Instalar, configurar e solucionar problemas do plug-in do Cisco UCSM para o vSphere Web Client

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Introduction

Este documento descreve como instalar, configurar e solucionar problemas do Cisco UCS Manager Plugin para vSphere Web Client. O plug-in do Cisco UCSM é uma extensão do v5.5 e posteriores do vSphere Web Client. Ele permite que os administradores de virtualização visualizem, gerenciem e monitorem vários aspectos da infraestrutura física do Cisco UCS. O resultado é um painel único para que os usuários do Virtual Center obtenham informações de infraestrutura física e virtual para um determinado hipervisor.

Prerequisites

Requirements

A Cisco recomenda que você tenha conhecimento de,

- Cisco UCS e UCS Manager (UCSM 2.x e 3.x)
- VMWare vCenter
- Servidor HTTP/HTTPS para hospedar o plug-in vCenter

Componentes Utilizados

As informações neste documento são baseadas nestas versões de software e hardware

- vCenter 5.5 ou superior
- Plug-in 1.x do Cisco UCS Manager (1.1.1 e 1.2.1)
- UCS Manager 2.2
- VMware vSphere web client 5.5
- Pacote plugin hospedado em servidor HTTP ou HTTPS.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. Se a sua rede

estiver ativa, certifique-se de que você entende o impacto potencial de qualquer alteração ou configuração.

Configurar

Etapa 1.

• Faça o download dos arquivos zip da ferramenta de plug-in e registro disponíveis em: http:// www.cisco.com/

<u>Plug-in do Cisco UCS Manager para VMware vSphere Web Client</u> <u>Ferramenta de registro de plug-in do Cisco UCS Manager</u>

Name	Date Modified	Size
Cisco UCS Plugin Registration Tool.exe	Mar 11, 2015, 12:35 PM	186 KB
Cisco_UCS_Plugin_Registration_Tool_v1.1.1.zip	Feb 24, 2016, 10:20 AM	35 KB
ucs-vcplugin-1.1.1	Feb 24, 2016, 10:23 AM	
ucs-vcplugin-1.1.1.zip	Feb 23, 2016, 4:39 PM	18.9 MB
	10020, 2010, 4.001 M	10.0 MID

Etapa 2.

- Instale o VMware PowerCLI 5.1 ou posterior para executar a ferramenta de registro.
- Instale o VMware vCenter 5.1 ou superior.
- Assistente de instalação do PowerCLI -

VMware vSphere PowerCLI		X
vmware	Welcome to the InstallShield Wizard for Mware 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 > Cance	el

VMware vSphere PowerCLI	X
InstallShield Wizard Completed	
The InstallShield Wizard has successfully installed VMwar vSphere PowerCLI. Click Finish to exit the wizard.	e
vSphere PowerCLI	
vmware [.]	
Build version: 5.5.0.5836 < Back Finish Can	cel

Etapa 3.

- Instale o VMware vSphere web client 5.5 e seus pré-requisitos.
- Para obter informações sobre os pré-requisitos do cliente Web VMware vSphere, consulte http://kb.vmware.com/selfservice/microsites/search.do?language=en_ US&cmd=displayKC&externalId=2005083

• Instale um vCenter. O exemplo neste documento usa o dispositivo vCenter 5.5. **Etapa 4.**

• Pacote plugin hospedado em servidor HTTP ou HTTPS

 \rightarrow C

/software/vmware/vsphere/

Apps

★ Bookmarks 📄 Bookmarks

Index of /software/vmware/vsphere

Name	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	-	
icense/	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	

Etapa 5.

- Descompacte a ferramenta de registro e clique duas vezes para iniciá-la. A tela Cisco UCS Plugin Registration Tool é exibida.
- Para registrar um novo plug-in, configure os campos: IP/Nome do host IP ou nome do host do servidor vCenter.Nome de usuário - nome de usuário do vCenter.Senha - senha do vCenter.Local do plug- in: - URL HTTPS/HTTP do arquivo zip do plug-in. Por exemplo, <u>https://10.1x.1x.1/plugins/ucs/ucs-vcplugin-1.1.1.zip.</u>Clique em 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://	/software/vmware/vsphere/ucs-vcplugin-1.1.1.zip				
	Submit	Cancel			

🛕 Cisco UCS Plug					
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 successf	ully.		
Plugin Location			ок		
URL of the plugin Ex: https://10.10	URL of the plugin location in HTTP/HTTPs Ex: https://10.10.10.1/plugins/ucs-vcplugin-1.0.1.zip				
https://www.	https://www.www.www.contware/vmware/vsphere/ucs-vcplugin-1.1.1.zip				
		Submit Ca	ncel		

- Se desejar cancelar o registro de um plug-in do UCS Manager, marque a caixa de seleção Desregistrar plug-in e preencha os campos.
- Se estiver registrando novamente, você poderá ver a caixa de diálogo de aviso já registrado! com a mensagem:"O plug-in 1.x do Cisco Ucs já está registrado. Se os arquivos de plug-in já estiverem baixados, eles não serão baixados novamente até que sejam removidos manualmente e o serviço do cliente Web do vSphere seja reiniciado." Revise a mensagem e clique em OK para continuar.

Etapa 6.

• Faça login no vCenter para verificar se o plug-in UCSM está instalado.



Passo 7:

- Registre o domínio UCSM usando o plug-in UCSM no vCenter.
- Clique duas vezes no plug-in do Cisco UCS.
- Clique em Registrar para registrar o novo domínio UCS.

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*	MOR .	
	Username*	admin		
	Password*	******	***	
	Port*	443		
	SSL	\checkmark		
		ОК	Cancel	
Register Edit Re-reg	gister			

• Na primeira vez após o registro, você recebe um erro, como mostrado nesta imagem.

	Cisco UCS Management Center				
	Home				
	Registered UCS Domains				uhuh cisco
>	LICS Hostname/IP	Lisemame	991	Port	Plugin Version: 1.2(1)
>					
		Error			
l		An internal erro	or has occurred - Error #	1009.	
		Reloading the	client is recommended,	so as to clear any	
		problems left b	by this error.		
>		Click Yes to re	load the vSphere Web C	lient?	
>		Show error sta	ack	_	
I			Yes No		
I					
l					
I					
I					
I					
	Register Edit Re-re	gister Unregister			

• Clique em **Sim** para recarregar o vSphere Web Client. Depois de fazer login novamente, você deve ver o domínio UCSM registrado.

Cisco UCS	Management	Center
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Home Image: Construction State VCS Hostname/IP Username SSL Port Connection State admin Image: Construction State 443 Image: Construction State Image

Verificar

Etapa 1.

• Verifique os detalhes do domínio UCSM

vmware [®] vSphere Web Clie	ent 🔒 🖉		Ŭ root@localos ▼ Help ▼
(Home) 🕲 I	Rack13-FI Actions -		
Rack13-Fl	Summary Monitor Manage Related Obje	ects	
Chassis			
Rack Mounts	Rack13-FI	LICENA Version	Fault Summary
E Fabric Interconnects	Version: Virtual IPv4 Addres HA Configuration: Chassis: ESX Servers: Non-ESX Servers: VMs:	2.2(5a) Cluster 1 2 2 0 2 4 0 2 Chassis ID, Type of server, VM Details	Fault Summary

• Opções de plug-in do UCSM



 Outras opções como Firmware, Perfil de serviço, Modelo de perfil de serviço, Conjunto de servidores

vmware [®] vSphere Web Cli	ient 🔒 🖉	Ŭ root@localos ▼
Home I 🔊 I	Rack13-FI Actions -	
Rack13-FI	Summary Monitor Manage Related Objects	
🗊 Chassis	Manage Rolated Objects	
Rack Mounts	Service Profiles Service Profile Templates Server Pools Firmware	
Fabric Interconnects	Host Firmware Packages Firmware Upload Tasks Firmware Packages	
Chassis	Actions	
🗊 chassis-1	Name Type State	Version
	(g) ucs-mini-k9-bundle-infra.3.0.1c.A.bin full-bundle active 3.0(1c)A	
	ucs-k9-bundle-b-series.2.2.3d.B.bin b-series-bundle active 2.2(3d)B	
	ucs-k9-bundle-b-series.2.2.5b.B.bin b-series-bundle active 2.2(5b)B	
	g ucs-k9-bundle-b-series.2.2.2c.B.bin b-series-bundle active 2.2(2c)B	
	(g) ucs-k9-bundle-b-series.2.1.2a.B.bin b-series-bundle active 2.1(2a)B	
	ucs-k9-bundle-b-series.2.1.3b.B.bin b-series-bundle active 2.1(3b)B	
	(g) ucs-m82-8p-vic.2.2.1c.T03-ET.gbin image active	
	(g) ucs-m82-8p-vic.2.2.1c.T02-ET.gbin image active	
	(g) ucs-m82-8p-vic.2.2.1c.T01-ET.gbin image active	
	(g) ucs-m82-8p-vic.2.2.1c.T05-ET.gbin image active	
	(g) ucs-m82-8p-vic.2.2.1c.T04-ET.gbin image active	
	ucs-k9-bundle-infra.2.1.3b.A.bin infrastructure-bur active 2.1(3b)A	
	(g) ucs-k9-bundle-infra.2.2.5a.A.bin infrastructure-bur active 2.2(5a)A	
	ucs-k9-bundle-infra.2.2.1d.A.bin infrastructure-bur active 2.2(1d)A	
	ucs-k9-bundle-infra.2.2.5b.A.bin infrastructure-bur active 2.2(5b)A	
	(g) ucs-m82-8p-vic.2.2.1d.T-ET.gbin image active	
	(g) ucs-m81kr-vic.2.0.3a.gbin image active	
	() ucs-tac-e2e-diag.gbin image active	

Troubleshoot

Solucionar problemas de instalação de plug-in do UCSM no dispositivo vCenter-

Etapa 1.

• Verifique o MOB aqui-

https://<vCenter

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

Home							ogout			
Data Pare Prop	Data Object Type: ExtensionServerInfo[] Parent Managed Object ID: ExtensionManager Property Path: extensionList["com.cisco.ucs.vcplugin"].server									
Propert	ties									
NAME	ТҮРЕ	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						
		type	string	"vsphere-client-sere	nity"					
		url	string	"http://www.	/ucs-vcplugin-1.2.1.	zip"				

• Certifique-se de ver o arquivo zip ucs-vcplugin.

Etapa 2.

- Verifique se o vCenter pode acessar o servidor HTTP onde o arquivo de plug-in está hospedado.
- Verifique se o vClient instalado no vCenter consegue acessar o local do plug-in https/http.
- Faça uma busca para verificar a acessibilidade.
- Verifique o acesso HTTPS. Esta é uma configuração *não funcional* em que o vCenter não pôde autenticar com o servidor HTTPS.

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/0=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.

Verifique o acesso HTTP. Este é um exemplo de trabalho para um wget no servidor HTTP-

```
localhost:/tmp # wget http://<HTTP/HTTPS server IP>/ucs-vcplugin-1.2.1.zip
-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]