Atualização do ESXi para 7.0 U2 via HX Connect ou Intersight falha com "CPU_SUPPORT WARNING"

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Introduction

Este documento descreve o processo para atualizar o ESXi para 7.0 U2, que pode falhar em servidores que executam unidades de processamento central (CPU) de geração mais antiga.

Informações de Apoio

O upgrade iniciado pelo HX Connect ou pelo Intersight exibe a mensagem de falha: "Falha ao aplicar o perfil HX-ESXi-7.0U2-17867351-Cisco-Custom-7.2.0.5" ou "CPU_SUPPORT WARNING: A CPU neste host pode não ser suportada em versões futuras do ESXi. Faça um planejamento adequado".

As versões da plataforma de dados Hyperflex (HXDP) necessárias para solucionar esse problema são:

HXDP 4,5 (2a)

HXDP 4.5(1a)

HXDP 4.0(2f) e anterior que suportam ESXi 7.0 U2

Problema

Tentativa de atualização para o ESXi 7.0 U2 via HX Connect ou Intersight em servidores que executam CPUs de gerações mais antigas, notavelmente as famílias de CPU Sandy Bridge-EP (E5-2600), Ivy Bridge-EP (E5-2600v2) e Haswell EP (E5-2600v3). Consulte o VMware KB para obter detalhes completos sobre os processadores afetados por esta verificação de compatibilidade: <u>Base de conhecimento da VMware</u>.

$\leftarrow \rightarrow \ \mathbf{C}$ A Not set	ecure /#/clusters/1/0	pgrade?upgradeType=CLUSTER_UPGRADE_HXDP_AND_HYPERVISOR	Q	☆	*		:
= cisco HyperFlex Connect		-a		Â	۲	0	۹
🕑 Dashboard	Errors found during upgrade						
MONITOR	Upgraded 0 of 3 total nodes						
↓ Alarms							
Events	∧ UCS	✓ Running Cluster Pre Upgrade Tasks					
Activity	Successed						
ANALYZE	A UCS- Failed						
PROTECT	A UCS-C)	✓ Copying and Extracting Upgrade Package(s)					
C Replication	Failed						
MANAGE	A UCS-	Upgrading hypervisor ESI0 upgrade failed on host 10.104.0.66. Failed to apply profile H0.ESI6-7.002.17867351-Cisco-Custom 7.2.0.5					
Datastores		Copying and Extracting Upgrade Package(s)					
ଟ୍ଟି iscsi		Checking Cluster readiness					
Virtual Machines		Upgrang sonelle nooe Reinquistin node					
1 Upgrade		Running Post Relinquish Node Tasks					
>_ Web CLI		✓ Waiting for Datastores to be Accessible on the Node					
Kubernetes		Entering Cluster Node into maintenance mode					
		✓ Running Post Enter Host Maintenance Mode Tasks					

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

Mensagem de erro de conexão HX

=	cisco Intersight	Requests > Upgrade HyperFlex Cluster > Update node u	xx; □ 54 ▲ 36	
<u>080</u>	MONITOR	Details	Execution Flow	
ø	OPERATE ^	Status E Failed	C uce man Update Host OS	
	Servers	Name Update node ucs ID 60ev 15f	Node upgrade failed: Failed task - Failed to Upgrade Hypervisor: Failure reason = Failed to Upgrade Hypervisor: Failed task - Failed to Upgrade Hypervisor: Failed task - Failed to Upgrade Hypervisor: Failed task - CPU, SUPPORT WARNING, The CPU in this host may not be supported to Infure ESIX reason a coordingly -n n Apply - no-hardware-warning option to ignore the warnings and proceed with the transaction n Please refer to the log file for more detail	f profile HX-ESX- ses. Please plan is.'.
	Fabric Interconnects	Target Type HyperFlex Cluster Node	⊘ ucs I: Update Vibs	
	HyperFlex Clusters	Target Name ucs Source Type HyperFlex Cluster Profile	🛇 ucs-III : Enter Host Maintenance Mode J	
×	CONFIGURE ^	Source Name ucs _cluster	⊘ 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- II: Upgrade HXDP	
	Policies	Duration 26 m 11 s	⊘ ucs- i : Enter HXDP Maintenance Mode J	
ē	ADMIN ^	Organizations default	ucs-III 1: Collect Preconditions for Upgrade	
	Targets			
	Software Repository			

Solução

Cenário A. Atualização combinada HXDP + ESXi a partir da interface do usuário do HX Connect

Para este cenário, atualize HXDP para 4.5(2a) e ESXi para 7.0 U2 Build 17867351.

Etapa 1. Atualizar HXDP apenas primeiro.

Etapa 1.1. Faça o download do pacote HXDP via <u>https://software.cisco.com/download/home/286305544/type/286305994/release/4.5(2a)</u> conforme mostrado na imagem:

← → C isottware.cisco.com/downloa	id/home/286305544/type/286305994/release/4.5(2a)		
Downloads Home / Hyperconverged Infrastru	ucture / HyperFlex HX Data Platform / HyperFlex HX Data Platform- 4.5	i(2a)	
Q Search Expand All Collapse All Suggested Release ~	HyperFlex HX Data Platform Release 4.5(2a) My Notifications	Related Links Recommended So Release Note for 4	s and Documentation oftware Releases 4.5(2a)
Latest Release	Cisco strongly recommends following the Cisco HyperFlex R version for your HX-Series System.	Recommended Softwa	are 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 Advisories	30-Jun-2021	3528.53 MB
2.6(1e)			

Etapa 1.2. Abra o HX-Connect, escolha Upgrade, marque a caixa de seleção HX Data Platform, carregue o pacote, insira o nome de usuário e a senha de administrador para credenciais do vCenter e clique em Upgrade conforme mostrado na imagem:

$\leftarrow \ \ \rightarrow \ \ C$	C A https://10 .98/#/clusters/1/upgrade?upgradeType=CLUSTER_UPGRADE_HXDP	67% 🟠 🖂 E
= -deale- caseo HyperFlex Connect	UC -CL	₽▲1 自 ♥1 ⊙ ⊙ .
Dashboard MONITOR	CLUSTER UPGRADE EUGIBIUTY No Results	Test Upgrade Eligibility
다 Alarms 슈 Events 테 Activity	Select Upgrade Type	Progress
ANALYZE	UCS Server Firmware © HX Data Platform	
PROTECT	 storfs packages-4.5.2a-39429 file is upload 	ed
MANAGE System information Datastores	Current HXDP version: Version(4.5.2a-3)425) Current cluster details	Current Catalog version: Version(4.5.2-39429) Current catalog details Bundle version: 4.5.2a-39429
C ISCSI	ESXI Secure Boot mode ©	
Vograde Web CLI Kubernetes	vCenter Credentials Username Admin password administrator@vsphere.local	۵

Atualização de conexão HX HXDP

Quando a atualização estiver concluída, continue na etapa 2.

Etapa 2. Abra o HX Connect, escolha **System information > Nodes**, escolha o nó no qual você deseja atualizar o Esxi e clique em **Enter HX Maintenance Mode** como mostrado nas imagens.

← → C ▲	Not secur	e 10							० 🛧 🗯 🚨 :
= 🚓 Hyperflex Connect		uc a							
Deshooerd MowToR	System Overview	Nodes Disks tenance Mode G Exit HX Maintenance M	Mode						Lest vehieres at 51158-2321 12-44-59 RV.
 Alarms Alarms 	Node	Hypervisor Address	Hypervisor Status	Controller Address	Controller Status	Model	Version	Disks	Command Line Mode
Activity	219	10 64	Online	10 68	Online	H0220C-M45	4.5(2a)		Root shell ①
ANALYZI	220	10. 65	Onine	10 (69	Online	H0220C4M45	4.5(2a)	8	Root shell ①
Las Performance	221	10 66	Online	10 70	Online	H0(220C-M45	4.5(2#)	8	Root shell ①
PROTECT	1+3 of 3								
MANAGE									
System Information									
E DATASTORES									
Visual Machines									
Upgrade									
>_ Web CLI									
Kubernetes									

Nós de conexão HX

\leftrightarrow \rightarrow G	Not secure 10	/#				
= -de-the HyperFlex Connect			UC -CL			
Deshboard	System Overview Nodes Disks		Confirm HX Maintenance Mode 🛛 🔿			
Alarms	Node ^ Hypervisor Address	Hypervisor Status	Co (1) atus	Model	Version	Disks
Activity	-219 10 1.64 -220 10 65	Online	10 HX Maintenance Mode ensures that the entire hyperconverged node, including the host, enters	HX220C-M45	4.5(2a) 4.5(2a)	8 8
ANALYZE	221 10.).66	Online	maintenance. A host in Maintenance Mode is enabled but does not perform any function on virtual machines, including	H0220C-M45	4.5(2a)	8
PROTECT	1 - 3 of 3		verbal mechine provisioning. Virtual mechines running on the host entering Maintenance Mode may need to be powered off or migrated manually to different hosts. The Enter HX Maintenance mode task different hosts.			
MANUACE System Information Destectores GCSI Virtual Machines Virtual Machines Virtual Machines Virtual Machines Upgrade Lubernetes			over inocomplete, provide all of monthly sinual in advinus powers of AT on program. Do you want to put the selected host in HX Maintenance Mode? Concel Enter HX Maintenance Mode			

Pop-up de modo de manutenção de conexão HX

Você pode ver a atividade concluída sob a guia Atividade como mostrado na imagem:

← → C 🚺	Not secure 10. 98/#/clusters/1/activity			Q	$\dot{\mathbf{r}}$	*	
= the Hyperflex Connect		uc -a.		0 🔺 1	n	001	0
② Deshboard	Filter Filter Isted tasks						
MONITOR Alerms	Activity @Monitor progress of recent tasks on the HX storage cluster.			Lest refres	nec as 010	18/2021 12:4	19 20 911
☆ Events	Collepse All						
Activity	Validate enter maintenance mode for node >219						
ANALYZE	Status: Success 07/08/2021 12:48:45 PM	Recalled savids check	Error maintenance mode task is not running for other nodes and for other size nodes in stretch cluster				
a Performance		vCenter availability check	 Chose should be registered with cleaser 				
PROTECT		vCenter reachability check	✓ »Center is machable from «Center				
Replication		Maintenance mode state sheck	 Check the node is not in maintenance mode 				
MANAGE		VM Mgration check	 Check-Witt Migration is enabled in all nodes 				
System Information		Ousser health check	 Allow maintenance mode only for healthy duster. 				
E Detastores		Nodes availability check	Oteck number of nodes available to subcase this node into maintenance mode				
63 16459							
Virtual Machines	C Enter maintenance mode for node -219 Status: Success						_
🕆 Upgrade	07/08/2021 12:48:45 PM	Ercer Maintenance Mode	 Validate enter maintenance mode for node uss-219 Parallel lasks check: Drier maintenance mode task is not nurving for other nodes and for other site nodes in stretch cluster 				
>_ Web CU			VCenter auslichtlity check. Dutter should be regitarred with vCenter VCenter nachdelite check vCenter is machdele from vCenter				
Kubernetes			Mananawa make aara dha Caha bh ana haa a a a a a a a a a a a a a a a				
		Erner «Cerner Maintenance mode	Theorem and an and a structure of the structure of t				
		Wait for VM regration to be completed	The second se				
		Reinquish the node	Strating down work prosthele				
		Power off controller VM	Preservice off the controller VM				
		vCenter maintenance mode task	✓ Waiting for maintenance mode tasks to be completed in oCenter				

Guia Atividade de conexão HX

Etapa 3. Shell Seguro (SSHI) no host ESXi colocado no Modo de Manutenção como raiz.

Etapa 4. Crie uma pasta e carregue o pacote ESXi nela.

Etapa 4.1. Execute o comando: mkdir /hxpatch

Etapa 4.2. Crie um ramdisk para armazenar o pacote com o comando: esxcli system visorfs ramdisk add -m 500 -M 500 -n hxpatch -t /hxpatch -p 0755.

Etapa 5. Faça download do pacote ESXi-7.2.0.5 de downloads da cisco para um repositório local com o link

https://software.cisco.com/download/home/286305544/type/286305994/release/4.5(2a), conforme mostrado na imagem:



Etapa 5.1. Copie o pacote da pasta local do repositório para a pasta **/hxpatch**. O exemplo abaixo usa WinSCP:

Local Mark Files Commands Session Options Ren	note Help								
🕀 🔀 🤯 Synchronize 🛛 🐺 💽 🛞 📦 Queue	• Transfer	Settings Default		• 🍠 •					
🖵 root@1(65 🗙 🖳 New Session									
🖹 My documents 🔹 🚰 • 🕎 • 🖬 🕥 🏠 🛃 🭡	$ \Rightarrow \Rightarrow \cdot$				📕 hxpatch 🔹 🚰 🔹 🕻	7.	🏠 🌮 🖻 🖻		
🗊 Upload 🔹 📝 Edit 🔹 🗶 📝 🕞 Properties	New • 🚺	A			🛛 📄 Download 🔹 📝 Ee	dit - 🗙 📝 🞚	Properties 📔 New -	+ - 🗸	
C:\Users\admin\Documents\					/hxpatch/				
Name Image: Market Stresser St	Size 2 KB 13 KB 12 KB 382,244 KB 6 KB 1 KB 59 KB	Type Parent directory File folder Windows Power ^{Ck} Text Document Compressed (zi PY File TGZ File	Char 7/7/ 12/13 % Uploa Fil Ta By	nged 2021 12:10:48 PM 2021 7:29:03 PM 10/2020 14:49:46 DM iding le: HX-ESXI-7.0U2 arget: /hxpatch/ me left: Calcul tes transferred: 13 Image: Image: Ima	Name Rame Rame Rame Rame Rame Rame Rame R	Size	Changed 7/8/2021 1:19:04 PM	Rights rwxr-xr-x	Owner root

Etapa 6. SSH de volta ao host no modo de manutenção.

Etapa 7. Execute este comando para exibir os detalhes do perfil do pacote: **lista de perfis de origens de software esxcli —depot=/hxpatch/HX-ESXi-7.0U2-17867351-Cisco-Custom-7.2.0.5-upgrade-bundle.zip** conforme mostrado na imagem:

[root@	ces prof	ile listdepot=/	hxpatch/HX-ESXi-7.0U2	-17867351-Cisco
Name ime	Vendor	Acceptance Level	Creation Time	Modification T
HX-ESXi-7.0U2-17867351-Cisco-Custom-7.2.0.5 21:43	Cisco	PartnerSupported	2021-04-29T18:21:43	2021-04-29T18:
[root@220:/hxpatch]				

Etapa 8. Execute este comando para atualizar o pacote ESXi para 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
```

Etapa 9. Reinicializar o host.

Etapa 10. Use o SSH para se conectar ao host e verifique a versão com o comando: vmware -v.



Etapa 11. Saia do nó do modo de manutenção e aguarde até que o cluster se torne íntegro.

Etapa 11.1. Abra o HX-Connect, escolha System Information> Nodes, escolha o nó no modo de manutenção e clique em Exit HX Maintenance Mode conforme mostrado nas imagens:

$\leftarrow \rightarrow G$	Not secure 1	0 <mark>.98/#/</mark> c	lusters/1/server	rs?tab={"id":"Server","index":0}				
= diada HyperFlex Connect				-	-cı.			
② Dashboard	System Overview Nodes Disks							
MONITOR	Cluster not registered with Cisco Licensing. Register Now							
☆ Events	UC -CL License Type Cvaluation License Status License Status License explans in 89 days. Cluster not registered with Cisco Licensing.							
Activity	vCenter Uptime	tv O dayr	ttps://cit-vcvm10.eng.storvisor.com i, 14 hours, 26 minutes, 44 seconds	Hypervisor HCDP Version	Mixed Versions 4.5.2a-39429	Total Capacity Available Capacity Data Replication Factor		
Performance	Hyperconverged Nodes							
PROTECT	Node	Hypervisor	HyperFlex Controller	Disk Overview (s in use)				
C Replication	-219	Online 📀	Online					
MANAGE	HX220C-M4S	10. 0.64 6 7 0.17499825	10. 1.68 4.5.2a,39429	• •				
System Information								
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								
>_ Web CLI	Node	Hypervisor	HyperFlex Controller	Disk Overview (a in use)				
Kubernetes	-221 HX220C-M45	Online 10 0.66 6.7.0-17499825	 Online 10	1 2 3 4 5 6 7 8 • •				

Nós de conexão HX

← → C ▲	Not secure 10. 98/#							२ 🖈 🛊 😩 :
= 🚓 Hyperflex Connect			UC 4	α				Q▲1 🕅 @ © A
Deshboard Moniton Aiarms	System Overview Nodes Disks © Enter HX Maintenance Mode C Exit HX Maintenance M	Aode						Liet: Hhere et 6108-0021 12-458 Rr O
☆ Evens @ Activity Activity	Node Pypervisor Address 219 10 64 220 10 65	Hypervisor Status Online Online	Controller Address	Controller Status Online Online	Model H02205-M45 H02205-M45	4.5(28) 4.5(28)	B 8	Command Line Mode Root shell ① Root shell ①
Performance PROTECT	221 10 66 1 - 3 of 3	Onine	16 70	Online	H0220C-M45	4.5(2a)	٠	Root shell ①
MANUE Paper Information Carlos Car								

HX connect Exit MM

Etapa 11.2. O Painel do HX Connect mostra o Status operacional, deve estar **Online** e a Integridade da resiliência deve estar **Íntegra**.

≡ ^{altala} HyperFlex Connect		8148.0	0 L 0 L
Dashboard	OPERATIONAL STATUS Online ©		Cluster License not registered
Alarms			✓ 1 Node failure can be tolerated
Activity	CAPACITY 6 TB	1.2% 71.2 GB Used 6 TB Free	STORAGE Compression 77% Deduplication 0%

Etapa 12. Repita as etapas 2 a 11 em todos os nós que fazem parte do cluster, um de cada vez.

Quando a atualização do ESXi estiver concluída, você poderá ver os detalhes da versão no console do teclado, vídeo e mouse (KVM) do servidor HX, conforme mostrado na imagem:

CISCO. UCS KVM	
KVM Console Properties	
	VMware ESKi 7.0.2 (VMKernel Release Build 17067351)
	Cisco Systems Inc H0220C+MIS
	2 x Intel00 Xeon00 0P0 ES-2680 v3 # 2.589tz 383.9 618 Memoru

Você também pode verificar no HX Connect se a nova versão do ESXi está presente na guia **System Information**, como mostrado na imagem:

\leftarrow	\rightarrow (C (2 🔒	https://10.98///clusters/1	/servers?tab={"id":"Server","	index":0}			☆		\bigtriangledown	=
=	.111.111. CISCO	HyperFlex Connect			UC	-CL		🗘 🔺 1	Ê	۲	0	۵
0	Dashb	ooard	^	Hyperconverged Nodes			Disk	/iew Options \	Dis	ik View Le	gend	
0				Node	Hypervisor	HyperFlex Controller	Disk Overview (in use)				
MON	ITOR			-219	Online	🕗 Online						
Q	Alarm	s		HX220C-M4S	10. 64	10						
ជ	Events	5			6.7.0.17499825	4.5.2a-39429	¢ ,	_				
Û	Activit	у										
				Node	Hypervisor	HyperFlex Controller	Disk Overview (8	in use)				
ANA	LYZE			-220	📀 Online	📀 Online	1 2 3 4 5 (
Lala	Perfor	mance		HX220C-M4S	10. 65	1069						
PRO	TECT				7.0.2-17867351	4.5.2a-39429	¢ /					
þ	Replic	ation										
_				Node	Hypervisor	HyperFlex Controller	Disk Overview (8	in use)				
MAN	AGE			.221	🕗 Online	Online						
Ħ	System	n Information		HX220C-M4S	1066	10						
2	Datast	tores	~		6.7.0-17499825	4.5.2a-39429	o /					

HX connect atualizado Esxi

Cenário B. Atualização combinada HXDP + ESXi da Intersight

Para este cenário, você atualiza HXDP para 4.5(2a) e ESXi para 7.0 U2 Build 17867351 da Intersight.

Etapa 1. Se um dos servidores HX estiver no modo de manutenção, reinicialize este servidor através do console vCenter ou ucs KVM.

✓ ① 221_dc	😚 Deploy OVF Template	Adapter
✓ [[] 221_cl	A New Resource Pool	el: USB Storage Controller
-219.eng.storvisor.com	P+ Martine	♦ vmhba32
-220.eng.storvisor.com	64 New VApp	el: Wellsburg AHCI Controller
-221.eng.storvisor.com (Maintenance Mode)	Import VMs	♦ vmhba0
B stCtIVM- B stCtIVM-	Maintenance Mode	
🔂 stCtIVM-	Connection •	
Clone1	Power	Power On
cione 2	Certificates	Enter Standby Mode
G -clone3	Storage	Shut Down
්ධ -clone4 බී -clone5	🔮 Add Networking	E Reboot
-clone6	Host Profiles	
-clone7	Export System Logs	
🔂 -clone8		
clone9	Reconfigure for vSphere HA	
.∨M	🕀 Assign License	

Etapa 2. Depois que o servidor for reinicializado, saia do Modo de Manutenção HX da interface do usuário do HX Connect. Abra o HX-Connect, selecione **Informações do Sistema > Nós**, escolha o nó no modo de manutenção e clique em **Sair do Modo de Manutenção HX**.

Etapa 3. Aguarde alguns minutos para que o Cluster Hyperflex conclua a recuperação. O **Painel** do HX Connect mostra o Status Operacional, ele deve estar **Online** e a Integridade da Resiliência deve mostrar **Íntegro**.

≡ ^{allatla} HyperFlex Connect		and the second s	4 🗰 🛱 📮' 😋 🏖
Dashboard	OPERATIONAL STATUS Online ©	① Clus	ster License not registered
Alarms	- Mealthy ⊕	✓ 1 Nc	ode failure can be tolerated
Activity	CAPACITY 6 TB	1.2% STORAG 71.2 GB Used 6 TB Free OPTIMI2	SE Compression 77% ZATION Deduplication 0%

Etapa 4. Abra a Intersight, escolha **Upgrade**, clique em **Expert Mode > Upgrade HyperFlex Data Platform** conforme mostrado nas imagens:

≡	cisco Intersight	OPERATE > HyperFlex Clusters	8 C 4	0 0
ele	MONITOR	Clusters Backups		
Ŷ	OPERATE ^			
	Servers	* All Chusters @ +		
	Chassis	···· <	terms found 10 v per pag	e K (<u>1</u> of
	Fabric Interconnects	Health Connection Storage Utilization Capacity Runway	Types	HyperFlex Version
	HyperFlex Clusters	1 + Heel_ 1 UNDER EPA	1 • Hybrid 1	· · · ·
×	CONFIGURE ^			
	Profiles	Name : Health : Type : Hyper_ : Storage Cap_ Stora_ : Stora	ge Utilization Trend 🔘 💠	Capacity_ O :
	Templates	clust Healthy HyperFlex 4.0(21) 6.0 1.0%	0.0%	Unknown
	Policies	···· 🖉 Selected 1 of 1 Show Selected Unselect All		K < <u>1</u> of
	Pools	Upgrade		
æ	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		
	Upgrade (1 HyperFlex Cluster)	
	Upgrade starts immediately on all selected clusters. When the data path must be upgraded some clusters may precise the execution of Mate. 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.	rre ESXi 6.7.0 U3 (17499825)
	Cancel	

Etapa 5. Você pode observar o início e o término do Upgrade:

=	cites Intersight	Requests > Upgrade HyperFlex Cluster		0 = 53 🔺 35 🛛 🕞 🔍 🖉	
tle	MONITOR	Details	Execution Flow		
Θ	OPERATE ^	Status Success	O		
	Servers Chassis	Name Upgrade HyperFlex Cluster ID 60et36d8696/6e2x3071e9db	Carl 219: Cleanup lasks after upgrade		
	Fabric Interconnects	Target Type HyperFlex Cluster ucs271_cluster	221: Cleanup tasks after upgrade		
	HyperFlex Clusters	Target Name	Running Cluster Post-Upgrade Hooks		
×	CONFIGURE ^	220 Source Type HyperFlex Cluster Profile	220: Update node View Execution Flow		
	Profiles	Source Namecluster	219: Update node View Execution Now		
	Templates	Initiator	C 221: Update node View Execution Flow		
	Policies	Start Time Jul 14, 2021 12:11 PM End Time Jul 14, 2021 2:10 PM			
	Pools	Duration 1 h 59 m 25 s	220. Hun Node Level Validations for Upgrade		Jul 14, 2021 1
æ	ADMIN ^		219: Run Node Level Validations for Upgrade		
	Targets	Crganzations default	S 221: Run Node Level Validations for Upgrade		
	Software Repository		Run Validations for Upgrade		

Etapa 6. Inicie o upgrade do ESXi para cada servidor. Copie o pacote de atualização do ESXi 7.0 U2 para os hosts do ESXi.

Etapa 6.1. Faça download do pacote de atualização do ESXi 7.0U2 a partir dos downloads da cisco com o link:

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

CISCO HX Custom Image for ESXi 7.0 U2a Offline Bundle for Upgrading from prior ESXi versions HX-ESXi-7.0U2-17867351-Cisco-Custom-7.2.0.5-upgrade-bundle.zip Advisories

Etapa 6.2. Em cada host ESXi, copie o pacote de atualização do ESXi 7.0U2 em um diretório de armazenamento de dados disponível (use métodos como scp, wget). Após concluir, você deverá ver:

```
[root@ucs-221:/vmfs/volumes] pwd
/vmfs/volumes
[root@ucs-221:/vmfs/volumes] ls
MyDataStore
                                                   60ee5dfc-6f05dc8b-05cf-0025b5b1a116
60ef8a79-63aadd3f-ee0d-0025b5b1a116
                                                  BOOTBANK2
SpringpathDS-FCH2008V1M1
. .
[root@ucs-221:/vmfs/volumes] cd MyDataStore /
[root@ucs-221:/vmfs/volumes/ac08f584-9a2f8a67] ls -al
total O
drwx-----
              1 root root
                                             686 Jul 14 05:19 .

        1 root
        root
        512 Jul 15 01:21 ..

        1 root
        root
        391417386 Jul 15 00:55 HX-ESXi-7.0U2-17867351-Cisco-Custom-

drwxr-xr-x
-rw-r--r--
7.2.0.5-upgrade-bundle.zip
drwxr-xr-x 1 root root
                                            2793 Jul 14 20:03 ucs221-VM
```

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

Etapa 7. Abra o HX-Connect, escolha **System information > Nodes**, escolha o nó no qual você deseja atualizar o Esxi e clique em **Enter HX Maintenance Mode** como mostrado nas imagens:

← → C 🔺	Not secure 10. 98/#							Q \$	*	:
= 🚓 Hyperflex Connect			UC -	a				0 A1 [1 0 0	a
 Deshooerd 	System Overview Nodes Disks							Last refreshed at 07	0 2021 12 46 59 Pt/	
MONITOR	© Enter HX Maintenance Mode G Exit HX Maintenance M	Mode						C Y Ris		
Alarms	Node ^ Hypervisor Address	Hypervisor Status	Controller Address	Controller Status	Model	Version	Disks	Command Line Mode		
the formers	219 10 64	Online	10 68	Online	H0(220C-M45	4.5(2a)	8	Root shell ①		
Activity	220 10 65	Online	10 (69	Online	H0(220C-8/45	4.5(2a)		Root shell ①		
a Performance	221 10 66	Online	10 70	Online	HX220C-M45	4.5(2a)		Root shell ①		
PROTECT	1-3 of 3									
MANAGE										
System Information										
E Detestores										
6 6431										
Virtual Machines										
T Upgrade										
> Web CU										
Kubernetes										

Nós de conexão HX

30-Jun-2021 373.28 MB



Você pode ver a atividade concluída sob a guia Atividade como mostrado na imagem:

← → C /	Not secure 10. 98/#/clusters/1/activity			Q	☆	*	
= text Hyperflex Connect		uc -cı.		0 41	0	001	0
O Deshboard	Filter Filter Inted tasks						
MONITOR Alerms	Activity @Montor progress of recent tasks on the HX storage duster.			Sast refre	res es 07.0	08/2021 12-4	0 20 911
☆ Events	~ Collepse All						
Activity	Validate enter maintenance mode for node >219			1111			
ANALYZE	Status: Success 07/08/2021 12:48:45 PM	Parallel usits check	Droter maintenance mode task is not running for other nodes and for other site nodes in stretch cluster				
A Performance		vCenter availability check	 Cuose should be regioned with clenser 				
PROTECT		vCenter reachability check	✓ vCenter is maduable from vCenter				
Replication		Maintenance mode state check	 Otech the node is not in maintenance mode 				
MANAGE		VM Mgration check	 Check VM Mgradon is enabled in all nodes 				
System Information		Ouster health check	 Allow maintenance mode only for healthy dustar 				
E Detastores		Nodes availability check	 Check number of nodes available to submate this node into maintenance mode 				
E) (6CS)							
Virtual Machines	 Enter maintenance mode for node -219 Status: Success 						
🕆 Upgrade	07/08/2021 12:49:45 PM	Enter Maintenance Mode	 Validate enter maintenance mode for node ucs-219 Parallel lasks check: Enter maintenance mode task is not numing for other nodes and for other site nodes in stretch cluster 				
>_ Web CU			VCenter auslichtlity deck. Dutter should be registered with vCenter VCenter reachability check, vCenter is reachabilit from vCenter				
Kubernetes			Maintenance mode state sheck; Owok the node is not in maintenance mode				
			You forge atom check. Check YoU forge atom is an added in all noises Custer health check. Allow maintenance mode only for healthy cluster				
			 Nodes availability sheck. Check number of nodes available to tolerate this node into maintenance mode 				
		Enter vCercer Maintenance mode	 Initiale the enter maintenance mode in vCenter 				
		Wait for VM regration to be completed	 Wit migration will take time based on number of user Wits 				
		Reinquish the node	Shutting down starts graduity				
		Power of Controller VM	 Powering off the controller VM 				
		vCenter mantenance mode task	 Waiting for maintenance mode solt to be completed in scenser 				

Etapa 8. Use SSH no host ESXi que está no modo de manutenção do HX.

Etapa 8.1. Localize o nome do perfil do pacote de atualização:

```
[root@abcd-221:/vmfs/volumes/ac08f584-9a2f8a67] esxcli software sources profile list --
depot=/vmfs/volumes/0714051143/HX-ESXi-7.0U2-17867351-Cisco-Custom-7.2.0.5-upgrade-bundle.zip
Name Vendor Acceptance Level Creation Time
Modification Time
HX-ESXi-7.0U2-17867351-Cisco-Custom-7.2.0.5 Cisco PartnerSupported 2021-04-29T18:21:43
2021-04-29T18:21:43
```

Etapa 8.2. Execute o comando upgrade com o parâmetro 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

Etapa 8.3. Você verá uma mensagem de êxito quando a atualização for concluída:

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

Etapa 10. Efetue login no host ESXi e verifique a nova versão com o 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:~]

Etapa 11. Depois que o servidor for reinicializado, saia do **Modo de Manutenção HX** da interface do usuário do HX Connect. Abra o HX-Connect, escolha **System Information > Nodes**, escolha o nó no modo de manutenção e clique em **Exit HX Maintenance Mode** como mostrado nas imagens:





← → C 🚺	Not secure 10. 98/4	#						२ 🕁 🗯	- 😩 E
= the Hyperflex Connect			UC	-a				0 A1 M	0 0 4
Deshboard	System Overview Nodes Disks							Last refreshed at 07:00-20	21124659.R/ O
MONITOR	😔 Enter HX Maintenance Mode 🕞 Exit HX Main	ntenance Mode						@ ⊻ Riber	
Q Alarms	Node ^ Hypervisor Address	Hypervisor Status	Controller Address	Controller Status	Model	Version	Disks	Command Line Mode	
C tvers	219 10 64	Online	10 68	Online	H0220C-M45	4.5(28)		Root shell ①	
	220 10. 65	Online	10 (69	Online	H0220C-M45	4.5(2#)		Root shell ①	
La Performance	221 10 66	Online	10 70	Online	H0220C-M45	4.5(2a)	8	Root shell ①	
PROTECT	1-3 of 3								
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Virtual Machines									
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HX connect exit MM

Etapa 12. Aguarde alguns minutos para que o Cluster Hyperflex conclua a recuperação. O **Painel** do HX Connect mostra o Status Operacional, ele deve estar **Online** e a Integridade da Resiliência deve mostrar **Íntegro**.

≡ diala HyperFlex Connect		80×84	4 💼 🔒 💷 O 🔺
O Dashboard	OPERATIONAL STATUS Online ©	① Clu	ster License not registered
Alarms	-∕∕⊷ RESILIENCY HEALTH Healthy ⊙	✓ 1 N	ode failure can be tolerated
Activity	CAPACITY 6 TB	1.2% STORAC 71.2 GB Used 6 TB Free OPTIMI:	SE Compression 77% ZATION Deduplication 0%
ANALY7E			

Etapa 13. Repita as Etapas 6.-12. para cada host ESXi 1 de cada vez. Verifique se o estado do cluster mostra **Íntegro** antes de passar para o próximo nó.

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