# ESXi-Upgrade auf 7.0 U2 über HX Connect oder Intersight schlägt mit "CPU\_SUPPORT WARNUNG" fehl

### Inhalt

Einleitung Hintergrundinformationen Problem Lösung Szenario A. Kombiniertes HXDP- und ESXi-Upgrade von der HX Connect-Benutzeroberfläche Szenario B. Kombiniertes HXDP- und ESXi-Upgrade von Intersight

## Einleitung

Dieses Dokument beschreibt den Prozess zum Upgrade von ESXi auf 7.0 U2, der auf Servern mit älteren CPU-Prozessoren (Central Processing Units) fehlschlagen kann.

### Hintergrundinformationen

Das über HX Connect oder über Intersight eingeleitete Upgrade zeigt die Fehlermeldung an: "Fehler beim Anwenden des Profils HX-ESXi-7.0U2-17867351-Cisco-Custom-7.2.0.5" oder "CPU\_SUPPORT WARNUNG: Die CPU auf diesem Host wird in zukünftigen ESXi-Versionen möglicherweise nicht unterstützt. Bitte entsprechend planen".

Die zur Lösung dieses Problems erforderlichen Hyperflex Data Platform (HXDP)-Versionen sind:

HXDP 4.5(2a)

HXDP 4.5(1a)

HXDP 4.0(2f) und frühere Versionen, die ESXi 7.0 U2 unterstützen

### Problem

Upgrade-Versuch auf ESXi 7.0 U2 über HX Connect oder Intersight auf Servern mit älteren CPU-Generationen, insbesondere den Prozessoren Sandy Bridge-EP (E5-2600), Ivy Bridge-EP (E5-2600v2) und Haswell EP (E5-2600v3). Vollständige Details zu den von dieser Kompatibilitätsprüfung betroffenen Prozessoren finden Sie in der VMware-<u>Wissensdatenbank.</u>

| $\leftrightarrow$ $\rightarrow$ C $\blacktriangle$ Not se | ecure /#/clusters/1/upgrade?upgradeType=CLUSTER_UPGRADE_HXDP_AND_HYPERVISOR   | ् 🖈 😩 🗄 |
|---|---|---------|
| ≡ <sup>altrafic</sup> HyperFlex Connect                   | -a  |         |
| 🕑 Dashboard   | Errors found during upgrade   |         |
| MONITOR   | Upgraded 0 of 3 total nodes   |         |
| Alarms  | <ul> <li>Collapse All</li> </ul>  |         |
| 😭 Events  | → UCS  ✓ Running Cluster Pre Upgrade Tesks  |         |
| Activity  | Succeeded   |         |
| ANALYZE   | A UCS-  |         |
| PROTECT   | UCS-     Copying and Extracting Upgrade Package(s)     Added  |         |
| MANAGE  | A UCS Upgrading hypervisor  |         |
| E System Information                                      | Tailed ESRi upgrade failed on host 10.104.0.66. Failed to apply profile POLESS0-7.0U2-17867351-Cisco-Custom-7.2.0.5 |         |
| Datastores  | <ul> <li>Copying and Extracting Upgrade Packaget(s)</li> </ul>  |         |
| ि iscsi   | ✓ Checking Cluster readiness  |         |
| Virtual Machines  | ✓ Upgrading Storage Node  |         |
| 1 Upgrade   | ✓ Relinquish node   |         |
| > web CLI   | Running Post Relinquish Node Tasks  |         |
| A Kuberneter  | Viaiting for Datastores to be Accessible on the Node  |         |
| • Nubernetes  | Externing Lusser hope into maintenance mode     Develop Dest Externible Maintenance Mode Tester                     |         |
|   | <ul> <li>Merining mass since i novi merinemet 8/0000 EBID</li> </ul>  |         |
|   |   |         |

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

#### HX-Verbindungsfehlermeldung

| =   | cisco Intersight                | Requests > Upgrade HyperFlex Cluster > Update node u     | <b>cs</b> Ω <mark>□</mark> 54 ▲ 36 ⊡ ⊂, ⊘ ⊙   |                          |
|-----|---------------------------------|--|---|--------------------------|
| 080 | MONITOR                         | Details  | Execution Flow  |                          |
| ø   | OPERATE ^                       | Status E Failed  | uce_main Update Host OS     Jul 12,:  |                          |
|     | Servers                         | Name Update node ucs                                     | Node upgrade faile: Failed task - Failed to Upgrade Hyperviso: Failure reason – Failed to Upgrade Hyperviso; Fairdware(Ench) Hardware precheck of prefit<br>7.022-1767351:Cisco-2uston-72.0.5:failed with varinging: <e (reasea.="" be="" cpu="" cpu_supportv="" future="" host="" in="" marning:="" may="" not="" pl<br="" sdx="" supported="" the="" this="">accordingly-in n Apply – no-hardware-warning option to ignore the warnings and proceed with the transaction.n Please refer to the log file for more details.</e> | e HX-ESXI-<br>lease plan |
|     | Chassis<br>Fabric Interconnects | Target Type HyperFlex Cluster Node                       | 📀 ucs 11: Update Vibs Jul 13;   |                          |
|     | HyperFlex Clusters              | Target Name ucs<br>Source Type HyperFlex Cluster Profile | ⊘ ucs- 1: Enter Host Maintenance Mode Jul 13.   |                          |
| ×   | CONFIGURE ^                     | Source Name ucs _cluster                                 | ⊘ ucs Validate DRS is Enabled and Fully Automated Jul 13.1  |                          |
|     | Profiles                        | Initiator<br>Start Time Jul 13, 2021 11:09 PM            | Sucs 1: Run Post Node Relinquish Task   |                          |
|     | Templates                       | End Time Jul 13, 2021 11:35 PM                           | ⊘ ucs-■1: Upgrade HXDP Jul 18:  |                          |
|     | Policies                        | Duration 26 m 11 s                                       | O ucs- 1: Enter HXDP Maintenance Mode Jul 18,   |                          |
| ē   | ADMIN                           | Organizations default                                    | ucs     I: Collect Preconditions for Upgrade     Jul 13,:   |                          |
|     | Targets                         |  |   |                          |
|     | Software Repository             |  |   |                          |

### Lösung

#### Szenario A. Kombiniertes HXDP- und ESXi-Upgrade von der HX Connect-Benutzeroberfläche

In diesem Szenario aktualisieren Sie HXDP auf 4.5(2a) und ESXi auf 7.0 U2 Build 17867351.

Schritt 1: Führen Sie zuerst ein Upgrade auf HXDP durch.

Schritt 1.1. Laden Sie das HXDP-Paket über

https://software.cisco.com/download/home/286305544/type/286305994/release/4.5(2a) herunter, wie im Bild gezeigt:

| ← → C  a software.cisco.com/download/home/286305544/type/286305994/release/4.5(2a) |   |   |  |  |  |  |
|--|---|---|--|--|--|--|
| Downloads Home / Hyperconverged Infra  | structure / HyperFlex HX Data Platform / HyperFlex HX Data Platform- 4.5  | 5(2a)   |  |  |  |  |
| Q Search<br>Expand All Collapse All<br>Suggested Release                           | HyperFlex HX Data Platform<br>Release 4.5(2a)<br>My Notifications   | Related Link<br>Recommended S<br>Release Note for | s and Documentation<br>oftware Releases<br>4.5(2a) |  |  |  |
| Latest Release   | Cisco strongly recommends following the Cisco HyperFlex version for your HX-Series System.                                      | Recommended Softw                                 | are Release Page to select the b                   |  |  |  |
| 4.0(2f) 😒  | File Information  | Release Date                                      | Size   |  |  |  |
| 3.5(2i)  | Cisco HyperFlex Data Platform Installer for VMware ESXi<br>Cisco-HX-Data-Platform-Installer-v4.5.2a-39429-esx.ova<br>Advisories | 30-Jun-2021                                       | 3528.53 MB   |  |  |  |
| 2.6(1e)  |   |   |  |  |  |  |

Schritt 1.2. Öffnen Sie die HX-Connect, wählen Sie Upgrade, aktivieren Sie das Kontrollkästchen HX Data Platform, laden Sie das Paket hoch, geben Sie den Benutzernamen und das Admin-Kennwort für vCenter-Anmeldeinformationen ein, und klicken Sie auf Upgrade, wie in der Abbildung gezeigt:

| $\leftarrow \   \rightarrow \   G$ | A https://10     98/#/clusters/1/upgrade?upgradeType=CLUSTER_UPGRADE_HXDP  | 67% 🟠 🖂 🗏   |
|------------------------------------|--|---|
| ≡ sco HyperFlex Connect            | UC -CL   | ♀▲ı│ ੈ │ ♥¹│ ⊘│ ♡│ ¿  |
| ⑦ Dashboard                        | CLUSTER UPGRADE ELIGIBILITY<br>No Results  |   |
| MONITOR                            |  | Test Upgrade Eligibility  |
| Alarms                             |  |   |
| 合 Events                           | Select Upgrade Type  | Progress  |
| Activity                           | arrier abbiant i ba  | 1100.000  |
| ANALYZE                            | UCS Server Firmware  |   |
| Performance                        | ☑ HX Data Platform   |   |
| PROTECT                            |  |   |
| C Replication                      | storfs-packages-4.5.2a-39429 file is uploaded  |   |
| MANAGE                             |  |   |
| E System Information               | Current HXDP version(4.5.2a-39429) Current dutter details Current AXDP version(4.5.2a-39429) Current dutter details Current dutter details | rent Catalog Version: Version(4.3.2-39429) Current Catalog details Bundle version: 4.3.2a-39429 |
| Datastores                         |  |   |
| ि ।ऽ८ऽ।                            | ESXI   |   |
| Virtual Machines                   | Secure Boot mode ()  |   |
| T Upgrade                          |  |   |
| >_ Web CLI                         | vCenter Credentials Username Admin password  |   |
| Kubernetes                         | administrator@vghere.local   | •   |
|                                    |  |   |

#### HX-Connect-Upgrade HXDP

Fahren Sie nach Abschluss des Upgrades mit Schritt 2 fort.

Schritt 2. Öffnen Sie die HX Connect, wählen Sie **Systeminformationen > Knoten**, wählen Sie den Knoten, auf dem Sie ESX aktualisieren möchten, und klicken Sie auf **HX-Wartungsmodus eingeben**, wie in den Bildern dargestellt.

| ← → C /                   | Not secure   10. 98/#       |                             |                    |                             |                          |                    |            | २ 🖈 🛔 😩 :                                    |
|---------------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|--------------------------|--------------------|------------|--|
| = the Hyperflex Connect   |                             |                             | UC                 | a                           |                          |                    |            | 4 <b>▲1   11   0   0   4</b>                 |
| Deshboard     Monitoli    | System Overview Nodes Disks | Mode                        |                    |                             |                          |                    |            | Less vehicles at 57/06/2021 12/44/39 R/2 - O |
| Aarms<br>1 Evencs         | Node ^ Hypervisor Address   | Hypervisor Status<br>Online | Controller Address | Controller Status<br>Online | Model<br>10(2200-M45     | Version<br>4.5(2a) | Disks<br>8 | Command Line Mode                            |
| ANALYZI                   | 220 10 65<br>221 10 66      | Online                      | 10 169<br>10 70    | Online                      | H0220C-M45<br>H0220C-M45 | 4.5(2e)<br>4.5(2e) | 8          | Root shell ①                                 |
| PROTECT                   | 1-3 of 3                    |                             |                    |                             |                          |                    |            |  |
| MANAGE System Information |                             |                             |                    |                             |                          |                    |            |  |
| E Datastores              |                             |                             |                    |                             |                          |                    |            |  |
| Upgrade  Web CU           |                             |                             |                    |                             |                          |                    |            |  |
| Kubernetes                |                             |                             |                    |                             |                          |                    |            |  |
|                           |                             |                             |                    |                             |                          |                    |            |  |
|                           |                             |                             |                    |                             |                          |                    |            |  |

#### HX-Verbindungsknoten

| ← → C 🔺  | Not secure      | e 10   |                   |   |
|--|-----------------|--|-------------------|---|
| = the Hyperflex Connect  |                 |  |                   | uc -ci  |
| Deshboerd     MONITOR  | System Overview | Nodes Disks<br>enance Mode G Exit HX Maintenance | e Mode            | Confirm HX Maintenance Mode 🔿 💿   |
| Alarms   | Node            | Hypervisor Address                               | Hypervisor Status | Co Itus Model Version Disks   |
| 1 Activity   | -219            | 10. 1.64   | Online            | 10 HX220CAM5 4.5(2a) 8  |
| ANALYZE  | -220            | 10. 65   | Online            | HX Mainteenance Mode ensures that the ensite HX20C4M45 HX20A HX |
| La Performance   | -221            | 10. 1.66   | Online            | 10 A host in Maintenance Mode is enabled but does not H0/220CM45 4.5(2e) 8 exchamate Mortine on view all matching including   |
| PROTECT  | 1 - 3 of 3      |  |                   | Virtual machine provident result resoluting<br>virtual machine providening. Virtual machines<br>running on the hose entering Mainteenance Mode may<br>need to be powered off or migrated manually to<br>different hors. The Enter HKI Mainteenane mode task   |
| MANAGE System Information System Information States |                 |  |                   | obel no complete, unit all moning virtual machines<br>are powered off in migrated.<br>Do you want to pus the selected host in HK<br>Maintenance Mode?<br>Cancel Enter HK Maintenance Mode   |
|  |                 |  |                   |   |

Popup für Wartungsmodus für HX-Verbindung

Sie können die abgeschlossene Aktivität auf der Registerkarte **Aktivität** sehen, wie in der Abbildung dargestellt:

| ← → C /                  | Not secure   10. 98/#/clusters/1/activity  |                                       |   | Q         | ☆            | *            |           |
|--------------------------|--|---------------------------------------|---|-----------|--------------|--------------|-----------|
| = text Hyperflex Connect |  | uc -a.                                |   | 0 🔺 1     |              | 00 1         | 0         |
| ① Deshboard              | Filter Filter Isted tasks  |                                       |   |           |              |              |           |
| MONITOR<br>Alerms        | Activity @Monitor progress of recent tasks on the HK storage cluster.            |                                       |   | Lettrafte | ened es 07.0 | 08/2021 12-4 | 49-20 914 |
| ☆ Events                 | <ul> <li>Colapse All</li> </ul>  |                                       |   |           |              |              |           |
| Activity                 | Validate enter maintenance mode for node -219                                    |                                       |   |           |              |              |           |
| ANALYZE                  | Status: Success<br>07/08/2021 12:48:45 PM  | Recalled seeks check                  | Croser maintenance mode task is not running for other nodes and for other size nodes in stretch cluster   |           |              |              |           |
| an Performance           |  | vCenter availability check            | <ul> <li>Character should be registered with cCenter</li> </ul>   |           |              |              |           |
| PROTECT                  |  | vCenter reachability check            | ✓ «Center is reachable from «Center   |           |              |              |           |
| 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 Mgration is enabled in all nodes</li> </ul>   |           |              |              |           |
| System Information       |  | Ouster health check                   | 🖌 - Alow maintenance mode only for healthy dutter   |           |              |              |           |
| E Detastores             |  | Nodes availability check              | <ul> <li>Check number of nodes available to submate this node into maintenance mode</li> </ul>  |           |              |              |           |
| 6 659                    |  |                                       |   |           |              |              |           |
| Virtual Machines         | <ul> <li>Encer maintenance mode for node 219</li> <li>Status: Success</li> </ul> |                                       |   |           |              |              | -         |
| T Upgrade                | 07/08/2021 12:48:45 PM   | Erter Martenance Mode                 | <ul> <li>Validate enter maintenance mode for node us: 219</li> <li>Parallel (asks check: Enter maintenance mode lask is not numing for other nodes and for other site nodes in stretch cluster</li> </ul> |           |              |              |           |
| >_ Web CU                |  |                                       | <ul> <li>VCenter availability check. Dutter should be registered with vCenter</li> <li>vCenter reachability check: vCenter is seachable from vCenter</li> </ul>   |           |              |              |           |
| Kubernetes               |  |                                       | <ul> <li>Maintenance mode state check, Check the node is not in maintenance mode</li> </ul>   |           |              |              |           |
|                          |  |                                       | <ul> <li>VM Ingrasse check. Check VM Ingrasses is enabled in all notes</li> <li>Custer health check Allow maintenance mode only far healthy cluster</li> </ul>  |           |              |              |           |
|                          |  |                                       | <ul> <li>Nodes availability sheck. Check number of nodes available to tuberate this node into maintenance mode</li> </ul>   |           |              |              |           |
|                          |  | Enter vCercer Mananunce mode          | Initiate the enter maintenance mode in vCenter  |           |              |              |           |
|                          |  | Wait for VM migration to be completed | VM engration will take time based on number of user VMs   |           |              |              |           |
|                          |  | Relinquish the node                   | Shutting down stock graceholy   |           |              |              |           |
|                          |  | Power of controller YM                | Powering off the controller VM  |           |              |              |           |
|                          |  | vCenter mantenance mode task          | <ul> <li>Waiting for maintenance mode task to be completed in vCerter</li> </ul>  |           |              |              |           |

Registerkarte "HX Connect-Aktivität"

Schritt 3: Secure Shell (SSHI) auf dem ESXi-Host im Wartungsmodus als Root platziert.

Schritt 4: Erstellen Sie einen Ordner, und laden Sie das ESXi-Paket in diesen hoch.

Schritt 4.1. Führen Sie den folgenden Befehl aus: mkdir /hxpatch

Schritt 4.2. Erstellen Sie eine RAM-Disk, um das Paket mit dem folgenden Befehl zu speichern: esxcli system visorfs ramdisk add -m 500 -M 500 -n hxpatch -t /hxpatch -p 0755.

Schritt 5: Laden Sie das ESXi-7.2.0.5-Paket von Cisco wie im Bild gezeigt mit dem Link <u>https://software.cisco.com/download/home/286305544/type/286305994/release/4.5(2a)</u> in ein lokales Repo herunter:



Schritt 5.1. Kopieren Sie das Paket aus dem lokalen repo in den Ordner **/hxpatch**. Im folgenden Beispiel wird WinSCP verwendet:

| Local Mark Files Commands Session Options Rem                                  | ote Help   |  |  |  |           |                                |                     |               |
|--|--|--|--|--|-----------|--------------------------------|---------------------|---------------|
| 🕀 🔀 🔯 Synchronize 🛛 🐺 💽 🛞 📦 Queue  | <ul> <li>Transfer</li> </ul>   | Settings Default   | • <i>ฮ</i> •   |  |           |                                |                     |               |
| 🖵 root@1( 65 × 🖳 New Session   |  |  |  |  |           |                                |                     |               |
| 🖹 My documents 🔹 🚰 • 🕎 •  🖬 🕥 🏠 🎜 🍡  | $\left[ \left\langle \varphi \right\rangle + \left\langle \varphi \right\rangle \right\rangle$ |  |  | 📕 hxpatch 🔹 🚰 • 🛐  | - 🖬 🗖     | 🏠 🎜 🖻 🕅 Find Files             | <b>→</b> • • •      |               |
| 📓 Upload 🔹 📝 Edit 🔹 🗶 📝 😡 Properties  🖆  | New - 主  | A  |  | Download 🔹 📝 Edi   | t - X 🕅 🛛 | Properties 📔 New -             | * - 🗸               |               |
| C:\Users\admin\Documents\  |  |  |  | /hxpatch/  |           |                                |                     |               |
| Name Image: MobaXterm MobaXterm HX-ESXI-7.0U2-17867351-Cisco-Custom-7.2.0.5-up | Size<br>2 KB<br>13 KB<br>12 KB<br>382,244 KB<br>6 KB<br>1 KB<br>59 KB                          | Type<br>Parent directory<br>File folder<br>Windows Power<br>Text Document<br>Compressed (zi<br>PY File<br>TGZ File | Changed<br>7/7/2021 12:10:48 PM<br>7/7/2021 7:29:03 PM<br>12/10/2020 11:49:46 PM<br>Uploading<br>File: HX-ESXI-7.0U2<br>Target: /hxpatch/<br>Time left: Calcu<br>Bytes transferred: 13 | Name Name Reference Name Reference R | Size      | Changed<br>7/8/2021 1:19:04 PM | Rights<br>rwxr-xr-x | Owner<br>root |
|  |  |  |  |  |           |                                |                     |               |

Schritt 6: SSH wieder in den Host im Wartungsmodus.

Schritt 7. Führen Sie diesen Befehl aus, um die Paketprofildetails anzuzeigen: **esscli software sources profile list —depot=/hxpatch/HX-ESXi-7.0U2-17867351-Cisco-Custom-7.2.0.5-upgrade-bundle.zip** wie im Bild gezeigt:

| [root@220:/hxpatch] esxcli software sou     | rces 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]                         |           |                  |                       |                 |

Schritt 8: Führen Sie diesen Befehl aus, um das ESXi-Paket auf Version 7.0 U2 zu aktualisieren:

```
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
```

Schritt 9: Starten Sie den Host neu.

Schritt 10. SSH in den Host und überprüfen Sie die Version mit dem folgenden Befehl: 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:~]
```

Schritt 11: Beenden Sie den Knoten aus dem Wartungsmodus, und warten Sie, bis der Cluster fehlerfrei ist.

Schritt 11.1. Öffnen Sie HX-Connect, wählen Sie **Systeminformationen> Knoten**, wählen Sie den Knoten im Wartungsmodus aus, und klicken Sie auf **HX-Wartungsmodus beenden**, wie in den Abbildungen dargestellt:



#### HX-Verbindungsknoten

| ← → C /  | Not secure   1  | 10. 98/#  |   |                                      |                                       |   |                                       |                 | Q  | ¢ 🛪                                   | <b>a</b> : |
|--|---|---|---|--------------------------------------|---------------------------------------|---|---------------------------------------|-----------------|--|---------------------------------------|------------|
| = the Hyperflex Connect  |   |   |   | uc -a                                |                                       |   |                                       |                 | ٩  | <b>4</b> 1   M                        | 0 0 4      |
| © Deshoerd<br>Noxitok  | System Overview Nod<br>C Enter HX Maintenance H<br>Node ^ Hyg<br>219 10<br>220 10<br>221 10 | es Disks<br>Mode © Exit HS Maintenance Mode<br>perviser Address<br>64<br>65<br>66 | Hypervisor Status<br>Online<br>Online<br>Online | Controller Address<br>10 60<br>12 70 | Controller Status<br>Online<br>Online | Model<br>H0220C4M45<br>H0220C4M45<br>H0220C4M45 | Version<br>45(2a)<br>45(2a)<br>45(2a) | Disks<br>8<br>8 | Command Line<br>Command Line<br>Root shell ①<br>Root shell ①<br>Root shell ① | wres et 0°-08-200<br>3⊻ Fiber<br>Mode | 1124453 PV |
| Papicacon MANAGE  Specen Information  Specen Information  Specen Information  Specen Information  Tupprote  Number Automation  Number Automation | 1-3073  |   |   |                                      |                                       |   |                                       |                 |  |                                       |            |
|  |   |   |   |                                      |                                       |   |                                       |                 |  |                                       |            |

HX-Verbindung Ausgang MM

Schritt 11.2: Im HX Connect Dashboard wird der Betriebsstatus angezeigt. Es muss sich um den Status "**Online"** und der Ausfallsicherheitsstatus auf "**Gesund"** handeln.

| ≡ <sup>allada</sup> HyperFlex Connect |                                     | and the second s | Q 💼 🗎 💷 O 🛆 🕰                                   |
|---------------------------------------|-------------------------------------|--|---|
| Dashboard                             | OPERATIONAL STATUS<br>Online ©      | <ul> <li>Cluster</li> </ul>  | License not registered                          |
| Alarms                                | -∕∕⊷ RESILIENCY HEALTH<br>Healthy ⊙ | ✓ 1 Node   | failure can be tolerated                        |
| Activity                              | CAPACITY<br>6 TB                    | 1.2%         STORAGE           71.2 GB Used         6 TB Free         OPTIMIZATH   | ION (77.0%) Compression 77%<br>Deduplication 0% |

Schritt 12. Wiederholen Sie die Schritte 2-11 für alle Knoten, die Teil des Clusters sind, einzeln.

Nach Abschluss des ESXi-Upgrades können Sie die Versionsdetails auf der KVM-Konsole (Keyboard, Video, Mouse) des HX-Servers sehen, wie in der Abbildung dargestellt:

| CISCO UCS KVM          |   |  |  |  |  |  |  |
|------------------------|---|--|--|--|--|--|--|
| KVM Console Properties |   |  |  |  |  |  |  |
| 1                      |   |  |  |  |  |  |  |
|                        | Whene ESXI 7.0.2 (WWKernel Release Build 17067351)                |  |  |  |  |  |  |
|                        | Cisco Systems Inc 10220C-MIS                                      |  |  |  |  |  |  |
|                        | 2 x Intel(R) Xeon(R) CPU E5-2680 v3 # 2.50GHz<br>303.9 G18 Memory |  |  |  |  |  |  |
|                        |   |  |  |  |  |  |  |
|                        |   |  |  |  |  |  |  |
|                        |   |  |  |  |  |  |  |
|                        |   |  |  |  |  |  |  |

Sie können in HX Connect auch überprüfen, ob die neue ESXi-Version auf der Registerkarte **Systeminformationen** vorhanden ist, wie im Bild gezeigt:

| $\leftarrow$ | $\rightarrow$ ( | C                 |   | https://10.98////clusters/1 | /servers?tab={"id":"Server"," | index":0}            |                  |              | ☆   |           | $\bigtriangledown$ | = |
|--------------|-----------------|-------------------|---|-----------------------------|-------------------------------|----------------------|------------------|--------------|-----|-----------|--------------------|---|
| =            | <br>cisco       | HyperFlex Connect |   |                             | UC                            | -CL                  |                  | 🗘 🔺 1        | Ê   | ۲         | 0                  | ھ |
| 0            | Dashb           | poard             | ^ | Hyperconverged Nodes        |                               |                      | Disk Vi          | ew Options 🗸 | Dis | k View Le | gend               |   |
| 0            | 000110          |                   |   | Node                        | Hypervisor                    | HyperFlex Controller | Disk Overview (8 | n use )      |     |           |                    |   |
| MON          | NITOR           |                   |   | -219                        | 🕗 Online                      | 🕗 Online             | 1 2 3 4 5 6      |              |     |           |                    |   |
| Q            | Alarm           | s                 |   | HX220C-M4S                  | 10. 64                        | 10                   |                  |              |     |           |                    |   |
| ជ្           | Events          | s                 |   |                             | 6.7.0-17499825                | 4.5.2a-39429         | ¢ /              | _            |     |           |                    |   |
| Û            | Activit         | У                 |   |                             |                               |                      |                  |              |     |           |                    |   |
|              |                 |                   |   | Node                        | Hypervisor                    | HyperFlex Controller | Disk Overvlew (8 | n use )      |     |           |                    |   |
| ANA          | LYZE            |                   |   | -220                        | 🤣 Online                      | 🥝 Online             |                  |              |     |           |                    |   |
| lalı         | Perfor          | 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 | n use )      |     |           |                    |   |
| MAN          | IAGE            |                   |   | -221                        | 🥝 Online                      | 🥝 Online             |                  |              |     |           |                    |   |
| E            | Syster          | n Information     |   | HX220C-M4S                  | 1066                          | 1070                 |                  |              |     |           |                    |   |
| *            | Datas           | tores             | ~ |                             | 6.7.0-17499825                | 4.5.2a-39429         | <b>a</b> /       | _            |     |           |                    |   |

HX Connect aktualisiert Esxi

### Szenario B. Kombiniertes HXDP- und ESXi-Upgrade von Intersight

In diesem Szenario aktualisieren Sie von Intersight auf HXDP 4.5(2a) und ESXi auf 7.0 U2 Build 17867351.

Schritt 1: Wenn sich einer der HX-Server im Wartungsmodus befindet, starten Sie diesen Server über vCenter oder die UCS KVM-Konsole neu.

| ✓ 🗈 221_d        | Ic  | 😚 Deploy OVF Template      | Adapter                       |
|------------------|---|----------------------------|-------------------------------|
| ✓ [] 221         | L_cl                                      | 🗷 New Resource Pool        | el: USB Storage Controller    |
| •                | -219.eng.storvisor.com                    | P+                         | ♦ vmhba32                     |
| <b>!!</b>        | -220.eng.storvisor.com                    | ъй New VApp                | el: Wellsburg AHCI Controller |
|                  | -221.eng.storvisor.com (Maintenance Mode) | Import VMs                 | ♦ vmhba0                      |
| 🔂 stCt<br>🔂 stCt | :IVM-<br>IVM-                             | Maintenance Mode           | ▶                             |
| 🔂 stCt           | IVM-                                      | Connection                 | •                             |
|                  | -clone1                                   | Power                      | Power On                      |
| تی<br>گ          | -clone2                                   | Certificates               | Enter Standby Mode            |
| 8                | -clone3                                   | Storage                    | Shut Down                     |
| تن<br>1          | -clone5                                   | 🔮 Add Networking           | E Reboot                      |
| 3                | -clone6                                   | Host Profiles              | •                             |
| 3                | -clone7                                   | Evport System Logs         |                               |
| 3                | -clone8                                   | Export System Edgs         | -                             |
| 3                | -clone9                                   | Reconfigure for vSphere HA |                               |
| 8                | -VM                                       | ইং Assign License          |                               |

Schritt 2. Nachdem der Server neu gestartet wurde, beenden Sie den HX-Wartungsmodus über die HX Connect-Benutzeroberfläche. Öffnen Sie HX-Connect, wählen Sie **Systeminformationen > Knoten**, wählen Sie den Knoten im Wartungsmodus aus, und klicken Sie auf **HX-Wartungsmodus beenden**.

Schritt 3. Warten Sie einige Minuten, bis der Hyperflex-Cluster die Wiederherstellung abgeschlossen hat. Das HX Connect-**Dashboard** zeigt den Betriebsstatus an, es muss **online** sein, und der Ausfallsicherheitsstatus muss **fehlerfrei** angezeigt werden.

| ≡ <sup>altala</sup> HyperFlex Connect |                                | and the second s | 0 👘 🎒 💷 O 🕰  |
|---------------------------------------|--------------------------------|--|--|
| Dashboard                             | OPERATIONAL STATUS<br>Online ① | ٥  | Cluster License not registered                       |
| Alarms                                | RESILIENCY HEALTH              | ~  | 1 Node failure can be tolerated                      |
| Activity                              | CAPACITY<br>6 TB               | 1.2% ST<br>71.2 GB Used 6 TB Free OP   | ORAGE Compression 77%<br>TIMIZATION Deduplication 0% |

Schritt 4. Öffnen Sie Intersight, wählen Sie **Upgrade**, klicken Sie auf **Expert Mode > Upgrade HyperFlex Data Platform** wie in den Bildern gezeigt:

| ≡   | cisco Intersight     | OPERATE > HyperFlex Clusters                      | 0, 15 ≤ 35 🛛 🖓 🖓                      | 00                |
|-----|----------------------|---|---------------------------------------|-------------------|
| ele | MONITOR              | Clusters Backups                                  |                                       |                   |
| Ŷ   | OPERATE ^            |   |                                       |                   |
|     | Servers              | * All Clusters  +                                 |                                       |                   |
|     | Chassis              | ···· (2) 4 Add Filter                             | Export 1 items found 10 v per pag     | e 🗠 🔄 🔟 of        |
|     | Fabric Interconnects | Health Connection Storage Utilization Capacity Ru | anway Types                           | HyperFlex Version |
|     | HyperFlex Clusters   |   | * Unkno 1 1 * Hybrid 1                | · · · ·           |
| ×   | CONFIGURE ^          |   |                                       |                   |
|     | Profiles             | Name : Health : Type : Hyper : Storage Cap St     | tora : Storage Utilization Trend () : | Capacity_ O :     |
|     | Templates            | clust C Healthy HyperFlex _ 4.0(2f) 6.0           | 1.0% 0.0%                             |                   |
|     | Policies             | ··· 🧷 Selected 1 of 1 Show Selected Unselect All  |                                       | K < <u>1</u> of   |
|     | Pools                | Upgrade   |                                       |                   |
| Ð   | ADMIN ^              | Run Health Check                                  |                                       |                   |
|     | Targets              |   |                                       |                   |
|     | Software Repository  |   |                                       |                   |



| <u>01</u> 0 | MONITOR              | ⊡ Progress          | Step 2   |            |
|-------------|----------------------|---------------------|--|------------|
| θ           | OPERATE ^            |                     | Compatibility Check  |            |
|             | Servers              | Version Selection   | Ensure all clusters meet the upgrade requirement<br>If any cluster does not meet the pre-upgrade | 5.         |
|             | Chassis              | Computibility Check | requirements, unselect the cluster and continue t<br>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 Review all selections before startion the

| 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<br>two node clusters, the migration of VMs will be attempted automatically.<br>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<br>ensure that the upgrade can continue.   | ire ESXi 6.7.0 U3 (17499825) |
|   | Cancel   |                              |
|   |  |                              |
|   |  |                              |

Schritt 5. Sie können den Start und das Ende des Upgrades beobachten:

| =  | cisco Intersight     | Requests > Upgrade HyperFlex Cluster                           | 0 <b>5</b> 55   9   9   9                      | ۲ |
|----|----------------------|--|--|---|
| th | MONITOR              | Details  | Execution Plow                                 |   |
| Θ  | OPERATE ^            | Status © Success   | 🛇 🔜 220: Cleanup Tasks after upgrade           |   |
|    | Servers<br>Channin   | Name Upgrade HyperFlex Cluster<br>ID 60et36d8096/tis2d3071e9db | 🛇 🔜 219: Cleanup lasks after upgrade           |   |
|    | Fabric Interconnects | Target Type HyperFlex Cluster<br>ucs221_cluster                | 🗇 🔜 221: Cleanup Lasks after upgrade           |   |
|    | HyperFlex Clusters   | Target Name  | Running Cluster Post-Upgrade Hooks             |   |
| ×  | CONFIGURE ^          | 220<br>Source Type HyperFlex Cluster Profile                   | C 220: Update node View Execution Flow         |   |
|    | Profiles             | Source Namechuster   | C 211: Update node View Execution Flow         |   |
|    | Templates            | Initiator  | 221: Update mode View Execution Flow           |   |
|    | Policies             | Start Time Jul 14, 2021 12:11 PM                               |  |   |
|    | Pools                | Duration 1 h 59 m 25 s   | 220: Run Node Level Validations for Upgrade    |   |
| æ  | ADMIN ^              |  | 219: Run Node Level Validations for Upgrade    |   |
|    | Targets              | Organizations default  | C 221: Run Node Level Validations for Lipprode |   |
|    | Software Repository  |  | Run Validations for Upgrade                    |   |

Schritt 6: Starten Sie das ESXi-Upgrade für jeden Server. Kopieren Sie das ESXi 7.0 U2-Upgrade-Paket auf die ESXi-Hosts.

Schritt 6.1. Laden Sie das ESXi 7.0U2-Upgrade-Paket von Cisco über folgenden Link herunter: https://software.cisco.com/download/home/286305544/type/286305994/release/4.5(2a):



Schritt 6.2. Kopieren Sie auf jedem ESXi-Host das ESXi 7.0U2-Upgrade-Paket in ein verfügbares Datenspeicherverzeichnis (verwenden Sie Methoden wie scp, wget). Nach Abschluss dieses Vorgangs müssen Sie Folgendes sehen:

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

Schritt 7. Öffnen Sie die HX-Connect, wählen Sie **Systeminformationen > Knoten**, wählen Sie den Knoten, auf dem Sie Esxi aktualisieren möchten, und klicken Sie auf **HX-Wartungsmodus eingeben**, wie in den Bildern gezeigt:

| ← → C 🔺                                      | Not secure      | e 10  |                             |                    |                             |                     |                    |       | ର 🕁 🛸                                       | <b>1</b>  |
|--|-----------------|---|-----------------------------|--------------------|-----------------------------|---------------------|--------------------|-------|---|-----------|
| = the Hyperflex Connect                      |                 |   |                             | UC 4               | α                           |                     |                    |       | <b>₽</b> ▲1   M   ©                         | 0 0       |
| Deshboerd     MonitoR                        | System Overview | Nodes Disks<br>enance Mode G Exit HX Maintenance Mo | sde                         |                    |                             |                     |                    |       | Let rehered at 01-08-0021-124<br>© Y Ritter | 659.PV () |
| © Admis                                      | Node 219        | Hypervisor Address     10     64                    | Hypervisor Status<br>Online | Controller Address | Controller Status<br>Online | Model<br>H0220C4M45 | Version<br>4.5(28) | Disks | Command Line Mode                           |           |
| ANALYZE                                      | 220             | 10. 65<br>10 66                                     | Onine                       | 10 (69<br>10 70    | Online                      | H0220C4M45          | 4.5(2#)<br>4.5(2#) | 8     | Root shell ①                                |           |
| PROTECT                                      | 1-3of3          |   |                             |                    |                             |                     |                    |       |   |           |
| MANAGE<br>System Information                 |                 |   |                             |                    |                             |                     |                    |       |   |           |
| C SCSI                                       |                 |   |                             |                    |                             |                     |                    |       |   |           |
| <ul> <li>Upgrade</li> <li>Web CLI</li> </ul> |                 |   |                             |                    |                             |                     |                    |       |   |           |
| Kubernetes                                   |                 |   |                             |                    |                             |                     |                    |       |   |           |
|  |                 |   |                             |                    |                             |                     |                    |       |   |           |
|  |                 |   |                             |                    |                             |                     |                    |       |   |           |

#### HX-Verbindungsknoten



Sie können die abgeschlossene Aktivität auf der Registerkarte Aktivität sehen, wie in der Abbildung dargestellt:

| ← → C ▲                       | Not secure   10. 98/#/clusters/1/activity                            |                                       |   | Q            | ☆           | *           |        |
|-------------------------------|--|---------------------------------------|---|--------------|-------------|-------------|--------|
| = 📩 Hyperflex Connect         |  | uc -cı.                               |   | 0 41         |             | 00,1        | ⊙      |
| <ul> <li>Deshboard</li> </ul> | Filter Riter Isted tasks   |                                       |   |              |             |             |        |
| MONITOR<br>Q. Alerms          | Activity @Monitor progress of recent tasks on the HV storage Custer. |                                       |   | Last refresh | ed at 07:08 | 12021 12:45 | 20 911 |
| ☆ Events                      | ~ Collapse All   |                                       |   |              |             |             |        |
| Activity                      | Validate enter maintenance mode for node >219                        |                                       |   |              |             |             |        |
| ANALYZE                       | Status: Success<br>07/05/2021 12:48:45 PM                            | Farafet sales check                   | Driver maintenance mode task is not running for other nodes and for other site nodes in sizesch-cluster   |              |             |             |        |
| als Performance               |  | vCenter availability check            | <ul> <li>Custor should be registered with sCenter</li> </ul>  |              |             |             |        |
| PROTECT                       |  | vCenter reachability check            | <ul> <li>«Centerr is reactuable from «Center</li> </ul>   |              |             |             |        |
| Replication                   |  | Maintenance mode state theok          | <ul> <li>Check the node is not in maintenance mode</li> </ul>   |              |             |             |        |
| MANAGE                        |  | Wit Migration check                   | <ul> <li>Check-VM Mgration is, enabled in all nodes</li> </ul>  |              |             |             |        |
| System Information            |  | Ouster health check                   | <ul> <li>Allow maintenance mode only for healthy duster</li> </ul>  |              |             |             |        |
| E Datastores                  |  | Nodes availability check              | Check number of nodes available to solerate this node into maintenance mode   |              |             |             |        |
| 6; 15451                      | The state minimum matches and a 110                                  |                                       |   |              |             |             |        |
| Virtual Machines              | Status: Success  | Error Maintenance Musle               |   |              |             |             |        |
| Upgrade  Viveb CU  Kubernetes | 07080221124848 PM  |                                       | total faith f |              |             |             |        |
|                               |  | Enter vCenter Maintenance mode        | <ul> <li>Initiate the enter maintenance mode is vCenter</li> </ul>  |              |             |             |        |
|                               |  | Wait for VM migration to be completed | <ul> <li>With respection will take time based on number of user With</li> </ul>   |              |             |             |        |
|                               |  | Relinquish the node                   | <ul> <li>Shutting down stacks gracefully</li> </ul>   |              |             |             |        |
|                               |  | Power off controller VM               | <ul> <li>Powering off the constaler VM</li> </ul>   |              |             |             |        |
|                               |  | vCenter mansenance mode task          | <ul> <li>Wasting for mannenumer mode scales to be completed in offenser</li> </ul>  |              |             |             |        |

Schritt 8: SSH auf dem ESXi-Host, der sich im HX-Servicemodus befindet.

Schritt 8.1. Suchen Sie den Profilnamen des Upgrade-Pakets:

warning" aus:

```
[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
Schritt 8.2: Führen Sie den Befehl "upgrade" mit dem angegebenen Parameter "no-hardware-
```

[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

#### Schritt 8.3. Nach Abschluss des Upgrades wird eine Erfolgsmeldung angezeigt:

Update Result Message: The update completed successfully, but the system needs to be rebooted for the changes to be effective. Reboot Required: true Schritt 9: Starten Sie den Host neu.

Schritt 10: Melden Sie sich beim ESXi-Host an, und überprüfen Sie die neue Version mithilfe des folgenden Befehls: **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:~]

Schritt 11: Nachdem der Server neu gestartet wurde, beenden Sie den **HX-Wartungsmodus** über die HX Connect-Benutzeroberfläche. Öffnen Sie HX-Connect, wählen Sie **Systeminformationen > Knoten**, wählen Sie den Knoten im Wartungsmodus aus, und klicken Sie auf **HX-Wartungsmodus beenden**, wie in den Abbildern dargestellt:





| ← → C 🔺               | Not secure   10                                 |                   |                    |                   |             |         |       | ର୍ 🕁 🛸                        | 😩 E       |
|-----------------------|---|-------------------|--------------------|-------------------|-------------|---------|-------|-------------------------------|-----------|
| = 🚓 Hyperflex Connect |   |                   | UC                 | -a                |             |         |       | 0.▲1 M                        | 0 0 a     |
| O Deshboard           | System Overview Nodes Disks                     |                   |                    |                   |             |         |       | Last refreshed at \$7.08(202) | 124659.87 |
| MONITOR               | S Enter HX Maintenance Mode Stit HX Maintenance | Mode              |                    |                   |             |         |       | 10 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 60              | Online            | H0(220C-M45 | 4.5(2a) | 8     | Root shell ①                  |           |
| ANALYZI               | 220 10. 65                                      | Online            | 50 (69             | Online            | H0/220C-M45 | 4.5(2#) | 8     | Root shel ①                   |           |
| A Performance         | 221 10 66                                       | Online            | 10 70              | Online            | HX220C-M45  | 4.5(2a) | 8     | Root shell ①                  |           |
| PROTECT               | 1 - 3 of 3                                      |                   |                    |                   |             |         |       |                               |           |
| MANAGE                |   |                   |                    |                   |             |         |       |                               |           |
| System Information    |   |                   |                    |                   |             |         |       |                               |           |
| E Decestores          |   |                   |                    |                   |             |         |       |                               |           |
|                       |   |                   |                    |                   |             |         |       |                               |           |
| Upgrade               |   |                   |                    |                   |             |         |       |                               |           |
| >_ Web CU             |   |                   |                    |                   |             |         |       |                               |           |
| Kubernetes            |   |                   |                    |                   |             |         |       |                               |           |
|                       |   |                   |                    |                   |             |         |       |                               |           |
|                       |   |                   |                    |                   |             |         |       |                               |           |
|                       |   |                   |                    |                   |             |         |       |                               |           |
|                       |   |                   |                    |                   |             |         |       |                               |           |
|                       |   |                   |                    |                   |             |         |       |                               |           |
|                       |   |                   |                    |                   |             |         |       |                               |           |
|                       |   |                   |                    |                   |             |         |       |                               |           |
|                       |   |                   |                    |                   |             |         |       |                               |           |

#### HX Anschluss Ausgang MM

Schritt 12. Warten Sie einige Minuten, bis der HyperFlex-Cluster die Wiederherstellung abgeschlossen hat. Das HX Connect-**Dashboard** zeigt den Betriebsstatus an. Es muss sich um "**Online" handeln,** und der Ausfallsicherheitsstatus muss "**Gesund"** aufweisen.

| ≡ <sup>altala</sup> HyperFlex Connect |                                |  | Q 💼 😭 💷 Q 📀 A                                  |   |
|---------------------------------------|--------------------------------|--|--|---|
| ⑦ Dashboard                           | OPERATIONAL STATUS<br>Online © | ① Cluster L  | License not registered                         | 1 |
| Alarms                                |                                | 🗸 1 Node fi  | failure can be tolerated                       |   |
| Activity                              | CAPACITY<br>6 TB               | 1.2% STORAGE<br>71.2 GB Used 6 TB Free OPTIMIZATIO | 2N (77,0%) Compression 77%<br>Deduplication 0% |   |
| AMALV2E                               |                                |  |  |   |

Schritt 13: Wiederholen Sie die Schritte 6.-12. für jeden ESXi-Host 1. Stellen Sie sicher, dass der Cluster-Status **fehlerfrei** angezeigt wird, bevor Sie zum nächsten Knoten wechseln.

#### Informationen zu dieser Übersetzung

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