# 從UCS Central升級UCS韌體

## 目錄

<u>簡介</u> <u>採用元件</u> <u>設定</u> <u>程式</u>

# 簡介

本文檔介紹從UCS Central升級單個域的步驟。

以前,使用者為每個域組安排基礎設施韌體更新。Cisco UCS Central 1.5及以上版本已改變了此功 能。現在,您可以使用維護組和標籤安排特定域或分配給域組的域的基礎設施韌體更新。

# 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

# 設定

您可以根據產品系列觸發一個域、多個域或屬於某個域組的域上的基礎架構韌體更新。例如,您可 以更新所有Cisco UCS Mini系統上的基礎設施韌體,而不更新任何刀鋒伺服器。另一個示例是,您 可以更新西海岸的所有維護組,但東海岸不更新。以下是所需初步步驟的概述。

## 程式

按一下UCS Central中的「工具」圖示以啟動Infrastructure Firmware Management。列出了韌體升級的步驟。



cisco	UCS Central 🛛 What are you looking for?	Q What do you want to do?	admin 💶 🐥 😵 😨 🥵
			, •
	Infrastructure Firmware Managemer	nt	()   * +   # * ?
	Maintenance group Scheduled for User ack Q No results found	There are no infrastructure firmware update jobs scheduled.         • To create values for maintenance group tags, click here         • To open the full infographic in a new tab, click here         Infrastructure Firmware Update Scheduling Steps         1       • Register UCS domains with Clicco UCS Central.         2       • Pagester UCS domains with Clicco UCS Central.         3       • Ouring registration, subscribe to the infrastructure and caled firmware poloy and make it a global poloy.         3       • Ouring registration end to the appropriate infrastructure firmware image from the image Library.         4       • Ouring registration end to the appropriate infrastructure firmware         5       • Ouring registration end to the appropriate infrastructure firmware         6       • Ouring registration end to the appropriate infrastructure firmware         6       • Ouring registration end to the appropriate infrastructure firmware         6       • Ouring registration end to the appropriate infrastructure firmware         7       • Ouring registration end to the appropriate infrastructure firmware         7       • Ouring registration end to the appropriate infrastructure firmware         8       • Ouring registration end to the appropriate infrastructure firmware         9       • Ouring registration end to the appropriate infrastructure firmware         9       • Ouring to the appropriate infrastructure firmware </th <th></th>	
	<4 b>	7       Image: Second sec	
-diada	© 2017 Cisco Systems, Inc. All rights reserved. Version 2.0(1a)		Aug-07-2017 2:53 PM

步驟1 確保UCS域已向UCS Central註冊。

有關詳細資訊,請參閱Cisco UCS Central入門指南。

cisco	UCS Central	What are you looking for?	Q What o	do you want to do?	-	admin	<b>B &amp; @ @ @ @</b>
	< 🏼 Dashboa	ard 🕹 Infrastructure Firmware Management	* 🖷 Domains 🔭 📮 D	omain Management ×			> •
	Domain	Management					0   * ?
æ	Domain	Domain Registrations	_				🖍 Register Domain
	Registrations	Filters	▼ Filter ↑ Export 📋				
		Registration Status	UCS Domain		Timestamp	<b>Registration Status</b>	Q
ø	Lost Domains	Registered In Progress	172.16.16.153		03-Aug-2017 11:50:54 PM	Registered	
6		Failed					

第2步在註冊期間,確保Infrastructure & Catalog Firmware的策略解決方案設定為全域性。

來自UCS Central的策略解決方案

# Domain to UCS Central Register

Policy Resolution Control	Infrastructure & Catalog Firmware Time Zone Management	Local Global	policy are defined in UCS Manager or in UCS Central
Resolution Control	Time Zone Management		
Control		Local Global	
	Communication Services	Local Global	
	Global Fault Policy	Local Global	
	User Management	Local Global	
	DNS Management	Local Global	
	Backup & Export Policies	Local Global	
	Monitoring	Local Global	
	SEL Policy	Local Global	
	Power Allocation Policy	Local Global	
	Power Policy	Local Global	
	Equipment Policy	Local Global	

#### 來自UCS Manager的策略解決方案

UCS Central Providers FSM Faults	
Actions	Properties
Register With UCS Central	Hostname/IP Address : 172.16.16.190
Unregister From UCS Central	Policy Resolution Control
Status	Infrastructure & Catalog Firmware : Local  Global Determines whether the Capability Catalog
Repair State : 🕇 Done	and infrastructure firmware policy are defined locally or come from Cisco UCS Central.
Registration Status :   Registered	The Territory Determines whether the time zone and NTP
Global	server settings are defined locally or comes from Cisco UCS Central.
Suspend State :	
Acknowledge State :	Communication Services : Local  Colored 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 : Local  Global Determines whether the Global Fault Policy is defined locally or in Cisco UCS Central.
	User Management : Local  Clocal  Cloca
	DNS Management : CLocal  Global Determines whether DNS servers are defined locally or in Cisco UCS Central.

步驟3 從映像庫下載相應的基礎架構固**件映像**。



可使用Import firmware bundle選項手動下載

cisco	UCS Central	What are you looking	for?	Q, Wh	at do you want to do?	•	admin 💶 🐥 🛠	9 C
	< III Dashbo	oard 🛃 Image Library 🎽						> •
	Image L	ibrary					0 😤	* ?
ж	Packages	Filters	Y Filter ↑ Exp	bort î 🖄			Schedule Periodic Firmware Image Syncs	
		Firmware Type	Version	Туре	Image Bundle		Synchronize Firmware Updates	Q
e	Downloads	B Series     C Series     Infrastructure     Canability Catalon	2.1(2c)B	B Series Software for the UCS B-Series blade server	ucs-k9-bundle-b-series.2.1.2c.B.bin 315 MB		Import Firmware Bundle Cisc	ading b.com

如果使用者憑證在Cisco.com帳戶中設定,可以直接從Cisco.com下載映像。

li.ili. cisco	UCS Central	What are you looking f	or?	Q, Wh	at do you want to do?	• admin	B 🕀 👁 👁	9 G
	< 🏼 Dashbo	ard 🛃 Image Library 🕷					System Profile	> <b>•</b>
	Image L	ibrary					System Policies User Settings	* ?
æ	Packages	Filters	Y Filter ↑ Exp	ort î 生			Authentication	
_		Firmware Type	Version	Туре	Image Bundle		SNMP	Q
ø	Downloads	C Series Infrastructure Capability Catalog	2.1(2c)B	B Series Software for the UCS B-Series blade server products	ucs-k9-bundle-b-series.2.1.2c.B.bin 315 MB		Smart Call Home Licenses	om
۵		UCS Central	2.1(2d)B	B Series Software for the UCS	ucs-k9-bundle-b-series.2.1.2d.B.bin 315 MB		Cisco.com Account	le For rt
<		Status		B-Series blade server products			Cisco	o.com

步驟4 創建維護組標籤。

可以針對每個域組應用維護組標籤

## Maintenance Group Tag Create

Domains must be tagged with a Maint selected domains are tagged with it.	enance Group tag to schedule an infrastructure firmware update. When you create a Maintenance Group tag in this dialog, all
Maintenance Group Tag Value * Tag	
Select how to apply tags to Domains By Domain Group Manually	
The Maintenance Group tag applies to domain group. If you select to include	all existing domains within the Domain Group. It will not be applicable to any new domains that get added further to the sub-domain groups, the Maintenance Group tag also applies to all sub-domain groups.
Domain Group NA-6200	
Include all Sub-Domain Groups	

Cancel Create

?

#### 維護組標籤可以應用於每個域。我們將單獨應用到該域。

## Maintenance Group Tag Create

Tag						
lect how to apply tags to Domains By Domain Group Manually						
Filters		Domain	Hardware	Configuration	Status	Q
omain Group Ungrouped root	~	ANF-UCSPR06 root 172.16.16.153	UCS-FI-6248UP Fabric A, B (HA) 1 Chassis 0 FEX 3 Blades 0 Rack Mounts	UCS 6100/6200 Series FI 3.1(3a)A 3.1(3)SP0(Default) FW Set Startup	OK Fault Level: Major	
latform UCS 6100/6200 Series Fl						

您可以驗證建立的標籤是否在標籤管理下將標籤型別作為維護組。

	Tag Ma	nagement							0 * ?
æ	Tags	Tag Managemer	nt						
		Filters		T Filter + Expo	ort 📋 Remove				
	Tag Types	Тад Туре		Tag		Тад Туре	Referenced Name	Referenced Type	Q
ø		Maintenance Group		tag		Maintenance Group	ANF-UCSPR06 root	Domain	
		Orgs							
		Domain Group							
<		root							
~									
Ē									
	Tag Management	1							
es.									
*									
				<1 1-1 of 1	65				

#### **步驟5**域將具有新建立的標籤

.ı ı.ı ı. cısco	UCS Central 🗧 What are you looking for?	Q What do you want to do?	•
	III Dashboard Domains * ANF-UCSPR06 *		
	ANF-UCSPR06 Domain		
	Basic Overall Status		

#### **第6步**從工具圖示啟動基礎設施韌體管理。

#### 基礎架構韌體管理

admin 💶 🚑 ≪	🌣 ? G
 Infrastructure Firmware Management	
Image Library Backup Management	> ▼

選擇Maintenance組的標籤、Infrastructure韌體版本和目錄版本。

基礎架構韌體更新

#### Infrastructure Firmware Update Schedule

tag 👻	Catalog Version				
Infrastructure firmware v	Version Force Deploy	Disabled			
UCS 6100/6200 Series Fabric Interconne	ect Evacuation	Disabled			
2.2(8g)A 👻	line in a stand allo inco	in a	Circovers etc		
UCS 6100/6200 Series Service Pack	Impacted doma	INS	Firmware sta	itus	
UCS Mini 6300 Series Fabric Interconnec	t i	-			
None 👻		0 Not subscribed		Ready	
UCS Mini 6300 Series Service Pack	1	1 Impacted	1	0 Scheduled	
			'	In Progress	S
Nono				Failed	
				Pending	
UCS 6300 Series Service Pack					
				Acknowled	lgement
Catalog version				Acknowled /Permissio	lgement on
Catalog version None •				Acknowled /Permissic	igement on
Catalog version None	Impacted Dom	ains		Acknowled /Permissic	lgement on
Catalog version None  Force Deploy	Impacted Dom	ains Current Version	Firmware Status	Acknowled /Permissio Domain Status	lgement on Q
Catalog version None  Force Deploy Enabled Disabled	Impacted Dom Domain	ains Current Version 3.1(3a)A	Firmware Status	Acknowled /Permissio Domain Status OK	lgement on Q
Catalog version None   Force Deploy Enabled Disabled Enabled	Impacted Dom Domain ANF-UCSPR06 UCS 6100/6200 Series	ains Current Version 3.1(3a)A 3.1(3)SP0(Default)	Firmware Status Ready	Acknowled /Permissio Domain Status OK	lgement on Q
Catalog version None Force Deploy Enabled Disabled Evacuation Evacuation Evacuation	Impacted Dom Domain ANF-UCSPR06 UCS 6100/6200 Series	ains Current Version 3.1(3a)A 3.1(3)SP0(Default)	Firmware Status Ready	Acknowled /Permissio Domain Status OK	igement on Q

在User acknowledgement required to install欄位中,選擇更新是否需要**使用者確認**。如果已啟用 ,則必須在更新域之前手動確認更新請求。在此案例中,我們已將其設定為啟用。

User acknowledgement required to install



監控受**影響的域**,並等待掛起確認設定為1。



# **步驟7** 在Pending Activities下,您可以確認Pending Acknowledgement</mark>狀態以開始升級。

cisco	UCS Central 📃 What	are you looking for?	Q	What do you want to	o do?	•	admin 💶	🏊 🐼 🐼 🕄 G
	< III Dashboard 🕹 Infrastructure Firmware Management * 💁 Pending Activities *							
8	Pending Activities							
<b>.</b>	Filters	T Filter + Exp	ort					
	Domain Group	Name	Configuration	Туре	Schedule	Status	Pending Changes	Q
	Ungrouped	ANF-UCSPR06 root	N/A	Infra FW Update	Maintenance Group Scheduler tag	Pending Acknowledge	ment	Acknowledge
e								