La actualización de ESXi a 7.0 U2 mediante HX Connect o Intersight falla con "CPU_SUPPORT WARNING"

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Introducción

Este documento describe el proceso para actualizar ESXi a 7.0 U2, que puede fallar en servidores que ejecutan unidades de procesamiento central (CPU) de generación anterior.

Antecedentes

La actualización iniciada a través de HX Connect o de Intersight muestra el mensaje de error: "Error al aplicar el perfil HX-ESXi-7.0U2-17867351-Cisco-Custom-7.2.0.5" o "CPU_SUPPORT WARNING: Es posible que la CPU de este host no sea compatible con versiones futuras de ESXi. Planifique en consecuencia".

Las versiones de la plataforma de datos Hyperflex (HXDP) necesarias para solucionar este problema son:

HXDP 4.5(2a)

HXDP 4.5(1a)

HXDP 4.0(2f) e inferior compatible con ESXi 7.0 U2

Problema

Intento de actualización a ESXi 7.0 U2 a través de HX Connect o Intersight en servidores que ejecutan CPU de generaciones anteriores, especialmente las familias de CPU Sandy Bridge-EP (E5-2600), Ivy Bridge-EP (E5-2600v2) y Haswell EP (E5-2600v3). Consulte VMware KB para obtener más información sobre los procesadores afectados por esta comprobación de compatibilidad: <u>base de conocimientos de VMware.</u>

$\leftarrow \rightarrow \mathbf{C}$ A Not secu	re /#/clusters/1/	Q	☆	*	-	:	
= doub HyperFlex Connect		a		Â	۲	0	2
🕑 Dashboard	Errors found during upgrade						
MONITOR	Upgraded 0 of 3 total nodes						
Alarms	△ Collapse All						
2 Events	∧ UCS	✓ Running Cluster Pre Upgrade Tasks					
Activity	Succeeded						
ANALYZE	A UCS-						
PROTECT	A UCS-() Failed	Copying and Extracting Upgrade Package(s)					
MANAGE	A UCS Failed	Lipgrading Typervisor ESI0 upgrade failed on host 10.104.0.66. Failed to apply profile 104.ESI6-7.6020.17067351-Cisco-Custom-7.2.8.5					
😑 Datastores		 Copying and Extracting Upgrade Package(s) 					
🗟 iscsi		✓ Checking Cluster readiness					
Virtual Machines		✓ Upgroting Storage Node					
T Upgrade		✓ Relinquish node					
> Web CLI		Rounning Post Relinquish Node Tasks					
Kubernetes		Waiting for Datastores to be Accessible on the Node					
		Content of Source Instruction of Posts Source Instruction of Post Enter Host Maintenance Mode Tasks Source Instruction of Post Enter Host Maintenance Mode Tasks					
		• mmmg					

Cluster Time : 07/08/2021 12:44:11 AM PDT

mensaje de error de conexión HX

=	cisco Intersight	Requests > Upgrade HyperFlex Cluster > Update node u	Q II 54 ▲ 36 🕞 🔍 ⊘	
<u>080</u>	MONITOR	Details	Execution Flow	
ø	OPERATE ^	Status E Failed	📵 ucs 💷 Update Host OS	
	Servers	Name Update node ucs ID 60er 15f	Node upgrade failer: Failed task = Failed to Upgrade Hypervisor. Failure reason = Failed to Upgrade Hypervisor, PlantwareEmorp Hardware prechect 70 UU: 7187335 Clace Octavity 72.0.5 failed with warrings - CPU.SUPPORT WARNING. The CPU in this hoat may not be supported in future ESX rel accordingly >n Apply—no-hardware-warning option to ignore the warnings and proceed with the transaction n Please refet to the log file for more de	of profile HX-ESX)- eases. Please plan fails.
	Chassis Fabric Interconnects	Target Type HyperFlex Cluster Node	🔗 ucs t: Update Vibs	
	HyperFlex Clusters	Target Name ucs Source Type HyperFlex Cluster Profile	⊘ ucs- 1; Enter Host Maintenance Mode	
×	CONFIGURE ^	Source Name ucs _cluster	C ucs Validate DRS is Enabled and Fully Automated	
	Profiles	Initiator Start Time Jul 13, 2021 11:09 PM	📀 ucs 1: Run Post Node Relinquish Task	
	Templates	End Time Jul 13, 2021 11:35 PM	⊙ ucs-III: Upgrade HXDP	
	Policies	Duration 26 m 11 s	Sucs I: Enter HXDP Maintenance Mode	
Ţ	ADMIN ^	Organizations idefault	⊘ ucs III : Collect Preconditions for Upgrade	
	Targets			
	Software Repository			

Solución

Situación A. Actualización combinada de HXDP + ESXi desde la interfaz de usuario de HX Connect

Para este escenario, debe actualizar HXDP a 4.5(2a) y ESXi a 7.0 U2 Build 17867351.

Paso 1. Actualice primero sólo HXDP.

Paso 1.1. Descargue el paquete HXDP a través de <u>https://software.cisco.com/download/home/286305544/type/286305994/release/4.5(2a)</u> como se muestra en la imagen:

← → C a software.cisco.com/download	l/home/286305544/type/286305994/release/4.5(2a)		
Downloads Home / Hyperconverged Infrastruc	ture / HyperFlex HX Data Platform / HyperFlex HX Data Platform- 4.5	(2a)	
C Search Expand All Collapse All Suggested Release ~ 4.0(2f) S	HyperFlex HX Data Platform Release 4.5(2a) My Notifications	Related Links Recommended So Release Note for 4	and Documentation ftware Releases .5(2a)
Latest Release ✓ 4.5(2a)	Cisco strongly recommends following the Cisco HyperFlex R version for your HX-Series System.	ecommended Softwa	re Release Page to select the be
4.0(2f) 😯	File Information	Release Date	Size
3.5(2i)	Cisco HyperFlex Data Platform Installer for VMware ESXi Cisco-HX-Data-Platform-Installer-v4.5.2a-39429-esx.ova	30-Jun-2021	3528.53 MB
2.6(1e)	Advisories 📑		

Paso 1.2. Abra HX-Connect, elija Upgrade, marque la casilla de verificación HX Data Platform, cargue el paquete, ingrese el nombre de usuario y la **contraseña de administrador** para las **credenciales de vCenter** y haga clic en Upgrade (Actualizar) como se muestra en la imagen:

$\leftarrow \ \ \rightarrow \ \ C$	O 🔓 https://10 .98/#/clusters/1/upgrade?upgradeType=CLUSTE	R_UPGRADE_HXDP	67% 公				
≡ ^{injude} HyperFlex Connect	UC -CL		Q_▲1 🛱 💷 I	⊙ ⊙ ∂			
Dashboard MONITOR	CLUSTER UPGRADE EUGIBILITY No Results		Test Upgrade Eligibility				
Q Alarms							
슈 Events	Select Upgrade Type	Prog	ress				
ANALYZE	UCS Server Firmware 💿						
Performance	HX Data Platform						
PROTECT	 storfs.pa 	ckages-4.5.2a-39429 file is uploaded					
MANAGE System information Datastores	Current H02P version: Version(45.2.a-39429) Current Cluster details > Checksum	Current Catalog version: Version(4.5.2	2-39-229 Current catalog details Bundle version: 4	1.5.26-39429			
୍ଟି iSCSI	ESXI						
Virtual Machines	Secure Boot mode (0)						
Upgrade Web CLI	vCenter Credentials Usenane Admin password						
Kubernetes	administrator@vsphere.local	۵					

Actualización de conexión HX HXDP

Una vez completada la actualización, vaya al paso 2.

Paso 2. Abra HX Connect, elija **System information > Nodes**, elija el nodo en el que desea actualizar Esxi y haga clic en **Enter HX Maintenance Mode** como se muestra en las imágenes.

← → C 4	C 🔺 Not secure 10. 98/# Q 🖈 🛔 🛔 :								
= the Hyperflex Connect				UC	α				Q▲1 M ⊗ O A
Deshboard	System Overview	System Overview Nodes Disks							
Q. Alarms	© Enter HX Main	https://www.communication.communications.communica	Mode Hypervisor Status	Controller Address	Controller Status	Model	Version	Disks	Command Line Mode
C Evens	219	10 64	Online	10 60	Online	H0(220C-M45	4.5(28)		Root shell ①
ANALYZI	220	10 66	Online	10 70	Online	H0220C-M45	4.5(28)	8	Root shell ①
PROTECT	1-3 of 3								
MANAGE System Information									
E Datastores									
Vitual Mechines									
> Web CU									
 Kubernetes 									

nodos de conexión HX

← → C 🚺	Not secure	1098/#			
$=$ $\frac{d_{\rm eff}}{d_{\rm eff}}$ HyperFlex Connect				UC -CL	
Dashboard MONITOR	System Overview	Nodes Disks nce Mode G Exit HX Maintenanc	e Mode	Confirm HX Maintenance Mode 🔿 🛇	
Q Alarms	Node ^	Hypervisor Address	Hypervisor Status	Co Atus Model Version Disks	
12 Events	-219	10. 1.64	Online	10 HX220C4A45 4.5(2a) 8	
ANALYZE	-220	10. 65	Online	HXX Maintenance Mode ensures that the entire hyperconverged node, including the host, enters maintenance, HXX20C-M45 4.5(2a) 8	
La Performance	-221	10. 1.66	Online	10 A host in Maintenance Mode is enabled but does not HX220C-M45 4.5(2a) 8	
	1 - 3 of 3			virtual machine providening Virtual machines running on the host entering Nationanone Mode may need to be powered off or migrated manualiy to offerent hosts. The Either Ki Xi Alaineane mode task	
MANAGE System Information Datastores SISSI Virtual Machines Tr Upgrade X Web CU Nubernetes				des no complete, und all numing virtual machines are powered off or migrated. Do you want to put the selected host in HX Maintenance Mode? Cancel Enter 10X Maintenance Mode	

ventana emergente del modo de mantenimiento de conexión HX

Puede ver la actividad completada en la pestaña Activity, como se muestra en la imagen:

← → C 🚺	Not secure 10. 98/#/clusters/1/activity			Q	$\dot{\mathbf{x}}$	*	
= the Hyperflex Connect		uc -a.		0 🔺 1		001	0
② Deshboard	Filter Filter Isted tasks						
MONITOR Alerms	Activity @Montor progress of recent tasks on the HK storage cluster.			Lettrafte	ened at 010	08/2021 12:4	8-20 911
☆ Events	~ Colepse All						
Activity	Validate enter maintenance mode for node >219						
ANALYZE	Status: Success 07/05/2021 12:45:45 PM	Recalled savids check	Dream mainteenance mode sask is not running for other nodes and for other site nodes in strench cluster				
🕼 Performance		vCenter availability check	 Cluster should be registered with sCenter 				
PROTECT		vCenter reachability check	✓ = vCenter is reachable from vCenter				
Replication		Maintenance mode state theck	 Check the node is not in maintenance mode 				
MANAGE		Wit Migration check	 Check VM Migration is enabled in all nodes 				
System Information		Ousser health check	 Allow maintenance mode only for healthy duster 				
E Detastores		Nodes availability check	Check number of nodes available to subrate this node into maintenance mode				
E) (6CS)							
Virtual Machines	 Enter maintenance mode for node -219 Status: Success 						-
T Upgrøde	07/08/2021 12:48:45 PM	Eren warrenande wope	 Validare enter maintenance mode for node uct-219 Parallel lasks check: Driver maintenance mode lask is not numling for other nodes and for other site nodes in stretch cluster 				
>_ Web CU			 VCenter availability check. Outlan should be registered with vCenter vCenter reachability check. vCenter is reachable from vCenter 				
Kubernetes			 Maintenance mode state check; Check the node is not in maintenance mode 				
			 Vitil tinguation check: Check Vitil tinguation is enabled in all notes Cluster health check. Allow maintenance mode only fair healthy cluster 				
			 Nodes availability sheck. Check number of nodes available to sulerate this node into maintenance mode 				
		Enter vCenter Mantenance mode	Initiate the enter maintenance mode in vCenter				
		was to sM registion to be completed	Whengration will take time based on number of user VMs				
		terriquish the rode	Shutting down storts pracefully				
		Power of controller VM	 Powering off the controller VM 				
		vCenter mantenance mode Leok	 Waiting for maintenance mode task to be completed in vCenter 				

Ficha Actividad de conexión de HX

Paso 3. Secure Shell (SSHI) en el host ESXi colocado en el modo de mantenimiento como raíz.

Paso 4. Cree una carpeta y cargue el paquete ESXi en ella.

Paso 4.1. Ejecute el comando: mkdir /hxpatch

Paso 4.2. Cree un paquete ramdisk para almacenar con el comando: esxcli system visorfs ramdisk add -m 500 -M 500 -n hxpatch -t /hxpatch -p 0755.

Paso 5. Descargue el paquete ESXi-7.2.0.5 de las descargas de cisco en un repositorio local con el enlace <u>https://software.cisco.com/download/home/286305544/type/286305994/release/4.5(2a)</u> como se muestra en la imagen:



Paso 5.1. Copie el paquete del repositorio local a la carpeta **/hxpatch**. El siguiente ejemplo utiliza WinSCP:

Local Mark Files Commands Session Options Rem	ote Help								
🕀 🔀 🔯 Synchronize 🔳 🧬 🔝 🚳 Queue	 Transfer 	Settings Default	- 🥔	•					
🖵 root@1(65 × 🖳 New Session									
🖹 My documents 🔹 🚰 • 🕎 • 🖬 😭 🎜 🛃	$ \Leftrightarrow \cdot \Rightarrow \cdot$				📕 hxpatch 🔹 🗂 📲	7 - 🖬 🔽	🏠 🎜 🖻 🕅 Find Files 📍	• • • •	
🕼 Upload 🔹 📝 Edit 🔹 🗶 📝 😡 Properties 😭	New 🕶 📑				🛛 🔐 Download 🔹 📝 Ed	it - 🗙 🕅 🛛	🖢 Properties 📔 🎦 New -	$+ - \forall$	
C:\Users\admin\Documents\					/hxpatch/				
Name MobaXterm HX-ESXI-7.0U2-17867351-Cisco-Custom-7.2.0.5-up	Size 2 KB 13 KB 12 KB 382,244 KB 6 KB 1 KB 59 KB	Type Parent directory File folder Windows PowerCs. Text Document Compressed (zi PY File TGZ File	Changed 7/7/2021 12:10:44 7/7/2021 7:29:03 12/40/2020 14:40 % Uploading File: HX-ES: Target: //xpat Time left: Bytes transferred:	8 PM PM NdG DM Xi-7.0U2 cch/ Calcul 13	Name Name Name Name Name Name Name Name	Size × 0.5-u 0.02 MB/s	Changed 7/8/2021 1:19:04 PM	Rights rwxr-xr-x	Owner root

Paso 6. SSH vuelve al host en modo de mantenimiento.

Paso 7. Ejecute este comando para ver los detalles del perfil del paquete: esxcli software sources profile list —depot=/hxpatch/HX-ESXi-7.0U2-17867351-Cisco-Custom-7.2.0.5-upgrade-bundle.zip como se muestra en la imagen:

[root@								
Name	Vendor	Accentance Level	Creation Time	Modification T				
ime	venuor			Hourication 1				
HX-ESXi-7.0U2-17867351-Cisco-Custom-7.2.0.5	Cisco	PartnerSupported	2021-04-29T18:21:43	2021-04-29T18:				
21:43								
[root@220:/hxpatch]								

Paso 8. Ejecute este comando para actualizar el paquete ESXi a 7.0 U2:

```
esxcli software profile update --allow-downgrades -d /hxpatch/HX-ESXi-7.0U2-17867351-Cisco-
Custom-7.2.0.5-upgrade-bundle.zip -p HX-ESXi-7.0U2-17867351-Cisco-Custom-7.2.0.5 --no-hardware-
warning
```

Paso 9. Reinicie el host.

Paso 10. SSH en el host y verifique la versión con el comando: vmware -v.

```
The time and date of this login have been sent to the system logs.
WARNING:
   All commands run on the ESXi shell are logged and may be included in
   support bundles. Do not provide passwords directly on the command line.
   Most tools can prompt for secrets or accept them from standard input.
VMware offers supported, powerful system administration tools. Please
   see www.vmware.com/go/sysadmintools for details.
The ESXi Shell can be disabled by an administrative user. See the
   vSphere Security documentation for more information.
[root@ -220:~] vmware -v
VMware ESXi 7.0.2 build-17867351
[root@ -220:~]
```

Paso 11. Salga del nodo del modo de mantenimiento y espere a que el clúster funcione correctamente.

Paso 11.1. Abra HX-Connect, elija System Information> Nodes, elija el nodo en el modo de mantenimiento y haga clic en Exit HX Maintenance Mode como se muestra en las imágenes:

← → C ▲ Not secure 10								
= disabile HyperFlex Connect					-CL			
⑦ Dashboard	System Overview Nor	Jes Disks						
	① Cluster not registered with Cisco Licensing. Register Now							
슈 Events	UC: -CL	License Type Evaluation License Status License e	n xpires in 89 days. Ouster not registerer	J with Cisco Licensing.				
Activity	vCenter		https://cit-vcvm10.eng.storvisor.com	Hypervisor	Moved Versions	Total Capacity Available Capacity		
ANALYZE	opune	06	ays, 14 nours, 20 minutes, 44 seconds	HAUP VESION	43.28.3929	Data Replication Factor		
Performance	Hyperconverged Nodes							
PROTECT	Node	Hypervisor	HyperFlex Controller	Disk Overview (# in use)				
C Replication	-219	Online	Online	1 2 3 4 5 6 7 8				
MANAGE	HX220C-M45	10. 0.64	10. 1.68	o ,				
System Information		6.7.0-17499825	4.5.28-39429					
Datastores	Node	Hypervisor	HyperFlex Controller	Disk Overview (8 in use)				
🛱 iscsi	-220	Online	Offline					
Virtual Machines	HX220C-M4S	10 0.65	4.5.28-39429	o (
↑ Upgrade		7.0.2-17867351						
>_ Web CLI	Node	Hypervisor	HyperFlex Controller	Disk Overview (8 in use)				
Kubernetes	-221 HX220C-M45	Online 10 0.66 6.7.0-17499825	Online 10	0 7				

Nodos de conexión HX

← → C ▲	Not secure 10							९ 🖈 😩 :
= 🚓 Hyperflex Connect			UC	α				.0 0 0 A
Deshboard Moniton Aiarms	System Overview Nodes Disks © Enter HX Maintenance Mode G Exit HX Maintenance	Mode						Lest vitranes et 61:08:0001 1246 59 RV O
☆ Evens @ Activity	Node Hypervisor Address 219 10 64 220 10 65	Hypervisor Status Online Online	Controller Address	Controller Status Online Online	Model 10(2205-M45 10(2205-M45	4.5(2e) 4.5(2e)	Disks 8	Command Line Mode
A Performance	221 10 66	Online	10 70	Online	H0220C4M45	4.5(2#)	8	Root shell ()
MANAGE System Information Datastores G dCSI Virtual Machines T Upgrade								
 Web CLI Kübernetes 								

HX connect Exit MM

Paso 11.2. El panel de HX Connect muestra el estado operativo, debe estar en **línea** y el estado de la resistencia debe ser **saludable**.

≡ ^{altala} HyperFlex Connect		and and a second s	4 💷 菌 💷 O &
Dashboard	OPERATIONAL STATUS Online ©	① Clus	ster License not registered
Alarms	RESILIENCY HEALTH Healthy ①	✓ 1 N	ode failure can be tolerated
録 Events	CAPACITY 6 TB	1.2% STORAG 71.2 GB Used 6 TB Free OPTIMU	E Compression 77%

Paso 12. Repita los pasos 2-11 en todos los nodos que forman parte del cluster, uno a la vez.

Una vez completada la actualización de ESXi, podrá ver los detalles de la versión en la consola de teclado, vídeo y ratón (KVM) del servidor HX, tal y como se muestra en la imagen:

cisco. UCS KVM	
KVM Console Properties	
	VMware ESXi 7.0.2 (VMKernel Release Build 17067351)
	Cisco Systems Inc H0220C-M4S
	2 x Intel(R) Xeon(R) CPU ES-2600 v3 0 2.50GHz 303.9 GHB Memory

También puede verificar en HX Connect que la nueva versión de ESXi está presente en la ficha **System Information**, como se muestra en la imagen:

\leftarrow	\rightarrow (c (2	https://10.98////clusters/1	/servers?tab={°id":"Server","	"index":0}			☆		\bigtriangledown	=
=	ultulu cisco	HyperFlex Connect			UC	-CL		🗘 🔺 1	ĥ	0	0	ھ
0	Dasht	poard	î	Hyperconverged Nodes				Disk View Options 🗸	Di	sk View Le	gend	
\cup	Dubin			Node	Hypervisor	HyperFlex Controller	Disk Overview	V (8 in use)				
MON	NITOR			-219	🕑 Online	Online	1 2 3 4	5 6 7 8				
Q	Alarm	s		HX220C-M4S	10. 64	10						
ជ	Event	s			6.7.0-17499825	4.5.2a-39429	¢ /					
Û	Activit	y										
				Node	Hypervisor	HyperFlex Controller	Disk Overview	V (8 in use)				
ANA	LYZE			·220	🥝 Online	🥝 Online						
LaIn	Perfor	rmance		HX220C-M45	10. 65	1069						
PRO	TECT				7.0.2-17867351	4.5.2a-39429	0 /					
ſ	Replic	ation										
				Node	Hypervisor	HyperFlex Controller	Disk Overviev	V (8 in use)				
MAN	IAGE			-221	🥝 Online	🕗 Online						
Ħ	Syster	n Information		HX220C-M4S	1066	1070						
-	Datas	tores	<i>_</i>		6.7.0-17499825	4.5.2a-39429	······································					

Esxi actualizado con conexión HX

Situación B. Actualización combinada de HXDP y ESXi desde Intersight

Para este escenario, debe actualizar HXDP a 4.5(2a) y ESXi a 7.0 U2 Build 17867351 desde Intersight.

Paso 1. Si uno de los servidores HX está en modo de mantenimiento, reinicie este servidor a través de vCenter o de la consola KVM de ucs.

✓ 由 221_dc	😚 Deploy OVF Template	Adapter
✓ [221_cl	⊘ New Resource Pool	el: USB Storage Controller
-219.eng.storvisor.com	n+	√ vmhba32
-220.eng.storvisor.com	čá New VApp	el: Wellsburg AHCI Controller
-221.eng.storvisor.com (Maintenance Mode)	Import VMs	♦ vmhba0
∰ stCtIVM- ∰ stCtIVM-	Maintenance Mode	. ⇔ vmhba1
∰ stCtiVM-	Connection	
-clone1	Power	Power On
-clone10		
-clone2	Certificates	Enter Standby Mode
Clone3	Storage	Shut Down
-clone4	St Add Networking	E Doboot
-clone5	P Au netroning	6 Repool
-clone6	Host Profiles	
-clone7	Export System Logs	
-clone8	Export System Logs	
-clone9	Reconfigure for vSphere HA	
-∨M	🖎 Assign License	

Paso 2. Una vez reiniciado el servidor, salga del modo de mantenimiento HX desde la interfaz de usuario de HX Connect. Abra HX-Connect, seleccione **Información del sistema > Nodos**, elija el nodo en modo de mantenimiento y haga clic en **Salir del modo de mantenimiento HX**.

Paso 3. Espere unos minutos para que el clúster de Hyperflex complete la recuperación. El **panel de** HX Connect muestra el estado operativo, debe ser **Online** y el estado de resistencia debe ser **Healthy**.

≡ ^{allatla} HyperFlex Connect		80100	0 0 A
Dashboard	OPERATIONAL STATUS Online ©		Cluster License not registered
Alarms	Healthy ①		✓ 1 Node failure can be tolerated
Activity	CAPACITY 6 TB	1.2% 71.2 GB Used 6 TB Free	STORAGE Compression 77% Deduplication 0%

Paso 4. Abra Intersight, elija **Upgrade**, haga clic en **Expert Mode > Upgrade HyperFlex Data Platform** como se muestra en las imágenes:

=	cisco Intersight	OPERATE > HyperFlex Clusters Q 🖬 53 🔺 35 🖂 Q 📀	9
ele	MONITOR	Clusters Backups	
Ŷ	OPERATE ^		
	Servers	* Al Clusters © +	
	Chassis	···· > ···· > ··· > ··· > ··· > ··· > ··· > ··· > ··· > ··· > ··· > ··· > ···	<u> </u>
	Fabric Interconnects	Health Connection Storage Utilization Capacity Runway Types Hyp	perFlex Version
	HyperFlex Clusters	UNECREC. 1 + Hull_ 1 + Hybrid 1 (ر
×	CONFIGURE ^		
	Profiles	Name : Health : Type : Hyper_ : Storage Cap_ Stora_ : Storage Utilization Trend () : Cap	sacity_ 〇
	Templates	Clust © Healthy HyperFlex 4.0(21) 6.0 - 1.0% 0.0% Unit	
	Policies	··· 🧷 Selected 1 of 1 Show Selected Unselect All	< <u>1</u> of
	Pools	Upgrade	
Ð	ADMIN ^	Run Health Check	
	Targets		
	Software Repository		



<u>01</u> 0	MONITOR	⊡ Progress	Step 2	
θ	OPERATE ^		Compatibility Check	
	Servers	Version Selection	Ensure all clusters meet the upgrade requirement If any cluster does not meet the pre-upgrade	B.
	Chassis	Computibility Check	requirements, unselect the cluster and continue w the upgrade.	ith
	Fabric Interconnects	Summary		
	HyperFlex Clusters		All clusters meet upgrade requirements	
×	CONFIGURE ^			
	Profiles		1 items found 10 v per page 1 of 1	
	Templates		Q. Add Filter	
	Policies		Name HyperFlex Data Platf Hypervisor	
	Pools		cluster 4.0.2f-35930 🛞 VM/ware ESXi 6.7.0 U3 (17	499825)
Ð	ADMIN ^		Selected 1 of 1 Show Selected Unselect All K C 1	of1 2 2
	Targets			
	Software Repository			



Step 3 Summary

Target Version		
HyperFlex Data Platform Version 4.5(2a)-39429		
Clusters to be upgraded 1	Upperedo (4 UpperFlay Objeter)	
	Upgrade (1 HyperFlex Cluster)	
	Upgrade starts immediately on all selected clusters. When the data path must be upgraded, some clusters may require the evacuation of VMs. For	
	two node clusters, the migration of VMs will be attempted automatically. For three node or larger clusters, enable and set DRS to fully automatic	
_cluster	mode. If DRS is not available, manually migrate the VMs when prompted, to ensure that the upgrade can continue.	ire ESXi 6.7.0 U3 (17499825)
	Cancel	

Paso 5. Puede observar el inicio y el final de la actualización:

=	cisco Intersight	Requests > Upgrade HyperFlex Cluster	0 ■ 53 ▲ 35 3 4 0 3	
tle	MONITOR	Details	Execution Plaw	
θ	OPERATE ^	Status © Success	S 220: Cleanup Lasks after upgrade Jul 14;	
	Servers Chassis	Name Upgrade HyperFlex Cluster ID 60et36d8696/6e2d3071e9db	O 219: Cleanup tasks after upgrade Jul 14,	
	Fabric Interconnects	Target Type HyperFlex Cluster	© 221: Cleanup tasks after upgrade Jul 14,	
	HyperFlex Clusters	Target Name	Running Cluster Post-Upgrade Hooks Jul 14,	
×	CONFIGURE ^	220 Source Type HyperFlex Cluster Profile	© 220: Update node View Execution Row Jul 14.	
	Profiles	Source Namecluster	O 219: Update node View Execution Row Jul 14:	
	Templates	Initiator	221: Update node View Execution Pow	
	Policies	Start Time Jul 14, 2021 12:11 PM		
	Pools	Duration 1 h 59 m 25 s	220: Nun Node Level Validations for Upgrade Jul 14, 2	
æ	ADMIN ^		Control of the Cevel Validations for Upgrade	
	Targets	Organizations default	S 221: Run Node Level Validations for Upgrade Jul 14, 2	
	Software Repository		Run Validations for Upgrade Jul 14,2	

Paso 6. Inicie la actualización de ESXi para cada servidor. Copie el paquete de actualización de ESXi 7.0 U2 en los hosts de ESXi.

Paso 6.1. Descargue el paquete de actualización de ESXi 7.0U2 desde las descargas de Cisco con el enlace:

https://software.cisco.com/download/home/286305544/type/286305994/release/4.5(2a):

Paso 6.2. En cada host de ESXi, copie el paquete de actualización de ESXi 7.0U2 en un directorio de almacén de datos disponible (utilice métodos como scp, wget). Una vez completada, debe ver:

30-Jun-2021

```
[root@ucs-221:/vmfs/volumes] pwd
/vmfs/volumes
[root@ucs-221:/vmfs/volumes] ls
                                          60ee5dfc-6f05dc8b-05cf-0025b5b1a116
MyDataStore
60ef8a79-63aadd3f-ee0d-0025b5b1a116
                                         BOOTBANK2
SpringpathDS-FCH2008V1M1
[root@ucs-221:/vmfs/volumes] cd MyDataStore /
[root@ucs-221:/vmfs/volumes/ac08f584-9a2f8a67] ls -al
total 0
drwx-----
                                     686 Jul 14 05:19 .
           1 root
                      root
drwxr-xr-x 1 root
                      root
                                     512 Jul 15 01:21 ..
-rw-r--r-- 1 root root
                              391417386 Jul 15 00:55 HX-ESXi-7.0U2-17867351-Cisco-Custom-
7.2.0.5-upgrade-bundle.zip
                                    2793 Jul 14 20:03 ucs221-VM
drwxr-xr-x 1 root root
```

```
[root@ucs-221:/vmfs/volumes/ac08f584-9a2f8a67] pwd
/vmfs/volumes/ MyDataStore
```

Paso 7. Abra HX-Connect, elija **System information > Nodes**, elija el nodo en el que desea actualizar Esxi y haga clic en **Enter HX Maintenance Mode** como se muestra en las imágenes:

← → C /	Not secure 10							९ 🛧 🛸 😩
= text Hyperflex Connect			UC -	a				4 🔺 🕅 O O
O Deshboard	System Overview Nodes Disks							Last refreshed at 07.08/2021 12.46.09.91/
MONITOR	⊙ Enter HX Maintenance Mode G Exit HX Maintenance	Mode						@ Y Riber
Q Alarms	Node ^ Hypervisor Address	Hypervisor Status	Controller Address	Controller Status	Model	Version	Disks	Command Line Mode
12 Evens	219 10 64	Online	10 168	Online	H0(220C-M45	4.5(2a)		Root shell ①
ANALYZI	220 10. 65	Online	10 169	Online	H9/220C-M45	4.5(2#)		Root shell ①
La Performance	221 10 66	Online	10 70	Online	H0(220C-M45	4.5(2a)		Root shell ①
PROTECT	1-3of3							
MANAGE								
System Information								
E Detestores								
T Upgrade								
>_ Web CLI								
Kubernetes								

Nodos de conexión HX



Puede ver la actividad completada en la pestaña Activity, como se muestra en la imagen:

← → C /	Not secure 10. 98/#/clusters/1/activity			Q	☆	*	-
= text Hyperflex Connect		uc -a.		0 🗛 1	n	001	0
O Deshboard	Filter Filter Isted tasks						
MONITOR Q Alerms	Activity @Montor progress of recent tasks on the HK storage cluster.			Last refres	res es 01.0	18/2021 12:44	20.911
☆ Events	 Collepse All 						
Activity	Validate enter maintenance mode for node >219						
ANALYZE	Status: Success	Parallel usis check	Orser maintenance mode task is not running for other nodes and for other site nodes in stretch cluster				
a Performance		vCenter availability check	Custor should be registered with cleaser				
PROTECT		vCenter reachability check	✓ «Center is reachable fram «Center				
Replication		Maintenance mode state check	Check the node is not in maintenance mode				
MANAGE		VM Mgration check	 Check VM Migration is enabled in all nodes. 				
System Information		Ouster health check	 Allow maintenance mode only for healthy ductor 				
E Detastores		Nudes availability check	Check number of nodes available to tolerate this node into maintenance mode				
E) (6CS)							
Virtual Machines	 A Enter maintenance mode for node -219 Status Success 						
T Upgrade	07/05/2021 12:48:45 PM	Ercer Maintenance Mode	 Validate enter maintenance mode for node us: 219 Paratel lasks check: Enter maintenance mode usik is not numing for other nodes and for other size nodes in stretch clucter 				
>_ Web CU			 Center availability check: Outlan should be registered with cCenter 				
Kubernetes			Volenar reactading check, volenar is reactable transition volenar Maintenance mode state check. Check the node is not in maintenance mode				
			 VM Mgration check: Check VM Mgration is enabled in all nodes. Cuciaer health check Allow maintenance mode only for healthy choiser. 				
			 Nodes availability check. Check number of nodes available to tolerate this node into maintenance mode 				
		Ercer vCercer Maintenance mode	 Initiate the enter maintenance mode in sCenter 				
		Wait for VM migration to be completed	 Whengration will take time based on number of user VMs 				
		Relinquish the node	 Shutting down stork grantully 				
		Passer off controller VM	 Powering off the controller VM 				
		vCenter mantenarior mode task	 Waiting for maintenance mode task to be completed in sciencer 				

Paso 8. SSH al host ESXi que está en modo de mantenimiento HX.

Paso 8.1. Busque el nombre del perfil del paquete de actualización:

Paso 8.2. Ejecute el comando upgrade con el parámetro no-hardware-warning especificado:

[root@abcd-221:/vmfs/volumes/ac08f584-9a2f8a67] esxcli software profile update -depot=/vmfs/volumes/0714051143/HX-ESXi-7.0U2-17867351-Cisco-Custom-7.2.0.5-upgrade-bundle.zip -profile HX-ESXi-7.0U2-17867351-Cisco-Custom-7.2.0.5 --no-hardware-warning

Paso 8.3. Verá un mensaje de confirmación una vez que se complete la actualización:

Update Result Message: The update completed successfully, but the system needs to be rebooted for the changes to be effective. Reboot Required: true Paso 9. Reinicie el host.

Paso 10. Inicie sesión en el host de ESXi y verifique la nueva versión con el comando: vmware -v.

The time and date of this login have been sent to the system logs. WARNING: All commands run on the ESXi shell are logged and may be included in support bundles. Do not provide passwords directly on the command line. Most tools can prompt for secrets or accept them from standard input. VMware offers supported, powerful system administration tools. Please see www.vmware.com/go/sysadmintools for details. The ESXi Shell can be disabled by an administrative user. See the vSphere Security documentation for more information. [root@ -220:~] vmware -v VMware ESXi 7.0.2 build-17867351 [root@ -220:~]

Paso 11. Una vez reiniciado el servidor, salga del **modo de mantenimiento de HX** de la interfaz de usuario de HX Connect. Abra HX-Connect, elija **System Information > Nodes**, elija el nodo en el modo de mantenimiento y haga clic en **Exit HX Maintenance Mode** como se muestra en las imágenes:





← → C 🚺	Not secure 10. 98/#							Q 🕁 🗯	· 😩 E
= 🚓 Hyperflex Connect			UC	-a				○▲ ፣ [🕅]	0 0 4
O Deshboerd	System Overview Nodes Disks							Last refreshed at 07.08-20	0 12409R
MONITOR	⊖ Enter HX Maintenance Mode G Exit HX Maintena	nce Mode						₫ × Riber	
Q. Alarms	Node ^ Hypervisor Address	Hypervisor Status	Controller Address	Controller Status	Model	Version	Disks	Command Line Mode	
12 Evens	219 10 64	Online	10 68	Online	H0(220C-M45	4.5(28)		Root shell ①	
ANALYZE	220 10. 65	Online	10 169	Online	H0220C4M45	4.5(28)	8	Root shell ①	
a Performance	221 10 66	Online	10 70	Online	H0220C-M45	4.5(2a)		Root shell ①	
PROTECT	1-3of3								
MANAGE									
System Information									
E Detestores									
Co desi									
T Upgrade									
>_ Web CLI									
Kubernetes									

HX connect exit MM

Paso 12. Espere unos minutos para que el clúster Hyperflex complete la recuperación. El **panel de** conexión de HX muestra el estado operativo, debe ser **En línea** y el estado de resistencia debe ser **Saludable**.

≡ ^{altata} HyperFlex Connect		80-80 E	Q 🚛 🔒 💷 O 👁 🕰
O Dashboard	OPERATIONAL STATUS Online ©	٥	Cluster License not registered
MONITOR Q Alarms		~	1 Node failure can be tolerated
会 Events 自 Activity	Сарасіту 6 ТВ	1.2% STC 71.2 GB Used 6 TB Free OP	ORAGE Compression 77% Deduplication 0%
AMALV7E			

Paso 13. Repita los pasos 6.-12. para cada host ESXi 1 a la vez. Asegúrese de que el estado del clúster sea **Correcto** antes de pasar al siguiente nodo.

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