[] Parent Managed Object ID: ExtensionManager Property Path: extensionList["com.cisco.ucs.vcplugin"].server									
Propert	Properties									
NAME TYPE VALUE										
[0]	ExtensionServerInfo	NAME	ТҮРЕ	VALUE						
		adminEmail	string[]	"ucs-vcplugin@cisco	.com"					
		company	string	"Cisco Systems Inc.						
		description	Description	NAME	ТҮРЕ	VALUE				
				dynamicProperty	DynamicProperty[]	Unset				
				dynamicType	string	Unset				
				label	string	"Cisco UCS Plugin"				
				summary	string	"Cisco UCS Plugin"				
		dynamicProperty	DynamicProperty[]	Unset						
		dynamicType	string	Unset						
		serverThumbprint	string	Unset "vsphere-client-serenity"						
		type	string							
		url	string	"http://	/ucs-vcplugin-1.2.1.	zip"				

• 確保看到ucs-vcplugin zip檔案。

步驟2.

- 檢查vCenter是否能夠訪問承載外掛檔案的HTTP伺服器。
- 檢查vCenter上安裝的vClient是否能夠訪問https/http外掛位置。
- 檢查連通性。

• 檢查HTTPS訪問。這是*不工作*設定,其中vCenter無法使用HTTPS伺服器進行身份驗證。

localhost:/tmp # wget https://<HTTP/HTTPS server IP>/<Plugin location>/ucs-vcplugin-1.2.1.zip
--2016-02-25 07:02:15-- https://<HTTP/HTTPS server IP>/<Plugin location>/ucs-vcplugin-1.2.1.zip
Connecting to <HTTP/HTTPS server IP>:443... connected.

ERROR: cannot verify <http:/https server IP>'s certificate, issued by `/C=--

/ST=SomeState/L=SomeCity/O=AutoGenerated/OU=SelfSignedCertificate/CN=openfiler/emailAddress=root
@openfiler':

Unable to locally verify the issuer's authority.

ERROR: certificate common name `openfiler' doesn't match requested host name `<HTTP/HTTPS server IP>'.

To connect to 172.16.15.222 insecurely, use `--no-check-certificate'.

Unable to establish SSL connection.

• 檢查HTTP訪問。以下是HTTP伺服器上的網路的工作範例 —

-2016-03-03 20:35:31-- http://<HTTP/HTTPS server IP>/ucs-vcplugin-1.2.1.zip Connecting to <HTTP/HTTPS server IP>:80... connected. HTTP request sent, awaiting response... 200 OK Length: 19486526 (19M) [application/zip] Saving to: `ucs-vcplugin-1.2.1.zip.1' 100%[=======>] 19,486,526 110M/s in

0.2s

2016-03-03 20:35:31 (110 MB/s) - `ucs-vcplugin-1.2.1.zip.1' saved [19486526/19486526]