UCS Central 註冊和故障排除

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簡介

本文檔介紹向UCS Central註冊思科統一計算系統 — UCS域的步驟。在UCS Central 1.5版之前,只 能從UCS Manager進行註冊。從1.5版本起,可以從UCS Central和UCS Manager進行註冊。

採用元件

UCS Central 2.0(1a)

UCS管理器3.1(3a)

使用的所有裝置都是實驗室裝置

程式

來自UCS域的註冊流程:

啟動UCS Manager,然後按一下Admin-> Communication Management-> UCS Central。

選擇向UCS Central註冊。

cisco.	UCS Manager		🌲 🗉 🔍 ? (i 🌣 G
	All	All / Communication Management / UCS Central UCS Central Providers FSM Faults	
Servers LAN	Koles Key Management Keyfting default Communication Management Call Home Communication Services DNS Management Management Interfaces	Actions Register With UCS Central Unregister From UCS Central	
SAN	Collection Policy Chassis Collection Policy Chassis Collection Policy Chassis Collection Policy Fox Collection Policy Host Collection Policy Port		
Chassis	Collection Policy Server fabric Internal LAN LAN Cloud		

輸入UCS Central的**主機名/IP地址**和**共用金鑰**(始終是使用主機名註冊UCS Central的最佳實踐,因 為在註冊域時可以使用DNS條目更改IP地址),然後按一下**Ok**開始註冊。

註冊時可以設置策略解析控制。也可以在註冊後更改。

ostname/IP Address : 172.16.16.190	
hared Secret :	
All Global	
olicy Resolution Control	
Infrastructure & Catalog Firmware : Local	Determines whether the Capability Catalog and infrastructure firmware policy are defined locally or come from Cisco UCS Central.
Time Zone Management :	Determines whether the time zone and NTP server settings are defined locally or comes from Cisco UCS Central.
Communication Services : O Local O Globel	Determines whether HTTP, CIM XML, Telnet, SNMP, web session limits, and Management Interfaces Monitoring Policy settings are defined locally or in Cisco UCS Central.
Slobal Fault Policy : O Local O Global	Determines whether the Global Fault Policy is defined locally or in Cisco UCS Central.
Jser Management : O Local O Global	Determines whether authentication and native domains, LDAP, RADIUS, TACACS+, trusted points, locales, and user roles are defined locally or in Cisco UCS Central.
DNS Management : O Local O Global	Determines whether DNS servers are defined locally or in Cisco UCS Central.

Register With UCS Central

Hostname/IP Address :	ucscentral.cisco.com	
Shared Secret :		
All Global		
Policy Resolution Cont	rol	
Infrastructure & Catalog	Firmware : 💽 Local 🗌 Global	Determines whether the Capability Catalog and infrastructure firmware policy are defined locally or come from Cisco UCS Central.
Time Zone Managemer	t : O Local O Global	Determines whether the time zone and NTP server settings are defined locally or comes from Cisco UCS Central.
Communication Service	es : O Local O Global	Determines whether HTTP, CIM XML, Telnet, SNMP, web session limits, and Management Interfaces Monitoring Policy settings are defined locally or in Cisco UCS Central.
Global Fault Policy	: O Local O Global	Determines whether the Global Fault Policy is defined locally or in Cisco UCS Central.
User Management	: O Local O Global	Determines whether authentication and native domains, LDAP, RADIUS, TACACS+, trusted points, locales, and user roles are defined locally or in Cisco UCS Central.
DNS Management	: O Local O Global	Determines whether DNS servers are defined locally or in Cisco UCS Central.
		OK Cancel

監控FSM(有限狀態機)狀態以檢查註冊過程。

All / Communication Manager	ment / UCS Central				
UCS Central Providers	FSM Faults				
UCS Central Registration	Policy Resolution Control				
FSM Status	Success				
Description	:				
Current FSM Name	: Register Fsm				
Completed at	2017-08-18T13:02:42Z				
Progress Status	:	100%			
Remote Invocation Result	Not Applicable				
Remote Invocation Error Code	: None				
Remote Invocation Description	:				
Step Sequence					
Order	Name	Description	Status	Timestamp	Retried
1	Register Fsm Execute	Register FSM Execute(FS	Success	2017-08-18T13:02:42Z	2

UCS Central的註冊流程:

啟動UCS Central,點選**System tools**(系**統工具)**,然後轉至**Domain Management(域管理**)。



按一下右角的Register Domain。

-ili-ili- cisco	UCS Central	What are you looking for?	Q What do you want to do?	•	admin 🛃 🐥 🐲 🔅	9 6
	< 🏭 Dashbo	ard 🛡 Domain Management *				> •
	Domain	Management			0	* ?
ж	Domain	Domain Registrations			🎤 Register	Domain
_	Registrations	Filters	🝸 Filter 🛧 Export 🔟 Delete 🖉 Unregister Domain			
	Lest Demains	Registration Status	UCS Domain	Timestamp	Registration Status	Q
ø	Lost Domains	Registered In Progress Failed	No results found			
۵						

輸入UCS域主**機名/IP地址**以及管理**員使用者**名和**密碼。選擇**UCS Central的**主機名/IP地址** (Hostname/IP Address),然後按一下**Register**(註冊)。(在註冊域時,始終使用主機名作為IP地 址註冊UCS中心的最佳做法是使用DNS條目進行更改)。

Domain to UCS Central Register

Policy	UCS Central System Profile - Date & Time	
Resolution Control	In addition, if HTTPS is supported on the Domain, it must be enabled in order to register with UCS Centr	ral.
	UCS Domain Hostname/IP Address *	
	ucsdomain.cisco.com	
	UCS Domain User Name *	
	admin	
	UCS Domain Password	
	Registration Hostname/IP address from UCS Central	
	hk-central-2	
	Cisco best practice is to register UCS Domains to UCS Central using the Fully Qualified Domain Name (FQDN). If you register the UCS Domain to UCS Central using an IP address and later change the IP address of UCS Central, you will need to unregister and re- register the UCS Domain to UCS Central. UCS Central System Profile - DNS	

可以從Configuration Status頁籤監控FSM狀態。

			Register Domain
▼ Filter ↑ Export 🗓 Delete 🖾 Unregister Domain			
UCS Domain	Timestamp	Registration Status	Q
172.16.16.153	17-Aug-2017 3:42:05 PM	In Progress	

常見註冊問題故障排除:

案例 1:從UCS中心註冊域時,UCS域的管理員密碼錯誤。

修正:請更正管理員密碼,然後重試註冊。

來自UCS Central的FSM狀態

* ?

Domain Registrations Configuration Status

Registra	ation Fail	status Registratior	n Fail	Progress Status		FSM Details	
current Stag Authori: Credent	^{ge Name} zing Admin tials	stage Status Failed		Retries 1]	Time Stamp 17-Aug-2017 3:40:54	4 PM
Order	Name		Description		Timestamp	Retries	Status
3	Remote Domain Reg Check Sta	atus				0	Skipped
2	Remote Domain Reg Push Sha	red Secret				0	Skipped
1	Authorizing Admin Credentials	i	Authorizing the admin remote domain(FSM- STAGE:sam:dme:Polio nReg:Registration)	n credentials against the cyControlEpOpRemoteDomai	17-Aug-2017 3:40:54 PM	1	Failed

* ?

Close

案例 2:UCS中心和UCS域時間未同步。

修正:同步UCS中心和UCS域上的時間,然後重試註冊。

請參閱以下連結中的UCS Manager中的強制時間同步以更正時間。

https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-central/GUI-User-Guides/Operations/b_UCSC_Ops_Guide_2_0/b_UCSC_Ops_Guide_2_0_chapter_01100.html

來自UCS Manager的FSM狀態

All / Communication Management / UCS Central

UCS Central Providers	FSM Faults				
UCS Central Registration	Policy Resolution Control				
FSM Status	: In Progress				
Description	:				
Current FSM Name	: Repair Cert				
Completed at	:				
Progress Status	:	0%			
Remote Invocation Result	Resource Unavailable				
Remote Invocation Error Code	: 5				
Remote Invocation Description	: UCSM and UCS Central time	e is not synchronized. Retryin	ıg		
Step Sequence					
Order	Name	Description	Status	Timestamp	Retried
1	Repair Cert Verify Guid	verifying GUID of UCS Ce	In Progress	2017-08-17T22:41:53Z	1
2	Repair Cert Unregister		Pending		0
3	Repair Cert Clean Old Data		Pending		0
4	Repair Cert Request		Pending		0
5	Repair Cert Verify		Pending		0

案例 3:從UCS域註冊時輸入的共用金鑰錯誤。

修正:請輸入正確的共用金鑰,然後重試註冊。

請參閱以下連結中的**重置共用金鑰**以更改共用金鑰。

https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-central/install-upgrade/2-0/b Cisco_UCSC_Install_and_Upgrade_Guide_2_0/b_Cisco_UCSC_Install_and_Upgrade_Guide_ 2_0_chapter_0101.html#task_8299DFA4853049068C7E384F5E8FF493

來自UCS Manager的FSM狀態

All / Communication Management / UCS Central

UCS Central Providers	FSM Faults				
UCS Central Registration	Policy Resolution Control				
FSM Status	: Fail				
Description	:				
Current FSM Name	: Repair Cert				
Completed at	2017-08-17T22:45:38Z				
Progress Status	:	0%			
Remote Invocation Result	: Failure				
Remote Invocation Error Code	: 5				
Remote Invocation Description	: shared secret mismatch				
Step Sequence					
Order	Name	Description	Status	Timestamp	Retried
Order 1	Name Repair Cert Verify Guid	Description verifying GUID of UCS Ce	Status In Progress	Timestamp 2017-08-17T22:43:10Z	Retried 2
Order 1 2	Name Repair Cert Verify Guid Repair Cert Unregister	Description verifying GUID of UCS Ce	Status In Progress Pending	Timestamp 2017-08-17T22:43:10Z	Retried 2 0
Order 1 2 3	Name Repair Cert Verify Guid Repair Cert Unregister Repair Cert Clean Old Data	Description verifying GUID of UCS Ce	Status In Progress Pending Pending	Timestamp 2017-08-17T22:43:10Z	Retried 2 0 0
Order 1 2 3 4	Name Repair Cert Verify Guid Repair Cert Unregister Repair Cert Clean Old Data Repair Cert Request	Description verifying GUID of UCS Ce	Status In Progress Pending Pending Pending	Timestamp 2017-08-17T22:43:10Z	Retried 2 0 0 0
Order 1 2 3 4 5	Name Repair Cert Verify Guid Repair Cert Unregister Repair Cert Clean Old Data Repair Cert Request Repair Cert Verify	Description verifying GUID of UCS Ce	Status In Progress Pending Pending Pending Pending	Timestamp 2017-08-17T22:43:10Z	Retried 2 0 0 0 0
Order 1 2 3 4 5	Name Repair Cert Verify Guid Repair Cert Unregister Repair Cert Clean Old Data Repair Cert Request Repair Cert Verify	Description verifying GUID of UCS Ce	Status In Progress Pending Pending Pending Pending	Timestamp 2017-08-17T22:43:10Z	Retried 2 0 0 0 0

案例 4:註冊期間, UCS Central無法與UCS Manager通訊

修正:確保UCSM和UCS Central over 443之間沒有防火牆阻止通訊。

來自UCS Manager的FSM狀態

All / Communication Management / UCS Central

UCS Central Providers	FSM Faults				
UCS Central Registration	Policy Resolution Control				
FSM Status	: In Progress				
Description	:				
Current FSM Name	: Repair Cert				
Completed at	:				
Progress Status	:	0%			
Remote Invocation Result	: Not Applicable				
Remote Invocation Error Code	: None				
Remote Invocation Description	n :				
 Step Sequence 					
Order	Name	Description	Status	Timestamp	Retried
1					
1	Repair Cert Verify Guid	verifying GUID of UCS Ce	In Progress	2017-08-17T22:49:34Z	1
2	Repair Cert Verify Guid Repair Cert Unregister	verifying GUID of UCS Ce	In Progress Pending	2017-08-17T22:49:34Z	1 0
2 3	Repair Cert Verify Guid Repair Cert Unregister Repair Cert Clean Old Data	verifying GUID of UCS Ce	In Progress Pending Pending	2017-08-17T22:49:34Z	1 0 0
2 3 4	Repair Cert Verify Guid Repair Cert Unregister Repair Cert Clean Old Data Repair Cert Request	verifying GUID of UCS Ce	In Progress Pending Pending Pending	2017-08-17T22:49:34Z	1 0 0 0
2 3 4 5	Repair Cert Verify Guid Repair Cert Unregister Repair Cert Clean Old Data Repair Cert Request Repair Cert Verify	verifying GUID of UCS Ce	In Progress Pending Pending Pending Pending	2017-08-17T22:49:34Z	1 0 0 0 0
2 3 4 5	Repair Cert Verify Guid Repair Cert Unregister Repair Cert Clean Old Data Repair Cert Request Repair Cert Verify	verifying GUID of UCS Ce	In Progress Pending Pending Pending Pending	2017-08-17T22:49:34Z	1 0 0 0
2 3 4 5	Repair Cert Verify Guid Repair Cert Unregister Repair Cert Clean Old Data Repair Cert Request Repair Cert Verify	verifying GUID of UCS Ce	In Progress Pending Pending Pending Pending	2017-08-17T22:49:34Z	1 0 0 0