HX Connect 또는 Intersight를 통해 ESXi를 7.0 U2로 업그레이드할 경우 "CPU_SUPPORT WARNING" 오류 발생

목차

소개 <u>배경 정보</u> 문제 <u>솔루션</u> 시나리오 A. HX Connect 사용자 인터페이스에서 HXDP + ESXi 통합 업그레이드</u> 시나리오 B. HXDP + Intersight에서 ESXi 통합 업그레이드

소개

이 문서에서는 이전 세대 CPU(Central Processing Unit)를 실행하는 서버에서 장애가 발생할 수 있 는 ESXi를 7.0 U2로 업그레이드하는 프로세스에 대해 설명합니다.

배경 정보

HX Connect 또는 Intersight를 통해 시작된 업그레이드는 실패 메시지를 표시합니다. "HX-ESXi-7.0U2-17867351-Cisco-Custom-7.2.0.5 프로파일을 적용하지 못했습니다." 또는 "CPU_SUPPORT 경고: 이 호스트의 CPU는 향후 ESXi 릴리스에서 지원되지 않을 수 있습니다. 그에 따라 계획하십시 오."

이 문제를 해결하는 데 필요한 HXDP(Hyperflex Data Platform) 버전은 다음과 같습니다.

HXDP 4.5(2a)

HXDP 4.5(1a)

ESXi 7.0 U2를 지원하는 HXDP 4.0(2f) 이하

문제

Sandy Bridge-EP(E5-2600), Ivy Bridge-EP(E5-2600v2), Haswell EP(E5-2600v3) CPU 제품군을 비 롯한 이전 세대 CPU를 실행하는 서버에서 HX Connect 또는 Intersight를 통해 ESXi 7.0 U2로 업그 레이드하려고 시도합니다. 이 호환성 검사의 영향을 받는 프로세서에 대한 자세한 내용은 VMware KB: VMware <u>기술 자료를 참조하십시오.</u>

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	-ci		â (9 ⊙	2
Errors found during upgrade					
Upgraded 0 of 3 total nodes Collapse All UCS Succeeded UCS CUCS Cucs- Faired	Running Cluster Pre Upgrade Taolis				
A UCS-	✓ Copying and Extracting Upgrade Package(1)				
A UCS Failed	Upgrading hypervisor ESKI upgrade failed on host 10.104.8.66. Failed to apply profile HK-ESK-7.002.17967351-Cisco-Oustorn-7.2.0.5 Copying and Extracting Upgrade Package(3) Checking Cluster readiness Upgrading Storage Node Retinguish node Running Post Retinguish Node Tasks Waiting for Datastores to be Accessible on the Node Ecoring Cluster reds Integrade node node Intering Post Retinguish Node Tasks Waiting for Datastores to be Accessible on the Node Ecoring Cluster risks Maintenance Mode Tasks				
	Errors found during upgrade Upgraded 0 of 3 total nodes Collapse All UCS Secrected UCS Calacci UCS Calacci UCS Calacci UCS Calacci UCS Calacci UCS Calacci VOS Calacci	Cross found during upgrade Upgraded 0 of 3 total nodes • Colupar All • Colupar All • UCS • Colupar All • UCS • UCS • UCS • Colupar All • Colupar All Descring Upgrade Packap(b) • Colupar All Descring Upgrade Packap	Cross found during upgrade Errors found during upgrade Uggrade 0 of 3 total nodes Cale UGS Statements Statements	• Cross found during upgrade • Errors found during upgrade • Uggraded 0 of 3 total node: • College All • UGS • UGS <	Cl Cl Close Count Upgraded 0 of 3 total nodes Colleges Al Colleges Al Close Count <

me : 07/02/2021 12:44-11 AM D

=	cisco Intersight	Requests > Upgrade HyperFlex Cluster > Update node ux	©	
<u>080</u>	MONITOR	Details	Execution Row	
ø	OPERATE ^	Status E Failed	🖪 ucs-11111 Update Host OS	
	Servers	Name Update node ucs ID 60er 15f	Node upgraige failed fast – Failed bub upgrade Hypervisor." Failure reason – Failed to Upgrade Hypervisor, Brandware(Enrol) Hardware precheck of 7 002-1987357-USCco-Statom-7.2.0.5.181ed with warmings. CPU_SUPPORT WARNING. The OPU in this host may not be supported in Unitary ESX (reaso accordingly on n Apply – no-hardware-warming option to ignore the warmings and proceed with the transaction n Please refer to the log file for more detail	I profile HX-ESX- ses. Please plan IIS.'
	Chassis Fabric Interconnects	Target Type HyperFlex Cluster Node	🔗 uos 🔤 I: Update Vibs	
	HyperFlex Clusters	Target Name ucs Source Type HyperFlex Cluster Profile	© ucs- 1: Enter Host Maintenance Mode J	
×	CONFIGURE ^	Source Name ucscluster	⊘ 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	O ucs- 1: Enter HXDP Maintenance Mode	
ģ	ADMIN A	Organizations default	ucs 1: Collect Preconditions for Upgrade	
	Targets			
	Software Repository			

솔루션

시나리오 A. HX Connect 사용자 인터페이스에서 HXDP + ESXi 통합 업그레이드

이 시나리오에서는 HXDP를 4.5(2a)로 업그레이드하고 ESXi를 7.0 U2 빌드 버전으로 17867351.

1단계. 먼저 HXDP만 업그레이드합니다.

1.1단계. 이미지에 표시된 대로

https://software.cisco.com/download/home/286305544/type/286305994/release/4.5(2a)을 <u>통해</u> HXDP 패키지를 다운로드합니다. ← → C 🌲 software.cisco.com/download/home/286305544/type/286305994/release/4.5(2a)

Downloads Home / HyperConverged Infrastructure / HyperFlex HX Data Platform / HyperFlex HX Data Platform- 4.5(2a)

Q Search	HyperFlex HX Data Platform		
Expand All Collapse All Suggested Release	Release 4.5(2a) A My Notifications	Related Links Recommended So Release Note for 4	s and Documentation oftware Releases 4.5(2a)
4.0(2f) 😒			
Latest Release V	Cisco strongly recommends following the Cisco HyperFlex	Recommended Softwa	are Release Page to select the be
4.5(2a)	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)			

1.2단계. HX-Connect를 열고 Upgrade(업그레이드)를 선택하고 HX Data Platform(HX 데이터 플랫 폼) 확인란을 선택한 다음 패키지를 업로드하고 vCenter 자격 증명에 대한 사용자 이름과 관리자 비 밀번호를 입력한 다음 Upgrade(업그레이드)를 클릭합니다. 예를 보려면 이미지와 같이 Upgrade(업 그레이드)를 클릭합니다.

$\leftarrow \ \rightarrow \ G$	O 🔓 https://10 .98/#/clusters/1/upgrade?upgradeType=CLUSTER_UPGRADE	_HXDP 67% 🏠	⊠ ≡
	UC -CL	Q ▲1 🛱 @1 j	⊙ ⊙ .
🕑 Dashboard	CLUSTER UPGRADE ELIGIBILITY No Results		
MONITOR		Test Upgrade Eligibility	
↓ Alarms			
☆ Events	Select Lingrade Type	Prograss	
Activity	access of the	1100.000	
ANALYZE	UCS Server Firmware		
an Performance	HX Data Platform		
PROTECT	storfs packages 4.5.2a 39	429 file is uploaded	
MANAGE			
E System Information	Current HXDP version: Version(4.5.2a-39429) Current Guister details > Checksum	Current Catalog version: Version(4.5.2-39429) Current Catalog details Bundle version: 4.	5.28-39429
Datastores			
© iscsi	ESXI		
Virtual Machines	Secure Boot mode ③		
↑ Upgrade			
>_ Web CLI	vCenter Credentials Username Admin password		
Kubernetes	administrator@vsphere.local	۵	

HX 연결 업그레이드 HXDP

업그레이드가 완료되면 2단계로 진행합니다.

2단계. HX Connect를 열고 System information(시스템 정보) > Nodes(노드)를 선택한 다음 Esxi를 업그레이드할 노드를 선택하고 Enter HX Maintenance Mode(HX 유지 관리 모드 입력)를 클릭합니 다(이미지에 표시됨).

← → C 🚺	Not secure 10. 98/	#						९ 🖈 🗯 🚨	:
= text Hyperflex Connect			UC	-a				0 A1 🕅 O O	۹
Deshboard MonitoR O imme	System Overview Nodes Disks	ntenance Mode						Lest vehistres et 87-08-2021 12-46-59 Riz- Ø Y Ritter	
값 Evens @ Activity	Node ^ Hypervisor Address	Hypervisor Status Online	Controller Address	Controller Status Online	Model H0220C-M45	Version 4.5(28)	Disks 8	Command Line Mode	
ANALYZI La Performance	220 10 65 221 10 66	Onine	10 169	Online	H0(220C-M45 H0(220C-M45	4.5(2e) 4.5(2e)	8	Root shell ① Root shell ①	
PROTECT	1-3 of 3								
MANAGE System Information									
C 6GI									
T Upgrade									
Kubernetes									

HX 연결 노드

← → C /	A Not secur	re 1098/#		
= Connect				UC -CL
② Dashboard	System Overview	Nodes Disks		Confirm HX Maintenance Mode ① 〇
MONITOR	Enter HX Main	itenance Mode G Exit HX Maintenance	e Mode	
Alarms	Node	Hypervisor Address	Hypervisor Status	Co
D Activity	-219	10. 1.64	Online	10. HX220CAM45 4.5(2#) 8
ANALYZE	-220	10 65	Online	HX Maintenance Mode ensures that the entire 10 hyperconverged node, including the host, enters maintenance. 8
La Performance	-221	10.).66	Online	10 A host in Maintenance Mode is enabled but does not. H0(220C-MAS 4.5(2a) 8
	1-3 of 3			perform any function on virtual mechnies, including virtual machine pervisioning, Virtual mechnies running on the host enterling Mainteenance Mode may needs to be powered off or migrated manually to different hosts. The finter HX Mainteenance mode task dees not experience until all vanishing invasione
MANAGE				are powered off or migrated.
System Information				Do you want to put the selected host in HK Maintenance Mode?
Datastores				
େ ଓଟେ				Cancel Enter HX Maintenance Mode
Virtual Machines				
'↑' Upgrade				
2_ Web CU				
 Autoemetes 				

HX connect 유지 관리 모드 팝업

다음 그림과 같이 Activity 탭 아래에서 활동이 완료되었음을 볼 수 있습니다.

← → C /	Not secure 10. 98/#/clusters/1/activity			Q	☆	*	
= tech Hyperflex Connect		uc -cı.		0 🔺		00 1	0
① Deshboard	Filter Fiber Isted tasks						
MONITOR Alerms	Activity @Monitor progress of recent tasks on the HK storage cluster.			Last refres	res es 61.0	8/2021 12:45	20.911
☆ Events	~ Colapse All						
Activity	Validate enter maintenance mode for node >219						
ANALVZE	Status: Success 07/08/2021 12:48:45 PM	Parallel usits check	Enser maintenance mode task is not running for other nodes and for other size nodes in stretch cluster				
A Performance		vCenter availability check	 Custer should be registered with classer 				
PROTECT		vCenter reachability check	✓ = vCenter is machable from vCenter				
Replication		Maintenance mode state check	 Check the node is not in maintenance mode 				
MANAGE		VM Mgration check	 Oreck VM Migration is enabled in all nodes 				
System Information		Ouster health check	 Allow maintenance mode only for healthy duster 				
E Detastores		Nodes availability check	 Check number of nodes available to solerate this node into maintenance mode 				
E) (6CS)							
Virtual Machines	 Croter maintenance mode for node -219 Status: Success 						_
	07/08/2021 12:48:45 PM	Errer Mantenance Mode	 Validate enter maintenance mode for node ucs 219 Paraflet tasks check: Enter maintenance mode task is not numing for other nodes and for other site nodes in stretch cluster 				
>_ Web CU			 vCenter availability check: Dutter should be registered with vCenter vCenter reachability check: vCenter is machabile from vCenter 				
Kubernetes			Maintenance mode state check, Check the node is not in maintenance mode Mill Microsofte check. Check the node is not included in all nodes				
			Cuciar health check. Allow maintenance mode only far healthy cluster				
		Tana Jawa Managaran anda	Yoodes availability check. Check number of nodes available to tolerate this node into maintenance mode				
		Web for MM enterstation to be considered	Initiate the enter mantenance mode in vCenter				
		Related to the safe	The regration will care care based on number of user years				
		Power off controller VM	structure of the control M				
		vCenter mantenance mode Lesa	Provide grant and approximate and Washing for an expression much cost to be constrained in element				
			 Making or constrained marks and a comparison of system 				

HX 연결 활동 탭

3단계. ESXi 호스트에 대한 SSHI(Secure Shell)을 루트로 유지 보수 모드로 전환합니다.

4단계. 폴더를 만들고 여기에 ESXi 패키지를 업로드합니다.

4.1단계. 다음 명령을 실행합니다. mkdir /hxpatch

4.2단계. 다음 명령을 사용하여 패키지를 저장할 ramdisk를 만듭니다. esxcli system visorfs ramdisk add -m 500 -M 500 -n hxpatch -t /hxpatch -p 0755.

5단계. ESXi-7.2.0.5 패키지를 cisco downloads에서 로컬 리포지토리로 다운로드합니다. 로컬 리포 지토리는 다음 그림과 같이

<u>https://software.cisco.com/download/home/286305544/type/286305994/release/4.5(2a)</u> 링크를 사용합니다.

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 🗗

5.1단계. 로컬 repo to /hxpatch 폴더에서 **패키지를** 복사합니다. 아래 예에서는 WinSCP를 사용합니 다.

note Help								
• Transfer	Settings Default		• <i>ฮ</i> •					
				📕 hxpatch 🔹 🚰 •	🝸 • 🔁 🔽	🏠 🌮 🖻 🕅 Find Files	<mark>- (← + →</mark> -	
New • 主	V			Download •	Edit - 🗙 📝 🛙	Properties 📔 New -	$+ - \forall$	
				/hxpatch/				
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 Text Document Compressed (zi Compressed (zi PY File TGZ File	() 35% Up	Changed 7/7/2021 12:10:48 PM 7/7/2021 7:29:03 PM 12/40/2020 13:49:46 PM oloading File: HX-ESXI-7.0U2 Target: /hxpatch/ Time left: Calcul Bytes transferred: 13	Name ^ ? -17867351-Cisco-Custom-7.: lating Time elapsed: 0 4 MB Speed: 52. Unlimited •	Size × 2.0.5-u :00:02 0 MB/s	Changed 7/8/2021 1:19:04 PM	Rights rwxr-xr-x	Owner root
	ote Help Transfer New V V Size 2 KB 13 KB 12 KB 382,244 KB 6 KB 1 KB 59 KB	ote Help Transfer Settings Default Transfer Settings Default Size Type Parent directory File folder 2 KB Windows Power 13 KB Text Document 12 KB Text Document 382,244 KB Compressed (zi 6 KB Compressed (zi 1 KB PY File 59 KB TGZ File	ote Help Transfer Settings Default New Size Type Parent directory File folder 2 KB Windows Power Ch. 382,244 KB Compressed (zi 1 KB PY File 59 KB TGZ File	ote Help Transfer Settings Default New Transfer Settings Default Size Type Parent directory File folder 2 KB Windows Power Transfer 29:03 PM 2 KB Text Document 382,244 KB Compressed (zi 1 KB PY File 59 KB TGZ File File: HX-ESXI-7.0U2 Target: /hxpath/ Time left: Calcul Bytes transferred: 13 Time left: Calcul Bytes transferred: 13	ote Help Transfer Settings Default New • • • • Size Type Parent directory File folder 2 KB Windows Powerts	ote Help Transfer Settings Default Transfer Settings Default The parent directory Size Parent directory Si	ote Help Transfer Settings Default New • • • • • • • • • • • • • • • • • • •	ote Help • Transfer Settings Default • Transfer Settings Default • Properties • Properties • New • • • • • • • • • • • • • • • • • • •

6단계. 유지 보수 모드에서 호스트로 다시 SSH합니다.

7단계. 패키지 프로파일 세부사항을 보려면 다음 명령을 실행합니다. esxcli 소프트웨어 소스 프로 파일 목록 —depot=/hxpatch/HX-ESXi-7.0U2-17867351-Cisco-Custom-7.2.0.5-upgradebundle.zip은 이미지에 표시된 것과 같습니다.

[root@	-220:/hxpatch]	esxcli software	sources pro	ofile 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						
HX-ESXi-	7.0U2-17867351-0	Cisco-Custom-7.2	.0.5 Cisco	PartnerSupported	2021-04-29T18:21:43	2021-04-29T18:
21:43						
[root@	-220:/hxpatch]					

8단계. 다음 명령을 실행하여 ESXi 패키지를 7.0 U2로 업그레이드합니다.

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-hardwarewarning

9단계. 호스트를 재부팅합니다.

10단계. 호스트에 SSH를 입력하고 다음 명령을 사용하여 버전을 확인합니다. 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:~]

11단계. 유지 관리 모드에서 노드를 종료하고 클러스터가 정상화될 때까지 기다립니다.

11.1단계. HX-Connect를 열고 System Information(시스템 정보)> Nodes(노드)를 선택한 다음 유지 보수 모드에서 노드를 선택하고 Exit HX Maintenance Mode(HX 유지 보수 모드 종료)를 클릭합니 다.



HX 연결 노드

← → C /	Not secure 10. 98/#							० 🖈 🛔 😩 ।
= 🚓 Hyperflex Connect			UC 4	α				
Deshboard MONITOR	System Overview Nodes Disks	Mode						Less networks at 57-58-2021 12-46-59 RV C
수 Alarms 앞 Evens @ Activity	Node ^ Hypervisor Address	Hypervisor Status Online	Controller Address	Controller Status Online	Model H0220C-M45	Version 4.5(28)	Disks 8	Command Line Mode
ANALYZI	220 10 65 221 10 66	Onine	10 169	Online	H0220C4M45 H0220C4M45	4.5(2#) 4.5(2#)	8	Root shel ① Root shel ①
	1-3 of 3							
System Information Detestores G IGGI								
Urtual Machines Upgrade Web CL								
Kubernetes								

HX 연결 종료 MM

11.2단계. HX Connect Dashboard(HX 연결 대시보드)에는 Operational Status(운영 상태)가 표시 되며, Operational Status(운영 상태)는 Online(**온라인)**이어야 하며 Resiliency Health(복원력 상태)는 Healthy(정상)여야 **합니다**.

		Q	26
OPERATIONAL STATUS	٥	Cluster License not registered	,
RESILIENCY HEALTH Healthy ①	~	1 Node failure can be tolerated	
CAPACITY 1.2% 6 TB 71.2 GB Used	6 TB Free OP	ORAGE Compression 77% TIMIZATION Deduplication 0%	
F	RESILIENCY HEALTH Healthy ① CAPACITY 6 TB 1.2% 71.2 GB Used	PERATIONAL STATUS Dnline ① RESILIENCY HEALTH Healthy ① CAPACITY CAPACITY CAPACI	IPERATIONAL STATUS Image: Cluster License not registered RESILIENCY HEALTH Image: Note of the cluster License not registered Resiliency Healthy Image: Note of the cluster License not registered CAPACITY 1.2% 6 TB 11.2% 71.2 GB Used 6 TB Free Compression 0%

12단계. 클러스터의 일부인 모든 노드에서 2-11단계를 한 번에 하나씩 반복합니다.

ESXi 업그레이드가 완료되면 이미지에 표시된 대로 HX 서버의 KVM(Keyboard, Video, Mouse) 콘 솔에서 버전 세부 정보를 확인할 수 있습니다.

cisco. UCS KVM	
KVM Console Properties	
	VMware ESXi 7.0.2 (VMXernel Release Build 17067351)
	Cisco Systems Inc H0220C-MIS
	2 x Inte100 Xeon00 OPU E5-2600 v3 0 2.500Hz 303.9 G10 Memory

HX Connect에서 다음 그림과 같이 System Information(시스템 정보) 탭에 새 ESXi 버전이 있음을 확인할 수도 있습니다.

\leftarrow	\rightarrow (C	0 8	https://10.98////clusters/1	/servers?tab={"id":"Server","	index":0}			☆		\bigtriangledown	=
=	.1 1.1 1. CISCO	HyperFlex Connec			UC	-CL		Q ▲ 1	Ê	۲	0	ھ
0	Dashb	ooard	î	Hyperconverged Nodes			Disk Viev	v Options \	Dis	k View Le	gend	
MON	UTOP			Node	Hypervisor	HyperFlex Controller	Disk Overview (8 in t	use)				
0	Alarma			-219	🥝 Online	Online						
4	Alarm	5		HX220C-M4S	10. 64	10	o /					
ជ	Events	s			6.7.0-17499825	4.5.2a-39429		_				
Û	Activit	У										
				Node	Hypervisor	HyperFlex Controller	Disk Overview (8 in t	use)				
ANA	LYZE			-220	🥝 Online	🥝 Online						
Lala	Perfor	rmance		HX220C-M4S	10. 65	1069						
PRO	TECT				7.0.2-17867351	4.5.2a-39429	0 /					
ſ	Replic	ation										
				Node	Hypervisor	HyperFlex Controller	Disk Overview (8 in	use)				
MAN	AGE			-221	🕗 Online	🥝 Online						
E	Syster	n Information		HX220C-M4S	1066	10	•					
	Datast	tores	~		6.7.0-17499825	4.5.2a-39429	÷ ′					

HX connect 업데이트 Esxi

시나리오 B. HXDP + Intersight에서 ESXi 통합 업그레이드

이 시나리오에서는 Intersight에서 HXDP를 4.5(2a)로, ESXi를 7.0 U2 빌드 17867351으로 업그레이 드합니다.

1단계. HX 서버 중 하나가 유지 관리 모드에 있는 경우 vCenter 또는 ucs KVM 콘솔을 통해 이 서버 를 재부팅합니다.

✓ ☐ 221_dc		😚 Deploy OVF Template	Adapter
✓ [221_	cl	🧭 New Resource Pool	el: USB Storage Controller
!! -2	19.eng.storvisor.com		♦ vmhba32
: -2	20.eng.storvisor.com	53 New vApp	el: Wellsburg AHCI Controller
-2	21.eng.storvisor.com (Maintenance Mode)	Import VMs	♦ vmhba0
🔂 stCtIV	/M-	Maintenance Mode	
StCtl	/M-	Hanterbree Hode	
d stCtl	/M-	Connection	·
6	-clone1	Power	Power On
6	-clone10		
8	-clone2	Certificates	Enter Standby Mode
7	-clone3	Storage	Shut Down
6	-clone4	6+ And Maturadian	
7	-clone5	S Add Networking	🛃 Reboot
7	-clone6	Host Profiles	•
8	-clone7	Export System Logs	
3	-clone8	Export System Logs	
6	-clone9	Reconfigure for vSphere HA	
7	-VM	🖎 Assign License	

2단계. 서버가 재부팅되면 HX Connect UI에서 HX 유지 보수 모드를 종료합니다. HX-Connect를 열 고 **시스템 정보 > 노드**를 선택한 다음 유지 보수 모드에서 노드를 선택하고 **HX 유지 보수 모드 종료 를 누릅니다.** 3단계. Hyperflex 클러스터에서 복구를 완료하는 데 몇 분 정도 걸립니다. HX Connect **대시보드**는 작동 상태, **온라인** 상태, 복원력 상태가 **정상이어야** 합니다.

≡ disco HyperFlex Connect			Q 💼 📋 🗐 🖉 🕰
🕐 Dashboard	OPERATIONAL STATUS Online ©		Cluster License not registered
MONITOR Alarms	$\begin{array}{c} & \text{Resiliency health} \\ & \text{Healthy} \odot \end{array}$		✓ 1 Node failure can be tolerated
京 Events 自 Activity	CAPACITY 6 TB	1.2% 71.2 GB Used 6 TB Free	STORAGE Compression 77% OPTIMIZATION Deduplication 0%
ANALYZE			

4단계. Intersight를 열고 Upgrade(**업그레이드)**를 선택한 다음 Expert Mode(전문가 모드) > Upgrade HyperFlex Data Platform(HyperFlex 데이터 플랫폼 업그레이드)을 클릭합니다.

=	cisco Intersight	OPERATE > HyperFlex Clusters		û 🖬 53 🔺 35 🕞	۹ 🛛 🖉
ele	MONITOR	Clusters Backups			
Ŷ	OPERATE ^				
	Servers Chassis Fabric Interconnects	All Clusters + ··· ···· ···· ···· ···· ···· ···· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ··· ···· ···· ····· ···· ···· ···· ······	nection Storage Utilization Ca	apacity Rumway	0 - verpage (K) < _ 1 of HyperFlex Version
	HyperFlex Clusters	(1) + Had_ 1	UNDER ION	(1) + Unive_ 1 (1) •	- Hybrid 1 (1) • 4
×	CONFIGURE ^			<u> </u>	
	Profiles Templates	Name : Health	: Type : Hyper : Storage (HyperFiex 4.0(21)	Cap Stora_ : Storage Utilization Tren	d () : Capacity_ () : 0.0% Unknown
	Policies Pools	··· 🧷 Selected 1 of 1 Show 5 Upgrade	Relected Unselect All		K (<u>1</u> ef
æ	ADMIN ^	Run Health Check			
	Targets				
	Software Repository				
=	cisco Intersight	HyperFlex Cluster Upgrade		0 🖬 53 🔺 35 🕞	৭ ⊗ ত
<u>elo</u>	MONITOR	🖻 Progress		Step 1	
Ø	OPERATE ^	Version Selection	ξÕ j e	Version Selection	
	Servers	Compatibility Check	~~~~		
	Chassis	Summary			
	Hone Day Chatter		Settings		Expert Mode 🏾 🌑
×	CONFIGURE ^		Upgrade HyperFlex Data	HyperFlex Data Platform Version *	
	Profiles		Fallorin	4.5(2a)	
	Templates		Upgrade Hypervisor	4.5(1a)	
	Policies			4.0(21)	
	Pools			4.0(2d)	
æ	ADMIN ^				
	Targets				
	Software Repository				



5단계. 업그레이드 시작을 확인한 후 다음을 완료할 수 있습니다.

=	citee Intersight	Requests > Upgrade Hy	🗘 🖬 53 🔺 35				
<u>ti</u> s	MONITOR	Details		Execution Flow			
θ	OPERATE ^	Status	© Success	🔿 🚾 220: Cleanup tasks after upgrade			
	Servers Chaosis	Name ID	Upgrade HyperFlex Cluster 60ef36d8696/f6e2d3071e9db	Carlo Cleanup tasks after upgrade			
	Fabric Interconnects	Target Type	HyperFlex Cluster	Carl 221: Cleanup tasks after upgrade			
	HyperFlex Clusters	Target Name	221	Running Cluster Post-Upgrade Hooks			
×	CONFIGURE ^	Source Type	-220 HyperFlex Cluster Profile	220: Update node View Execution Now			
	Profiles	Source Name	_chuster	O 211: Update node View Execution Row			
	Templates	Initiator Start Time	Jul 14, 2021 12:11 PM	O 221: Update node View Execution Flow			
	Pools	End Time Duration	Jul 14, 2021 2:10 PM 1 h 59 m 25 s	220: Run Node Level Validations for Upgrade			
æ	ADMIN ^			219: Run Node Level Validations for Upgrade			
	Targets	Organizations		221: Run Node Level Validations for Upgrade			
	Software Repository			Run Validations for Upgrade			

6단계. 각 서버에 대해 ESXi 업그레이드를 시작합니다. ESXi 7.0 U2 업그레이드 번들을 ESXi 호스 트에 복사합니다.

6.1단계. https://software.cisco.com/download/home/286305544/type/286305994/release/4.5(2a) 링크를 통해 cisco 다운로드에서 ESXi 7.0U2 업그레이드 번들을 <u>다운로드합니다.</u>

CISCO HX Custom Image for ESXi 7.0 U2a Offline Bundle for	30-Jun-2021	373.28 MB	🛨 👾 🗎
Upgrading from prior ESXi versions			
HX-ESXi-7.0U2-17867351-Cisco-Custom-7.2.0.5-upgrade-bundle.zip			
Advisories 📑			

6.2단계. 각 ESXi 호스트에서 ESXi 7.0U2 업그레이드 번들을 사용 가능한 데이터 저장소 디렉토리 (scp, wget 등의 방법 사용)에 복사합니다. 완료되면 다음을 확인해야 합니다.

```
[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 O
drwx-----
                       root
                                       686 Jul 14 05:19 .
             1 root
drwxr-xr-x 1 root
-rw-r--r-- 1 root
                                       512 Jul 15 01:21 ..
                       root
                                391417386 Jul 15 00:55 HX-ESXi-7.0U2-17867351-Cisco-Custom-
                       root
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

```
7단계. HX-Connect를 열고 System information(시스템 정보) > Nodes(노드)를 선택한 다음 Esxi를
업그레이드할 노드를 선택하고 Enter HX Maintenance Mode(HX 유지 관리 모드 입력)를 클릭합니
다.
```

← → C 🚺	Not secure	10							Q 🖞	*	😩 E
= text Hyperflex Connect				uc -a					۵ 🔺	• 🗈	0 0 A
Deshboard MONITOR	System Overview No	odes Disks e Mode G Exit HX Maintenance Mode							Cest among	e et 0° 08/2021 Riber	24659.R/ O
Q Alarms ☆ Evens	Node ^ Hy 219 10	ypervisor Address	Hypervisor Status Online	Controller Address	Controller Status Online	Model H0220C-M45	Version 4.5(2a)	Disks 8	Command Line Mod	ie	
ANALYZE	220 10	0. 65	Online	10 169 10 70	Online	H0220C-M45	4.5(2#) 4.5(2#)	*	Root shell ①		
Protect Replication	1-3 of 3								NOX SHELLY		
System Information											
C ISCSI											
 Upgrade Web CU 											
Kubernetes											

HX 연결 노드

← → C	▲ Not secure 10		uc -a
Dashboard	System Overview Nodes Disks		Confirm HX Maintenance Mode © ©
Alarms Events	Node Hypervisor Address	Hypervisor Status	Co ! Nodet Version Disks
	-219 10 1.64 -220 10 65	Online	Hot Maintenance Mode ensures that the entire hyperconvergen node, including the host, enters Hot220CMAS 4.5(2a) B 10 hyperconvergen node, including the host, enters Hot220CMAS 4.5(2a) B
La Performance	221 10 1.66	Online	18 A host in Maintenance Mode is enabled but does not H9/220CM45 4-3/2a) 8 perform any function on virtual machines, including virtual machine provisioning. Virtual machines running on the host prefering Maintenance Mode may
	1-3013		need to be powered off or migrated manuality to different hors. The Enter HX Maintenance mode task does not complex until all invaning virtual machines are powered off or migrated.
System Information Datastores			Do you want to put the selected host in HK Maintennet Mode?
Virtual Machines			Cance Erer IX Multenance Mode
Web CLI Kubernetes			
•			

다음 그림과 같이 Activity 탭 아래에서 활동이 완료되었음을 볼 수 있습니다.

← → C /	Not secure 10. 98/#/clusters/1/activity			Q	☆	*	
= tech Hyperflex Connect		uc -cı.		0 🔺 1		001	0
① Deshboard	Filter Filter Isted tasks						
MONITOR Alerms	Activity @Monitor progress of recent tasks on the HK storage cluster.			Castrafree	res es 67.0	8/2021 12:45	20.911
☆ Events	~ Colepse All						
Activity	Validate enter maintenance mode for node -219			11/10			1
ANALVZE	Statous: Success 07/06/2021 12:46:45 PM	Parallel sales check	Driver mainteenance mode sask is not running for other nodes and for other site nodes in stretch cluster				
A Performance		vCenter availability check	 Chaster should be registered with sCenser 				
PROTECT		vCenter reachability check	 «Center is reachable from «Center 				
Replication		Maintenance mode state check	 Check the node is not in mantenance mode 				
MANAGE		VM Mgration check	 Check VM Migration is enabled in all nodes. 				
System Information		Ousier health check	🖌 Alou maintenance mode only for healthy ductor				
E Detastores		Nodes availability check	Check number of nodes available to tolerate this node into maintenance mode				
E) (625)							
Virtual Machines	Stetus: Success	Errar Maintenance Mode	1				_
T Upgrøde	07/06/2021 12:48:45 PM		 Variability of the second secon				
> Web CU			 Vicenser auxiliability check: Outsier should be registered with viCenter Vicenser reachability check: viCenser is reachable from viCenser 				
Kubernetes			 Maintenance mode state check. Check the node is not in maintenance mode Will Microson check. Check VM Microson is evaluated in all nodes. 				
			Custor health check: Alique maintenance mode only for healthy cluster				
		Enter vCenter Maintenance mode	Note: availability decis: Check number of nodes available to some are this node into mansmance mode Institute the enter mansenance mode to of enter				
		Wait for VM migration to be completed	 We exercise will use time based on number of user Wils 				
		Beloguish the node	Shutting down such grantidy				
		Power off controller VM	Powering off the consulter VM				
		vCenter mantenance mode task	✓ Wating for maintenance mode task to be completed in s€ercer				

8단계. HX 유지 보수 모드에 있는 ESXi 호스트에 SSH를 적용합니다.

8.1단계. 업그레이드 번들 프로필 이름 찾기:

[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

8.2단계. no-hardware-warning 매개 변수를 지정하여 upgrade 명령을 실행합니다.

[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 8.3단계. 업그레이드가 완료되면 성공 메시지가 표시됩니다.

Update Result Message: The update completed successfully, but the system needs to be rebooted for the changes to be effective. Reboot Required: true 9단계. 호스트를 재부팅합니다.

10단계. ESXi 호스트에 로그인하고 다음 명령을 사용하여 새 버전을 확인합니다. 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:~]

11단계. 서버가 재부팅되면 HX Connect UI에서 HX Maintenance Mode를 종료합니다. 이미지에 표 시된 대로 HX-Connect를 열고 System Information(시스템 정보) > Nodes(노드)를 선택하고, 유지 보수 모드에서 노드를 선택하고 Exit HX Maintenance Mode(HX 유지 보수 모드 종료)를 클릭합니 다.



← → C 🔺	Not secure 10							० 🖈 🗯 😩 :
= the Hyperflex Connect			UC	a				Q▲1 M @ © &
Deshooerd Monitor	System Overview Nodes Disks	ance Mode						Lest vitreines et 6108-2021 1246-59 RV O
 Alarms [™] Evens [™] Activity 	Node ^ Hypervisor Address	Hypervisor Status Online	Controller Address	Controller Status Online	Model 10(2205-M45	Version 4.5(28)	Disks 8	Command Line Mode
ANALYZE La Performance PROTECT	220 10 65 221 10 66	Onine	10 169	Online	HK220C-M45	4.5(28) 4.5(28)	8	Root shell ①
	1-3of3							
System Information Datastories G 5/251								
Upgrade Web CU								
O Rusemeres								

HX 연결 종료 MM

12단계. Hyperflex 클러스터에서 복구를 완료하는 데 몇 분 정도 걸립니다. HX Connect **대시보드**는 작동 상태, **온라인** 상태, 복원력 상태가 **정상이어야** 합니다.

= diala HyperFlex Connect		100 Million (1997)	4 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
⑦ Dashboard	OPERATIONAL STATUS Online ©	① Cluster L	License not registered
Alarms		🗸 1 Node fa	ailure can be tolerated
Activity	CAPACITY 6 TB	1.2% STORAGE 71.2 GB Used 6 TB Free OPTIMIZATIO	DN Compression 77% Deduplication 0%
ANALYZE			

13단계. 각 ESXi 호스트 1에 대해 6~12단계를 반복합니다. 다음 노드로 이동하기 **전**에 클러스터 상 태가 정상으로 표시되는지 확인합니다. 이 번역에 관하여

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