# 通过HX Connect或Intersight将ESXi升级到7.0 U2失败,并显示"CPU\_SUPPORT WARNING"

### 目录

<u>简介</u> <u>背景信息</u> <u>问题</u> <u>解决方案</u> <u>场景A.从HX Connect用户界面进行HXDP + ESXi组合升级</u> 场景B.从Intersight进行HXDP + ESXi组合升级

# 简介

本文档介绍将ESXi升级到7.0 U2的过程,在运行旧一代中央处理器(CPU)的服务器上此过程可能会 失败。

# 背景信息

通过HX Connect或Intersight启动的升级显示故障消息:"无法应用配置文件HX-ESXi-7.0U2-17867351-Cisco-Custom-7.2.0.5"或"CPU\_SUPPORT警告:未来的ESXi版本可能不支持此主机中 的CPU。请进行相应的规划"。

解决此问题所需的Hyperflex数据平台(HXDP)版本如下:

HXDP 4.5(2a)

HXDP 4.5(1a)

支持ESXi 7.0 U2的HXDP 4.0(2f)及更低版本

### 问题

在运行较旧一代CPU的服务器上尝试通过HX Connect或Intersight升级到ESXi 7.0 U2,特别是 Sandy Bridge-EP(E5-2600)、Ivy Bridge-EP(E5-2600v2)和Haswell EP(E5-2600v3)CPU系列。请参 阅VMware KB,了解有关受此兼容性检查影响的处理器的完整详细信息:<u>VMware知识库。</u>

$\leftarrow \rightarrow \ \mathbf{C}$ ( $\blacktriangle$ Not set	cure /#/clusters	/1/upgrade?upgradeType=CLUSTER_UPGRADE_HXDP_AND_HYPERVISOR	Q	☆	*	-	:
$\equiv \frac{dhalt_{i}}{c_{1800}}$ HyperFlex Connect		-cu		Â	٢	0	۹
② Dashboard	Errors found during upgrade						
MONITOR	Upgraded 0 of 3 total nodes						
Alarms							
😭 Events	~ UCS	<ul> <li>Running Cluster Pre Upgrade Tasks</li> </ul>					
Activity	Succeeded						
ANALYZE	A UCS-						
PROTECT	A UCS-1 )	✓ Copying and Extracting Upgrade Package(s)					
MANAGE	A UCS-	Liggrading hypervisor ESI0 upgrade failed on host 10.104.0.66. Failed to apply profile 194.656-7.002.17867351-Citece Custom-7.2.0.5					
Datastores		<ul> <li>Copying and Extracting Upgrade Package(s)</li> </ul>					
🗟 iscsi		✓ Checking Cluster readiness					
Virtual Machines		✓ Upgrading Storage Node					
T Upgrade		✓ Reinquish node					
> Web CLI		Wunning Yost Heingush Nobe Tablis     Wolling for Distances to be Economication to the Mode					
Kubernetes		Transing the Determinants to be Processing on the mode     Entering Cluster Node into maintenance mode					
		✓ Running Post Enter Host Maintenance Mode Tasks					

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

#### HX连接错误消息

=	cisco Intersight	Requests > Upgrade HyperFlex Cluster > Update node u	xs: Q ■ 54 ▲ 36 🛛 Q, 💿	
<u>080</u>	MONITOR	Details	Execution Flow	
ø	OPERATE ^	Status E Failed	ucs-main Update Host OS	
	Servers	Name Update node ucs ID 60er 15f	Node upgrade failer: Failed task – Failer to Upgrade Hyperivor: Failure reason – Sailer to Upgrade Hyperivor; Fairawardemoth Hurdware precheck 7 002-1987357-Cisco-Castom 7-2.0.5 failer of with warnings - 09U.SUPPORT WARNING: The Cytle I this hoat may not be supported in failure ESX rele accordingly-in n Apply-in-hardware-warning option to ignore the warnings and proceed with the transaction in Please refer to the log file for more det	of profile HX-ESXi- ases. Please plan alls.'
	Chassis Fabric Interconnects	Target Type HyperFlex Cluster Node	⊘ uos: Il Update Vibs	
	HyperFlex Clusters	Source Type HyperFlex Cluster Profile	🗇 ucs- 1: Enter Host Maintenance Mode	
×	CONFIGURE ^	Source Name ucs _cluster	ucs Validate DRS is Enabled and Fully Automated	
	Profiles	Initiator Start Time Jul 13, 2021 11:09 PM	🔗 ucs 💴 : 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	
ास्त	ADMIN	Organizations default	🔗 ucs-III1: Collect Preconditions for Upgrade	
4)	Targets Software Repository			

## 解决方案

### 场景A.从HX Connect用户界面进行HXDP + ESXi组合升级

在本场景中,您将HXDP升级到4.5(2a),将ESXi升级到7.0 U2内部版17867351。

步骤1.先升级HXDP。

第1.1步:通过

<u>https://software.cisco.com/download/home/286305544/type/286305994/release/4.5(2a)</u>下载 HXDP软件包,如图所示:

$\leftarrow$	$\rightarrow$	G	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	Release 4.5(2a)	Related Links	and Documentation
Suggested Release	My Notifications	Release Note for 4	I.5(2a)
4.0(2f) 🙁			
Latest Release 🗸 🗸	Cisco strongly recommends following the Cisco HyperFlex	Recommended Softwa	are Release Page to select the bo
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)	Advisories 📑		

第1.2步:打开HX-Connect,选择升级(Upgrade),选中HX数据平台(HX Data Platform)复选框,上 传程序包,为**vCenter Credentials输入Username**和**Admin Password**,然后点击Upgrade,如下图 所示:

$\leftarrow \  \  \rightarrow \  \  \mathbf{C}$	O A https://10 .98/#/clusters/1/upgrade?u	pgradeType=CLUSTER_UPGRADE_HXDP	67% 🖒	
≡ <sup>edude.</sup> HyperFlex Connect		UC -CL	Q 🔺 1 🕴	1   ©   ©   0
Dashboard     MONITOR     Alarms	CLUSTER UPGRADE ELIGIBILITY No Results		Test Upgrade Eligibilit	y
☆ Events Activity	Select Upgrade Type		Progress	
ANALYZE	UCS Server Firmware ©			
An Performance	HX Data Platform			
Replication		storfs-packages-4.5.2a-39429 file is uploaded		
MANAGE System Information Datastores	Current HODP version: Version(4.5.2a-39429) Current cluster details > Checksum		Current Catalog version: Version(4.5.2-39429) Current catalog details	Bundle version: 4.5.2a-39429
C ISCSI	ESXI			
Virtual Machines  Upgrade	Secure Boot mode 💿			
Web CLI     Kubernetes	vCenter Credentials Uservane administrator@vsphere.local	Admin password	٥	

HX connect upgrade HXDP

升级完成后,继续执行步骤2。

步骤2.打开HX Connect,选择**System information > Nodes**,选择要升级Esxi的节点,然后单击 Enter HX Maintenance Mode,如图所示。

← → C	A Not secure   10. 98/#							९ 🖈 🚖 🗄 🗄
= the Hyperflex Connect			UC	a				0 <b>▲1 🕅 0 0 </b> .
Deshboard     MONITOR	System Overview Nodes Disks © Enter HX Maintenance Mode © Exit HX Maintenance	eMode						Less vehicles es 51/08/2021 12:44:55 PV O
∴ Aarms ☆ Events	Node ^ Hypervisor Address	Hypervisor Status Online	Controller Address	Controller Status Online	Model H0220C-M45	Version 4.5(2a)	Disks 8	Command Line Mode
ANAUTI ANAUTI	220 10 65	Online	10 169	Online	H0220C4M45	4.5(28)		Root shell ①
Performance PROTECT	1-3 of 3	Unine	10, 70	Unine	10220-006	4.3(48)		Root shell (1)
MANAGE System Information								
C SKSI								
T Upgrade								
Kubernetes								

#### HX连接节点

← → C 4	Not secur	re 10			
= coco HyperFlex Connect				uc -c.	
Deshboard	System Overview	Nodes Disks			
MONITOR	⊙ Enter HX Main	tenance Mode G Exit HX Maintenance	Mode		
🗘 Alarms	Node	Hypervisor Address	Hypervisor Status	Co I Hus Model Version Di	sks
C Events	-219	10. 1.64	Online	10 HX220CAM5 4.5(2e) 8	
ANALYZE	-220	10. 65	Online	HV. Maintenance Mode ensures that the entire HV. Partenance Mode ensures that the entire HV.20C-M45 HV.20C-M4	
Las Performance	-221	10. 1.66	Online	10 A host in Maintenance Mode is enabled but does not HX220C-MMS 4.5(2a) 8	
PROTECT	1-3 of 3			person any location of visual meaning, including visual machine provisioning. Visual methods running on the host entering Maliterenance Mode may needs to be powered of n migrated manually to different hosts. The Enter HX Maliterenance mode task	
MANAGE				does not complete, until all running vitual machines are powered off or migrated.	
System Information				Do you want to put the selected host in HX Maintenance Mode?	
Datastores					
				Cancel Enter HX Maintenance Mode	
Uperade					
>_ Web CU					
Kubernetes					

HX连接维护模式弹出窗口

您可以在Activity选项卡下看到已完成的活动,如图所示:

← → C 🚺	Not secure   10. 98/#/clusters/1/activity			Q	$\dot{\mathbf{x}}$	*	
= text Hyperflex Connect		uc -cı.		0 🔺 1	0	001	0
② Deshboard	Filter Filter listed tasks						
MONITOR Alerms	Activity @Monitor progress of recent tasks on the HK storage cluster.			Let whe	enes es on o	18/2021 12:4	8-20 Put
☆ Events	<ul> <li>Collepse All</li> </ul>						
Activity	O ^ Validate enter maintenance mode for node >219						
ANALYZE	Status: Success 07/05/2021 12:48:45 PM	Parallel sails check	Criter maintenance mode task is not running for other nodes and for other site nodes in stretch cluster				
A Performance		vCenter availability check	<ul> <li>Chatter should be regionered with uCenter</li> </ul>				
PROTECT		vCenter reachability check	✓ »Center is reachable from «Center				
Replication		Maintenance mode state check	<ul> <li>Check the note is not in maintenance mode</li> </ul>				
MANAGE		VM Mgration check	<ul> <li>Check VM Mgration is enabled in all nodes</li> </ul>				
System Information		Outler health check	<ul> <li>Allow maintenance mode only for healthy ductor</li> </ul>				
Detastores		Nodes availability check	Check number of nodes available to solerate this node into maintenance mode				
62 643							
Virtual Machines	<ul> <li>Enter maintenance mode for node -219</li> <li>Status: Success</li> </ul>	Paras Maintenanta Mada					_
T Upgrøde	07/05/2021 12:48:45 PM		<ul> <li>Valuate even manimum room on room us 213</li> <li>Parabel tasks check: Enter manimum mode task is not numing for other nodes and for other size nodes in stretch cluster</li> </ul>				
>_ Web CU			vCenter availability check: Dutter should be registered with vCenter     vCenter reachability check: vCenter is reachabilit from vCenter				
Kubernetes			Maintenance mode state check; Check the node is not in maintenance mode     Mill Mercelos check; Check VMMillerative is excluded in directer				
			Cluster health check Allow maintenance mode only for healthy cluster				
		Form of some bill income and mode	<ul> <li>Nodes availability check. Check number of nodes available to tolerate this node into maintenance mode</li> </ul>				
		Web for VM minutes to be considered	Installe the enter manifestance mode in science				
		Indexed to the party of the sector	Yht registion will be one based on number of over Yes				
		Power off controller VM	second construction of the construction				
		vCenter mantenance mode Lask	Preserve or the construction     Walking for more server mode task to be considered in of errors				
			<ul> <li>manufactor contractor contractor to the the data of the state of the state</li> </ul>				

#### HX连接活动选项卡

步骤3.将Secure Shell(SSHI)作为root用户登录到ESXi主机的维护模式。

步骤4.创建文件夹并将ESXi软件包上传到该文件夹中。

步骤4.1.运行命令:mkdir /hxpatch

步骤4.2.使用以下命令创建ramdisk以存储软件包:esxcli system visorfs ramdisk add -m 500 -M 500 -n hxpatch -t /hxpatch -p 0755。

步骤5.将ESXi-7.2.0.5软件包从思科下载下载到本地回购,并使用 <u>https://software.cisco.com/download/home/286305544/type/286305994/release/4.5(2a)</u>链接,如图 所示:



步骤5.1.将软件包从本地回购到/hxpatch**文件**夹。以下示例使用WinSCP:

Local Mark Files Commands Session Options Rem	ote Help										
🕀 🌠 🐼 Synchronize 📰 💞 🔝 🛞 Queue	Transfer	Settings Default		- <i>💋</i> -							
🖵 root@1( 65 × 🖳 New Session											
🖹 My documents 🔹 🚰 • 🝸 •  🖬 😭 🎜 🛃	$  \Leftrightarrow \cdot \Rightarrow \cdot$					📕 hxpatch 🔹 🗂 🔹	7.	7	🏠 💋 🖻 Find Files 📍	• • • •	
🔝 Upload 🔹 📝 Edit 🔹 🗶 📝 😡 Properties  😭	New • 主	A				Download -	Edit - 🗙 🛛	Z Q	Properties 📔 New 🕶	$+ - \forall$	
C:\Users\admin\Documents\						/hxpatch/					
Name  MobaXterm	Size	Type Parent directory File folder Windows Power	( 1 1 1	Changed 7/7/2021 12:10:48 Pl 7/7/2021 7:29:03 PM		Name		Size	Changed 7/8/2021 1:19:04 PM	Rights rwxr-xr-x	Owner root
HX-ESXI-7.0U2-17867351-Cisco-Custom-7.2.0.5-up	13 KB 12 KB 382,244 KB 6 KB 1 KB 59 KB	Text Document Text Document Compressed (zi Compressed (zi PY File TGZ File	35% Uş	oloading File: HX-ESXI-7 Target: /hxpatch/ Time left: C Bytes transferred:	alcula 134	? 17867351-Cisco-Custom-7.4 xting Time elapsed: 0 \$ MB Speed: 52.	× 2.0.5-u 1:00:02 0 MB/s				
				× 🖬 🗕 🗟 🗞	- @	Unlimited •					

步骤6.以维护模式通过SSH重新连接到主机。

步骤7.运行以下命令以查看软件包配置文件的详细信息:esxcli**软件源配置文件列表** depot=/hxpatch/HX-ESXi-7.0U2-17867351-Cisco-Custom-7.2.0.5-upgrade-bundle.zip,如图所示 :

[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				
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]				

步骤8.运行此命令将ESXi软件包升级到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-hardwarewarning 步骤9.重新启动主机。

步骤10.使用SSH连接到主机并使用命令验证版本: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:~]

步骤11.从维护模式中退出节点,然后等待群集恢复正常。

步骤11.1.打开HX-Connect,选择**System Information**> Nodes,选择处于维护模式的节点,然后单 击**Exit HX Maintenance Mode**,如图所示:



HX连接节点

← → C /	Not secure   10. 98/#							९ 🖈 🛊 😩	:
= the Hyperflex Connect			UC	a				<b>4</b> ▲1   🕅   ⊗   ⊙	ه ا د
Deshooerd     MonitoR	System Overview Nodes Disks © Enter HX Maintenance Mode G Exit HX Maintenance	Mode						Lest refreshed at 07:09-2021 12-46:59 Pr/	
<ul> <li>Alarms</li> <li> <sup>1</sup> <sup>1</sup></li></ul>	Node	Hypervisor Status Online	Controller Address	Controller Status Online	Model H0220C-M45	Version 4.5(28)	Disks 8	Command Line Mode	
ANALYZE La Performance PROTECT	221 10 66	Onine	10 70	Online	H0220C4M45	4.5(2a)	4	Root shell ①	
Replication     MANAGE     System Information									
Decessores     ScSI     Vitual Machines									
☐ Upgrade > Web CU									
O Rubernetes									

#### HX连接出口MM

步骤 11.2 HX Connect Dashboard显示运行状态,它必须是**Online**,Resiliency Health必须是 Healthy。

≡ disto HyperFlex Connect			¢ ● 1 @ 0 £
Dashboard	OPERATIONAL STATUS Online ©		Cluster License not registered
Alarms	RESILIENCY HEALTH Healthy ©		✓ 1 Node failure can be tolerated
Activity	Сарасіту 6 тв	1.2% 71.2 GB Used 6 TB Free	STORAGE OPTIMIZATION 77.00 Compression 77% Deduplication 0%

步骤12.在属于集群的所有节点上重复步骤2-11,一次一个步骤。

ESXi升级完成后,您可以在HX服务器的键盘、视频、鼠标(KVM)控制台上看到版本详细信息,如图 所示:

CISCO UCS KVM								
KVM Console Properties								
	VMware ESXI 7.0.2 (VMGernel Release Build 17067351)							
	Cisco Systems Inc H0220C-MAS							
	2 x Intel(R) Xeon(R) CPU ES-2600 v3 0 2.500Hz 303.9 G10 Menory							

您还可以在HX Connect中验证**System Information**选项卡上是否存在新的ESXi版本,如图所示:

$\leftarrow$	$\rightarrow$	c c	2	https://10.98///clusters/1	/servers?tab={°id":"Server",	"index":0}			☆		$\bigtriangledown$	=
=	-1 1.1 1. CISCO	HyperFlex Connect			UC	-CL		Q 🔺 1	Ê	۲	0	ھ
0	Dasht	ooard	<u> </u>	Hyperconverged Nodes			Disk	/iew Options \	Di	sk View Le	gend	
0				Node	Hypervisor	HyperFlex Controller	Disk Overview (8	in use )				
MON	NITOR			-219	🥝 Online	Online	1 2 3 4 5 6					
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 (8	in use )				
ANA	LYZE			-220	🥝 Online	🥝 Online	1 2 3 4 5 6					
lalı	Perfo	rmance		HX220C-M4S	10. 65	1069						
PRO	TECT				7.0.2-17867351	4.5.2a-39429	¢ /					
ſ	Replic	ation										
				Node	Hypervisor	HyperFlex Controller	Disk Overview (8	in use )				
MAN	AGE			-221	🥝 Online	🥝 Online						
=	Syster	n Information		HX220C-M4S	1066	1070						
	Datas	tores			6.7.0-17499825	4.5.2a-39429	<b>°</b> ′	_				

HX connect更新的Esxi

### 场景B.从Intersight进行HXDP + ESXi组合升级

对于此场景,您可以从Intersight将HXDP升级到4.5(2a),将ESXi升级到7.0 U2构建17867351。

步骤1.如果其中一台HX服务器处于维护模式,则通过vCenter或ucs KVM控制台重新启动此服务器 。

✓ 1 221_dc	C Deploy OVF Template	Adapter
✓ [ 221_cl	🖉 New Resource Pool	el: USB Storage Controller
-219.eng.storvisor.com		♦ vmhba32
-220.eng.storvisor.com	čá New VApp	el: Wellsburg AHCI Controller
🕂 🔤 -221.eng.storvisor.com (Maintenance M	ode) Import VMs	♦ vmhba0
🔂 stCtIVM-	Maintenance Mode	♦ vmhba1
d stCtIVM-	Mantenance Mode	
ि stCtIVM-	Connection	•
-clone1	Power	Power On
🔂 -clone10		
Clone2	Certificates	Enter Standby Mode
-clone3	Storage	Shut Down
-clone4	Rt Add Natworking	
🔂 -clone5	S Add Networking	& Reboot
🔂 -clone6	Host Profiles	•
🔂 -clone7	Export System Logs	
🔂 -clone8	Export of stellin Logs	
-clone9	Reconfigure for vSphere HA	
-∨M	🕾 Assign License	

步骤2.服务器重新启动后,从HX Connect UI退出HX维护模式。打开HX-Connect,选择**System** Information > Nodes,选择处于维护模式的节点,然后单击Exit HX Maintenance Mode。

步骤3.为Hyperflex集群完成修复留出几分钟时间。HX Connect **Dashboard**向您显示操作状态,该 状态必须为**Online**,并且弹性运行状况必须显示**Healthy**。



步骤4.打开Intersight,选择**Upgrade**,单击**Expert Mode > Upgrade HyperFlex Data Platform**,如 图所示:







步骤5.您可以观察升级开始,然后完成以下操作:

=	cisco Intersight	Requests > Upgrade HyperFle	x Custer		Q 🖬 53 🔺 35		
th	MONITOR	Details		Execution Flow			
θ	OPERATE ^	Status	© Success	🔿 🔜 220: Cleanup Tasks after upgrade			
	Servers Chavels	Name Up ID 60et	igrade HyperFlex Cluster 36d8696f6e2d3071e9db	Cleanup Tasks after upgrade			
	Fabric Interconnects	Target Type	HyperFlex Cluster	© 221: Cleanup tasks after upgrade			
	HyperFlex Clusters	Target Name	-221	Running Cluster Post-Upgrade Hooks			
×	CONFIGURE ^	Source Type	-220 HyperFlex Cluster Profile	C 220. Update node View Execution Flow			
	Profiles	Source Name	_cluster	O 219: Update node View Execution Flow			
	Templates	Initiator Start Time	Jul 14, 2021 12:11 PM	O 221: Update node View Execution Row			
	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			Jul 14, 2021 1

步骤6.启动每台服务器的ESXi升级。将ESXi 7.0 U2升级捆绑包复制到ESXi主机。

第6.1步:从cisco下载下载ESXi 7.0U2升级捆绑包,链接为

: 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 30-Jun-2021 373.28 MB \pm \searrow 
Upgrading from prior ESXi versions
HX-ESXi-7.0U2-17867351-Cisco-Custom-7.2.0.5-upgrade-bundle.zip
Advisories
```

第6.2步:在每台ESXi主机上,将ESXi 7.0U2升级捆绑包复制到可用的datastore目录中(使用诸如 scp、wget等方法)。 完成后,您必须看到:

```
[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 0
drwx-----
             1 root
                                       686 Jul 14 05:19 .
                       root
drwxr-xr-x 1 root
                       root
                                       512 Jul 15 01:21 ..
-rw-r--r--
            1 root
                                 391417386 Jul 15 00:55 HX-ESXi-7.0U2-17867351-Cisco-Custom-
                        root
7.2.0.5-upgrade-bundle.zip
drwxr-xr-x 1 root
                                      2793 Jul 14 20:03 ucs221-VM
                       root
[root@ucs-221:/vmfs/volumes/ac08f584-9a2f8a67] pwd
```

/vmfs/volumes/ MyDataStore

步骤7.打开HX-Connect,选择**System information > Nodes**,选择要升级Esxi的节点,然后单击 Enter HX Maintenance Mode,如图所示:

← → C 🔺	← → C ▲ Not secure   10. 98/# Q ☆ ♠ 🏝 :								
= the Hyperflex Connect				UC 4	α				Q▲1   M   ⊗   ©   A
Deshooerd     Monitos	System Overview	Nodes Disks renance Mode G Exit HX Maintenance	Mode						Lest whereas at 51:09:2521-12:44:59 PM
다 Alarma ☆ Events	Node 219	Hypervisor Address     10     64	Hypervisor Status Online	Controller Address	Controller Status Online	Model H0220C4M5	Version 4.5(2a)	Disks 8	Command Line Mode
ANALYZI	220	10. 65	Onine	10 169	Online	H0220C-M45	4.5(2e) 4.5(2e)		Root shell ①
	1 - 3 of 3								Rook sheel Qu
MANAGE System Information									
은 ISCR 및 Vitual Machines									
→ Upgrade → Web CL									
O Notements									

#### HX连接节点

← → C /	Not secure   10		
$= \begin{array}{c} \overset{\rm de-de}{=} & {\rm HyperFlex}\ {\rm Connect} \\ \end{array}$			uc -a.
Deshboard	System Overview Nodes Disks		Confirm 100 Maintenance Mode ① S
Alarms	Enter HX Maintenance Mode G Exit HX Maintenance	e Mode	
☆ Events	219 10 1.64	Online	12 H0220C4M5 45(28) 8
ACD/OV	-220 10 65	Online	HX Maintenance Mode ensures that the entire 10 hyperconneged node, including the host, enters maintenance. 8
La Performance	221 10 1.66	Online	10 A host in Maintenance Mode is enabled but does not H0220CMHS 4-5(2a) 8 perform any function on virtual machines, including
	1 - 3 of 3		vitual machine provisioning. Vitual machines running on the host energing Maintenance Mode may need to be powered off or migrated manually to different hosts. The Either KM Maintenance mode task
Maxaal       System Information       Datastores       Giscsi       Virtual Machines       T     Upgrade       Xiebernetes			laineheta futasi. The brain Alkandenhade mode table and posterio futal all mongovina matchinas Day u warte to part de selected host in HX Martemance Mode <sup>2</sup> Terer HX Maintemance Mode

您可以在Activity选项卡下看到已完成的活动,如图所示:

← → 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 Alerms	Activity @Montor progress of recent tasks on the HX storage cluster.			Let whe	ened es 07.0	18/2021 124	49-20 P11	
☆ Events	Collepse All							
Activity	Validate enter maintenance mode for node >219							
ANALYZE	Status: Success 07/08/2021 12:45:45 PM	Parallel usits check	<ul> <li>Dreer maintenance mode task is not running for other nodes and for other site nodes in stretch cluster</li> </ul>					
a Performance		«Center availability check	<ul> <li>Chose should be registered with sCenter</li> </ul>					
PROTECT		vCenter reachability check	✓ sCenter is readfuble from sCenter					
Replication		Maintenance mode state check	<ul> <li>Check the node is not in maintenance mode</li> </ul>					
MANAGE		VM Mgration check	<ul> <li>Check VM Migration is enabled in all nodes</li> </ul>					
System Information		Ousser health check	🖌 Aliou maintenance mode only for healthy duster					
E Detastores		Nodes availability check	Check number of nodes available to tolerate this node into maintenance mode					
6 659								
Virtual Machines	<ul> <li>Enter maintenance mode for node -219 Status: Success</li> </ul>	antreamen mode for node _219 Success						
T Upgrøde	07/08/2021 12:48:45 PM	Erter Mantenance Mode	<ul> <li>Validate enter maintenance inode for node uci-219</li> <li>Parallel lasks check: Driter maintenance mode lask is not numling for other nodes and for other site nodes in stretch cluster</li> </ul>					
>_ Web CU			vCenter availability check. Outlan should be registered with vCenter     vCenter reachability check. vCenter is reachable from vCenter					
Kubernetes			<ul> <li>Maintenance mode state therds; Check the node is not in maintenance mode</li> </ul>					
			<ul> <li>Yeb legration check: Check Yeb legration is enabled in all notes</li> <li>Cluster health check Allow maintenance mode only fair healthy cluster</li> </ul>					
			<ul> <li>Nodes availability sheck. Check number of nodes available to tulerate this node into maintenance mode</li> </ul>					
		Enter vCenter Municipance mode	<ul> <li>Initiate the enter maintenance mode in vCenter</li> </ul>					
		Wait for VM migration to be completed	<ul> <li>With relignation will take time based on number of user VMs</li> </ul>					
		Retinguish the node	✓ Shuting down such gradebity					
		Power off controller VM	<ul> <li>Powering off the controller VM</li> </ul>					
		vCenter mantenance mode Lask	<ul> <li>Waiting for maintenance mode task to be completed in offenser</li> </ul>					

#### 步骤8.通过SSH连接到处于HX维护模式的ESXi主机。

#### 步骤8.1.查找升级捆绑包配置文件名称:

[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 步骤8.3.升级完成后,您将看到一条成功消息:

Update Result Message: The update completed successfully, but the system needs to be rebooted for the changes to be effective. Reboot Required: true 步骤9.重新启动主机。

步骤10.登录到ESXi主机并使用命令验证新版本: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:~]
```

步骤11.服务器重新启动后,从HX Connect UI退出**HX Maintenance Mode**。打开HX-Connect,选 择**System Information > Nodes**,选择处于维护模式的节点,然后单击**Exit HX Maintenance** Mode,如图所示:



← → C	$\epsilon \rightarrow C$ A Not secure   10. 98/# Q $\star$ $\Rightarrow$								
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Deshboard     Monitor	System Overview	v Nodes Disks ntenance Mode G Exit HX Maintenance	Mode						Less networked et 617-06-2021 12-44-59 RV O
<ul> <li>Alarms</li> <li>tvents</li> </ul>	Node	Hypervisor Address	Hypervisor Status	Controller Address	Controller Status	Model	Version	Disks	Command Line Mode
Activity	219	10 65	Online	10 169	Online	H0220C-M45	4.5(28)		Root shell ①
ANAUTZI Las Performance	221	10 66	Online	10 70	Online	H0220C-M45	4.5(2a)		Root shell ①
PROTECT	1 - 3 of 3								
MANAGE System Information									
E Decentores									
Virtual Mechines									
'†' Upgrade >_ Web CLI									
Kubernetes									

#### HX连接出口MM

步骤12.为Hyperflex集群完成修复留出几分钟时间。HX Connect **Dashboard**向您显示操作状态,该 状态必须为**Online**,并且弹性运行状况必须显示**Healthy**。

≡ diala HyperFlex Connect			Q 💼 🗎 💷 O 🛆 🕰
🕐 Dashboard	OPERATIONAL STATUS Online ©	① Clus	iter License not registered
Alarms	-∭- RESILIENCY HEALTH Healthy ⊙	🗸 1 No	ode failure can be tolerated
Activity	CAPACITY 6 TB	1.2% STORAG 71.2 GB Used 6 TB Free OPTIMIZ	E Compression 77%

步骤13.对每台ESXi主机1同时重复步骤6.-12.。在移至下一个节点之前,请确保集群状态显示 Healthy。

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