Actualización de firmware M.2 con utilidad de actualización de host

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Introducción

Este documento describe cómo realizar la actualización del firmware de la unidad M.2 cuando el firmware de la unidad M.2 en Unified Computing System Manager (UCSM) se bloquea cuando se activa. Este problema surge cuando se realiza la actualización combinada de UCS e Hyperflex (HX) desde HX Connect y sólo ocurre en situaciones en las que la unidad M.2 que ejecuta el firmware es D0MU049 y se actualiza al firmware D0MH072.

Antecedentes

Siga esta solución temporal para realizar la actualización del firmware de la unidad M.2 de D0MU049 a una versión intermedia de D0MU054 desde la que puede realizar la actualización a D0MH072. El problema es específico del firmware y se aplica a todos los tipos de clúster.

Nota: Realice la actividad de actualización como actualización continua de un nodo a la vez. Asegúrese de que el clúster esté siempre en buen estado.

Paquete de firmware del servidor UCS	Unidad M.2 FW
UCS 3.2.3e C, 3.2.3g C, UCS 4.0.1a C	ucs-micron-sata- mtfdav240tcb. D0MU049 .bin
UCS 3.2.3h C, UCS 4.0.1b C	ucs-micron-sata- mtfdav240tcb. D0MU054 .bin
UCS 4.0.4e C	ucs-micron-sata- mtfdav240tcb. D0MH072 .bin

Consulte la información del paquete de la versión para ver los cambios en esta información del paquete.

Solución temporal/pasos

Paso 1. Verifique si la unidad M.2 ejecuta el firmware afectado. Vaya a UCSM > Equipo >

Montajes en rack >	Servidores >	Servidor	< ID >	como se	muestra en	la imagen.
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	General	Inventory	Virtual Ma	achines	Hybri	d Display	Installed Firmware	e SEL Logs	CIMC Se	ssions	VIF Paths	
+	- Ty Adv	anced Filter	♠ Export	🚔 Print	Update Firmware		Activate Firmwa	re 🛅 Capability C	Capability Catalog			
Na	me		Model		Package Versio		rsion f	on Running Version		Startup Version		
Þ	Adapters											
	BIOS		Cisco HXAI	240c M5	SX H	3.2(3g)C	(C240M5.3.1.3e.0.0	06131 (C240M5.:	3.1.3e.0.06131	
	Board Contro	ller	Cisco HXAJ	240c M5	SX H	3.2(3g)C	4	31.0	3	31.0		
	CIMC Control	ller	Cisco HXAI	240c M5	SX H	3.2(3g)C	3	3.1(3g)	-	3.1(3g)		
	Persistent Me	smory										
	SAS Expande	er 1	SAS Expan	der UCS-	C240	4.0(2d)C	(5.02.15.00	(5.02.15.	00	
-	Storage Cont	roller PC	Lewisburg	SSATA Co	ontro							
	🖌 Disks											
	Disk 1		UCS-M2-2	40GB		4.0(1a)C	(20MU049	ţ.	DOMU049		

Debe actualizar el firmware de la unidad M.2 de D0MU049 a D0MU054 antes de actualizar el nodo HX a 4.0.4e C-bundle.

Paso 2. Antes de cargar HUU, asegúrese de que Service-Profile tenga una política de firmware de host configurada en "**Not Set**". Este paso es importante para evitar conflictos entre el perfil de servicio y el hardware real.

Si no se configura Host-Firmware-Policy en **"Not Set"**, el sistema volverá a degradar las unidades a la versión D0MU049 por Host-Firmware-Policy aplicada como se muestra en la imagen.

Properties for: HyperFl	ex-m5		
Actions	Properties		
Delete	Name :	HyperFlex-m5	
Show Policy Usage	Description :	Recommended Host Fi	rmware Packages for M5 Hyp
Upe Global	Owner :	Local	
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 : Recommended	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 Pack :	

Paso 3. Descargue 4.0.2d HUU para la plataforma C-series que corresponde a la serie HX. En este ejemplo, se utiliza HUU para **HXAF240c M5SX - ucs-c240m5-huu-4.0.2d.iso**.

Descargue ISO de aquí.

Paso 4. Abra Keyboard/Video/Mouse (KVM) al servidor en el que desea actualizar el firmware M.2 y asignar HUU a través de Virtual Media.

Active los medios virtuales como se muestra en la imagen.

cisco UCS KVM		 0 🖲 G
KWM Console Server		Create Image
		Deactivate
		Rémovablé Disk
		CD/DVD
		Floppy Disk
	 a. Later 1012 Associate States 3100: CPA # 1.2020; 122.7.540. Reserve 	

Seleccione HUU y haga clic en Conectar unidad.

virtual L	nsk manage	ment	~
CD/DVD	Choose File	ucs-c240m5-huu-4.0.2d.iso	
	Read Only		
	Map Drive		

Paso 5. Reinicie manualmente el servidor y navegue hasta el menú de inicio. Pulse F6 en la pantalla 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 ...

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

Paso 6. Seleccione la opción vKVM-Mapped vDVD de Cisco. Debería comenzar a ver la carga 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.

Paso 7. Una vez que el HUU se carga correctamente, debe aceptar el Contrato de licencia para el usuario final.

End User License Agreement	-
CISCO SOFTWARE LICENSE ACREEMENT	-
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IAGREE IDISAGREE	

Paso 8. El servidor detectará todos los componentes y debe ver todos los componentes una vez completados.

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	NVA	65.02.12.00-65.02.15.00	65.02.13.00-65.04.15.00	N/A	N/A
<u> </u>							
I	agen	nent Controls Update & Activate All		Update	Activate		
mware Man	agen	Verify Last Update	VC Defau	Update	Activate	Exit	
I mware Man urrent Activity	agen	Nent Controls Update & Activate All Venty Last Update Restore Cli	4C Defau	UpdateSave L	Activate	Exit	
I mware Mani urrent Activity	agen	Nent Controls Update & Activate All Verify Last Update Restore Cit	4C Defau N	Update ults Save L lo Update In Progress	Activate	Exit	

.....

No seleccione **Update & Activate All**. Siempre se recomienda actualizar los servidores integrados sólo con el uso de la política de firmware de host.

En **Unidades de almacenamiento** seleccione la unidad M.2 como se indica aquí y haga clic en el botón **Actualización** para abrir el Navegador.

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

Acepte el mensaje de confirmación y continúe con la actualización. Una vez hecho, el sistema iniciará el proceso de actualización.

				Cisco Host Cisco H	Update xAF240C-M	Util	ity v4. Server	0.2d		
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	1F1Q	1F3Q	N/A	N/A
	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	M27LM960HM3P-00003	SATA SSD	53LHNB0K102728	10	6	1F3Q	1F3Q	N/A	N/A
	5	MZ7LM960HMJP-00003	SATA SSD	\$3LHNB0K102735	10	2	1F3Q	1F3Q	N/A	16A
	6	MZ7LM960HM3P-00003	SATA SSD	\$3LHNB0K102733	10	7	1F3Q	1F3Q	NA	NA
	7	M27LM960HM3P-00003	SATA SSD	\$3LHNB0K102676	10	4	1F3Q	1F3Q	NA	NA
	8	MZ7LM240HMHQ-00003	SATA SE		Confirmat	m		X	N/A	N/A
	9	AL14SEB120N	SAS HO		and the second		Scillibres		N/A	IVA
Ø	10	MTFDDAV240TCB	ATA R	efore updating Stora icommended that yo ISCO is not respons ccurs during or as re	ge drive firm u perform a ible for any suit of upda	comp data i te/insi	it is STRO lete syste oss that tall proces	NGLY m backup	TUR	764
4	_		0	o you wish to procee	d with firms	vare u	pdate?	1		0
Firmware Mana	gem	update & Active	de All			B Fio) X#5	Activate	
		Verify Last Update	R	estore CIMC Defaults			Save	logs		Exit
Current Activity						15.0				

elect All	Id	HDD Name	HOD Type	Serial Number	Enclosure	Slot	New Ver	Current Ver	Status	Description	
	1	M27LM960HM3P-00003	SATA SSD	S3LHNB0K102727	10	1	1F3Q	1F3Q	N/A	N/A	
		M27LM960HM3P-00003	SATA SSD	53LHNB0K102723	10	5	1F3Q	1F3Q	NA	N/A	
	3	PX05SMB040	SAS SSD	18Q0A0WSTMEE	10	25	0103	0103	N/A	N/A	
	4	MZ7LM960HM3P-00003	SATA SSD	S3LHR/B0K102728	10	6	1F3Q	1F3Q	N/A	N/A	
	5	MZ7LM960HM3P-00003	SATA SSO	S3LHNB0K102735	10	2	1F3Q	1F3Q	N/A	N/A	
	6	M27LM960HM3P-00003	SATA SSD	\$3LHNB0K102733	10	7	1F3Q	1F3Q	N/A	N/A	
7 M27LM960HM3P-00003 SATA SSD			SATA SSD	S3LH080K102676	10	4	1F3Q	1F2Q	N/A	N/A	
8 MZ7LM240H		M27LM240HMHQ-00003	SATA SSD	\$3LKN00K300353	10	1	1F3Q	1F3Q	N/A	N/A	
	9	AL14SEB120N	SAS HOD	28M0A02KFWKF	10	24	5705	5704	N/A	N/A	
8	10	MTFDDAV240TCB	ATA	1729191CFFE1	16A	N/A	1054	U049	In Progress	Drive update is in pr	
rare Mana	igen	ent Controls Update & Activa	de All	1	Upra	C#			Activite		
	Į.	Verity Last Update	R	istore CIMC Detault	í.	1	Sau L	logs		Ext	
nt Activity	Ē				-						
				. v	poace in Pro	dears	L.				

Paso 9. Seleccione unidad M.2 y haga clic en **Activar.** Pulse **Sí** para continuar con el proceso de activación como se muestra en la imagen.

	9	AL14SEB120N	SAS HDD	28M0A0ZKFWKF	10	24	5705	5704	N/A	N/A
	10	MTFDDAV240TCB	ATA	1739191CFFE1	N/A	N/A	U054	U049	Completed	Update Done, Activation Pen
				Do you wis	Confirme h to contin	ue with	activation	2		_
1					€ No		Yes			ت ل ا
Firmware M	anagen	nent Controls						1		
		Update & Act	tivate All		Upr	date			Activate	
					-		-			

El sistema notificará un proceso de actualización exitoso como se muestra en la imagen.

	10	MTFDDAV240TCB	ATA	1739191CFFE1	N/A N/A	U054	U049	Completed	Drive update is successful
mware Mai	nageme	ent Controls				1			
		Update & Acti	ivate All		Update			Activate	
		Verify Last Update		Restore CIMC Defaults		Save	Logs		Exit
rrent Activi	ty								
				No	Update In Progre	\$5			
cution Lo	qs								
9-12-18 23	16:08	,774 INFO:Exit							
9-12-18 23	19:55	,919 INFO Enter 921 INFO Snawning ac	tivate thread	for Ctrl Drives Hook					
9-12-18 23	19:55	923 INFO Activate pen	ding for the n	ext host reboot.					
9-12-18 23	19:55	,924 INFO Exit		-					
9-12-18 23	20:08	,418 INFO:Activating Co	omponents o	n Exit					

Paso 10. Seleccione **Exit** para activar el nuevo firmware en la unidad M.2. El sistema debe recargarse automáticamente. Desmapee el HUU desde la sesión KVM. El sistema debe iniciarse correctamente en el sistema operativo.

Aunque el firmware de la unidad M.2 se actualiza con HUU, UCSM no tiene ninguna visibilidad sobre este cambio. Por lo tanto, UCSM continuará informando sobre D0MU049.

	Lewisburg SSATA Control			N/A	N/A		
▼ Disks							
Disk 1	UCS-M2-24008	4,0(1a)C	D0MU049	DOMU049	N/A	N/A	Ready

Verificación

Utilize esta sección para confirmar que su configuración funcione correctamente.

VMware ESXi

Ejecute el comando **esxcli storage core device list** en el ESXi y confirme la versión de firmware de la unidad.

[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 O, compruebe el dmesg como se muestra aquí:

[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



Troubleshoot

Actualmente, no hay información específica de troubleshooting disponible para esta configuración.