Aggiornamento di ESXi a 7.0 U2 tramite HX Connect o Intersight non riuscito con "CPU_SUPPORT WARNING"

Sommario

Introduzione Premesse Problema Soluzione Scenario A. Aggiornamento combinato di HXDP + ESXi dall'interfaccia utente di HX Connect Scenario B. Upgrade combinato di HXDP + ESXi da Intersight

Introduzione

In questo documento viene descritto il processo di aggiornamento di ESXi alla versione 7.0 U2, che può avere esito negativo sui server che eseguono CPU di generazione precedente.

Premesse

L'aggiornamento avviato tramite HX Connect o Intersight visualizza il messaggio di errore: "Impossibile applicare il profilo HX-ESXi-7.0U2-17867351-Cisco-Custom-7.2.0.5" o "AVVISO CPU_SUPPORT: La CPU in questo host potrebbe non essere supportata nelle future versioni di ESXi. Per favore, pianificate di conseguenza".

Le versioni di Hyperflex Data Platform (HXDP) necessarie per risolvere il problema sono:

HXDP 4.5(2a)

HXDP 4.5(1a)

HXDP 4.0(2f) e versioni precedenti che supportano ESXi 7.0 U2

Problema

Tentativo di aggiornamento a ESXi 7.0 U2 tramite HX Connect o Intersight su server che eseguono CPU di vecchia generazione, in particolare le famiglie di CPU Sandy Bridge-EP (E5-2600), Ivy Bridge-EP (E5-2600v2) e Haswell EP (E5-2600v3). Per ulteriori informazioni sui processori interessati da questo controllo di compatibilità, vedere VMware KB: <u>VMware Knowledge Base.</u>

$\leftarrow \rightarrow \ \mathbf{C}$ A Not secur	re /#/clusters/1/	upgrade?upgradeType=CLUSTER_UPGRADE_HXDP_AND_HYPERVISOR	Q	$\stackrel{\circ}{\Box}$	*		÷
= "dodo" HyperFlex Connect		-a		1	٢	0	٩
🕑 Dashboard	Errors found during upgrade						
MONITOR	Upgraded 0 of 3 total nodes						
🗘 Alarms	△ Collapse All						
😭 Events	∧ UCS	✓ Running Cluster Pre Upgrade Tasks					
Activity	Succeeded						
ANALYZE	A UCS-						
PROTECT	 UCS-;) 	Copying and Extracting Upgrade Package(s)					
C Replication	Failed						
MANAGE	A UCS-	Upgrading typervisor ES0 upgradie failed on host 10.104.0.66. Failed to apply profile KK.ES0-7.602.17867351-Caso-Custom-7.2.0.5					
Datastores		✓ Copying and Extracting Upgrade Package(s)					
🗟 iscsi		✓ Checking Cluster readiness					
Virtual Machines		✓ Upgrading Storage Node					
T Upgrade		✓ Relinquish node					
> Web CLI		Running Post Relinquish Node Tasks					
Kubernetes		Waiting for Datastores to be Accessible on the Node					
		Cherring Coste Hote Hot Hentenine mode Sunning Post Enter Host Maintenance Mode Tests					

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

Messaggio di errore di connessione HX

=	cisco Intersight	Requests > Upgrade HyperFlex Cluster > Update node	ucs Q ■ 54 ▲ 36 ල Q, Ø Ø	
<u>08a</u>	MONITOR	Details	Execution Flow	
ଜ	OPERATE ^	Status Ealed	C ucs min Update Host OS Jul 1	
	Servers	Name Update node ucs	Node upgrade failed: Failed task - Failed to Upgrade Hypervisor: Failure reason - Failed to Upgrade Hypervisor, Hindward Errog'n Handware precheck of pro 7 002 T567351:Dcc action 7.2 0.5 Halde with warnings: <-CPU.SUPPORT WARNING: The CPU in this host may not be supported in future ESX releases. accordingly-in n Apply-ino-hardware-warning option to ignore the warnings and proceed with the transaction.n Please refer to the log file for more details.	nie HX-ESXi- Please plan
	Chassis Fabric Interconnects	Target Type HyperFlex Cluster Node	S use It Update Vibs Jul 1	
	HyperFlex Clusters	Target Name UCS Source Type HyperFlex Cluster Profile	🗇 ucs- I: Enter Host Maintenance Mode Jul 1	
×	CONFIGURE ^	Source Name ucs _cluster	ucs Validate DRS is Enabled and Fully Automated	
	Profiles	Initiator Start Time Jul 13, 2021 11:09 PM	Suce II: Run Post Node Relinquish Task Jul 1	
	Templates	End Time Jul 13, 2021 11:35 PM	💿 ucs- 11: Upgrade HXDP Jul 1	
	Policies	Duration 26 m 11 s	⊘ ucs I: Enter HXDP Maintenance Mode Jul 1	
ē	ADMIN ^	Organizations défault	© ucs :: Collect Preconditions for Upgrade	
	Targets			
	Software Repository			

Soluzione

Scenario A. Aggiornamento combinato di HXDP + ESXi dall'interfaccia utente di HX Connect

In questo scenario, è possibile aggiornare HXDP alla versione 4.5(2a) ed ESXi alla versione 7.0 U2 Build 17867351.

Passaggio 1. Aggiornare prima solo HXDP.

Passaggio 1.1. Scaricare il pacchetto HXDP tramite <u>https://software.cisco.com/download/home/286305544/type/286305994/release/4.5(2a)</u>, come mostrato nell'immagine:

← → C a software.cisco.com/download,	/home/286305544/type/286305994/release/4.5(2a)					
Downloads Home / Hyperconverged Infrastruc	ture / HyperFlex HX Data Platform / HyperFlex HX Data Platform- 4.5	(2a)				
Q Search Expand All Collapse All Suggested Release ~ 4.0(2f) S	HyperFlex HX Data Platform Release 4.5(2a) My Notifications	Related Links and Documentati Recommended Software Releases Release Note for 4.5(2a)				
Latest Release ✓	Cisco strongly recommends following the Cisco HyperFlex R version for your HX-Series System.					
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 📑					

Passaggio 1.2. Aprire HX-Connect, scegliere Aggiorna, selezionare la casella di controllo HX Data Platform, caricare il pacchetto, immettere il nome utente e la **password amministratore** per **le credenziali vCenter** e fare clic su **Aggiorna** come mostrato nell'immagine:

$\leftarrow \ \rightarrow \ {\tt C}$	O A https://10 .98/#/clusters/1/upgrade?u	pgradeType=CLUSTER_UPGRADE_HXDP		67% 公					
		UC -CL		- 4 ∎ 🗎	@1 ⊘	0 4			
O Dashboard	CLUSTER UPGRADE ELIGIBILITY No Results		Test	Upgrade Elizibility					
MONITOR									
() Alarms									
☆ Events	Select Upgrade Type		Progress						
Activity									
ANALYZE	UCS Server Firmware ©								
An Performance	HX Data Platform								
PROTECT		 storfs-packages -4.5.2a-39429 file is uploaded 							
MANAGE	Current H0DP version-Version/4.5.2a/394200 Current cluster details		Current Catalog version: Version/4.5.2-394290 Cu	urrent catalog details Bue	vile version: 4.5.2a-3	10420			
System information	> Checksum								
Datastores									
€ ISCSI	ESXI								
Virtual Machines	Secure Boot mode ③								
T Upgrade									
>_ Web CLI	vCenter Credentials Usemane	Admin castword							
Kubernetes	administrator@vsphere.local		0						

Aggiornamento connessione HX HXDP

Al termine dell'aggiornamento, andare al passo 2.

Passaggio 2. Aprire la connessione HX, scegliere **Informazioni di sistema > Nodi**, scegliere il nodo in cui si desidera aggiornare Esxi e fare clic su **Accedi alla modalità di manutenzione HX** come mostrato nelle immagini.

← → C /	Not secu	re 10							९ 🖈 🗯 😩 ।
= 📩 Hyperflex Connect				UC 4	α				
Deshboard	System Overview	r Nodes Disks							Late: 147467467 at: 07:00-2021 12:46:59 Ft/
MONITOR	⊙ Enter HX Main	ntenance Mode G Exit HX Maintenance	Mode						@ Y Ritter
Alarms	Node	Hypervisor Address	Hypervisor Status	Controller Address	Controller Status	Model	Version	Disks	Command Line Mode
☆ tiers	219	10 64	Online	10 68	Online	H0(220C-M45	4.5(2a)	1	Root shell ①
III ACTIVITY	220	10. 65	Onine	10 169	Online	H0(220C-8/45	4.5(2#)		Root shell ①
La Performance	221	10 66	Online	10 70	Online	HX220C-8A45	4.5(2a)	8	Root shell ①
PROTECT	1-3 of 3								
MANAGE									
System information									
6 60									
Virtual Machines									
1 Upgrade									
>_ Web CU									
Kubernetes									

Nodi di connessione HX

← → C .	A Not secure	10							
= -d-d- core HyperFlex Connect					UC -CL				
Dashboard	System Overview	Nodes Disks		Cor	firm HX Maintenance Mode 000				
MONITOR	Enter HX Mainten	ance Mode \ominus Exit HX Maintenance	e Mode						
Alarms	Node ^	Hypervisor Address	Hypervisor Status	Co	\square	atus	Model	Version	Disks
17 Events	-219	10. 1.64	Online	10	\cdot		HX220C-M45	4.5(2a)	1
ANALYZE ANALYZE	-220	10. 65	Online	10. hyp mai	Maintenance Mode ensures that the entire erconverged node, including the host, enters ntenance.		HX220C-M45	4.5(28)	8
La Performance	-221	10. 1.66	Online	10 A.h.	ost in Maintenance Mode is enabled but does not		H0(220C-M45	4.5(2a)	8
PROTECT	1-3 of 3			vira nun nee diffe	al machine provisioning. Virtual machines, including ual machine provisioning. Virtual machines ning on the host entering Maintenance Mode may d to be powered off or migrated manually to event hosts. The Enter HX Maintenance mode task.				
MANAGE				doe are	s not complete, until all running virtual machines powered off or migrated.				
System Information				Do j Mai	you want to put the selected host in HX ntenance Mode?				
Datastores						-			
G ISCSI					Cancel Enter HX Maintenance Mode				
U Virtual Machines									
T upgrabe									
Kubernates									
- Internet									

Popup modalità manutenzione connessione HX

Èpossibile visualizzare l'attività completata nella scheda Attività come mostrato nell'immagine:

← → C 🚺	Not secure 10. 98/#/clusters/1/activity			Q	☆	*	
= the Hyperflex Connect		uc -cı.		0 🔺 1		001	0
② Deshboard	Filter Filter Isted tasks						
MONITOR Q Alerms	Activity @Montor progress of recent tasks on the HV storage cluster.			Latinha	ened at 07.0	18/2021 12:4	8-20 Pit
☆ Events	Collepse All						
Activity	Validate enter maintenance mode for node -219						
ANALYZE	Status: Success 07/08/2021 12:48:45 PM	Parallel sales check	Dreer maintenance mode task is not running for other nodes and for other site nodes in stretch cluster				
A Performance		vCenter availability check	 Custer should be registered with sCenter 				
PROTECT		vCenter reachability check	✓ = vCenter is reachable from vCenter				
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		Outer 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) (6C9)							
Virtual Machines	Not secure 10. 98/#/clusters/1/activity Iter Eter Isod usis Addition progress of recert tasks on the HK storage duster. - Catapae AI • Additione enter maintenance mode for node additional storage duster. • Additione mode for node additional storage duster. • Additional storage for node addition storage duster.						-
T Upgrøde		Erter Martenance Mode	 Validare enter maintenance inode for node ucs-213 Parallel lasks check: Driver maintenance mode lask is not numing 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 theds; then ode is not in maintenance mode 				
			 Vitil tinguation check: Check VM httgration is enabled in all notes Cluster health check Allow maintenance mode only far healthy cluster 				
			 Nodes availability check. Check number of nodes available to tolerate this node into maintenance mode 				
		Erser vCerser Maintenance mode	 Initiate the enter maintenance mode in vCenter 				
		Wait for VM migration to be completed	 When gradion will take time based on number of user VMs 				
		Belinguish the node	✓ Shutting down stoch gooshuly				
		Power of controller YM	 Powering off the controller VM 				
		vCenter maintenance mode task	 Waiting for maintenance mode task to be completed in vCenter 				

Scheda Attività connessione HX

Passaggio 3. SSHI (Secure Shell) nell'host ESXi posto in modalità manutenzione come root.

Passaggio 4. Creare una cartella e caricarvi il pacchetto ESXi.

Passaggio 4.1. Eseguire il comando: mkdir /hxpatch

Passaggio 4.2. Creare un ramdisk per archiviare il pacchetto con il comando: esxcli system visorfs ramdisk add -m 500 -M 500 -n hxpatch -t /hxpatch -p 0755.

Passaggio 5. Scaricare il pacchetto ESXi-7.2.0.5 da cisco per scaricarlo in un repository locale con il collegamento

https://software.cisco.com/download/home/286305544/type/286305994/release/4.5(2a), come mostrato nell'immagine:

CISCO HX Custom Image for ESXi 7.0 U2a Offline Bundle 30-Jun-2021 373.28 MB for Upgrading from prior ESXi versions HX-ESXi-7.0U2-17867351-Cisco-Custom-7.2.0.5-upgradebundle.zip Advisories 📬

Passaggio 5.1. Copiare il pacchetto dal repository locale nella cartella **/hxpatch**. Nell'esempio seguente viene utilizzato WinSCP:

Local Mark Files Commands Session Options Ren	note Help								
🕀 🔀 🔯 Synchronize 🔳 🧬 💽 🛞 Queu	e • Transfer	Settings Default		• 🍠 •					
🖵 root@1(65 🗙 🖳 New Session									
🖹 My documents 🔹 🚰 • 🕎 • 🖬 🕥 🏠 🎜	$ \Rightarrow \Rightarrow $				📕 hxpatch 🔹 🚰 🔹	7 🖬 🔽	🏠 🌮 🖻 🕅 Find Files	• ◆ • • •	
🗊 Upload 🔹 📝 Edit 🔹 🗶 📝 😡 Properties 😭	New • 主	A			🛛 💀 Download 🔹 📝 E	dit - 🗙 📝 🛙	🖢 Properties 📔 New -	+ - \	
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 Power Text Document Compressed (zi Compressed (zi PY File TGZ File	C 7 7 7 55% Up 55% Up	Changed 7/7/2021 12:10:48 PM 7/7/2021 7:29:03 PM 12/10/020_15:48-46_DM Joloading File: HX-ESXI-7.0U2 Target: /hxpatch/ Time left: Calcul Bytes transferred: 13	Name Name Name Name Name Name Name Name	Size 0.5-u 00:02 MB/s	Changed 7/8/2021 1:19:04 PM	Rights rwxr-xr-x	Owner root

Passaggio 6. Ripristinare il protocollo SSH sull'host in modalità di manutenzione.

Passaggio 7. Eseguire questo comando per visualizzare i dettagli del profilo del pacchetto: **elenco dei profili delle origini software esxcli —depot=/hxpatch/HX-ESXi-7.0U2-17867351-Cisco-Custom-7.2.0.5-upgrade-bundle.zip** come mostrato nell'immagine:

[root@220:/hxpatch] esxcli software sour	ces prof	ile listdepot=/	hxpatch/HX-ESXi-7.0U2	-17867351-Cisco
-Custom-7.2.0.5-upgrade-bundle.zip				
Name	Vendor	Acceptance Level	Creation Time	Modification T
ime				
HY-ESVi-7 002-17867351-Cisco-Custom-7 2 0 5	Cisco	PartnerSunnorted	2021-04-29718.21.43	2021-04-29T18.
21·43	CISCO	rai chei Suppor ceu	2021-04-25110.21.45	2021-04-25110.
[root@220:/hxpatch]				

Passaggio 8. Eseguire questo comando per aggiornare il pacchetto ESXi alla versione 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
```

Passaggio 9. Riavviare l'host.

Passaggio 10. SSH sull'host e verificare la versione con il 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:~]
```

Passaggio 11. Uscire dal nodo dalla modalità di manutenzione e attendere che il cluster diventi integro.

Passaggio 11.1. Aprire la connessione HX, scegliere **System Information> Nodes**, scegliere il nodo in modalità di manutenzione e fare clic su **Exit HX Maintenance Mode** come mostrato nelle immagini:



Nodi di connessione HX

← → C 4	Not secure 10. 98/#							० 🖈 🛔 😩 ।
= the Hyperflex Connect			UC -	α				
Deshooerd Monitor Aierres	System Overview Nodes Disks © Enter HX Maintenance Mode © Exit HX Maintenance	Mode						Leet whereas at 07:08:2021 12:46:59 RVO
Divents	Node ^ Hypervisor Address 219 10 64 220 10 65	Hypervisor Status Online Online	Controller Address	Controller Status Online Online	Model H9220C-M45 H9220C-M45	Version 4.5(2e) 4.5(2e)	Disks 8	Command Line Mode
ANALYZE Performance	221 10 66	Online	10 70	Online	10(220C-8/45	4.5(2#)		Root shell ①
PROTECT	1-3 of 3							
WMME Image: System Information Image: System Information <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>								

Collegamento HX uscita MM

Passaggio 11.2. Il dashboard di connessione HX visualizza lo stato operativo, deve essere **online** e lo stato di resilienza deve essere **integro**.

≡ دارمان HyperFlex Connect =			0 🖬 🗐 👁 🕰
Dashboard	OPERATIONAL STATUS Online ©	⊙ Ck	uster License not registered
Alarms	RESILIENCY HEALTH	✓ 1 N	vode failure can be tolerated
Activity	Сарасіту 6 тв	1.2% STORA 71.2 GB Used 6 TB Free OPTIM	IGE Compression 77% IZATION Deduplication 0%

Passaggio 12. Ripetere i passaggi da 2 a 11 su tutti i nodi che fanno parte del cluster, uno alla volta.

Una volta completato l'aggiornamento di ESXi, è possibile visualizzare i dettagli della versione sulla console KVM (Keyboard, Video, Mouse) del server HX, come mostrato nell'immagine:



Èinoltre possibile verificare all'interno di HX Connect che la nuova versione di ESXi sia presente nella scheda **System Information**, come mostrato nell'immagine:

\leftarrow	\rightarrow (c (2	https://10.98////clusters/1	/servers?tab={°id":"Server","					=		
=	ultulu cisco	HyperFlex Connect			UC	-CL		🗘 🔺 1	ĥ	•	0	ھ
0	Dashboard		Hyperconverged Nodes				Disk View Options 🗸	Di	sk View Le	gend		
\cup				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	m Information		HX220C-M4S	1066	1070						
-	Datas	tores	<i>_</i>		6.7.0-17499825	4.5.2a-39429	······································					

Connessione HX aggiornata Esxi

Scenario B. Upgrade combinato di HXDP + ESXi da Intersight

In questo scenario, è possibile aggiornare HXDP alla versione 4.5(2a) ed ESXi alla versione 7.0 U2 Build 17867351 da Intersight.

Passaggio 1. Se uno dei server HX è in modalità manutenzione, riavviare il server tramite vCenter o la console KVM UCS.

✓ ① 221_dc	😚 Deploy OVF Template	Adapter
✓ [221_cl	⊘ New Resource Pool	el: USB Storage Controller
-219.eng.storvisor.com	P+	♦ 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	
☐ stCtIVM-	Connection •	
다clone1	Power •	Power On
Cone10	Certificates •	Enter Standby Mode
Clone3	Storage •	Shut Down
Cone4	St Add Networking	見 Reboot
C -clone5		00
Cone6	Host Profiles	-
C -clone /	Export System Logs	
cione8	Descriptions for Cohere 114	
-clone9	Reconfigure for VSphere HA	
-VM	🖎 Assign License	

Passaggio 2. Una volta riavviato il server, uscire dalla modalità di manutenzione HX dall'interfaccia utente di connessione HX. Aprire la connessione HX, selezionare **Informazioni di sistema > Nodi**, scegliere il nodo in modalità di manutenzione e fare clic su **Esci dalla modalità di manutenzione HX**.

Passaggio 3. Attendere alcuni minuti prima che il cluster Hyperflex completi la correzione. Il **dashboard di** connessione HX mostra lo stato operativo, deve essere **online** e lo stato di integrità della resilienza deve essere **integro**.

≡ ^{altala} HyperFlex Connect		and the second sec	0 0 1 🗐 👘 0
Dashboard	OPERATIONAL STATUS Online ①	 Cluster Licer 	inse not registered
Alarms		🗸 1 Node failu	ure can be tolerated
Activity	CAPACITY 6 TB	1.2% STORAGE 71.2 GB Used 6 TB Free OPTIMIZATION	(77.0%) Compression 77% Deduplication 0%

Passaggio 4. Aprire Intersight, scegliere **Aggiorna**, fare clic su **Modalità avanzata > Aggiorna HyperFlex Data Platform**, come mostrato nelle immagini:

=	cisco Intersight	OPERATE > HyperFlex Clusters Q 🖬 53 🔺 35 🖓 Q 📀	0
ele	MONITOR	Clusters Backups	
Ŷ	OPERATE ^		
	Servers	* All Chasters +	
	Chassis	···· Ø 9. Add Filter [- Export 1 Items found 10 v per page [K]	<u> </u>
	Fabric Interconnects	Health Connection Storage Utilization Capacity Runway Types Hyp	erFilex Version
	HyperFlex Clusters	UNCOR 80%	יי ני
×	CONFIGURE ^		
	Profiles	Name : Health : Type : Hyper_ : Storage Cap_ Stora_ : Storage Utilization Trend () : Capa	acity_⊙ :
	Templates	Clust © Healthy HyperFlex _ 4.0(2f) 6.0 - 1.0% 0.0% Unio	
	Policies	··· 🧷 Selected 1 of 1 Show Selected Unselect All	< <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	5.
	Chassis	Computibility Check	requirements, unselect the cluster and continue t the upgrade.	with
	Fabric Interconnects	Summary		
	HyperFlex Clusters		All clusters meet upgrade requirements	
×	CONFIGURE ^			
	Profiles		1 items found 10 √ per page K < 1 of 1	
	Templates		Q. Add Filter	
	Policies		Name HyperFlex Data Platf_ Hypervisor	
	Pools		_cluster 4.0.25-35930 🛞 VMware ESXi 6.7.0 U3 (1)	(499825)
Ð	ADMIN ^		Selected 1 of 1 Show Selected Unselect All 🛛 🔀 🤇	1 of 1 D D
	Targets			
	Software Repository			



Step 3 Summary

Target Version		
HyperFlex Data Platform Version 4.5(2a)-39429		
Clusters to be upgraded 1	Lingrade (1 HyperFlex Cluster)	
	opgrade (Tripperfiex ofdater)	
	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	

Passaggio 5. È possibile osservare l'inizio e la fine dell'aggiornamento:

=	cisco Intersight	Requests > Upgrade HyperFlex Cluster	C ■ 53 ▲ 35
tle	MONITOR	Details	Execution Pow
θ	OPERATE ^	Status © Success	🛛 🚾 220: Cleanup Laska after upgrade Jul 14,2
	Servers Chassis	Name Upgrade HyperFlex Cluster ID 60et36d86966e2d3071e9db	O 219: Cleanup Lanks after upgrade Jul 14,2
	Fabric Interconnects	Target Type HyperFlex Cluster	Contraction of the second seco
	HyperFlex Clusters	Target Name	Running Cluster Post-Upgrade Hooks Jul 14, 2
×	CONFIGURE ^	220 Source Type HyperFlex Cluster Profile	Carl 220: Update node View Execution Row Jul 14, 2
	Profiles	Source Name _cluster	O 219: Update node View Execution Row Jul 14,2
	Templates	Initiator	C 221: Update node View Execution Flow Jul 14, 20
	Policies	Start Time Jul 14, 2021 12:11 PM End Time Jul 14, 2021 2:10 PM	220 Ban Node Level Validations for Linocate
_	Pools	Duration 1 h 59 m 25 s	
æ	ADMIN ^		219: Run Node Level Validations for Upgrade Jul 14, 20
	Targets	organizations default	S 221: Run Node Level Validations for Upgrade Jul 14, 20
	Software Repository		Run Validations for Upgrade Jul 14, 20

Passaggio 6. Avviare l'aggiornamento di ESXi per ciascun server. Copiare il bundle di upgrade di ESXi 7.0 U2 sugli host ESXi.

Passaggio 6.1. Scaricare il bundle di upgrade di ESXi 7.0U2 da cisco scaricabile con il collegamento:

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

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Passaggio 6.2. Su ciascun host ESXi, copiare il bundle di aggiornamento di ESXi 7.0U2 in una directory dell'archivio dati disponibile (utilizzare metodi quali SCP, WGET). Al termine, sarà necessario visualizzare:

```
[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
              1 root root
drwx-----
                                               686 Jul 14 05:19 .

      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
drwxr-xr-x 1 root root
                                              2793 Jul 14 20:03 ucs221-VM
```

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

Passaggio 7. Aprire la connessione HX, scegliere **Informazioni di sistema > Nodi**, scegliere il nodo in cui si desidera aggiornare Esxi e fare clic su **Accedi alla modalità di manutenzione HX** come mostrato nelle immagini:

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O Deshboard	System Overview Nodes Disks							Last refreshed at 07-08-2021 12-46-59 RV
MONITOR	© Enter HX Maintenance Mode G Exit HX Maintenance M	lode						© ⊻ Riber
Q. Alarms	Node ^ Hypervisor Address	Hypervisor Status	Controller Address	Controller Status	Model	Version	Disks	Command Line Mode
THE EVENS	219 10 64	Online	10 160	Online	H0220C-M45	4.5(2a)	4	Root shell ①
ANALYZI	220 10 65	Online	10 169	Online	H0(220C-M45	4.5(2#)		Root shell ①
A Performance	221 10 66	Online	10 70	Online	HX220C-M45	4.5(2e)		Root shell ①
PROTECT	1-3 of 3							
MANAGE								
System Information								
E Detestores								
T Upgrade								
>_ Web CLI								
Kubernetes								

Nodi di connessione HX



Èpossibile visualizzare l'attività completata nella scheda Attività come mostrato nell'immagine:

\leftrightarrow \rightarrow C \blacktriangle	Not secure 10. 98/#/clusters/1/activity			Q	☆		
= texter Hyperflex Connect		uc -cı.		0 41	n	QD 1	0
 Deshboard 	Filter Riter Isted tasks						
MONITOR Q Alerms	ACTivity @Monitor progress of recent tasks on the HX storage cluster.			Last refree	Ned as 07-0	18-2021 12	149-20 911
☆ Events							
Activity	Nalidate enter maintenance mode for node -219			12/12			
ANALYZE	Statud: Success 07/08/2021 12:48:45 PM	Parafet sales check	Draw maintenance mode task is not running for other nodes and for other size nodes in stretch cluster				
Performance		vCenter availability check	 Custar should be registered with sCenter 				
PROTECT		vČenter reachability check	 «Center is reachable from «Center 				
Replication		Maintenance mode state theck	 Check the node is not in maintenance mode 				
MANAGE		VM Migration check	 Check VM Mgradon is enabled in all nodes 				
System Information		Ousier health check	 Alton maintenance mode only for healthy duster 				
E Detastores		Nodes availability check	 Check number of nodes available to solerate this node into maintenance mode 				
E) (545)							
Virtual Machines	Status: Success	Form Maintenance Made					
T Upgrade	07/08/2021 12:48:45 PM		 Validate enter mantemance mode for node uss 219 Parallel tasks check: Enter maintemance mode task is not numring for other nodes and for other site nodes in stretch cluster 				
>_ Web CU			vCenter auslitubility check: Outlant should be registered with vCenter vCenter reachability check: vCenter is reachable from vCenter				
Kubernetes			Maissenance mode scare sheek. One's the nodes is not in manemarks mode Vol tigk and tooks to Book Vol tigk action is and only Court mode scare and one of the hardly observed in a distribution Court mode scare and one of the hardly observed Voles availability sheek. Check number of modes and the is binneare the restrictions maintenance mode				
		Enter «Center Maintenance mode	 Initiate the enter maintenance mode in vCenter 				
		Wait for VM migration to be completed	 Wit migration will take time based on number of user Wits 				
		Relinquich the node	 Shuning down such possibily: 				
		Pawer off controller VM	 Powering off the controller VM 				
		vCenter mansenance mode task	 Waiting for maintenance mode task to be completed in clenter 				

Passaggio 8. SSH sull'host ESXi in modalità di manutenzione HX.

Passaggio 8.1. Individuare il nome del profilo del bundle di aggiornamento:

```
[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
```

Passaggio 8.2. Eseguire il comando upgrade con il parametro no-hardware-warning specificato:

[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

Passaggio 8.3. Al termine dell'aggiornamento viene visualizzato un messaggio di operazione riuscita:

Update Result Message: The update completed successfully, but the system needs to be rebooted for the changes to be effective. Reboot Required: true Passaggio 9. Riavviare l'host.

Passaggio 10. Accedere all'host ESXi e verificare la nuova versione con il 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:~]

Passaggio 11. Dopo aver riavviato il server, uscire dalla **modalità di manutenzione HX** dall'interfaccia utente di connessione HX. Aprire la connessione HX, scegliere **System Information > Nodes**, scegliere il nodo in modalità di manutenzione e fare clic su **Exit HX Maintenance Mode** (Esci dalla modalità di manutenzione HX) come mostrato nelle immagini:





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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 68	Online	H0220C-M45	4.5(2#)	8	Root shell ①	
ANALYZI	220 10. 65	Online	10 (69	Online	H0220C4M45	4.5(2a)		Root shel ①	
A Performance	221 10 66	Online	10 70	Online	H0(220C-M45	4.5(2a)		Root shell ①	
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Uscita HX connect MM

Passaggio 12. Attendere alcuni minuti prima che il cluster Hyperflex completi la correzione. Il **dashboard di** connessione HX mostra lo stato operativo, deve essere **online** e l'integrità di resilienza deve essere **integra**.

≡ diala cisco HyperFlex Connect		80×84	Q 🚛 📋 🗊 O 🖉
O Dashboard	OPERATIONAL STATUS Online ©	٥	Cluster License not registered
Alarms	RESILIENCY HEALTH Healthy ①	J.	1 Node failure can be tolerated
Activity	CAPACITY 6 TB	1.2% STO 71.2 G8 Used 6 TB Free OP	ORAGE Compression 77% TIMIZATION Deduplication 0%
AMALV7E			

Passaggio 13. Ripetere i passaggi da 6 a 12 per ciascun host ESXi 1 alla volta. Verificare che lo stato del cluster sia **Integro** prima di passare al nodo successivo.

Informazioni su questa traduzione

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