在 Cisco MSE 3375 上安装 CMX 10.5

目录

<u>简介</u> <u>先决条件</u> <u>要求</u> 使用的组件 安装 <u>CIMC配置和KVM启动</u> <u>CMX映像安装</u> <u>CMX初始设置</u> CMX节点安装

简介

本文档将指导网络管理员在Cisco 3375 MSE设备上安装Cisco CMX 10.5映像。此流程还包括有关如何设置安装所需的思科集成管理控制器(CIMC)的说明。

无法从CMX 10.2、10.3或10.4升级到10.5。需要全新安装。

"MD5cmx"

10.510.5.0-20610.5.1-26CMX Web** (System)->** (Settings)->** (Upgrade)

为了避免 <u>CSCvn64747</u> 安装10.5.1-26时,建议先安装10.5.0,然后升级到10.5.1-26

先决条件

要求

思科3375 MSE设备

Cisco CMX 10.5 ISO文件(从https://software.cisco.com下载)

使用的组件

本指南中使用的组件:

- 带CIMC版本4.0(1a)的Cisco 3375
- 思科互联移动体验版本10.5.1-27
- 运行MacOS Mojave和Google Chrome作为Web浏览器的MacBook

安装

CIMC配置和KVM启动

第 1 步 将显示器插入VGA端口,将键盘插入设备背面的USB端口。打开计算机电源。按 F8 在引导屏幕中输入CIMC配置实用程序:

ılıılı cısco

Copyright (c) 2018 Cisco Systems, Inc.

Press <F2> BIOS Setup : <F6> Boot Menu : <F7> Diagnostics Press <F8> CIMC Setup : <F12> Network Boot Bios Version : C220M5.4.0.1c.0.0627180916 Platform ID : C220M5

Processor(s) Intel(R) Xeon(R) Gold 5118 CPU @ 2.30GHz Total Memory = 64 GB Effective Memory = 64 GB Memory Operating Speed 2400 Mhz M.2 SWRAID configuration is not detected. Switching to AHCI mode.

Cisco IMC IPv4 Address : 10.48.71.11 Cisco IMC MAC Address : 70:6D:15:96:38:78

Entering CIMC Configuration Utility ...

图1.启动屏幕

步骤 2 配置CIMC参数,按 F10 保存并等待45秒以应用更改。按 F5 刷新并验证设置已应用。单击 ESC 退出.

Cisco IMC Configu	uration Utilit	y Version	2.0 Cisco Sys	tems, Inc.	
					olololololololok
NIC Properties					
NIC mode		NI	C redundancy		
Dedicated:	[<u>X]</u>	N	one:	[X]	
Shared LOM:	[]	A	ctive-standby:	[]	
Cisco Card:		A	ctive-active:	[]	
Riser1:	[]	VL	AN (Advanced)		
Riser2:	[]	V	LAN enabled:	[]	
MLom:	[]	V	LAN ID:	1	
Shared LOM Ext:	[]	P	riority:	0	
IP (Basic)					
IPV4:	[X] IP\	/6: []			
DHCP enabled	[]				
CIMC IP:	10.48.71.11				
Prefix/Subnet:	255.255.255.1	.28			
Gateway:	10.48.71.1				
Pref DNS Server:	0.0.0.0				
Smart Access USB					
Enabled	[]				
					olololololololololok
<up down="">Selection</up>	<pre>n <f10>Save</f10></pre>	<space>E</space>	nable/Disable	<f5>Refresh</f5>	<esc>Exit</esc>
<f1>Additional set</f1>	tings				

图2.思科IMC配置实用程序

要从网络访问CIMC,请通过设备背面的管理端口将MSE 3375连接到交换机:



图3.管理端口

步骤 3 在Chrome Web浏览器中,转到 http://<cimc_ip_address>。首次登录时,默认用户名为*admin*。默认密码为*password*。如果您运行的是CIMC 4.0(1a)版 本,则登录屏幕将如下所示:



图4. CIMC登录屏幕

第4步登录后,按右上角的"启动KVM控制台"。CIMC v4支持HTML和基于Java的KVM。运行基于Java的KVM需要Java版本1.6.0_14或更高版本。本教程将使用 HTML文档。



图5.启动KVM控制台

如果浏览器中的弹出窗口被阻止,请确保按链接转发:

				F6	☆
Pop-Up blocker allowed	Pop-Up blocker is enabled. Please disable Pop-Up blocker or add the address 10.48.71.11 to the allowed sites.		Pop-ups blocked:	er.htm om	×
Hostname: IP Address:	C220-WZP22380ZLY 10.48.71.11		Manage	one	



第5步启动KVM后,按Virtual Media(虚拟媒体)并激活虚拟设备。激活虚拟设备后,下拉菜单将展开,并显示其他选项。按MAP CD/DVD以映射CMX 10.5 ISO文件:

Virtual Media Help
Create Image
Activate Virtual Devices
图7.激活虚拟设备
Virtual Media Help
Create Image
Deactivate Virtual Devices
Map CD/DVD
Map Removable Disk
Map Floppy Disk

图8.映射CD/DVD

第6步导航到并选择下载的CMX映像,然后按映射驱动器。按下后,"虚拟媒体"菜单将再次展开,以显示映射的映像:

Virtual Media	a - CD/D	VD	_	×
Imag	e File : CISC	CO_CMX-10.5.1-27.iso	Brows	se
	\checkmark	Read Only		
			Map Drive	Cancel
		图9.映射驱动器		
Virtual Me	dia H	elp		
Create Ir	nage			
Deactiva	te Virtu	al Devices		
CISCO_	CMX-1	0.5.1-27.iso M	apped to CD/D	DVD
Map Rer	novable	e Disk		
Map Flop	opy Dis	k		
		图10.映射的CMX8	欠 像	
第7步检查映像是否正确连接质	后,转至"电源"选项┤	卡,并选择重置系统(热启动)以重置	设备。在启动过程中,按F7开始安装映	射的映像:
1	Power	Boot Device	Virtual Media	
	Power	On System		li i
	Power	Off System		1
	Reset	System (warm	n boot)	
	Power	Cycle System	(cold boot)	

ıılııılıı cısco

Copyright (c) 2018 Cisco Systems, Inc.

Press <F2> BIOS Setup : <F6> Boot Menu : <F7> Diagnostics Press <F8> CIMC Setup : <F12> Network Boot Bios Version : C220M5.4.0.1c.0.0627180916 Platform ID : C220M5

Processor(s) Intel(R) Xeon(R) Gold 5118 CPU @ 2.30GHz Total Memory = 64 GB Effective Memory = 64 GB Memory Operating Speed 2400 Mhz M.2 SWRAID configuration is not detected. Switching to AHCI mode.

Cisco IMC IPv4 Address : 10.48.71.11 Cisco IMC MAC Address : 70:6D:15:96:38:78

Diagnostics requested. System looks for SDU bootable in Flex Util/Virtual Media

图12. CIMC启动选择菜单

CMX映像安装

第 1 步 选择 使用当前控制台安装CMX 继续安装。选择后,安装脚本将开始加载:



图13.继续安装当前KVM

E	OK]	Unmounted /mnt/sysimage/dev/shm.
E	OK]	Failed unmounting /mnt/sysimage/opt.
E	OK]	Unmounted Configuration File System.
E	0K]	Unmounted Temporary Directory.
E	0K]	Unmounted /mmt/sysimage/tmp.
E	OK]	Unmounted /mmt/sysimage/boot.
E	OK]	Unmounted /mmt/sysimage/proc.
E	0K]	Unmounted /mmt/sysimage/var.
E	0K]	Unmounted /mmt/sysimage/home/cmxadmin.
E	OK]	Stopped target Swap.
			Deactivating swap /dev/sda6
			Unmounting /mmt/sysimage/dev
E	OK]	Deactivated swap /dev/disk/by-uuid/11290e53-1a2b-4dac-999f-1f08402f141e.
E	OK]	Deactivated swap /dev/disk/by-path/pci-0000:67:00.0-scsi-0:2:0:0-part6.
E	OK]	Deactivated swap /dev/disk/by-id/wwn-0x6cc167e972f8078023d7ac322e6f950a-part6.
E	OK]	Deactivated swap /dev/disk/by-id/scsi-36cc167e972f8878823d7ac322e6f958a-part6.
E	OK]	Deactivated swap /dev/sda6.
E	OK]	Unmounted /mnt/sysimage/mnt/cmx.
E	OK]	Unmounted /mnt/sysimage/sys/fs/selinux.
			Unmounting /mnt/sysimage/sys
Ľ	OK]	Unmounted /mnt/sysimage/run.
Ľ	OK]	Unmounted /mnt/sysimage/dev.
Ľ	OK]	Unmounted /mnt/sysimage/sys.
			Unmounting /mnt/sysimage
Ľ	OK]	Failed unmounting /mnt/sysimage.
Ľ	OK]	Reached target Unmount All Filesystems.
Ľ	OK]	Stopped target Local File Systems (Pre).
Ľ	OK]	Stopped Create Static Device Nodes in /dev.
			Stopping Create Static Device Nodes in /dev
			Stopping Monitoring of LUM2 mirrors, snapshots etc. using dmeventd or progress polling
Ľ	OK]	Stopped Remount Root and Kernel File Systems.
			Stopping Remount Root and Kernel File Systems
Ľ	OK]	Stopped Collect Read-Ahead Data.
			Stopping Collect Read-Ahead Data
Ľ	OK]	Stopped Monitoring of LUM2 mirrors, snapshots etc. using dmeventd or progress polling.
			Stopping LUM2 metadata daemon
Ľ	OK]	Stopped LUM2 metadata daemon.
Ľ	OK]	Started Restore /run/initramfs.
Ľ	OK]	Reached target Shutdown.
dr	acut	W	arning: Killing all remaining processes
Re	boot	in	g.

图14. CentOS安装脚本跟踪

步骤 2 安装程序后 首先,它会要求确认。输入 是 然后按 **输入**继续安装。"是"可能出现在左上角:

	****	*	HABNING
*			*****
*		*	
		*	This process will reset
yes <u>D</u> drives and install a new system 🛛 💌			
	8		*
			* Do y
ou wish to continue? (Type the entire word	yes to proceed.) *		
		Proceed with	install:

图15.继续安装的提示可能未对齐

Installation **Ignore errors in case drives are already good** Installation RAID10 virtual drive sucessfully created 1) [x] Language settings 2) [x] Time settings Now configu (English (United States)) (America/Los_Angeles timezone) Now configu 3) [x] Installation source 4) [x] Software selection (Minimal Install)operly** 5) [x] Installation Destination 6) [x] Kdump (Kdump is enabled)
Installation **Ignore errors in case drives are already good*** RAID10 virtual drive sucessfully created 1) [x] Language settings 2) [x] Time settings Now configure (English (United States)) (America/Los_Angeles timezone) Now configure 3) [x] Installation source 4) [x] Software selection (Minimal Install)operly** 5) [x] Installation Destination 6) [x] Kdump 6) [x] Kdump (Custom partitioning selected) (Kdump is enabled) RAID10 virtual drive configured and working
RAID10 virtual drive sucessfully created 1) [x] Language settings 2) [x] Time settings Now configu (English (United States)) (America/Los_Angeles timezone) Now configu 3) [x] Installation source 4) [x] Software selection Now configu (Local media) (Minimal Install)operly** 5) [x] Installation Destination 6) [x] Kdump (Custom partitioning selected) (Kdump is enabled)
1) [x] Language Settings 2) [x] Time Settings now configure (English (United States)) (America/Los Angeles timezone) now configure 3) [x] Installation source 4) [x] Software selection (Minimal Install)operly** (Local media) (Minimal Install)operly** 5) [x] Installation Destination 6) [x] Kdump (Custom partitioning selected) (Kdump is enabled)
3) [x] Installation source 4) [x] Software selection (Local media) (Minimal Install)operly** 5) [x] Installation Destination 6) [x] Kdump (Custom partitioning selected) (Kdump is enabled)
(Local media) (Minimal Install)operly** 5) [x] Installation Destination 6) [x] Kdump (Custom partitioning selected) (Kdump is enabled)
5) [x] Installation Destination 6) [x] Kdump (Custom partitioning selected) (Kdump is enabled) RAID10 virtual drive configured and working
(Custom partitioning selected) (Kdump is enabled) RAID10 virtual drive configured and working
The second se
() [] Network configuration (3) [] User creation (Not connected) (Not connected)
Progress
Setting up the installation environment
Creating disklabel on /dev/sda
Creating xfs on /dev/sdaZ
Creating xfs on /dev/sda5
Creating swap on /dev/sda6
Creating xfs on /dev/sda3
Creating xfs on /dev/sda1
Running pre-installation scripts
Starting nackage installation process
Preparing transaction from installation source
Installing libgcc (1/293)
Installing grub2-common (2/293)
Installing centos-release (3/233) Installing centos-release (3/233)
Installing filesustem (5/293)
Installing basesystem (6/293)
Installing grub2-pc-modules (?/293)
Installing bind-license (8/293)
Installing fineurses-base (3/253) Installing fineurslate (jecuster (18/293)
Installing tzdati (1/293)
Installing glibc-common (12/293)

图16.按下Enter键后,安装将开始

第3步CMX安装过程大约需要20-30分钟:



图17.安装需要20-30分钟

CMX初始设置

第1步安装完成后,计算机将自动重新启动。这次,启动时不要按任何键。

第2步使用顶部显示的默认凭证(cmxadmin/cisco)登录CMX:



图19.更改根和cmxadmin密码

第4步配置网络参数。要应用网络设置,需要可访问网关和DNS。如果它们不可用,系统将提示您再次配置网络参数。如果它们可访问,则会重新启动保持连接 服务。在此过程中,请勿按Enter! Please enter hostname: mse-3375-1 Please enter IP address: 10.48.39.240 Please enter netmask: 255.255.255.0 Please enter gateway: 10.48.39.5 Please enter DNS server: 10.48.39.5 Please enter search domain name: mse33751 Are the network settings correct?: yes Stopping keepalived service Verify keepalived service has been stopped Successfully stopped the keepalived service. Starting keepalived service

图20.网络参数设置

Restarting network... Pinging 127.0.0.1.... Success Pinging 10.48.71.63.... Success Pinging 10.48.71.5.... Failed Error: PING 10.48.71.5 (10.48.71.5) 56(84) bytes of data. From 10.48.71.63 icmp_seq=1 Destination Host Unreachable From 10.48.71.63 icmp_seq=2 Destination Host Unreachable From 10.48.71.63 icmp_seq=3 Destination Host Unreachable From 10.48.71.63 icmp_seq=4 Destination Host Unreachable

--- 10.48.71.5 ping statistics ---4 packets transmitted, 0 received, +4 errors, 100% packet loss, time 3004ms pipe 3

The network is not configured properly Do you want to configure the network again?: yes

图21.如果网关无法访问,网络配置提示将出现

第5步重新启动保活服务后,安装将提示输入NTP服务器IP地址、区域和国家/地区。如果未使用NTP,提示符将跳至时区和时间/日期配置:

Restarting network					
Pinging 127.0.0.1 Success					
Pinging 10.48.39.240 Success					
Pinging 10.48.39.5 Success					
Network configuration completed succ	es	ssfully			
**********		******	×	*******	******
Checking if the machine meets requir	e	d specificat	1(on	
***************************************	- 14- 1	********	×	******	******
+	÷	A-4 1	+	D14	+
i Uneck i Filmimum Required		HCTUAI	i	Kesult	
! Memory ! 24CB	T	63CB	+ · !	·	. !
1 nemory 1 2400	Ľ		!		•
: CPII : 8	i	24			1
+	÷.		÷		+
i Disk i 150GB	ł	1882GB	ł		
++	+-		÷		+
hostname RFC Compliant Hostname	ł	mse-3375-1			
**	+ -		÷		ŧ-
********************************	÷	******	×	*******	******
Configuring NTP Server					
**************************************	-	******	×	*****	**********
Please enter the NTP server name (bl	aı	nk for no NT	P	server)	[]: _

图22. NTP配置

*************	*****	
Configuring Timezone and	date	
*****	****	
Please identify a locatio	n so that time zone ru	les can be set correctly.
Please select a continent	or ocean.	
1) Africa		
2) Americas		
3) Antarctica		
4) Arctic Ocean		
5) Asia		
6) Atlantic Ocean		
7) Australia		
8) Europe		
9) Indian Ocean		
10) Pacific Ocean		
11) none - I want to spec	ify the time zone usin	ng the Posix TZ format.
#? 8	2	
Please select a country.		
1) Albania	18) Guernsey	35) Poland
2) Andorra	19) Hungary	36) Portugal
3) Austria	20) Ireland	37) Romania
4) Belarus	21) Isle of Man	38) Russia
5) Belgium	22) Italy	39) San Marino
6) Bosnia & Herzegovina	23) Jersey	40) Serbia
7) Britain (UK)	24) Latvia	41) Slovakia
8) Bulgaria	25) Liechtenstein	42) Slovenia
9) Croatia	26) Lithuania	43) Spain
10) Czech Republic	27) Luxembourg	44) Sweden
11) Denmark	28) Macedonia	45) Switzerland
12) Estonia	29) Malta	46) Turkey
13) Finland	30) Moldova	47) Ukraine
14) France	31) Monaco	48) Vatican City
15) Germany	32) Montenegro	49) Åland Islands
16) Gibraltar	33) Netherlands	
17) Greece	34) Norway	
#? 5		

图23.时区和日期配置

第6步系统将提示您确认输入的信息。如果选择"否",系统将返回NTP配置提示:

The	fo	llou	ving	info	ormatio	n ha	as be	een	gi∨	en:				
		Be	lgi	ım										
The Loc Uni Is 1) 2)	ref al ver the Yes No	ore time sal abo	TZ=' is Tim	'Euro now: e is infor	ope/Bru : now: rmation	ssel Mon Sun OK	ls'u Jan Jan ?	Jil 21 20	l be 00: 23:	us: 11: 11:	ed . 16 16	CET UTC	2019. 2019.	

图24. NTP配置

步骤 6 下一个提示将要求您选择是否要进行磁盘加密。KVM设置在此结束,其余配置将通过CMX Web界面(GUI)完成:

Disk Encryption

Do you want to encrypt the /opt partition of the disk ? [y/N]: n

CMX OS Configuration is complete.
Please visit below url to continue CMX configuration

https://cmx-wlaaan:1984
[cmxadmin@localhost ~]\$

图25.磁盘加密提示

加密后,驱动器无法解密。

CMX节点安装

第1步通过https://<cmx_ip_address>:1984访问CMX GUI。端口1984仅在初始设置或升级期间使用。使用cmxadminuser和之前配置的密码登录:

← → C ▲ Not Secure https://10.48.39.240:19	984/#login	\$
cisco		
	Welcome to the CMX Installation	
	Sign in	
	© 2018 Cisco Systems, Inc.	

图26. CMX GUI节点安装登录

第2步选择CMX节点类型(Location或Presence)。 请注意,以后无法更改。选择后,等待配置和启动完成:



图27. CMX节点类型选择



图28.启动过程

第3步按Please click以继续设置:

Welcome to the CMX Installation



图29.单击继续设置

步骤 4 安装过程现已完成。您将被重定向到设置助手以完成节点的特定配置(映射导入、与无线控制器配对以及邮件服务器设置):

设置完成后,请确保清除浏览器cookie和缓存。不执行此操作可能会导致某些CMX网页为空。

← → C ▲ Not Secure h	<pre>#lps://10.48.71.41/configure/#das</pre>	hboard		x 📬 🖬	0 10 11 1	8 % 8 🖱 📕 i 🔕 E
cisco tosocos		♀ ₂ 3 ♥	ሴ %			👔 admin -
	SETUP ASSISTANT					
	Introduction	Walaama ta CMV				
System at a Glar	Set New Password	Please proceed through this setup assista			O Settings	
Node IP Addres	Maps and Controllers				- 1	Memory CPU
	Mail Server					
cmx-wiaaan 10.48.71.	O Donel					14.60% 1.41%
Coverage Details						
Access Points				0		System Time
Placed Mission Artise			Do not show setup again	Cancel	Next	
AP AP AP	AP Campus Buil	ding Floor Zone Total Client	Client Tag Tag Inter	ferer AP	Client Total	Mon Dec 17 22:18:17 CET 2018
0 0 0	0	0 0	0 0 0	0	0 0	

图29.CMX设置助手