使用主機升級實用程式進行M.2韌體升級

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簡介

本文檔介紹當啟用統一計算系統管理器(UCSM)上的M.2驅動器韌體停滯時,如何執行M.2驅動器韌 體升級。當從HX Connect執行UCS和Hyperflex(HX)組合升級時,會出現此問題;只有在運行韌體 的M.2驅動器為D0MU049且已升級為韌體D0MH072的情況下,才會出現此問題。

背景資訊

按照以下解決方法,可以將M.2驅動器韌體從D0MU049升級到D0MU054的中間版本,您可以從那 裡執行到D0MH072的升級。此問題特定於韌體,適用於所有群集型別。

附註:將升級活動作為滾動升級一次執行一個節點。確保群集始終處於正常狀態。

UCS伺服器韌體套件	M.2驅動器防火牆
UCS 3.2.3e C、3.2.3g C、UCS	ucs-micron-sata-
4.0.1a C	mtfddav240tcb. D0MU049 .bin
	ucs-micron-sata-
000 0.2.011 0 000 4.0.10 0	mtfddav240tcb. D0MU054 .bin
UCS 4 0 4e C	ucs-micron-sata-
	mtfddav240tcb.D0MH072.bin

有關此軟體包資訊的任何更改,請參閱發行軟體包資訊。

解決方法/步驟

步驟1. 驗證M.2驅動器是否運行受影響的韌體。導覽至UCSM > Equipment > Rack-Mounts > Servers > Server < ID >,如下圖所示。

	General	Inventory	Virtual Machine:	s Hybr	id Display	Installed Firmware	SEL Logs (CIMC Sessions VIF	Paths
+	- Ty Ad	Ivanced Filter	🛉 Export 🖷 Pri	nt 🔮 Upd	late Firmware	Activate Firmware	Capability Catal	90	
Na	me		Model		Package Ve	rsion Ru	nning Version	Startup Version	
Þ	Adapters								
	BIOS		Cisco HXAF240c	M5SX H	3.2(3g)C	C	240M5.3.1.3e.0.061	31 C240M5.3.1.3e	.0.06131
	Board Contr	oller	Cisco HXAF240c	M5SX H	3.2(3g)C	31	.0	31.0	
	CIMC Contro	oller	Cisco HXAF240c	M5SX H	3.2(3g)C	3.	1(3g)	3.1(39)	
	Persistent N	femory							
	SAS Expand	ler 1	SAS Expander UC	S-C240	4.0(2d)C	65	.02.15.00	65.02.15.00	
Ŧ	Storage Cor	ntroller PC	Lewisburg SSATA	Contro					
	🔻 Disks								
	Disk	í.	UCS-M2-240GB		4.0(1a)C	DO	MU049	DOMU049	

您需要先將M.2驅動器上的韌體從D0MU049升級到D0MU054,然後再將HX節點升級到4.0.4e C捆 綁包。

步驟2.在載入HUU之前,確保Service-Profile的主機韌體策略設定為「Not Set」。此步驟對於避免 服務配置檔案與實際硬體之間的衝突非常重要。

如果將Host-Firmware-Policy設定為「Not Set」失敗,將導致系統按照應用的主機韌體策略將驅動 器再次降級到D0MU049版,如下圖所示。

Properties for: HyperFlex-m5

Properties					
Name : HyperFlex-m5					
Description : Recommended He	Recommended Host Firmware Packages for M5 Hyp				
Owner : Local					
Blade Package : 4.0(2d)B	Blade Backup Package				
Rack Package : 4.0(2d)C	Rack Backup Package				
	Properties Name : HyperFlex-m5 Description : Recommended He Owner : Local Blade Package : 4.0(2d)B Rack Package : 4.0(2d)C				

General Events		
Actions	Properties	
Delete	Name : HyperFlex-m5	
Show Policy Usage	Description : Recommended H	lost Firmware Packages for M5 Hyp
	Owner : Local	
Modify Package Versions	Blade Package :	Blade Backup Package :
Modify Backup Package Versions	Rack Package :	Rack Backup Package :
	Service Pack :	

步驟3.下載對應於HX系列的C系列平台的4.0.2d HUU。在本示例中,使用HUU for **HXAF240c M5SX - ucs-c240m5-huu-4.0.2d.iso**。

從此處下載<u>ISO。</u>

步驟4.開啟要升級M.2韌體的伺服器上的鍵盤/影片/滑鼠(KVM),並通過虛擬媒體對映HUU。

如圖所示啟用虛擬媒體。

cisco UCS KVM		 9 🕐 G
KVM Console Server		Create Image
		Removable Dark
		CD/DVD
		Floppy Disk
	2 & Lote1003 Xeord/83 Benage 3106 GP0 # 1,7050 127.7 G.0. Benary	

選擇HUU並按一下**對映驅動器**。

in calcin D	non manage	inone	1
D/DVD	Choose File	ucs-c240m5-huu-4.0.2d.iso	
	Read Only		
	Map Drive		

步驟5.手動重新啟動伺服器並導航到引導選單。在BIOS螢幕上按F6。

cisco

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Press (F2) BIOS Setup : (F6) Boot Menu : (F7) Diagnostics Press (F8) CIMC Setup : (F12) Network Boot Bios Version : C240M5.3.1.3e.0.0613181139 Platform ID : C240M5

Processor(s) Intel(R) Xeon(R) Bronze 3106 CPU @ 1.70GHz Total Memory = 128 GB Effective Memory = 128 GB Memory Operating Speed 2133 Mhz

Cisco IMC IPv4 Address : 0.0.0.0 Cisco IMC MAC Address : 70:0F:6A:38:0F:9C

Entering Boot Menu ...

Please select boot device:

Cisco vKVM-Mapped vDVD1.24 M.2-SLOT-1: Mircon_5100_MTFDDAV UEFI: Built-in EFI Shell Enter Setup

↑ and ↓ to move selection ENTER to select boot device ESC to boot using defaults

步驟6.選擇Cisco vKVM對映的vDVD選項。您應該開始看到HUU載入。

ISOLINUX 3.86 0x58d0099c ETCD Copyright (C) 1994-2010 H. Peter Anvin et al Loading /vmlinuz0..... Loading /EFI/BOOT/initrd0.img.....

步驟7.成功載入HUU後,您需要確認終端使用者許可協定。

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步驟8.服務器將發現所有元件,完成後,您應該可以看到所有元件。

		Cisc	Cisco	st Update Utility v4.0 HXAF240C-M5SX Server	.2d			
Components	Stor	age Drives Help	-				-	-
Select All	Id	Component Name	Slot	Current Version	Package Version	Status	Description	
	1	BIOS	N/A	C240M5.3.1.3e.0.0613181139	C240M5.4.0.2a.0.1102180333	N/A	N/A	
	2	CIMC	N/A	3.1(3g)	4.0(2d)	N/A	N/A	
	3	Cisco 12G Modular SAS HBA (max 26 drives)	MRAID	00.00.00.35	00.00.00.58	N/A	N/A	
<u>+{</u> firmware Mar	agen	nent Controls		Update	Actuale			
<∱ firmware Mar	agen	Update & Activate All		Update	Activate			
+{ Firmware Mar	agen	Verify Last Update	MC Defa	Update Save Lo	Activate	Exit		
Immware ManCurrent Activity	agen 	Verify Last Update & Activate All Restore Cil	MC Defa	Update Save Lo	Activale	Exit		
+ [Firmware Man Current Activit	agen 	Verify Last Update & Activate All Restore Cit	MC Defa	Update utts Save Lo Vo Update In Progress	Activate	Exit		
Firmware Man Current Activit Execution Log	y y y	verity Last Update & Activate All Restore Cil	MC Defa	Update ults Save Lo No Update In Progress	Activale	Exit		

請勿選擇Update & Activate All。始終建議僅使用主機韌體策略來升級整合伺服器。

在 儲存驅動器 頁籤,選擇此處突出顯示的M.2驅動器,然後按一下 更新 按鈕。

Select All	Id	HDD Name	HDD Type	Serial Number	Enclosure	Slot	New Ver	Current Ver	Status	Description
	1	MZ7LM960HMJP-00003	SATA SSD	S3LHNB0K102727	10	3	1F30	1F3Q	N/A	N/A
	2	MZ7LM960HMJP-00003	SATA SSD	S3LHNB0K102723	10	5	1F3Q	1F30	N/A	N/A
	3	PX05SMB040	SAS SSD	18Q0A0W5TMEE	10	25	0103	0103	N/A	N/A
	4	MZ7LM960HMJP-00003	SATA SSD	S3LHNB0K102728	10	6	1F3Q	1F3Q	N/A	N/A
	5	M27LM960HM3P-00003	SATA SSD	S3LHNB0K102735	10	2	1F3Q	1F3Q	N/A	N/A
	6	MZ7LM960HMJP-00003	SATA SSD	S3LHNB0K102733	10	7	1F3Q	1F3Q	N/A	N/A
	7	MZ7LM960HMJP-00003	SATA SSD	S3LHNB0K102676	10	4	1F3Q	1F3Q	N/A	N/A
	8	MZ7LM240HMHQ-00003	SATA SSD	S3LKNX0K300353	10	1	1F3Q	1F3Q	N/A	N/A
	9	AL14SEB120N	SAS HDD	28M0A0ZKFWKF	10	24	5705	5704	N/A	N/A
	10	MTFDDAV240TCB	ATA	1739191CFFE1	N/A	N/A	U054	U049	N/A	N/A
ware Mana	igerr	ent Controls		T.	Ġ		e.			1
		Undate & Activa	te All		Upda	te			Activite	

Current Activity

接受確認消息並繼續更新。完成後,系統將開始更新過程。

Components	Stora	age Drives Help								
Select All	Id	HDD Name	HDD Type	Serial Number	Enclosure	Slot	New Ver	Current Ver	Status	Description
	1	M27LM960HM3P-00003	SATA SSD	\$3LHNB0K102727	10	3	1F3Q	1F3Q	N/A	N/A
	2	MZ7LM960HMJP-00003	SATA SSD	\$3LHN80K102723	10	5	1F3Q	1F3Q	N/A	N/A
	3	PX055MB040	SAS SSD	18Q0A0WSTMEE	10	25	0103	0103	N/A	NA
	4	MZ7LM960HM3P-00003	SATA SSD	\$3LHNB0K102728	10	6	1F3Q	1F3Q	N/A	N/A
	5	MZ7LM960HMJP-00003	SATA SSD	53LHNB0K102735	10	2	1F3Q	1F3Q	N/A	N/A
	6	MZ7LM960HM3P-00003	SATA SSD	S3LHNB0K102733	10	7	1F3Q	1F3Q	NA	NA
	7	MZ7LM960HM3P-00003	SATA SSD	\$3LHNB0K102676	10	4	1F3Q	1F3Q	NA	N/A
	8	MZ7LM240HMHQ-00003	SATA ST	-	Confirmati	in		×	N/A	N/A
	9	AL14SEB120N	SAS HO	and a state of the	and the second		e in the set		N/A	IVA
	10	MTFDDAV240TCB	ATA C	etore updating Stora icommended that yo ISCO is not responsi ccurs during or as re o you wish to procee	ge drive tim u perform a ible for any suit of upda id with firms	comp data i terinsi vare u	t is STRO lete syste oss that all proces pdate?	m backup	164	76A
irmware Mana	igen	update & Active	de All			B Fio) Xe2	Activate	
		and the second s	100.00	Charles and the second states of	211		and the second second			980330

Select All	Id	HOD Name	HOO Type	Serial Number	Enclosure	Slot	New Ver	Current Ver	Status	Description
	1	M27LM960HM3P-00003	SATA SSD	53LHNB0K102727	10	1	1F3Q	1F3Q	N/A	N/A
	2	M27LM960HM3P-00003	SATA SSD	\$3LHMB0K102723	10	5	1F3Q	1F3Q	N/A	N/A
	3	PX05SMB040	SAS SSD	18Q0A0WSTMEE	10	25	0103	0103	N/A	N/A
	4	MZ7LM960HM3P-00003	SATA SSD	\$3LHR4B0K102728	10	6	1F3Q	1F3Q	N/A	N/A
	5	MZ7LM960HM3P-00003	SATA SSD	\$3LHNB0K102735	10	2	1F3Q	1F3Q	N/A	N/A
	6	MZ7LM960HM3P-00003	SATA SSD	\$3LHNB0K102733	10	7	1F3Q	1F3Q	N/A	N/A
	7	MZ7LM960HM3P-00003	SATA SSD	S%LH##B0K102676	10	4	1F3Q	1F2Q	N/A	N/A
	81	MZ7LM240HMHQ-00003	SATA SSD	\$3LKN000K300353	10	1	1F3Q	1F3Q	N/A	N/A
	9	AL14SEB120N	SAS HOD	28M0A02KFWKF	10	24	5705	5704	N/A	N/A
ware Mana	gen	nent Controls		1			Î			
		Update & Activa	de All		Upsa	Ca:			Activity	
	1	Verity Last Update	R	store CIMC Detault)	1	1	Saur L	ogs	ļ.	Ext
int Activity	É						_			
				SU SU	pdate in Pro	gress	£			

步驟9.選擇M.2驅動器並按一下Activate(啟用)。按一下「Yes」以繼續啟用過程,如下圖所示。

	9	AL14SEB120N	SAS HDD	28M0A0ZKFWKF	10	24	5705	5704	N/A	N/A
2	10	MTFDDAV240TCB	ATA	1739191CFFE1	N/A	N/A	U054	U049	Completed	Update Done, Activation Pen
					Confirm	ation		×		
				Do you wis	h to contin	ue with	activation	12		
d	_				No		Yes	1		
-1					04.		J 1 • •			
Firmware Ma	inagem	ent Controls			01			3		
		Update & Act	tivate All		Up	date			Activate	
		Update & Act	ivate All		Up	date			Activate	

系統將報告成功的更新過程,如下圖所示。

	10 MTFDDAV240TCB	ATA	1739191CFFE1	N/A N/A	U054 U049	Completed	Drive update is successfull.
irmware Mana	igement Controls Update & Activ	rate All	1	Update	1	Activate	>
	Verify Last Update	Re	estore CIMC Defaults		Save Logs		Exit
urrent Activity			No	Update in Progre	\$5		
xecution Logs 119-12-18 23 1 119-12-18 23 1 119-12-18 23 1 119-12-18 23 1 119-12-18 23 1 119-12-18 23 2	6:08,774 INFO Exit 19:55,919 INFO Enter 19:55,921 INFO Spawning acti 19:55,923 INFO Activate pendi 19:55,924 INFO Exit 20:08,418 INFO Activating Con	vate thread fo ng for the nex nponents on i	r :Ctrl_Drives_Hook kt host reboot. Exit				

步驟10.選擇**Exit**以啟用M.2驅動器上的新韌體。系統應自動重新載入。從KVM會話取消對映HUU。 系統應成功引導至作業系統。

即使M.2驅動器上的韌體已使用HUU升級,UCSM對此更改沒有任何可視性。因此,UCSM將繼續 報告D0MU049。

	Lewisburg SSATA Contro.	N/A	N/A				
▼ Disks							
Disk 1	UCS-M2-24008	4,0(1a)C	DOMU049	DOMU049	N/A	N/A	Ready

驗證

使用本節內容,確認您的組態是否正常運作。

VMware ESXi

在ESXi上運行命令esxcli storage core device list,並確認驅動器的韌體版本。

[root@hx-01-esxi-01:~] esxcli storage core device list

t10.ATA____Micron_5100_MTFDDAV240TCB_____MSA23010YASDisplay Name: Local ATA Disk(t10.ATA____Micron_5100_MTFDDAV240TCB_____MSA23010YAS)Has Settable Display Name: trueSize: 228936Device Type: Direct-AccessMultipath Plugin: NMP

Devfs Path: /vmfs/devices/disks/t10.ATA____Micron_5100_MTFDDAV240TCB_ Vendor: ATA Model: Micron_5100_MTFD Revision: U054 <--- firmware version 或者,按如下所示檢查dmesg:

[root@JCLPPESXi01:/vmfs/volumes/049b1811-a0767ff4] dmesg | grep -i ATA-10 2020-01-16T17:36:22.945Z cpu2:33483)<6>ata1.00: ATA-10: Mircon_5100_MTFDDAV240TCB, D0MU054, max UDMA/133 [root@JCLPPESXi01:/vmfs/volumes/049b1811-a0767ff4]

MSA23010YAS

Hyper-V

PS C:\Users\Administrator.HX11HV> Get-PhysicalDisk | Get-StorageFirmwareInformation
PhysicalDisk : MSFT_PhysicalDisk (ObjectId = "{1}\\RCH-HX-11-WFC\root/Microsoft/Windo...)
SupportsUpdate : True
NumberOfSlots : 1
ActiveSlotNumber : 0
SlotNumber : {0}
IsSlotWritable : {True}
FirmwareVersionInSlot : { DOMU054}
PS C:\Users\Administrator.HX11HV> _



目前尚無適用於此組態的具體疑難排解資訊。