Configurer UCS-M2-HWRAID sur les serveurs lames UCS

Contenu

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Introduction

Ce document décrit comment configurer Unified Computing System (UCS)-M2-HWRAID afin qu'un système d'exploitation puisse utiliser les disques pour le stockage ou comme disques amorçables.

Conditions préalables

Conditions requises

Cisco vous recommande de prendre connaissance des rubriques suivantes :

- Serveur UCS M5
- UCSM 3.2.2b ou supérieur
- Système d'exploitation compatible en mode UEFI (les minimums suivants) CentOS 7.6ESXi 6,5U2RHEL 7.6WinServer 2016 WinServer 2019Plus: <u>Compatibilité matérielle et logicielle</u> <u>UCS</u> Adaptateurs > RAID > Cisco Boot Optimized M.2 HW Raid Controller (Cisco)

Components Used

Les informations contenues dans ce document sont basées sur les versions de matériel et de logiciel suivantes :

- UCS-M2-HWRAID
- 2 disques m.2 du même modèle et de la même capacité

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. Si votre réseau est en ligne, assurez-vous de bien comprendre l'incidence possible des commandes.

Informations générales

L'UCS-M2-HWRAID contient deux manettes m.2 ; un de chaque côté du support. Les systèmes UCS-M2-HWRAID et UCS-MSTOR-M2 sont similaires, mais dans cet exemple de configuration, le RAID matériel nécessite un contrôleur UCS-M2-HWRAID.

Configuration

Vérifier l'état actuel

1. Vérifiez que les pièces nécessaires figurent dans l'inventaire du serveur.

```
Dans UCSM, accédez à Équipement > Châssis x > Serveurs > Serveur x.
```

Sélectionnez l'onglet **Inventaire** en haut, **Carte mère**. Sélectionnez **Mini Stockage**. Assurez-vous que votre modèle s'affiche sous la forme **UCS-M2-HWRAID** comme indiqué dans cette image.

Mini St	torage						
mini-storage	mini-storage-M2-1						
ID	: 1						
Model	: UCS-M2-HWRAID						
Туре	: M2						
Vendor	: Cisco Systems Inc						
Revision	: 0						
Serial	: FCH23327KSH						
VID	: V01						
Part Numb	er: 73-19532-05						
Product Na	ame : Cisco boot optimized M.2 Raid controller						
Caption	: Cisco boot optimized M.2 Raid controller						
Description	Cisco boot optimized M.2 Hardware Raid controller with two SATA slots						

2. Vérifiez que deux lecteurs m.2 sont installés et détectés.

Accédez à Stock > Stockage > Disques.

Dans la liste déroulante, sélectionnez Storage Controller Sata 1.

Vérifiez que deux disques m.2 (253 et 254) sont présentés et qu'ils sont en état de fonctionnement. Sur M6, les deux disques m.2 seront 245 et 246. L'état du lecteur peut différer.

ж	All	Equipment / Chassis / Ch	assis 1 / Servers /	Server 6						
•	✓ Equipment	General Inventory	Virtual Machines	Installed Firmware C	IMC Sessions SEL Logs	VIF Paths Health Diagnos	tics Faults Events	FSM Statistics	Temperatures Power	
-		Motherboard CIMC	CPUs GPUs	Memory Adapters	HBAs NICs ISCSI	NICs Security Storage	Persistent Memory			
æ	🕶 Chassis 1 🦁	Controller 11810	Dista County							
	 Fans 	Controller LUNS	Disks Security							
Ξ.	 IO Modules 	+ - Ty Advanced Filte	er 🔶 Export 🖷 Pr	int						¢
	 PSUs 	Name	Size (MB)	Serial	Operability	Drive State	Presence	Technology	Bootable	
	▼ Servers	Storage Controller PC.								
_	 Server 2 	Storage Controller SA.								
	 Server 3 	Clarace Controller CA								
	Server 4	Pionage controller SA								
	 Coever E 	Disk 253	228936	17	8 Operable	Jbod	Equipped	SSD	False	
	 Jerver u 	Disk 254	228936	17	Operable	Jbod	Equipped	SSD	False	
10	 Server 6 😳 									

3. Recherchez les LUN orphelins.

Accédez à Inventaire> Stockage> LUN.

Vérifiez s'il existe une flèche de liste déroulante pour **le contrôleur de stockage SATA 1**. Sinon, il n'y a pas de LUN orphelin.

Si vous voyez un LUN orphelin, passez à la section Dépannage en bas avant de commencer la configuration.



Configuration de la configuration du stockage

1. Tout d'abord, vous devez définir une politique de stockage. Naviguez **Storage > Storage Policies > Add** comme indiqué dans l'image.



Storage / Storage Policies

Disk Group Policies

+ - 🔶 Export 🖷 Print

 \oplus Add

Dans la fenêtre Créer une stratégie de groupe de disques :

- Entrez un nom
- Description (facultatif)
- Niveau RAID RAID1 Mirrored est utilisé dans ce guide et constitue l'option la plus sûre.
- Sélectionnez la case d'option Configuration du groupe de disques Manual.

Create Disk Group Policy

Name :	m.2_raid1				
Description :	Raid1 group policy for m2. drives				
RAID Level :	RAID 1 Mirrored				
O Disk Group	Configuration (Automatic) 💿 Disk Gro	up Configuration (Manual)			
Disk Group	Configuration (Manual)				
Te Advance	ed Filter 🔺 Export 🖷 Print				¢
Slot Numbe	er	Role		Span ID	
		No da	ata available		
		(+) Add			
Virtual Drive	e Configuration				
Strip Size (KB) : Platform Default	v .			
Access Pol	licy : Platform Default O Read	Write ORead Only OBlocked			
					OK Cancel

Cliquez sur le bouton Ajouter dans la zone Configuration du groupe de disques (manuel).

Cette opération ouvre une nouvelle fenêtre Créer une référence de configuration de disque local.

- Le numéro de logement peut être défini sur 253 (ID du premier m.2). Cette valeur peut être vérifiée dans les conditions préalables)
- Le rôle doit être Normal
- Laissez l'ID Span comme non spécifié

Cliquez sur **OK** comme indiqué dans cette image.

Create Disk Group Polic	су	? ×
Name : m.2_raid1		
Description : Raid1 group policy for n	n2. drives	
RAID Level : RAID 1 Mirrored	¥.	
O Disk Group Configuration (Automatic) Disk Group Configuration (Manual)	Create Local Disk Configuration Reference ? \times	
🍢 Advanced Filter 🔺 Export 🚔 Prin	Slot Number : 253 [1-254]	¢
Slot Number	Role : Normal O Dedicated Hot Spare O Global Hot Spare	
253	Span ID : unspecified [0-8]	
Virtual Drive Configuration		
Strip Size (KB) : Platform Default	Y	
Access Policy : Platform Defa	ult 🔿 Read Write 🔿 Read Only 🔿 Blocked	
	ОКС	ancel

Répétez la dernière étape pour l'autre disque, mais utilisez le numéro de logement **254** comme illustré dans cette image.

Create Disk Group Polic	су	? ×
Name : m.2_raid1 Description : Raid1 group policy for r RAID Level : RAID 1 Mirrored O Disk Group Configuration (Automatic) Disk Group Configuration (Manual)	m2. drives T Create Local Disk Configuration Reference	
Advanced Filter Export Print Slot Number 253 254	Slot Number : 254 Role : Normal Dedicated Hot Spare Global Hot Spare Span ID : unspecified [0-8] OK Cancel	*
Virtual Drive Configuration Strip Size (KB) : Platform Default	T	-
Access Policy : Platform Defa	Ault O Read Write O Read Only O Blocked	el

Votre stratégie de disque doit maintenant ressembler à ceci :

Create Di	sk Group Policy			? ×
Name : n	n.2_raid1			1
Description : R	aid1 group policy for m2. drives			
RAID Level : R	AID 1 Mirrored			
Disk Group Co	onfiguration (Automatic)	uration (Manual)		
Te Advanced Fi	iter 🛧 Export 🚔 Print			≎
Slot Number		Role	Span ID	_
253		Normal	Unspecified	_
254		Normal	Unspecified	
		(+) Add () Delete () Info		
Virtual Drive C	onfiguration			
Strip Size (KB)	: Platform Default			
Access Policy	: Platform Default Read Write	Read Only OBlocked		
			ОК С	ancel

2. Créez un profil de stockage.

Accédez à **Stockage > Profils de stockage > Créer un profil de stockage** comme indiqué dans cette image.



Une fenêtre Créer un profil de stockage s'ouvre et demande :

- Name : Entrez un nom logique
- Description (facultatif)
- Cliquez sur le bouton Ajouter comme indiqué dans cette image.

Create Storage Profile

Name :	m.2_raid1					
		0.114.1				
Description :	Profile for m.	2 raid1 storage				
LUNS						
Local LUN	s LUN Set	Controller De	efinitions Security Po	blicy		
Te Advanced	Filter 🔶 Exp	ort 📑 Print				₽
Name		Size (GB)	Order		Fractional Size (MB)	
			No data available			
		Œ) Add 📋 Delete 🍈 Inf	fo		
					OK Cance	el)

? ×

Dans la fenêtre Créer une LUN locale :

- Sélectionnez la case d'option Créer une LUN locale
- Donnez un nom au LUN (j'ai utilisé m.2)
- Définir la taille sur 1
- Définir la taille fractionnelle 0
- Sélectionnez si vous souhaitez que le LUN soit automatiquement déployé (si vous sélectionnez non, vous devez activer manuellement le LUN sur chaque profil de service).
- Cochez la case Développer à disponible
- Sélectionnez la configuration du groupe de disques précédemment créée
- Cliquez sur OK comme indiqué dans cette image.

UNs config hared amo	^{ng n} Create Stora	age Profile	and can be dedicated to a sna	? ×
Ising Store	Are I Name : m.2 Create Local L Name Size (GB) Fractional Size (MB) Auto Deploy Expand To Available Select Disk Group Config	raid1 UN Create Local LUN Prep : m.2 : 1 : 0 : Auto Deploy No : Constant Set No :	are Claim Local LUN [0-245760] Auto Deploy Create Disk Group Policy	? X
				OK Cancel

Votre profil de stockage doit maintenant ressembler à ceci :

Create S	Create Storage Profile							
Name : Description : LUNs	m.2_raid1 Profile for m.2 raid1 storage							
Local LUN	s LUN Set Controller Defi	nitions Security Policy						
▼ Advanced	l Filter 🔺 Export 🚔 Print		\$					
Name	Size (GB)	Order	Fractional Size (MB)					
m.2	1	Not Applicable	0					
	\oplus /	Add 💼 Delete 📵 Info						
			OK Cancel					

Cliquez sur **OK** et vous obtenez un message indiquant que le profil de stockage a été créé avec succès. Appuyez sur **OK** pour effacer ce message.

3. Appliquer le profil de stockage

Accédez à **Serveurs > Profils de service** et sélectionnez votre profil de service. Cliquez sur l'onglet **Stockage** en haut du profil de service comme illustré dans cette image.

æ	All	Servers / Service Profiles / root / Service	Profile m2_test	
₿	✓ Servers	General Storage Network iSC	SI vNICs vMedia Policy Boot Order	Virtual Machines FC Zones
-	✓ Service Profiles	Storage Profiles Local Disk Configurati	on Policy vHBAs vHBA Initiator Group	5
몲	🕶 root 🕥			
	 alfedeli-esxi-01 	Actions	Storage Profile Policy	
	▶ alfedeli-esxi-02	Modify Storage Profile	Name :	
	▶ alfedeli-esxi-03		Description :	
▣	▶ alfedeli-esxi-04		Storage Profile Instance :	
	 alfedeli-proxmox-01 			
	▶ m2_test	Local LUNs LUN Set Controller De	finitions Security Policy Faults	
	 Sub-Organizations 	🏹 Advanced Filter 🔶 Export 👘 Print		
	✓ Service Profile Templates	Name RAID Lev	el Size (MB)	Config State
20	▼ root 🕚			No data available
	 Service Template Standard 			
	 Sub-Organizations 			
	▼ Policies			
	▼ root 🕚			
	 Adapter Policies 			
	 BIOS Defaults 			🕀 Add 💼 Delete 🌘 In

Sélectionnez le lien Modifier le profil de stockage comme indiqué dans cette image.

Servers / Service Profiles / root / Service Profile m2_te	est					
General Storage Network ISCSI vNICs	vMedia Policy Boot Order Virtual	Machines FC Zones	Policies Server Details	CIMC Sessions FSM	VIF Paths Faults Events	
Storage Profiles Local Disk Configuration Policy	vHBAs vHBA Initiator Groups					
Actions Modify Storage Profile	Storage Profile Policy Name : Description : Storage Profile Instance :					
Local LUNS LUN Set Controller Definitions S	Security Policy Faults					
Ty Advanced Filter ↑ Export 🖶 Print						¢
Name RAID Level	Size (MB)	Config State	Deploy Name	LUN ID	Drive State	
		🛞 Add 📋 Delete 🌒 I				
Details						
Set LUN Name Rename Referenced LUN Set Online Set Undeployed Ctalm Orphaned LUN	Configured Size (GB) : Configured Size (GB) : Config State : Deployed LUN Details LUN New Name : Deploy Name : Deploy Name : Drive State :		Order Size (MB) Admin State Bootable Referenced LUN LUN ID	: : : ! ! ! ! !		

Dans la fenêtre Modifier le profil de stockage :

- Sélectionnez l'onglet Stratégie de profil de stockage
- Dans la liste déroulante Profil de stockage, sélectionnez le profil précédemment créé comme

illustré dans cette image

Servers / Servic	e Profiles / root /	Service Profile	m2_test						
General St	orage Network	k iSCSI vNICs	vMedia Policy	Boot Order	Virtual Machines	FC Zones	Policies	Server Details	CIMC S
Storage Profiles	Local Disk C	onfiguration Policy	vHBAs vHB	A Initiator Groups	;				
Actions			Storage Prof	ile Policy					
Modify Storage	Profile		Name	:					
	Modify St	orage Pro	file					?	×
		_		-					
Local LUNs	Specific Storag	ge Profile Sto	rage Profile Policy						- 11
	Storage Profile:	Select Storage F	Profile to use 🔻		Create S	torage Profile			
Te Advanced Fi	No Storage P	Select Storag	e Profile to use						
Name		No Storage Pr	ofile						
	_	Storage Profile	es						
		m.2_raid1							
Details									
Actions									
Set LUN Na									
Rename Re									
Set Online									
Set Undeplo									
Claim Orpha									
									ne :
									:
							ок	Cancel	
							_		- 11

Votre fenêtre doit maintenant ressembler à ceci :

Modify Stora	age Profile		? ×
Specific Storage Pro	ofile Storage Profile Policy		
Storage Profile: m.2	?_raid1 ▼	Create Storage P	rofile
Name : m.2 Description : Pro LUNs	?_raid1 file for m.2 raid1 storage		
Local LUNs	LUN Set Controller Definitions	Security Policy	
Te Advanced Filte	er 🛉 Export 🚔 Print		
Name	Size (GB)	Order	Fractional Size (MB)
m.2	1	Not Applicable	0
			OK Cancel

rvers / Service Profiles / root / Service Profile m	2_test					
General Storage Network iSCSI vNICs	vMedia Policy Boot Order	Virtual Machines FC Zones	Policies Server Details	CIMC Sessions FSM	VIF Paths Faults Events	
Storage Profiles Local Disk Configuration Policy	vHBAs vHBA Initiator Groups					
Actions	Storage Profile Policy					
Modify Storage Profile	Name : m.2 Description : Prot Storage Profile Instance : orge	traid1 file for m.2 raid1 storage -root/profile-m.2_raid1				
Local LUNS LUN Set Controller Definitions	Security Policy Faults					
Ty Advanced Filter ↑ Export ⊕ Print						¢
Name RAID Level	Size (MB)	Config State	Deploy Name	LUN ID	Drive State	
m.2 RAID 1 Mirrored	0	Not Applied				
		⊕ Add © Delete ●				
Details		⊕ Add) Delete) Info			
Details Actions	LUN Details	⊕ Add în Delete ()) Info			
Details Actions Set LUN Name	LUN Details Profile LUN Name : m.2	Add	D Info Order	: Not Applicable		
Details Actions Set LUN Name Rename Referenced LUN Set Out	LUN Details Profile LUN Name : m.2 RAID Level : RAIC	Add Delete	i Info Order Size (MB)	: Not Applicable : 0		
Details Actions Set LUN Name Rename Referenced LUN Set Online Set Undeployed	LUN Details Profile LUN Name : m.2 RAID Level : RAIE Configured Size (GB) : 1	Add Delete	I Info Order Size (MB) Admin State	: Not Applicable : 0 : Undeployed		
Details Actions Set LUN Name Rename Referenced LUN Set Online Set Undeployed Claim Orphaned LUN	LUN Details Profile LUN Name : m.2 RAID Level : RAIE Configured Size (GB) : 1 Config State : Not	Add Delete O	Drder Order Size (MB) Admin State Bootable	: Not Applicable : 0 : Undeployed : Disabled		
Actions Set LUN Name Rename Referenced LUN Set Online Set Undeployed Claim Orphaned LUN	LUN Details Profile LUN Name : m.2 RAID Level : RAIE Configured Size (GB) : 1 Config State : Not i Deployed LUN Details LUN New Name :	Add Delete	P Info Order Size (MB) Admin State Bootable Referenced LUN	: Not Applicable : 0 : Undeployed : Disabled Name :		
Details Actions Set LUN Name Rename Referenced LUN Set Online Set Undeployed Claim Orphaned LUN	LUN Details Profile LUN Name : m.2 RAID Level : RAIC Configured Size (GB) : 1 Config State : Not . Deployed LUN Details LUN New Name : Deploy Name :	Add Delete	Info Order Size (MB) Admin State Bootable Referenced LUN LUN ID	: Not Applicable : 0 : Undeployed : Disabled Name : :		
Details Actions Set LUN Name Rename Referenced LUN Set Online Set Undeployed Claim Orphaned LUN	LUN Details Profile LUN Name : m.2 RAID Level : RAIE Configured Size (GB) : 1 Config State : Not i Deployed LUN Details LUN New Name : Deploy Name : Deploy Name : Drive State :	Add Delete	I Info Order Size (MB) Admin State Bootable Referenced LUN LUN ID	: Not Applicable : 0 : Undeployed : Disabled Name : :		

Sélectionnez OK dans la fenêtre et la fenêtre de réussite.

Si le déploiement automatique est activé ou désactivé, assurez-vous que le LUN local est défini sur en ligne. Afin de mettre le LUN en ligne, cliquez sur le bouton **Définir en ligne** comme indiqué dans cette image.

General	Storage	Network iSCSI vNICs	vMedia Policy Boot Order	Virtual Machines FC Zone	s Policies Ser	rver Details C	IMC Sessions FSM	VIF Paths Fau	its Events	
Storage Pro	ofiles L	ocal Disk Configuration Policy	vHBAs vHBA Initiator Groups							
Actions			Storage Profile Policy							
Modify Stora	age Profile		Name : m.2 Description : Pro	2_raid1 file for m.2 raid1 storage						
			Storage Profile Instance : org	-root/profile-m.2_raid1						
Local LUNa		ot Controllor Definitions	Cogurity Dolloy - Coulto							
LOCALEONS	LON S	Controller Delinitions	Security Policy Paults							
Ty Advanced	d Filter 🔺	Export Print RAID Level	Size (MB)	Config State	Deploy Na	ame	LUN ID	Drive \$	State	\$
m.2		RAID 1 Mirrored	0	Not Applied						
Detalls										
Actions			LUN Detalls							
Set LUN	Name		Profile LUN Name : m.2			Drder	Not Applicable			
Rename I	Referenced		RAID Level : RAII	0 1 Mirrored	:	Size (MB)	: 0			
Set Unde	eployed		Configured Size (GB): 1		,	Admin State	: Undeployed			
Claim Orp	phaned LUI	N	Config State : Not	Applied	1	Bootable	Disabled			
			LUN New Name :			Referenced LUN N	lame :			
			Deploy Name :			LUN ID	:			
			Drive State :							
	Dete	lla								
	Jeta	lis								
	Act	tions								
	Set	LUN Name								
		Defe								
_	Rei	name kerere	ncea LUN							
[Set	Online								
	Set	Undeployed	i							
	Cla	im Orphaneo	d LUN							

Le LUN peut prendre une minute pour s'initialiser et se connecter.

Une fois que le LUN est en ligne, il affiche un état **de configuration appliquée** et l'état **Optimal Drive**.

4. Vérifiez Le LUN.

Servers / Service Profiles / root / Service Profile m2_test

Sous l'onglet **Général** du profil de service, cliquez sur le lien du **serveur associé** comme indiqué dans cette image.

Servers / Service Profiles / root / Service Profile m2_test

General	Storage Network	iSCSI vNICs	vMedia Policy	Boot Order	Virtual Machines	s FC Zones	Policies	Server Details	CIMC Sessions	FSM	VIF Paths	Faults	Events
Fault Sumr	nary			Properties									
8	•	Δ	0	Pending Ac	ctivities								
0	0	0	1	Reboot now									
				Pending D	isruptions : defau	ItValue							
Status				Pending C	hanges : opera	tional-policies							
Overall Sta	atus : Config			(+) Detai	ils								
+ Statu	us Details			Name	: m	2_test							
				User Label	: [
Actions				Description	: [
				Asset Tes									
				Asset Tag	· _								
Shutdown S	Server			Unique Ident	tifier : di	ocai 81b94dc-8601-1	1e9-0000-00	000000001f					
Reset				UUID Pool	: al	lfedell_prod							
KVM Conso	ble >>			UUID Pool In	nstance : or	rg-root/uuid-pool	-alfedeli_prod						
				Associated S	Server : sy	/s/chassis-1/blad	le-6						
Rename Se	rvice Profile			Service Prof	file Template :								
Create a Cl	lone			Template Ins	stance :								
Create a Se	ervice Profile Template			(+) Assign	ned Server or S	erver Pool							
Disassociat	e Service Profile												
Change Se	rvice Profile Association			Manag	gement IP Addr	ess							
				0.000									
Bind to a Te	emplate			(+) Mainte	enance Policy								
Reapply Co	onfiguration												
Change Ma	intenance Policy												
Set UUID S	ync Behavior												
Change UU	ID												
Reset UUID)												
Change Ma	inagement IP Address												
Modify vNK	C/vHBA Placement												
Start Fault S	Suppression												
Suppressio	n Task Properties												
Delete													

Accédez à Inventory> Storage> LUN.

Sélectionnez la flèche de la liste déroulante à gauche du **contrôleur de stockage SATA 1**. Vous devez voir **Virtual Drive [nom du profil de votre lecteur]**

Le lecteur doit avoir configuré automatiquement sa taille et être à l'état **Opérable, Equipé et Démarrable** comme illustré dans cette image.

Properties for: Chassi	is 1 / Server	6	Perioria Granc	ica , unclational	Doncies			×
C General Inventory Virtu	al Machines Inst	alled Firmware	CIMC Sessions	SEL Logs VIF Pa	ths Health D	iagnostics Faults	Events	FSI> >
Motherboard CIMC CPUs	GPUs Mem	ory Adapters	HBAs NICs	iSCSI vNICs	Security Storage	Persistent Memor	У	
Controller LUNs Disks	Security							
+ - Te Advanced Filter 🔶 Exp	oort 🚔 Print							¢
Name	Size (MB)	Raid Type	Config State	Deploy Action	Operability	Presence	Bootable	
Storage Controller PCH 1								
Storage Controller SAS 1								
▼Storage Controller SATA 1								
Virtual Drive m.2	228872	RAID 1 Mirrored	Applied	No Action	Operable	Equipped	True	
					ОК	Apply	Cancel	Help

5. Définissez l'ordre de démarrage pour démarrer les baies m.2.

Dans le profil de service, sélectionnez l'onglet **Ordre de démarrage** comme indiqué dans cette image.

General Sto	orage N	etwork	iSCSI vNICs	vMedia Poli	су	Boot Orde	er	Virtual Machines	FC Zones	
Storage Profiles	Local [Disk Confi	guration Policy	vHBAs	VHBA	A Initiator Gro	oups			
Actions				Storage	Profil	e Policy				
Modify Storage	Profile			Name		:	m.2_	_raid1		
				Descript	ion	:	Prof	ile for m.2 raid1 sto	orage	
				Storage	Profile	e Instance :	org-	root/profile-m.2_rai	d1	
Local LUNs	LUN Set	Contro	ller Definitions	Security Poli	су	Faults				

Définissez votre stratégie de démarrage pour utiliser **Uefi.** Après avoir installé le support (le cas échéant), sélectionnez l'option **Ajouter un disque local**. Voici un exemple que la stratégie de démarrage peut ne pas correspondre exactement :

Modify Boot Policy

● Local Devices Boot Order Reboot on Boot Order Change : Reboot an Boot Order Change : Add Local Disk Enforce vNIC/vHBA/ISCSI Name : Add Local JBOD Boot Mode : Add Local JBOD Boot Security : Add Local JBBA Heffective or of boot devices within the same device class (LAN/SCSI) is determined by PCle bus scan order. The type (primary/secondary) does not indicate a boot order presence. The type (primary/secondary) does not indicate a boot order presence. The type of vNIC/vHBA/ISCSI Name is selected and the vNIC/vHBA/ISCSI does not exist, a config error will be reported. If it is not selected, the vNICs/vHBA are selected if they exist, otherwise the vNIC/vHBA with the lowest PCle bus scan order is used. Add Embedded Local LUN Add Embedded Local Disk Add Embedded Local Disk Name Order • vNIC/v Type LUN Na WWN Slot Nu Boot N Boot Pa Descrip. Add Local CD/DVD 1 Iccal Disk 2 Iccal Disk 2 Add Remote CD/DVD 1 Iccal Disk 2 Iccal Disk 2 Add Remote Floppy Add Remote Floppy	→ Local Devices Boot Order → Local Disk Reboot on Boot Order Change : → Add Local Disk Enforce VNIC/VHBA/ISCSI Name : → Add Local JBOD Boot Mode :	● Local Devices Add Local Disk Add Local LUN Add Local JBOD Add SD Card Add Internal USB Add External USB Add Embedded Local LUN Add Embedded Local Disk Add CorjOVD Add Local CD/DVD Add Local CD/DVD Add Remote CD/DVD Add Remote Virtual Drive	Occal Devices Boot Order Add Local Disk Add Local Disk Add Local LUN Add Local JBOD Add SO Card Add SO Card Add Evenal USB Add Evenal USB Add Enbedded Local LUN Add Enbedded Local Disk Add CD(DVD Add Ecol CD(DVD Add Ecol CD(DVD Add Ecol Floppy Add Ecol Floppy Add Remote Virtual Drive Add NVMe											
Add Local Disk Enforce vNIC/vHBA/ISCSI Name : Add Local LUN Boot Mode :: Legacy • Uefi Add Local JBOD Boot Security :: Image: Comparison of the type (primary/secondary) does not indicate a boot order presence. Add Enternal USB Add External USB WARNINGS: Add Embedded Local LUN The type (primary/secondary) does not indicate a boot order presence. Add Embedded Local LUN If Enforce vNIC/vHBA/ISCSI Name is selected and the vNIC/vHBA/SCSI does not exist, a config error will be reported. If it is not selected, the vNIC/vHBA/ISCSI Name If enforce vNIC/vHBA/ISCSI Name is selected if they exist, otherwise the vNIC/vHBA/With the lowest PCle bus scan order is used. Add Embedded Local LUN If it is not selected, the vNIC/vHBA/ISCSI Name is selected if they exist, otherwise the vNIC/vHBA/With the lowest PCle bus scan order is used. Add Local CD/DVD If it is not selected Filter	Add Local Disk Enforce vNIC/vHBA/iSCSI Name : S Add Local LUN Boot Mode : □ Legacy • Ueft Add Local JBOD Boot Security : □ Add SD Card WARNINGS: The type (primary/secondary) does not indicate a boot order presence. The type (primary/secondary) does not indicate a boot order presence. The effective order of boot devices within the same device class (LAN/Storage/ISCSI) is determined by PCIe bus scan order. The effective order of boot devices within the same device class (LAN/Storage/ISCSI) is determined by PCIe bus scan order. The effective order of boot devices within the same device class (LAN/Storage/ISCSI) is determined by PCIe bus scan order is used. If it is not selected, the vNIC/vHBA/ISCSI Mame is selected and the vNIC/vHBA/ISCSI does not exist, a config error will be reported. If it is not selected, the vNIC/vHBA sare selected if they exist, otherwise the vNIC/vHBA with the lowest PCIe bus scan order is used. Add Embedded Local LUN + - * p Advanced Filter * Export * Print Add Local CD/DVD 1 Add Remote CD/DVD 1 Add Remote CD/DVD 2 Add Remote Floppy 2 Add Remote Floppy 2	Add Local Disk Enforce vNIC/vHBA/ISCSI Name : Add Local LUN Boot Mode :: Add Local JBOD Boot Security :: Add SD Card WARNINGS: Add Internal USB The type (primary/secondary) does not indicate a boot order presence. Add External USB The type (primary/secondary) does not indicate a boot order presence. Add Embedded Local LUN The type (primary/secondary) does not indicate a boot order presence. Add Embedded Local LUN The effective order of boot devices within the same device class (LAN/Storage/ISCS)) is determined by PCle bus scan order. If Enforce vNIC/vHBA/ISCSI Name is selected if they value, the wNIC/VHBA/ISCSI does not exist, a config error will be reported. If it is not selected, the vNICs/VHBA/ISCSI Name is selected if they value, therwise the vNIC/VHBA with the lowest PCle bus scan order is used. Add Embedded Local Disk Add Embedded Local Disk Add Local CD/DVD Add Remote CD/DVD Add Remote CD/DVD Add Local Floppy Add Remote Floppy Add Remote Virtual Drive	Add Local Disk Enforce VNIC/VHBA/ISCSI Name: Enforce VNIC/VHBA/ISCSI Name: Degacy ● Ueff Boot Mode C Legacy ● Ueff Boot Security C Legacy ● Ueff Mame C Legacy ● Vilc/V Type LUN Na WWN Stot Nu Boot N Boot Pa Descrip C D/DVD Local Disk C D/DVD Local Disk E Move Up ● Move Down ● Delte Mave Up ● Move Down ● Delte C Move Up ● Mo	 Local Devices 	Boot Order	r Change ·								
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Vous pouvez avoir besoin de redémarrer l'hôte pour que les configurations s'appliquent. Le champ **Bootable** passe de **Disabled à Enabled** dans le profil de stockage.

Vérification

Cochez Inventaire > Stockage > LUN > État de configuration appliqué

Dépannage

Cette section fournit des informations que vous pouvez utiliser pour dépanner votre configuration.

Lorsqu'un LUN orphelin est trouvé, sélectionnez-le et **supprimez-**le. Cette opération supprime toutes les données qui existent sur le tableau, comme illustré dans cette image.

cisco. UCS Manager

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• **6 9 9 0** © ©

All + Equipment • Chassis • Chassis 1 🦁 Fans IO Modules PSUs · Servers Server 2 Server 3 Server 4 Server 4
Server 5
Server 6
Server 7 Rack-Mounts

Enclosures FEX Servers + Fabric Interconnects

· Policies

Al v						
Equipment	General Inventory Virtual Machines Installe	d Firmware CIMC Sessions	SEL Logs VIF Paths Healt	th Diagnostics Faults Events	FSM Statistics	Temperatures Power
▼ Chassis	Motherboard CIMC CPUs GPUs Mem	ory Adapters HBAs NIC	s ISCSI vNICs Security	Storage Persistent Memory		
🕶 Chassis 1 👽	Controller 1184e Dieke Society					
 Fans 	Controller Conto Disko Security					
 IO Modules 	+ - Ty Advanced Filter + Export - Print					¢
 PSUs 	Name Size (MB)	 Raid Type 	Config State De	ploy Action Operability	Presence	Bootable
▼ Servers	Storage Controller PCH 1					
 Server 2 	Storage Controller SAS 1					
 Server 3 	Storage Controller SATA 1					
 Server 4 	Virtual Drive m.2 228872	RAID 1 Mirrored	Ornhaned	Action Operable	Equipped	True
 Server 5 	THE STOCK	1000 1 10100			reliebberg	
🔸 Server 6 🛛 😨						
 Server 7 😗 	Actions	Properties				
 Rack-Mounts 	-					
Enclosures	Rename	Virtual Drive Name	: m.2	Size (MB)	228872	
FEX	Cal Transad Davids	Туре	: RAID 1 Mirrored	Block Size	: 512	
 Servers 		Available Size on Disk Group (M	B) : O	Number of Blocks	468729856	
 Fabric Interconnects 		ID	: 1000	Drive Security	: No	
 Fabric Interconnect A (primary) 😗 		Oper Device ID	: 0	Drive State	Optimal	
 Fabric Interconnect B (subordinate) 🦁 	Secure Virtual Drive	Strip Size (KB)	: 64	Access Policy	: Read Write	
 Policies 		Read Policy	Normal	Actual Write Cache Policy	Write Through	
Port Auto-Discovery Policy		IO Policy	Direct	Configured Write Cache P	olicu: Write Through	
		io Folicy	- Direct	Configured white Cache P		
		States	: True	Drive Cache	: No Change	
		Operability	Operable	Oper Qualifier Reason	: N/A	

Config State	Orphaned	Deploy A	Action : No Action	
Storage				
Profile Name				
Assigned To Server				
Service Profile				
Available Size On Disk Grou	up (MB) : 0			
Drive Members				
Slot ID	Role	Presence	Span ID	Operability Qualifier Reason
253	Normal	Equipped	Unspecified	N/A
254	Normal	Equipped	Unspecified	N/A