Aggiornamento firmware M.2 con utility di aggiornamento host

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Introduzione

In questo documento viene descritto come eseguire l'aggiornamento del firmware dell'unità M.2 quando il firmware dell'unità M.2 su Unified Computing System Manager (UCSM) si blocca quando viene attivato. Questo problema si verifica quando l'aggiornamento combinato di UCS e Hyperflex (HX) viene eseguito da HX Connect e si verifica solo negli scenari in cui l'unità M.2 con firmware in esecuzione è D0MU049 e viene aggiornata al firmware D0MH072.

Premesse

Seguire questa soluzione per eseguire l'aggiornamento del firmware dell'unità M.2 da D0MU049 a una versione intermedia di D0MU054 da cui è possibile eseguire l'aggiornamento a D0MH072. Il problema è specifico del firmware ed è applicabile a tutti i tipi di cluster.

Nota: Eseguire l'attività di aggiornamento come aggiornamento in sequenza un nodo alla volta. Verificare che il cluster sia sempre integro.

UCS Server Firmware Package	FW unità M.2
UCS 3.2.3e C, 3.2.3g C, UCS 4.0.1a	ucs-micron-sata-
С	mtfddav240tcb.D0MU049.bin
	ucs-micron-sata-
003 3.2.311 0, 003 4.0.10 0	mtfddav240tcb.D0MU054.bin
	ucs-micron-sata-
000 4.0.46 0	mtfddav240tcb.D0MH072.bin

Per qualsiasi modifica apportata a queste informazioni sul package, consultare le informazioni sul bundle della release.

Soluzione/Passi

Passaggio 1. Verificare se l'unità M.2 esegue il firmware interessato. Passare a UCSM > Attrezzature > Montaggi su rack > Server > Server < ID > come mostrato nell'immagine.

	General	Inventory	Virtual Machines	Hybrid Display	Installed Firmware	SEL Logs C	IMC Sessions VIF Paths
+	- 7/ Ad	vanced Filter	🛉 Export 🛛 🏯 Print	Update Firmwa	re 🖌 Activate Firmware	Capability Catalo	g
Na	me		Model	Package	Version Ru	unning Version	Startup Version
Þ	Adapters						
	BIOS		Cisco HXAF240c M	5SX H 3.2(3g)C	c:	240M5.3.1.3e.0.0613	1 C240M5.3.1.3e.0.06131
	Board Contr	oller	Cisco HXAF240c M	5SX H 3.2(3g)C	31	1.0	31.0
	CIMC Contro	oller	Cisco HXAF240c M	5SX H 3.2(3g)C	3.	1(3g)	3.1(3g)
	Persistent N	lemory					
	SAS Expand	ler 1	SAS Expander UCS	-C240 4.0(2d)C	65	5.02.15.00	65.02.15.00
v	Storage Cor	troller PC	Lewisburg SSATA C	Contro			
	▼ Disks						
	Disk 1	í,	UCS-M2-240GB	4.0(1a)C	D	0MU049	DOMU049

È necessario aggiornare il firmware dell'unità M.2 da D0MU049 a D0MU054 prima di aggiornare il nodo HX al bundle C 4.0.4e.

Passaggio 2. Prima di caricare HUU, verificare che nel profilo di servizio sia impostata la regola del firmware host su "**Non impostato**". Questa operazione è importante per evitare conflitti tra il profilo del servizio e l'hardware effettivo.

Se non si imposta Host-Firmware-Policy su **"Non impostato"**, il sistema effettuerà nuovamente il downgrade delle unità alla versione D0MU049 per Host-Firmware-Policy applicata, come mostrato nell'immagine.

Properties for: HyperFI	ex-m5	
General Events		
Actions	Properties	
Delete	Name : Hy	yperFlex-m5
Show Policy Usage	Description : R	lecommended Host Firmware Packages for M5 Hyp
Upe Global	Owner : Lo	scal
Modify Package Versions	Blade Package : 4.	0(2d)B Blade Backup Package :
Modify Backup Package Versions	Rack Package : 4.	0(2d)C Rack Backup Package :
	Service Pack :	

General Events		
Actions	Properties	
Delete	Name : HyperFlex-	m5
Show Policy Usage	Description : Recomme	nded Host 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 Dack	

Passaggio 3. Scaricare 4.0.2d HUU per la piattaforma della serie C corrispondente alla serie HX. Nell'esempio, viene utilizzato HUU per **HXAF240c M5SX - ucs-c240m5-huu-4.0.2d.iso**.

Scaricare l'ISO da qui.

Passaggio 4. Aprire Keyboard/Video/Mouse (KVM) sul server che si desidera aggiornare il firmware M.2 e mappare HUU tramite Virtual Media.

Attivare il supporto virtuale come illustrato nell'immagine.

cisco UCS KVM		8 ≣ € 6 % ®	e G	
CONTRACTOR OF CONTRACTOR		Creat	le Imagé	H
KIM CONCE SEVE		Deact	tivate	_
		Ren	novablé Disk	
		C0/	DVD	
		Ficp	xpy Disk	
	 A. Later (OD). Xenerol R3. Branners. 31006. (201) 49–1, 200504. A. Z. Z. Z. GAB. Beaming. 			

Selezionare HUU e fare clic su Map Drive (Connetti unità).

virtual L	isk Manage	ement	×
CD/DVD	Choose File	ucs-c240m5-huu-4.0.2d.iso	
	Read Only		
	Map Drive		

Passaggio 5. Riavviare manualmente il server e passare al menu di avvio. Premere F6 nella schermata del BIOS.

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:3B: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

Passaggio 6. Selezionare l'opzione **Cisco vKVM-Mapped vDVD**. Dovrebbe iniziare a vedere il caricamento HUU.

KW Console Server

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

Passaggio 7. Una volta caricato l'HUU, è necessario confermare il Contratto di Licenza con l'utente finale.

End User License Agreement	
CISCO SOFTWARE LICENSE ACREEMENT	-
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1AGREE IDISAGREE	

Passaggio 8. Il server individuerà tutti i componenti e al termine dovrebbe essere possibile visualizzare tutti i componenti.

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
	4	SAS-EXPANDER	N/A	65.02.12.00-65.02.15.00	65.02.13.00-65.04.15.00	N/A	N/A
I							
[mware Mana	igem	uent Controls		Update	Activate		
[igem	vent Controls Update & Activate All Verity Last Update Restore City	JC Defai	Update ults Save Lo	Activate	Exit	
I mware Mana	igem	verity Last Update	4C Detai	Update ults Save Lo	Activate	Exit	
I irmware Mana urrent Activity	igem	vent Controls Update & Activate All Vently Last Update Restore Cit	ИС Defai	Update ults Save Lo Io Update In Progress	Activate	Exit	

.....

Non selezionare **Aggiorna e attiva tutto**. Si consiglia sempre di aggiornare i server integrati utilizzando solo i criteri del firmware host.

Sotto la **Unità di storage** selezionare l'unità M.2 evidenziata qui e fare clic sul pulsante **Update** pulsante.

Salact All	14	HOD Nama	HDD Tune	Sarial Number	Enclosura	Sint	New Ver	Current Var	Statue	Description
Joenerran	1		CATA CCO	Callender (163222	Lo	- Shine	1520	LE20	Status	Description .
	-	M27LM960HM3P-00003	SAIA SSU	53LHNB0K102727	10		1530	1530	NVA	N/A
-	-	DVAECMD040	CAR COD	1000A0WETHEE	10	25	11-30	11-30	NVA NVA	NA
	4	M77I M960HM3P.00003	SATA SSD	531 HNR0K102728	10	6	1530	1E30	N/A	N/A
	5	MZ7L M960HM3P-00003	SATA SSD	53LHNB0K102735	10	2	1F30	1F30	N/A	N/A
	6	MZ7LM960HMJP-00003	SATA SSD	S3LHNB0K102733	10	7	1F30	1F30	N/A	N/A
	7	MZ7LM960HM3P-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	NA
	10	MTFDDAV240TCB	ATA	1739191CFFE1	N/A	N/A	U054	U049	N/A	N/A

Accettare il messaggio di conferma e procedere con l'aggiornamento. Al termine, il sistema avvierà il processo di aggiornamento.

	Cisco Host Update Utility v4.0.2d Cisco HXAF240C-M5SX Server									
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	NA
	2	MZ7LM960HMJP-00003	SATA SSD	S3LHNB0K102723	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	53LHNB0K102728	10	6	1F3Q	1F3Q	N/A	NA
	5	MZ7LM960HMJP-00003	SATA SSD	53LHNB0K102735	10	2	1F3Q	1F3Q	N/A	14A
	6	MZ7LM960HM3P-00003	SATA SSD	\$3LHNB0K102733	10	7	1F3Q	1F3Q	NA	NA
	7	MZ7LM960HM3P-00003	SATA SSD	\$3LHNB0K102676	10	4	1F3Q	1F3Q	NA	IVA
	8	MZ7LM240HMHQ-00003	SATA ST	-	Confirmati	in		X	N/A	1VA
	9	AL14SEB120N	SAS HO		and the second		South Service		N/A	IVA
	10	MTFDGAV240TCB	ATA R	efore updating Stora icommended that yo ISCO is not respons ccurs during or as re	pe drive firm u perform a ible for any suit of upda	ware i comp data i te/inst	it is STRO lete syste oss that tall proces	m backup	1UA	18A •
4	_		0	o you wish to procee	id with firms	vare u	pdate?	-		
Firmware Mana	igen	update & Activa	de All			ei l) X+2	Activate	
		Verify Last Update	R	estore CIMC Defaults		1 111	Save	Logs		Ext
Current Activity			-		11.0°	1.5		14		

elect All	Id	HOD Name	HOD Type	Serial Number	Enclosure	Site	New Ver	Current Ver	Status	Description
	1	M27LM960HM3P-00003	SATA SSD	S3LHNB0K102727	10	1	1F3Q	1F3Q	N/A	N/A
	2	M27LM960HM3P-00003	SATA SSD	\$3LHNB0K102723	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	S3LHR/B0K102728	10	6	1FJQ	1F3Q	N/A	N/A
	5	MZ7LM960HM3P-00003	SATA SSO	\$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	\$31,HNB0K102676	10	4	1F3Q	1F3Q	N/A	N/A
	8	MZ7LM240HMHQ-00003	SATA SSD	\$3LK%000K300353	10	1	1F3Q	1F3Q	N/A	N/A
	9	AL14SEB120N	SAS HOD	28M0A02KFWKF	10	24	5705	5704	N/A	N/A
are Mana	igen	nent Controls Update & Activi	de All		Upra	ce :	Î		Activity	
	Į.	Verity Last Opdate	R	estore CIMC Detault	j.	1	Save L	ogs		Eut
nt Activity	É				adate in Do					
				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	your sten	· (				

Passaggio 9. Selezionare l'unità M.2 e fare clic su **Attiva. Premere Yes** (Sì) per procedere con il processo di attivazione, come mostrato nell'immagine.

	9	AL14SEB120N	SAS HDD	28M0A0ZKFWKF	10	24	5705	5704	N/A	N/A
2		MTFDDAV240TCB		1739191CFFE1	N/A	N/A	U054	U049	Completed	Update Done, Activation Pen
					Confirm	ation		×		
				Do you wish	h to contin	ue with	activation	12		-
OT.	_				No	1 7	Yes	1		
<u>[21</u>					C LIC					č
Firmware Ma	anagen	nent Controls			01			3		
		Update & Act		Update			Activate			
								-		

Il sistema segnalerà un processo di aggiornamento riuscito, come mostrato nell'immagine.

		1/001010			o completed	ont oposte is succession
ware Man	agement Controls					
	Update & Activate All		Upda	e	Activate	
	Verify Last Update	Verity Last Update Restore CIMC Det		Save Logs		Exit
rent Activity	y		No Undata In O			
			No Opdate in P	ogress		
ecution Log 9-12-18 23 9-12-18 23 9-12-18 23 9-12-18 23 9-12-18 23	IS 16:08,774 INFO Exit 19:55,919 INFO Enter 19:55,921 INFO Spawning activa 19:55,923 INFO Activate pending 19:55,924 INFO Exit	te thread for :Ctrl_Drives 9 for the next host rebool	LHook t			

Passaggio 10. Selezionare **Exit** per attivare il nuovo firmware sull'unità M.2. Il sistema dovrebbe ricaricarsi automaticamente. Scollegare l'unità HUU dalla sessione KVM. Il sistema deve essere avviato correttamente dal sistema operativo.

Anche se il firmware sull'unità M.2 è aggiornato con HUU, UCSM non ha alcuna visibilità su questa modifica. UCSM continuerà quindi a segnalare D0MU049.

Storage Controller PC	Lewisburg SSATA Control		N/A	N/A			
▼ Disks							
Disk 1	UCS-M2-2400B	4,0(1a)C	D0MU049	DOMU049	N/A	N/A	Ready

### Verifica

Fare riferimento a questa sezione per verificare che la configurazione funzioni correttamente.

#### VMware ESXi

Eseguire il comando **esxcli storage core device list** su ESXi e verificare la versione firmware dell'unità.

[root@hx-01-esxi-01:~] esxcli storage core device list t10.ATA____Micron_5100_MTFDDAV240TCB__ MSA23010YAS Display Name: Local ATA Disk ____MSA23010YAS) (t10.ATA_____Micron_5100_MTFDDAV240TCB____ Has Settable Display Name: true Size: 228936 Device Type: Direct-Access Multipath Plugin: NMP Devfs Path: /vmfs/devices/disks/t10.ATA____Micron_5100_MTFDDAV240TCB___ MSA23010YAS Vendor: ATA Model: Micron_5100_MTFD Revision: U054 <--- firmware version In alternativa, controllare il dmesg come mostrato di seguito:

```
[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]
```

### Hyper-V



## Risoluzione dei problemi

Al momento non sono disponibili informazioni specifiche per la risoluzione dei problemi di questa configurazione.