在Cisco MSE 3375上安裝CMX 10.5

目錄

<u>簡介</u> <u>必要條件</u> <u>需求</u> <u>採用元件</u> <u>安裝</u> <u>CIMC配置和KVM啟動</u> <u>CMX映像安裝</u> <u>CMX初始設定</u> <u>CMX節點安裝</u>

簡介

本文檔將指導網路管理員在Cisco 3375 MSE裝置上安裝Cisco CMX 10.5映像。此過程還包括有關如何設定安裝所需的思科整合管理控制器(CIMC)的說明。

無法從CMX 10.2、10.3或10.4升級到10.5。需要全新安裝。

MD5cmx

為了避免撞到 CSCvn64747 安裝10.5.1-26時,建議先安裝10.5.0,然後升級到10.5.1-26

必要條件

需求

Cisco 3375 MSE裝置

Cisco CMX 10.5 ISO檔案(從<u>https://software.cisco.com</u>下載)

採用元件

本指南中使用的元件:

- 採用CIMC版本4.0(1a)的Cisco 3375
- 思科互連行動體驗版本10.5.1-27
- 運行MacOS Mojave和Google Chrome作為Web瀏覽器的MacBook

安裝

CIMC配置和KVM啟動

步驟1 將顯示器插入VGA埠,鏈盤插入裝置背部的USB埠。開啟電腦電源。按 F8 在引導螢幕進入CIMC配置實用程式期間:

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 ...

圖1.啟動螢幕

步驟2 配置CIMC引數,請按 F10 儲存並等待45秒鐘,以便應用更改。按 F5 刷新並驗證設定是否已應用。按一下 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	[]					
<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					

圖2. Cisco IMC配置實用程式

要從您的網路訪問CIMC,請通過裝置背面的管理埠將MSE 3375連線到交換機:



圖3.管理埠

步驟3 在Chrome Web瀏覽器中,轉到 http://<cimc_ip_address>。首次登入時,預設使用者名稱將為*admin*。預設密碼為*password*。如果您執行CIMC 4.0(1a)版,則登入螢幕將如下所示:





步驟4 登入後,按右上角的啟動KVM控制檯。CIMC v4支援HTML和基於Java的KVM。運行基於Java的KVM需要Java 1.6.0_14或更高版本。本教程將使用 HTML文檔。

Host	Power Launch KVM
	Java based KVM
	HTML based KVM

圖5.啟動KVM控制檯

如果瀏覽器中的彈出視窗被阻止,請確保按連結進行轉發:



圖6.彈出視窗被阻止

步驟5 KVM啟動後,按Virtual Media並啟用Virtual Devices。啟用虛擬裝置後,下拉選軍將展開並顯示其他選項。按MAP CD/DVD以對映CMX 10.5 ISO檔案:

Virtual Media Help
Create Image
Activate Virtual Devices
圖7.啟用虛擬裝置
Virtual Media Help
Create Image
Deactivate Virtual Devices
Map CD/DVD
Map Removable Disk
Map Floppy Disk

圖8.對映CD/DVD

步驟6 導覽並選擇下載的CMX映像,然後按Map Drive。按下後,「Virtual Media(虛擬媒體)」選單將再次展開,以顯示對映的映像:

Virtual Medi	ia - CD/D	VD				×
Imag	ge File : CISC	CO_CMX-10.5.1-27.iso		Browse		
	\checkmark	Read Only				
				Map Drive	Cancel	
		圖9.對映驅動器				
Virtual Me	edia H	elp				
Create I	mage					
Deactiva	ate Virtu	al Devices				
CISCO_	CMX-1	0.5.1-27.iso M	apped t	to CD/D	VD	
Map Rei	movable	e Disk				
Map Flo	ppy Dis	k				
		圖10.對映的CMX鬃	彩象			
步驟7 檢查映像是否正確連続	禄後,轉至Power頁 歸	t,然後選擇Reset System(熱啟動)J	以重置裝置。啟動過和	程中,按F7開始安裝對	讨映的映像:	
	Power	Boot Device	Virtual	Media		
	Power	r On System				
	Power	r Off System				
	Reset	System (warm	boot)			
	Power	Cycle System	(cold b	oot)		

圖11.重新啟動裝置

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

圖12. CIMC引導選擇選單

CMX映像安裝

步驟1 選擇 使用當前控制檯安裝CMX 繼續安裝。選定後,安裝指令碼將開始載入:



圖13.繼續在當前KVM中安裝

ſ	OK]	Unmounted /mnt/sysimage/dev/shm.
E	0K]	Failed unmounting /mmt/sysimage/opt.
E	0K]	Unmounted Configuration File System.
Γ	0K]	Unmounted Temporary Directory.
E	0K]	Unmounted /mmt/sysimage/tmp.
E	0K]	Unmounted /mnt/sysimage/boot.
E	0K]	Unmounted /mnt/sysimage/proc.
E	0K]	Unmounted /mnt/sysimage/var.
Γ	0K]	Unmounted /mnt/sysimage/home/cmxadmin.
Ε	0K]	Stopped target Swap.
			Deactivating swap /dev/sda6
			Unmounting /mnt/sysimage/dev
Ľ	0K]	Deactivated swap /dev/disk/by-uuid/11290e53-1a2b-4dac-999f-1f08402f141e.
Ľ	0K]	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.
Ε	0K]	Deactivated swap /dev/disk/by-id/scsi-36cc167e972f8878823d7ac322e6f958a-part6.
Ľ	0K]	Deactivated swap /dev/sda6.
Ľ	OK]	Unmounted /mnt/sysimage/mnt/cmx.
Ľ	OK]	Unmounted /mnt/sysimage/sys/fs/selinux.
			Unmounting /mnt/sysimage/sys
Ľ	OK]	Unmounted /mnt/sysimage/run.
Ľ	OK]	Unmounted /mmt/sysimage/dev.
Ľ	OK]	Unmounted /mnt/sysimage/sys.
			Unmounting /mnt/sysimage
Ľ	OK]	Failed unmounting /mmt/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 LVM2 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	1	Stopped LUT2 metadata daemon.
Ľ	OK]	Started Restore /run/initramfs.
I	OK]	Reached target Shutdown.
dr	acut	W	arning: Killing all remaining processes
Re	boot	in	

圖14. CentOS安裝指令碼跟蹤

步驟2 安裝程式 開始時會要求確認。輸入 是 然後按鍵 **輸入**繼續安裝。「是」可能出現在左上角:

		N - N - N - N - N - N - N - N - N - N -		WARN	ING	
*						
*			*			
			*	This pr	ocess will i	reset
yes <u>D</u> drives and install a new system	*					
	*				*	D
outlich to continue? (Type the entire upod	"uno" to proceed)	-			-	vo y
ou wish to continue: Cigpe the entire word	ges to proceea.)					
*						

			Proceed with	install:		

圖15.繼續安裝的提示可能不一致

*D1SaD1	e rb rall history so no manual inte	=======	ea in rebuilaing	======	** **Changes drive	in state Unconfigured-
Installa	ation **Ignore errors	in case drives	s are already goo	d ** RAID10 uistu	al draium cucesoful	lu created
1) [x]	Language settings (Fnglish (United States))	2) [x] Time set	tings Vios Angeles tim	ezone)	al arive sucessful	Now configur
3) [x]	Installation source	4) [x] Software	selection	6201167		
	(Local media)	(Minima	Install)operly*	ж		
5) [x]	Installation Destination	6) [x] Kdump		DA 10 40 - 1 - 1 1		
2) []	(Custom partitioning selected)	(Kaump : 8) []] Usen cru	is enabled)	KAID10 Virtual	drive configured	and working Modify a
,, L J	(Not connected)	(No use)	will be created)		noung g
Progres: Setting	s up the installation environment					
Creatin	g disklabel on /dev/sda					
Creatin	g xfs on /dev/sda2					
Creatin	g xfs on /dev/sda5					
Creatin	g swap on /dev/sda6					
Creatin	g xfs on /dev/sda3					
Creatin	g xfs on /dev/sda1					
Running	pre-installation scripts					
Startin	g package installation process					
Prepari	ng transaction from installation so	urce				
Install	ing grub2-common (2/293)					
Install	ing centos-release (3/293)					
Install	ing setup (4/293)					
Install	ing filesystem (5/293)					
Install	ing grub2-pc-modules (7/293)					
Install	ing bind-license (8/293)					
Install	ing neurses-base (9/293)					
Install	ing firewalld-filesystem (10/293)					
Install	ing glibc-common (12/293)					

圖16.按下Enter鍵後,安裝將開始

步驟3 CMX安裝過程大約需要20-30分鐘:



圖17.安裝需要20-30分鐘

CMX初始設定

步驟1 安裝完成後,電腦將自動重新啟動。這一次,在引導時不要按任何鍵。

步驟2 使用預設憑證(cmxadmin/cisco)登入CMX,如下面的頂部所示:



圖19.更改根密碼和cmxadmin密碼

步驟4 設定網路引數。需要能夠訪問網關和DNS才能應用網路設定。如果網路引數無法訪問,系統將提示您再次配置網路引數。如果網路引數可以訪問 ,Keepalive服務將重新啟動。在此過程中,請勿按Enter鍵! 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

圖20.網路引數設定

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

圖21.如果網關無法訪問,網路配置提示符將出現

步驟5 重新啟動keepalive服務後,安裝將提示輸入NTP伺服器IP地址、區域和國家/地區。如果未使用NTP,提示符將跳至時區和時間/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)	[]: _

圖22. NTP配置

******	******	**********
Configuring Timezone and	date	
******	*****	*****
Please identify a locatio	n so that time zone rules	can be set correctly.
Please select a continent	or ocean.	
1) Africa		
2) Americas		
3) Antarctica		
4) Arctic Ocean		
5) Asia		
6) Atlantic Ocean		
Australia		
8) Europe		
9) Indian Ocean		
10) Pacific Ocean		
11) none - I want to spec	ifu the time zone using th	e Posix TZ format.
#? 8		
Please select a country.		
1) Albania	18) Guernseu	35) Poland
2) Andorra	19) Hungaru	36) Portugal
3) Austria	20) Ireland	37) Romania
4) Belarus	21) Isle of Man	38) Russia
5) Belgium	22) Italu	39) San Marino
6) Bosnia & Herzegovina	23) Jerseu	49) Serbia
7) Britain (IIK)	24) Latuia	41) Slovakia
8) Bulgaria	25) Liechtenstein	42) Slovenia
9) Croatia	26) Lithuania	43) Snain
10) Czech Republic	22) Luxembourg	44) Sueden
11) Denmark	28) Macedonia	45) Suitzerland
12) Estonia	29) Malta	46) Turkey
13) Finland	39) Moldoua	47) Ilknaine
14) France	31) Monaco	48) Ustican Citu
15) Germanu	32) Montenegro	49) ôland Islands
16) Gibraltan	33) Netherlands	137 HIGHA ISTANAS
17) Greece	34) Norman	
#2 5	31) horway	
#: J_		

圖23.時區和日期配置

步驟6系統提示您確認輸入的資訊。如果選擇否,您將返回到NTP配置提示:

The following	information]	has been	given∶		
Belgiu	ım				
Therefore TZ=' Local time is Universal Time Is the above i 1) Yes 2) No	Europe/Brusse now: Mo is now: Su information O	els'will n Jan 21 n Jan 20 K?	l be used 00:11:16 23:11:16	CET UTC	2019. 2019.

圖24. NTP配置

步驟6 下一個提示將要求您選擇是否要進行磁碟加密。KVM設定到此結束,其餘配置將通過CMX網路介面(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 ~]\$

圖25.磁碟加密提示

一旦加密,驅動器就無法解密。

CMX節點安裝

步驟1:通過https://<cmx_ip_address>:1984訪問CMX GUI。埠1984僅在初始設定或升級期間使用。使用cmxadminuser和以前配置的密碼登入:

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

圖26. CMX GUI節點安裝登入

步驟2選擇CMX節點型別(位置或狀態)。 請注意,以後不能更改此項。選擇後,等待配置和啟動完成:



圖27. CMX節點型別選擇



圖28.啟動過程

步驟3 按一下Please click to continue setup:

Welcome to the CMX Installation



圖29.按一下繼續安裝

步骤4 安裝過程現已完成。您將重定向到設定助手,以完成節點的特定配置(對映匯入、與無線控制器配對和郵件伺服器設定):

安裝完成後,請確保清除瀏覽器cookie和快取。如果不執行此操作,可能會導致某些CMX網頁為空。

← → C ▲ Not Secure N	Ilps://10.48.71.41/configure/#da	hboard	x 😋		i x ii 🖬 📕 i 🚳 i
cisco materia	SETUD ASSISTANT	୧ ୫୪ ବ ୦୯	<u>ф</u>		📦 admin -
	outor Association				
	Introduction	Welcome to CMY			
System at a Glar	Set New Password	Please proceed through this setup assistant to get your sy	item up and running.		© Settings
Node IP Addres	Maps and Controllers				Memory CPU
	Mail Server				
cmx-wlaaan 10.48.71.	O Done!				14.60% 1.41%
Coverage Details					
Access Points		O De r	ot show setup again Care	el Next	System Time
Placed Missing Active AP AP AP AP	AP Campus Bui	ding Floor Zone Total Client Client	Tag Tag Interferer AS	Client Total	Mon Dec 17 22:18:17
0 0 0	0	0 0 0	0 0 0 0	0 0	001 2010

圖29.CMX設定助手