# 为C系列和E系列服务器配置思科IMC管理引擎

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简介 先决条件 要求 使用的组件 UCS C系列服务器 <u>UCS E 系列服务器</u> 最低固件版本 支持的PCiE卡 支持的虚拟机监控程序版本 背景信息 配置 部署思科IMC管理引擎 更改默认密码 <u>许可信息</u> 发现服务器 添加机架组 添加机架帐户 邮件设置配置 固件升级 将技术支持数据导出到远程服务器 验证 故障排除

# 简介

本文档介绍如何为C系列和E系列服务器配置思科集成管理控制器(IMC)管理引擎。

## 先决条件

## 要求

Cisco 建议您了解以下主题:

- 思科C系列服务器
- 思科E系列服务器

## 使用的组件

本文档中的信息基于以下软件和硬件版本:

- Internet Explorer 8 或更高版本
- Google Chrome 4.1或更高版本
- Firefox 3.5或更高版本
- Safari 4.0或更高版本(适用于Apple MAC或Microsoft Windows)
- •浏览器需要Adobe Flash Player插件版本11或更高版本。

### UCS C系列服务器

- 思科UCS C-220 M3
- 思科UCS C-240 M3
- 思科UCS C-220 M4
- 思科UCS C-240 M4
- 思科UCS C-22 M3
- 思科UCS C-24 M3
- 思科UCS C-420 M3
- 思科UCS C-460 M4

### UCS E 系列服务器

- 思科UCS E-140S M2
- 思科UCS E-160D M2
- 思科UCS EN120E M2
- 思科UCS EN120S M2
- 思科UCS E-180D M2
- 思科UCS E-140S M1
- 思科UCS E-140D M1
- 思科UCS E-160D M1
- 思科UCS E-140DP M1
- 思科UCS E-160DP M1

### 最低固件版本

### 服务器 最低固件版本

UCS C系列服务器 1.5(4) 及更高版本 UCS E 系列服务器 2.3.1 及更高版本

### 支持的PCiE卡

- 思科UCS虚拟接口卡(VIC)1225
- 思科UCS VIC 1225T

#### 支持的虚拟机监控程序版本

• ESXi 5.1

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原 始(默认)配置。如果您使用的是真实网络,请确保您已经了解所有命令的潜在影响。

# 背景信息

思科IMC管理引擎是一个管理系统,允许您大规模管理机架式服务器。

您可以使用思科IMC管理引擎为机架安装服务器执行以下任务:

- 支持按组对服务器和摘要视图进行逻辑分组
- 收集服务器的资产
- •为服务器和组提供监控功能
- •固件管理,包括固件下载、升级和激活
- •管理独立服务器操作,包括电源控制、LED控制、日志收集、键盘/视频/鼠标(KVM)启动、 CIMC用户界面启动和电子邮件警报
- •基于角色的访问控制(RBAC),以限制访问和功能

## 配置

## 部署思科IMC管理引擎

1.完成以下步骤以部署思科IMC管理引擎。

步骤1.要从Cisco.com下载Cisco IMC管理引擎的zip文件,请导航至**Products > Servers-Unified** Computing > Integrated Management Controller(IMC)Supervisor,如图所示。

		Find: Product Name e.g. 2811
Products Recently Used Products My Added Devices Add Device	Application Networking Services Cisco Interfaces and Modules Cloud and Systems Management Collaboration Endpoints Conferencing Connected Safety and Security Customer Collaboration IOS and NX-OS Software Optical Networking Routers Security Servers - Unified Computing Service Exchange Storage Networking Switches Unified Communications Universal Gateways and Access Servers Video Wireless	C800 Series Integrated Management Controller (IMC) Supervisor UCS B-Series Blade Server Software UCS C-Series Rack-Mount Standalone Server Software UCS C-Series Rack-Mount UCS-Managed Server Software UCS Central Software UCS Director UCS E-Series Software UCS Express UCS Infrastructure and UCS Manager Software UCS Invicta Series Solid State Systems UCS Management Partner Ecosystem Software UCS Performance Manager Virtual Application Container Services (VACS)

步骤2.如图所示选择IMC Supervisor 1.0。

		Find: Product Name e.g. 2811
Products	C800 Series	IMC Supervisor 1.0
Recently Used Products My Added Devices Add Device	Integrated Management Controller (IMC) Supervisor UCS B-Series Blade Server Software UCS C-Series Rack-Mount Standalone Server Software UCS C-Series Rack-Mount UCS-Managed Server Software UCS Central Software UCS Director UCS E-Series Software UCS Express UCS Infrastructure and UCS Manager Software UCS Invicta Series Solid State Systems UCS Management Partner Ecosystem Software UCS Performance Manager Virtual Application Container Services (VACS)	

## 步骤3.单击"**下载**",如图所示。

#### IMC Supervisor 1.0

Search Expand All   Collapse All	Release 1			Add Devices
✓ Latest	File Information	Release Date 🔻	Size	
<ul> <li>All Releases</li> <li>▶ 1</li> </ul>	Cisco Integrated Management Controller Supervisor 1.0 (MD5 Checksum - 4 a2803e35b40b63c497e8d5371ab118e ) CIMCS_1_0_0_0_VMWARE_GA.zip	24-NOV-2014	2705.08 MB	Download Add to cart Publish

步骤4.要部署开放虚拟设备(OVA),请导航到**文件>部署OVF模**板,如图所示。



步骤5.继续逐步完成流程,以部署开放虚拟化格式(OVF)模板,如图所示。

Deploy OVF Template	
Source Select the source location.	
Source OVF Template Details End User License Agreement Name and Location Storage Disk Format Network Mapping Ready to Complete	Deploy from a file or URL <u>VIMC Supervisor CIMCS 1.00.0 VMWARE GA cimcs 1.00.0.0v1</u> Browse Enter a URL to download and install the OVF package from the Internet, or specify a location accessible from your computer, such as a local hard drive, a network share, or a CD/DVD drive.

OVF Template Details.         Source         OVF Template Details         End User License Agreement         Name and Location         Storage         Disk Format         Network Mapping         Ready to Complete         Download si:         Size on disk:         Description:         Description:         Deploy OVF Template         Name and Location         Specify a name and location for the deploy	Cisco_IMC_Supervisor-1.0.0.0 1.0.0.0 Cisco Systems No certificate present ize: 2.6 GB :: Unknown (thin provisioned) 100.0 GB (thick provisioned) : Cisco IMC Supervisor - 1.0.0.0 Note: It is mandatory to reserve vCPU and Memory as recommended by
Source       OVF Template Details       Product:         End User License Agreement       Version:       Version:         Name and Location       Vendor:       Product:         Disk Format       Vendor:       Product:         Network Mapping       Publisher:       Download size         Ready to Complete       Download size       Size on disk:         Download Size       Description:       Description:         Deploy OVF Template       Name and Location       Specify a name and location for the deploy	Cisco_IMC_Supervisor-1.0.0.0 1.0.0.0 Cisco Systems No certificate present ize: 2.6 GB :: Unknown (thin provisioned) 100.0 GB (thick provisioned) : Cisco IMC Supervisor - 1.0.0.0 Note: It is mandatory to reserve vCPU and Memory as recommended by
Deploy OVF Template Name and Location Specify a name and location for the deploy	Installation and Deployment guide.
	ιyed template
Source       Name:         OVF Template Details       Cisco_IMC_S         End User License Agreement       The name car         Name and Location       The name car         Storage       Disk Format         Network Mapping       Ready to Complete	Supervisor-1.0.0.0 an contain up to 80 characters and it must be unique within the inventory folder.

Deploy OVF Template Storage Where do you want to store the virtual machine files? Select a destination storage for the virtual machine files: Source 
 Name
 Drive Type
 Capacity
 Provisioned
 Free
 Type
 Thin Provisioning
 Access
 OVF Template Details End User License Agreement Supported Single host datastore1 (1) Non-SSD 63.25 GB 5.15 GB 58.29 GB VMFS5 Name and Location datastore1 (3) Supported Non-SSD 63.25 GB 971.00 MB 62.30 GB VMFS5 Single host Storage Disk Format Network Mapping Ready to Complete Disable Storage DRS for this virtual machine

## 在"磁**盘格式**"窗格中,选择一个单选按钮,然后单击**"下**一步",如图所示。

- •精简调配 在将数据写入磁盘时按需分配存储
- •密集调配延迟归零 以立即以密集格式分配存储
- 密集调配急切置零 以便以密集格式分配存储。使用此选项创建磁盘可能需要更长的时间

ć	Deploy OVF Template	Region rep	3 >	3
	<b>Disk Format</b> In which format do you wa	nt to store the virtual disks?		
ſ	Source OVE Template Details	Datastore: datastore1(1)		
	End User License Agreement Name and Location	Available space (GB): 58.3		
	Disk Format			
	Network Mapping	C Thick Provision Lazy Zeroed		
	Ready to Complete	C Thick Provision Eager Zeroed		
		Thin Provision		

步骤6.为虚拟机(VM)网络选择适当的端口组,如图所示。

🕖 Deploy OVF Template	Napisa Map			x
Network Mapping What networks should the de	eployed template use?			
Source OVF Template Details End User License Agreement Name and Location	Map the networks used in this OVF template to networks	vorks in your inventory DestinationNetworks		
Storage Disk Format Network Mapping Ready to Complete	Network 1	VM Network		

步骤7.单击"**完成**",如图所示。

🕗 Deploy OVF Template	Region may	
Ready to Complete Are these the options you w	want to use?	
Source OVF Template Details End User License Agreement Name and Location Storage Disk Format Network Mapping Ready to Complete	When you dick Finish, the deployment Deployment settings: OVF file: Download size: Size on disk: Name: Host/Cluster: Datastore: Disk provisioning: Network Mapping:	t task will be started. C:\Users\mohammhu\Desktop\IMC Supervisor\CIMCS_1_0_0_VMWARE_GA\dmcs_1_0 2.6 GB Unknown Cisco_IMC_Supervisor-1.0.0.0 localhost. datastore1 (1) Thin Provision "Network 1" to "VM Network"
Help		< Back Finish Cancel

步骤8.打开VM的控制台并接**受许**可协议,如图所示。

🕜 Ci	sco_IM	C_Superviso	r-1.0.0.0	0 on lo	calhos	st.local	domaiı	
File	View	VM	1	Ø	6724			<b>黑</b> 夜
					μ		V	
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		LICEN	SE TO		E TH	E SC	FTWA	RE AND THE LIMITED WARRANTY IN THIS END USER LICENSE A
		WNLOAD	ING,	INS	TALL	ING	OR U	ISING CISCO OR CISCO-SUPPLIED SOFTWARE CONSTITUTES ACCE
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		SOFTWA	RE FF S ENI	ROM A	AN A	PPRO ICEN	IVED ISE A	SOURCE AND THAT YOU ACCEPT ALL OF THE TERMS CONTAINED GREEMENT PLUS ANY ADDITIONAL LIMITATIONS ON THE LICENS
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		B) YOU	MAY	RETI	JRN	THE	SOFT	WARE (INCLUDING ANY UNOPENED CD PACKAGE AND ANY WRITTE
		nore	(0/	.,_				

步骤9.完成后,输入**y**以配置静态IP,如图所示。

步骤10.如果要使用DHCP,请输入**n**以确保自动分配IP地址。

🕜 C	isco_IN	IC_Sup	ervisor	-1.0.0.	0 on lo	calho	st.local	domai	n		-				_		- • ×
File	View	VM															
			6	1	(A)	1	R	Ø	<b>B</b> 2								
		1					_	-	-								
					no	t in	mlu	a n	artnershin relatio	unshin hetu	leen Ci	isco and	anu o	ther	comna		
					110		"P 19	ч р.	a choronip retain	Jught be tw		1500 4114	ang o	01101	compa		
					Do	you	agre	e w	ith the terms of t	the End Use	er Lice	ense Agre	ement	?			
					yes	/no	[no]	l: y	25								
					Reg	ener	ratir	ng s:	sh host keys								
					ope	nssl	i-dae	emon	is stopped				. <b>F</b>				
					Gen	erat	ing	22H	I KSA host key:				L	UK	1		
					Gen	erat	ing.	22H	2 NSA host keu:				L F	08	1		
					Sta	rtir	, ring na ss	shd :	s bon nost key.				Г	UK	1		
					Rea	ener	atir	na k	eus for the root (	iser			-		<u>ੱ</u>		
					Gen	erat	ing	pub	lic/private rsa ku	eu pair.							
					Cre	ated	l dir	ect	ory '/root/.ssh'.	51							
					You	r id	lenti	ific	ation has been say	ved in ∕roo	ot∕.ssl	h∕id_rsa.					
					You	r pu	ublic	: ke	y has been saved	in ∕root∕.s	sh∕id_	_rsa.pub.					
					The	keu	, fir	iger	print is:		00.1	(0)					
					a7:	34:1	07:18	1:89	:aZ:Z7:3b:45:ab:90	5:72:97:7d:	f3:de	rooteloc	alhos	t			
					Gen	erat	ing	29T	certificates for	SICD IN /O	pt/Omi	Jare/etc/	SICD	ight	End		
					Thi	5 51	rint	is	executed on first	t boot onlu		ι/ Villwα1·C/	C 6 6 / 1	ranc	ւրս		
					Con	figu	iring	st	atic IP configura	tion							
					Do		112.24	+ + 0	Configune statio		,						
					DO	you	Want	ι το	configure static	ir tyzni:	• y_						

步骤11.如果要使用静态IP地址,请输入y,然后系统提示您选择IPv4或IPv6。输入V4以配置 IPV4,然后输入图像中所示的信息:

• IP 地址网络掩码网关

注意:目前,仅支持IPv4以配置静态IP地址。



步骤12.设备启动后,将思科IMC管理引擎IP地址传输到支持的Web浏览器以访问登录页。

在"登录"(Login)页面中,**输入**admin作为用户名,**输入**admin作为密码。

**注意**:您可以在初次登录后更改管理员密码。

◆ ● https://10.104.213.77:443	∀ <b>C</b> <sup>i</sup>	Q. Search
🧾 Most Visited 🗍 Getting Started 🤚 Cisco Dashboards 🔒 Common Tools Ы Internal Suppo	ort 📙 TAC-Tools 📆 B-Series - Tech Zone 🛄 Rebuild 6100 from scra	
	Cisco IMC Supervisor	
	Username: admin	
	Password: •••••	
	Login	
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### 更改默认密码

2.完成以下步骤以更改默认密码。

步骤1.导航至"管理">"用户"。

步骤2.单击Login Users选项卡。

步骤3.从用户列表中,选择要更改密码的用户角色,如图所示。

Dashboard	Systems ¥ Po	icies 🔻 🛛 Admini	stration * Faurites						
Users		2							
License Status	Login Users	fine Us	ers Login Page Branding	Authentication Prefe	31 1049	ntegration P	assword Policy		
🚯 Refresh	🖪 fevorite - 🍦	Add 🔣 View	📄 Edit 🕌 Delete 🔰 G	ihangePassword 🥠	age Profi	les 🛛 🁙 Manaj	pe Tag – 🌵 A	id Tags 🛛 💥 Dele	te Tags
Login Users									
Login Name	First Name	Last Name	AccessLevel	User Group	Contact Em	Source	Domain	LDAP Accou	Tags
admin			🔒 System Admin			Local			
infraUser			💄 System Admin			Local			
					Change Pass	word			
					New Passwo	rd *****	*****	•	
					Confirm Pas	isword ******	*****	•	
							Sa	ve Close	1

步骤4.指定新密码后,单击"保存"**,然**后单击**提交结**果上的"确定",如图所示。

Change Password							
New Pass	Submit Result	*					
	Password modified successfully.						
Confirm P	ОК	*					
	Save	Close					

## 许可信息

3.思科IMC管理引擎要求您拥有以下有效许可证:

- 思科IMC管理引擎基础许可证。
- 在思科IMC管理引擎基础许可证之后安装的思科IMC管理引擎批量终端启用许可证,如图所示。

Dashboard Systen	ns 🔻 Policies 🖲	Administratio	n 🔻 🛛 Favorite	5				
License								
License Keys License Utilization Resource Usage Data								
🛞 Refresh 🔟 Favorite 🛛 🏶 Update License 🏽 🎒 Run License Audit								
License Utilization								
License	Licensed Lin	Available	Used	Status	Remarks			
CIMC SUP Base	1		1	Licensed				
Physical Servers	200	200	0	Licensed	Licensed Limit = CIMC-SUP-B01(=2) * 100+ CIMC-SUP-B02(=0) * 250+ CIMC-SUP-B10(=0) * 1000			

**注意:**除非您有这些许可证,否则无法执行将服务器分组到机架帐户等任务。

### 发现服务器

4.执行这些操作以发现服务器。

步骤1.导航至System > Physical Accounts > Discovered Devices,如图所示。

uluilu C	cisco IMC	Supervisor
Dashboard	Systems 🔻	Policies  Administration  Favorites
Physical Accou	Inventory a	and Fault Status
Rack Groups	Physical Ac	counts nts Discovered Devices Firmware Upgrades

步骤2.单击Configure。

步骤3.在"发现配置条件"对话框中,可以创建新配置文件或编辑现有配置文件。

步骤4.创建新配置文件如图所示。

步骤5.在搜索条件中,您可以选择适当的方法来发现服务器。

步骤6.为本**例选择IP**地址列表。

ditalte Cisco IMC Supervisor		
Dashbaard Systems • Administration • Pavor Physical Accounts [Liense Status ] Rack Groups ] Rack Accounts Geovered Device @ Refresh [] Pavorite @ Configure (	2 Discovery Configuration Criteria	
Discovered Devices           Divice IP         Model         Version           Image: Control of the second secon	Select Profile Internation IIP Address Range Starting IP Starting IP Ending IP IP Address Starting IP Subret Mask Range IP Address CSV File Ending IP IP Address List Example: 12:0.0.X+X serX+1 (Note: Ensure there are no leading or trailing space Use Credential Policy	Profile Name
	Uter Name • Password • Protocol <u>https •</u> Port 443 • Submit	Close

步骤7.输入要发现的服务器的IP地址。

步骤8.输入您用于登录服务器的用户名和密码(CIMC凭证),如图所示。

Dashboard System	ns 🔻 Policies 👻 Ad	dministration 🔻	Favorites		
Physical Accounts					
License Status Rack	Groups Rack Account	Discovered	d Devices Firm	are Upgrades	
🛞 Refresh 🔡 Favo	orite 🛛 🌞 Configure	🜸 Discover 🛛	a Import 💥	Discovery Configuration Criteria	
Discovered Devices				Select Profile test 💌	
Device IP	Model	Version		Search Criteria IP Address List	
10.76.78.44			🤪 Failed		
10.76.78.68	UCSC-C240-M3S2	2.0(3d)	Success	IP Addresses 10.76.78.44 *	1
10.76.78.72			🤪 Failed	Example: 12.1.0.1,12.1.0.2,12.1.0.3-20	,2
10.76.78.70	UCSC-C22-M3S	1.5(5)	Success	Use Credential Policy	.4
			_		
			_	User Name admin *	
				Password ************************************	
				Protocol https 💌	
				Port 443	
					Submit Close

步骤9.创建配置文件后,从下拉列表中单击**Discover**和Select Profile,如图所示。

Dashboard System	Policies 👻 🗛	dministration $oldsymbol{v}$	Favorites	
Physical Accounts				
License Status Rack G	iroups   Rack Account	Discovered	d Devices Firmware Upgrades	
🛞 Refresh 🛛 🖪 Pavor	rite 🛛 🌞 Configure	🌞 Discover 🤙	mport 💥 Delete Profile 🛛 🐥 Clea	r.
Discovered Devices				
Device IP	Model	Version	State	Status
10.76.78.44			🤪 Failed	"Model R250-2480805 is not supported."
10.76.78.68	UCSC-C240-M352	2.0(3d)	Success	N/A
10.76.78.72			🤪 Failed	"Version is not supported. Only versions above 1.5(4) are supported."
10.76.78.70	UCSC-C22-M3S	1.5(5)	Success	N/A
				Discover Devices
				Select Profile test test test_1 test_4

步骤10.选择适当的配置文件后,单击"提交"**,然**后单击**"**提交结果"上的"确定",如图所示。

	Discover Devices	
	Select Profile test 🔻	
Submit Result	Submit	Close
Device discovery	initiated successfully.	

步骤11.如果配置文件中的设备不符合支持的最低标准,则未发现设备的原因如图所示的"状态"部分 所**列**。

Dashboard Systems ▼ Policies ▼ Administration ▼ Favorites								
Physical Accounts	Physical Accounts							
License Status Rack G	License Status Rack Groups Rack Accounts Discovered Devices Firmware Upgrades							
🛞 Refresh 🛛 🔝 Favori	🛞 Refresh 📑 Favorite 👙 Configure 👙 Discover 📑 Import 💢 Delete Profile 👙 Clear							
Discovered Devices								
Device IP	Model	Version		State		Status		
10.76.78.44			🥃 Failed			"Model R250-2480805 is not supported."	test	
10.76.78.68	UCSC-C240-M3S2	2.0(3d)	Success			N/A	test_1	
10.76.78.72			😝 Failed			"Version is not supported. Only versions above 1.5(4) are supported."	test_2	
10.76.78.70	UCSC-C22-M3S	1.5(5)	Success			N/A	test_4	

5.在思科IMC管理引擎中添加新机架组时,请执行此过程。

步骤1.导航至Systems > Physical Accounts > Rack Groups。

步骤2.单击"创**建"**。

步骤3.在"创建机架组"框中指定组名和说明。

步骤4.单击"**创建**",如图所示。

Dashboard Systems  Policies  Administration  Favorites	
Physical Accounts	
Rack Groups Rack Accounts Discovered Devices Firmware Upgrades	
🛞 Refresh 🔢 Favorite 🐁 Create 🚛 Hodify 💥 Delete	
Rack Groups	
Group Name	Description
Default Group Default provided rack group	
	Create Rack Group
	Group Name Test_Servers
	Description All test servers go here
	Create

#### 步骤5.创建后,组名必须显示,如图所示。

Dashboard	Systems 🔻 🛛 🖡	Policies 🔻	Administrati	ion 🔻	Favorites				
Physical Accou	Physical Accounts								
Rack Groups	Rack Accounts	Discove	red Devices	Firmw	vare Upgrades				
😵 Refresh	💷 Favorite 🛛 📍	Create	👙 Modify	💥 De	lete				
Rack Groups	Rack Groups								
Group Name									
Default Group	Default provid	ed rack gro	oup						
Test_Servers	All test server	s go here							

#### 添加机架帐户

6.在思科IMC管理引擎中添加新机架组时,请执行此过程。

步骤1: 从菜单栏中选择**系统**。

- 步骤 2 单击选项卡。
- 第3步: 单击。
- 第四步: 在创建帐户对话框中,填写以下字段:

字段 描述

机架帐户的描述性名称 字段 字段 机架安装服务器的IP地址 (可选) 机架帐户的说明 说明字段 (可选)如果已创建凭据策略,请选中此框以从下拉列表中选择策略。 复选框 如果选中此复选框 下拉列表 从下拉列表中选择策略 如果取消选中此复选框 机架安装服务器的登录ID 字段 密码字段 机架式服务器登录ID的密码 协议下拉列表 从列表中选择https或http 与所选协议关联的端口号 端口字段 机架组下拉列表 从列表中选择机架组。 (可选)帐户的联系人电邮地址 联系人字段 位置字段 (可选) 帐户的位置

步骤1.在机架组的下拉列表中,可以选择先前定义的**默认组**或组,如图所示。

步骤2.完成此操作后,指定的服务器必须位于您选择的机架组下。

Dashboard Systems -	Policies ¥ Administration ¥ F	avorites				
Physical Accounts						
Rack Groups Rack Accou	nts Discovered Devices Firmwar	e Upgrades				7
🛞 Refresh 🛛 🔝 Favorite	🗣 Add 🛛 💥 Delete		Create Accoun	t		
Rack Accounts			Account Name	BGL-14-Floor1-Rack1	•	
Account Name	Account Type	Connection Stat	Server IP	10.76.78.44	•	it Inventory Updated
BGL-14-Floor1-Rack3 BGL-14-Floor1-Rack2	Cisco Rack Server	Success     Success	Description	C22M3	]	6, 2014 06:21:12 UTC
				Use Credential Policy	1	NY LOLY CONSILS OIL
					1.	
			User Name		] *	
			Password	******		
			Protocol	https -		
			Port	443 *		
			Rack Group	Default Group		
			Contact	Default Group	]	
			Location		]	
					-	
					Submit Close	

### 邮件设置配置

7.执行此步骤以配置设置邮件。

步骤1.导航至Administration > Mail Setup。

步骤2.输入请求的详细信息。

步骤	图3.您可以选中Send	Test Email复选框,	并检查您是否i	己在您提供的电	,子邮件地址上	收到测试邮
件,	如图所示。					

cisco Cisco IMC Supervi	sor
Dashboard Systems <b>v</b> Policies <b>v</b>	Administration  Favorites
System	
System Information Mail Setup Sys	stem Tasks User Roles Email Alert Rules
Outgoing Email Server (SMTP)	10.106.93.10 *
Outgoing SMTP Port	25 *
Outgoing SMTP User	
Outgoing SMTP Password	
Outgoing Email Sender Email Address	mohammhu1@ciscolab.com *
Server IP Address	10.104.213.77 *
Test Email Address	☑ Send Test Email mohammhu2@ciscolab.com * Save

步骤4.然后必须接收测试邮件,如图所示。

Dashboard Systems 🔻 Policies 🔻	Administration <b>v</b> Favorites	
System		
License Status System Information	Mail Setup System Tasks User	Roles Email Alert Rules
Outgoing Email Server (SMTP)	10.106.93.10	
Outgoing SMTP Port	25	
Outgoing SMTP User	administrator	
Outgoing SMTP Password	****	
Outgoing Email Sender Email Addres	Submit Result	
Server IP Address	Successfully updated mail settings. succeeded.	Test email
	ок	

步骤5.在同一部分中,导航至"电子邮件警**报规则设置"**,然后选中"**启用警**报"复选框,如图所示。

**注意:**此时(使用Cisco IMC Supervisor的1.0版),仅支持关键和更高级别故障的通知。

	Dashboard	Systems 🔻 Policies 🔻	Admi	nistration 🔻	Favorites			
-	System							
	System Informa	tion Mail Setup Syste	m Taski	s User Role	Email Ale	rt Rule	s	
	🛞 Refresh 🛛	🖪 Favorite 🛛 🌞 Settings						
	Email Alert Rule	16						
	Alert Level	Email Addresses		Severity				Enabled
	SYSTEM	moahmmhu@ciscolab.co	m	critical	Yes			
							Email Alert Rule Settings	
							Email Addresses moahmmhu@ciscolab.com	•
							Severity critical	
							Inable Alert	
								Submit Close

步骤6.如果系统遇到严重故障,您必须收到如图所示的邮件,前提是邮件设置正常。

Server IP	Host name	Severity	Code	Cause	Description	Created	Affected DN
10.76.78.70	bgl-sv- c22-m3-01	critical	F1007	equipment- inoperable	Storage Virtual Drive 0 is inoperable: Check storage controller, or reseat the storage drive	Thu Dec 25 12:10:19 2014	sys/rack- unit-1/board /storage- SAS-SLOT- 2/vd-0

## 固件升级

8.在升级固件时,请执行此步骤。

步骤1.导航至Systems > Physical Accounts。

步骤2.单击选**项卡**。

步骤3.单击"配**置配置文件**"。

步骤4.在"下载**固件"**对话框中,可以创建新配置文件或编辑现有配置文件。

字段	描述
	从下拉列表中选择 <b>New</b> 。
字段	配置文件的描述性名称。
下拉列表	选择下列选项之一:
	• 本地HTTP服务器 — .iso映像存储在本地思科IMC管理引擎中。
	• 网络路径 — .iso映像存储在网络中。
字段	输入您的思科登录用户名。
字段	输入您的思科登录密码。
复选框	(可选)选中此复选框以启用代理配置并填写以下字段:
	• 主机名字段 — 输入代理配置的主机名
	• 端口字段 — 输入代理配置的端口
启用代理身份验证复选框	(可选)选中此复选框以启用代理身份验证并填写以下字段:
	•代理用户名字段 — 输入代理身份验证的代理用户名
	• 代理密码字段 — 输入代理用户名的密码
平台下拉列表	从下拉列表中选择平台。
下拉列表	从下拉列表中选择.iso映像。
· •	

步骤5.配置新**配**置文件,如图所示。

hysical Accounts	1			2		
Rack Groups Rack Acc	ounts Discovered	Devices 3	rmware Upgrades	<b>—</b>		
🛞 Refresh 🛛 🔝 Favor	ite 🛛 🁙 Configure P	rofile 🦛	pgrade Image 🛛 💥	Delete Image 🛛 💢 Dele	te Profile 🛛 👙 Clear	
Firmware Upgrades				Download Firmware		
Type Upgrade Image	Device IP 10.76.78.72	Model	Version N/A	Select Profile Profile Name	<new>  upgrade_2.0</new>	
				Download Option User Name (cisco.co	Local HTTP Server  Local HTTP Server Network Path	
				Password (cisco.com	Enable Proxy Configuration	
					Enable Proxy Authentication	
				Platform	<select></select>	
				Available Image	<b>•</b>	
					Co.	hmit Class

步骤6.为本例选择Network Path作为下载选项。(您有CIFS和NFS作为选项)

## 步骤7.单击"**提交**",如图所示。

ysical Accounts					
ack Groups Rack Accoun	ts Discovered	Devices Fir	mware Upgrade	5	
🚱 Refresh 🛛 🔃 Favorite	🌸 Configure P	rofile 🛛 🌞 Uş	ograde Image 🛛 🖇	🕻 Delete Imag	e 💥 Delete Profile 🛛 🙀 Clear
Firmware Upgrades					Download Firmware
Type	Device IP	Model	Version	Stat	Select Profile Upgrade 2.0 💌
Jpgrade Image	10.76.78.72		N/A	FAILEC	Download Option Network Path 💌 🚸
					Server Type CIFS 💌 🔦
					Remote IP 10.76.78.180 *
					Remote Share 10.76.78.180\iso\ucs\C-Series\HUU\ Example: NFS: /nfs, CIFS: sharename
					Remote File Name ucs-c420-huu-1.5.7e.iso 🔷
					User Name bglsv
					Password *********

步骤8.单击"升**级映像"**。

步骤9.单击**选择……** 以便选择要升级的服务器,如图所示。

Dashboard	Systems 🔻 Po	licies 🔻 Adminis	tration 🔻 🛛 Fav	orites		
Physical Account	s					
Rack Groups R	lack Accounts	Discovered Device	5 Firmware	Upgrades		
🛞 Refresh 🛛 📋	🗄 Favorite 🛛 🌞	Configure Profile	🐥 Upgrade In	nage 🦛 De	lete Image  💥	Delete Profile 🛛 🌞 Clear
Firmware Upgra	des					
Туре	Device IP	Model	Version	State	Status	
						Upgrade Firmware
						Select Profile Upgrade 2.0 V
						Select Servers Select +
						Submit Class
						Submit Close

## 步骤10.本示例选择一台服务器。

步骤11.单击"**选择**",如图所示。

Dashboard Systems V Policies V Administration	on 🔻 Favorites						
	Firmware Upgrades						
🛞 Refresh 🔝 Favorite 👙 Configure Profile 🁙	Upgrade Image 📡	Delete Image 💥 Delet	te Profile 🛛 👙 Cli	tar			
	Select						
Type Device IP Model Ve						3	20
	Product Name	Product ID	Power State	IP Address	Description	Firmware Ver	Rack Group
	UCS C22 M3S	bgl-sv-c22-m3-01	🥥 on	10.76.78.70		1.5(5)	
	UCS C420 M3	ucs-c420-m3	🥥 on	10.76.78.72		1.5(7e)	
	_						
	Total 2 items						
							Select Cancel

步骤12.显示所选服务器。

步骤13.单击"**提交**",如图所示。

Upgrade Firmware
Select Profile Upgrade_2.0 💌 *
Select Servers Select BGL-14-Floor1-Rack2 *
Submit Close

注意:如果升级思科IMC版本2.0(x),则必须更改默认思科IMC密码。

步骤14.要检查升级状态,请导航至"系统">"清单"和"故障状态",如图所示。

uluilu C	Cisco IMC	Supervisor	
Dashboard	Systems 🔻	Policies  Administration  Favorites	
Physical Accou	Inventory a	and Fault Status	
Rack Groups	Rack Accou	Tits Discover eu Devices Firmware Upgrades	

步骤15.展开Rack Groups,选择之前将服务器填充到的相应组。

步骤16.单击"机架式服务器"并选择适当的服务器。

步骤17.完成此操作后,必须弹出另一行,其中包含远程选项。

步骤18.从此**行单**击"KVM控制台",您可以看到升级的操作,如图所示。

Dashboard Systems  Po	licies 🔻 🛛 Adminis	stration V Favorites								
Inventory and Fault Status for Default Group										
Q	Summary Rack Servers Faults More Reports									
🔻 🦺 Rack Groups	😵 Refresh [	😚 Refresh 🔃 Favorite 🌞 Power ON 🌞 Power OFF 🌞 Shut Down 🌞 Hard Reset 🌞 Power Cycle 🌞 KVM Console								
A Default Group	Pack Sequere									
A Test_Servers	NOCK DEITERS									
_	Product Name	Product ID	Host Name	Power State	Overall Serve	Overall Memo	IP Address	User Label	Description	Firmware Ver
	UCS C22 M3S	UCSC-C22-M3S	bgl-sv-c22-m3-01	i off	Severe Fault	N/A	10.76.78.70			1.5(5)
	UCS C420 M3	UCSC-C420-M3	ucs-c420-m3	😜 on	Moderate Fault	N/A	10.76.78.72			1.5(7e)

#### 将技术支持数据导出到远程服务器

9.执行这些操作以提取技术支持数据。

步骤1.导航至Systems > Inventory和Fault Status for Default Group。

步骤2.展开机架组并选择包含服务器的机架组。

步骤3.选择"机架式服务器"选项卡,如图所示。

Dashboard Systems V	Policies 🔻 Admini	stration <b>v</b> Favorites								
Inventory and Fault Status for Default Group										
Summary Rack Servers Faults More Reports										
🔻 🦺 Rack Groups	🛞 Refresh 【	빌 Favorite 🛛 🎄 Power ON	🔗 Power OFF 🛛 🏘 Shut	t Down 🎄 Hard	d Reset  🎄 Pov	ver Cycle 🛛 🎄 K	VM Console 🛭 🤹	Launch GUI 🚦	😓 Locator LED	👙 Set Label 🛛 🕅
A Default Group	Rack Servers	Rack Servers								
A Test_Servers										
	Product Name	Product ID	Host Name	Power State	Overall Serve	Overall Memo	IP Address	User Label	Description	Firmware Ver
	UCS C22 M3S	UCSC-C22-M3S	bgl-sv-c22-m3-01	i off	Severe Fault	N/A	10.76.78.70			1.5(5)
	UCS C420 M3	UCSC-C420-M3	ucs-c420-m3	😑 on	Moderate Fault	N/A	10.76.78.72			1.5(7e)

步骤4.双击列表中的服务器以查看详细信息或从列表中单击服务器,然后从最右侧的向下箭头中单击View Details,如图所示。

췋 Locator LED	췋 Set Label	🧮 View Details	Anage Tag
	<b>(</b>	🖪 😨 🔍	Favorite
Description	Firmware Ver	Inventory St	Power ON Ig
	1.5(5)	SUCCESS	Power OFF
	1.5(7e)	SUCCESS	Shut Down
			Hard Reset
			Power Cycle
			KVM Console
			Launch GOI
			Locator LED
			Set Label
			View Details
			Manage Tag
		_	Add Tags
			Delete Tags

步骤5.单击"技**术支持"**选项卡。

步骤6.选择适当的Network Type以上传图像中所示的文件。

Dashboard Systems V Policies V Administration V Favorites										
Inventory and Fault Status for Default Group > Rack Server (BGL-14-Floor1-Rack3)										
Summary CPUs Memory PSUs PCI Adapters VIC Adapters Network Adapters Storage Adapters Faults Cisco IMC Log System Event Log TPM Fault History Tech Support										
🛞 Refresh []] Favorite 👙 Upload Logs 👙 Clear										
Tech Support										
Server IP Status Protocol										
	Upload Tech Support Logs									
	Network Type									
	SCP Server IP/Host name SFTP *									
	Path and File name									
	User name 🔶									
	Password									
	Submit Close									

步骤7.为本**例选**择TFTP。

步骤8.单击"**提交**",如图所示。

Dashboard Systems  Policies  Administration  Favorites	
Inventory and Fault Status for Default Group > Rack Server (BGL-14-Flo Summary    CPUs    Memory    PSUs    PCI Adapters    VIC Adapters    Net	uor1-Rack3) twork Adapters    Storage Adapters    Faults    Cisco IMC Log    System Event Log    TPM    Fault History    <b>Tech Support</b>
Tech Support	
Server IP Status	Protocol
	Upload Tech Support Logs         Network Type       TFTP • •         HTTP Server IP/Host name       64.103.238.114       •         Path and File name       C:\Users\mohammhu\Desktop\TAC\C220M3logs.ta       •         File extension should be <filename>.tar.gz       Submit       Close</filename>

## 步骤9.此处的快照显示日志已成功上传到指定位置。

Summary	CPUs	Memory	PSUs	PCI Adapters	VIC Adapters	Network Adapters	Storage Adapters	Faults	Cisco IMC Log	System Event Log	TPM	Fault History	Tech Support
🛞 Refresh 🕮 Favorite 🙀 Upload Logs 🙀 Clear													
Tech Support													
Server I	Server IP Status Protocol												
10.76.78	70	completed (1	00 %)	TFTP									

# 验证

当前没有可用于此配置的验证过程。

## 故障排除

目前没有针对此配置的故障排除信息。