Configurar UCS-M2-HWRAID em blades UCS

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Introduction

Este documento descreve como configurar o Unified Computing System (UCS)-M2-HWRAID para que um sistema operacional possa usar os discos para armazenamento ou como discos inicializáveis.

Prerequisites

Requirements

A Cisco recomenda que você tenha conhecimento destes tópicos:

- Servidor UCS M5
- UCSM 3.2.2b ou superior
- SO compativel no modo UEFI (mínimo a seguir) CentOS 7.6ESXi 6,5U2RHEL 7.6WinServer 2016 WinServer 2019Mais: <u>Compatibilidade de hardware e software do UCS</u> Adaptadores > RAID > Cisco Boot Otimized M.2 HW Raid Controller (Cisco)

Componentes Utilizados

As informações neste documento são baseadas nestas versões de software e hardware:

- UCS-M2-HWRAID
- 2 unidades m.2 do mesmo modelo e capacidade

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. Se a rede estiver ativa, certifique-se de que você entenda o impacto potencial de qualquer comando.

Informações de Apoio

O UCS-M2-HWRAID possui dois m.2 coletes; um em cada lado da portadora. O UCS-M2-HWRAID e o UCS-MSTOR-M2 parecem semelhantes, mas neste exemplo de configuração o RAID de hardware exige um controlador UCS-M2-HWRAID.

Configurar

Verificar Status Atual

1. Verifique se as peças necessárias aparecem no inventário do servidor.

No UCSM, navegue até **Equipment > Chassis x > Servers > Server x**.

Selecione a guia **Inventário** na parte superior, **Placa-mãe**. Selecione **Mini Storage**. Certifique-se de que o seu modelo seja exibido como **UCS-M2-HWRAID** conforme mostrado nesta imagem.

 Mini Storage mini-storage-M2-1 ID : 1 UCS-M2-HWRAID Model : M2 Type Vendor : Cisco Systems Inc Revision : 0 FCH23327KSH Serial : V01 VID Part Number: 73-19532-05 Product Name : 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. Verifique se há duas unidades m.2 instaladas e detectadas.

Navegue até Inventory > Storage > Disks.

No menu suspenso, selecione Storage Controller Sata 1.

Verifique quais dois discos m.2 (253 e 254) são apresentados e se estão em um estado operável. Em M6, os dois discos m.2 serão 245 e 246. O estado da unidade pode ser diferente.

æ	All	Equipment / Chassis / Ch	assis 1 / Servers /	Server 6						
	✓ Equipment	General Inventory	Virtual Machines	Installed Firmware CIMC Se	ssions SEL Logs V	IF Paths Health Diagno:	stics Faults Events	FSM Statistics	Temperatures Power	
		Motherboard CIMC	CPUs GPUs	Memory Adapters HE	As NICs ISCSI VNI	Cs Security Storage	Persistent Memory			
æ	🕶 Chassis 1 😨	Controllar LLINE	Disks Security							
	 Fans 	CONTROLATE LOTIS	Disks Obounty							
E	 IO Modules 	+ - Ty Advanced Filt	r 🔶 Export 🖷 Pri	nt.						¢
	 PSUs 	Name	Size (MB)	Serial	Operability	Drive State	Presence	Technology	Bootable	
	 Servers 	Storage Controller PC.								
	 Server 2 	Storage Controller SA.								
	 Server 3 	Etorage Controller SA								
_	 Server 4 									
	 Server 5 	Disk 253	228936	17 8	Operable	Jbod	Equipped	SSD	False	
Jo	> Server 6 👿	Disk 254	228936	17 1	Operable	Jbod	Equipped	SSD	False	

3. Procure LUNs órfãos.

Navegue até Inventário> Armazenamento> LUNs.

Verifique se há uma seta suspensa para SATA 1 da controladora de armazenamento. Caso

contrário, não há um LUN órfão.

Se você vir um LUN órfão, vá para a seção Solução de problemas na parte inferior antes de começar a configuração.

cisco.	UCS Manager			🚫 👽 실 🔮 2 27 2 7				۲	e Q Q Q & (
ж.	All 👻								
	✓ Equipment	General Inventory	Virtual Machines	Installed Firmware CIMC Sessions	SEL Logs VIF Paths	Health Diagnostic	cs Faults Events	FSM Statistics	Temperatures Power
	▼ Chassis	Motherboard CIMC	CPUs GPUs	Memory Adapters HRAs	NICs ISCSI VNICs S	Security Storage	Persistent Memory		
æ	🕶 Chassis 1 😗	Controller LUBIC D	inter Consults	and and the second second			, , , , , , , , , , , , , , , , , , , ,		
00	 Fans 	Controller Lows D	isks Security						
≣	 IO Modules 	+ - Ty Advanced Filter	🕈 Export 🖷 Print						¢
	 PSUs 	Name	Size (MB)	 Raid Type 	Config State	Deploy Action	Operability	Presence	Bootable
	✓ Servers	Storage Controller PCH	1						
	 Server 2 	Storage Controller SAS							
=	 Server 3 	Storage Controller SATA	1						
-	 Server 4 	Virtual Drive m.2	228872	RAID 1 Mirrored	Ornhaned	No Action	Operable	Equipped	True
-	 Server 5 								
م <mark>د</mark>	Server 6 👽								
	Server 7 🔨	Actions		Properties					
	 Rack-Mounts 	Banama					a		
	Enclosures	Delete		Virtual Drive Name	: m.2		Si2e (MB)	228872	
	FEX	Set Transport Ready		Type	: RAID 1 Mirrored		Block Size	: 512	
	 Servers 			Available Size on Disk Grou	p (MB) : 0		Number of Blocks	468729856	
	 Fabric Interconnects 			ID	: 1000		Drive Security	No	
	 Fabric Interconnect A (primary) T 			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 Polic	y : Write Through	
				Bootable	: True		Drive Cache	: No Change	
				States					
				Operability	: Operable		Oper Qualifier Reason	: N/A	
				Config State	Orphaned		Deploy Action	: No Action	
				LUN Name					
				Profile Name					
				Assigned To Server					
				Available Size On Disk Grou	p (MB) : 0				
				Drive Members					
				Slot ID	Role	Presence	Span ID		Operability Qualifier Reason
				253	Normal	Equipped	Unspecif	hed	N/A
				254	Normal	Equipped	Unspecif	fied	N/A

Configuração de Armazenamento da Instalação

1. Primeiro, você precisa criar uma política de armazenamento. Navegue **Storage > Storage Policies > Add** conforme mostrado na imagem.



Storage / Storage Policies

Disk Group Policies

+ - 🛧 Export 🖷 Print

Na janela Create Disk Group Policy:

- Inserir um nome
- Descrição (opcional)
- Nível de RAID RAID1 espelhado é usado neste guia e é a opção mais segura.

 \oplus Add

• Selecione o botão de opção Disk Group Configuration Manual.

Create Disk Group Policy

Name :	m.2_raid1				
Description :	Raid1 group polic	y for m2. drives			
RAID Level :	RAID 1 Mirrored	¥.			
O Disk Group	Configuration (Auton	natic) 💿 Disk Group Configuration (Manual	1)		
Disk Group	Configuration (Manu	ial)			
Te Advance	d Filter 🔶 Export	🖶 Print			¢
Slot Numbe	er	Role		Span ID	
			No data available		
			🕀 Add 📋 Delete 🍈 Info		
Virtual Drive	e Configuration				
Strip Size (H	KB) : Platform D	efault 🔻			
Access Poli	icy : Platform	n Default 🔿 Read Write 🔿 Read Only 🔿	Blocked		
					OK Cancel

Clique no botão Add na caixa Disk Group Configuration (Manual).

Isso abre uma nova janela Create Local Disk Configuration Reference.

- O número do slot pode ser definido como 253 (o ID do primeiro m.2. Esse valor pode ser verificado nos pré-requisitos)
- A função deve ser Normal
- Deixe a ID do Span como não especificada

Clique em **OK** conforme mostrado nesta imagem.

Create Disk Group Polic	су	? ×
Name : m.2_raid1		
Description : Raid I group policy for n	nz. drives	
RAID Level : RAID 1 Mirrored		
Disk Group Configuration (Automatic) Disk Group Configuration (Manual)	Create Local Disk Configuration Reference ? ×	
🏹 Advanced Filter 🔺 Export 🚔 Prin	Stot Number : 253 [1-254]	\$
Slot Number	Role : Okormal Obedicated Hot Spare Oblah Hot Spare	_
253	Span ID : unspecified [0-8]	_
	OK Cancel	
Virtual Drive Configuration		
Strip Size (KB) : Platform Default	v	
Access Policy : Platform Defa	ult CRead Write Read Only Blocked	
	ОК С	ancel

Repita a última etapa para o outro disco, mas use o slot número **254** como mostrado nesta imagem.

Create Disk Group Polic	icy	? ×
Name : m.2_raid1		
Description : Raid1 group policy for r	m2. 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 : 254 [1-254]	\$
Slot Number	Role : Normal Dedicated Hot Spare Global Hot Spare	
253	Span ID : unspecified [0-8]	
254		
	OK Cancel	
Virtual Drive Configuration		
Strip Size (KB) : Platform Default	it v	
Access Policy : Platform Defa	fault 🔿 Read Write 🔿 Read Only 🔿 Blocked	
	ок	Cancel

Agora sua política de disco deve ser semelhante a esta:

Create Disk Group Policy			? >
Name : m.2_raid1			
Description : Raid1 group policy for m2.	rives		
RAID Level : RAID 1 Mirrored]		
) Disk Group Configuration (Automatic) () Disk Group Configuration (Manual)	k Group Configuration (Manual)		
🍢 Advanced Filter 🔺 Export 🚔 Print			\$
Slot Number	Role	Span ID	
253	Normal	Unspecified	
254	Normal	Unspecified	
	🕀 Add 👘 Delete	❶ Info	
Virtual Drive Configuration			
Strip Size (KB) : Platform Default	v		
Access Policy : Platform Default	Read Write Read Only Blocked		
			OK Cancel

2. Criar um Perfil de Armazenamento.

Navegue até **Storage > Storage Profiles > Create a Storage Profile** conforme mostrado nesta imagem.



Uma janela Criar perfil de armazenamento é aberta solicitando:

- Nome: Insira um nome lógico
- Descrição (opcional)
- Clique no botão Add conforme mostrado nesta imagem.

Create Storage Profile

Namo	m 2 raid1				
Name .	m.z_raiu i				
Description :	Profile for m.2 ra	iid1 storage			
LUNs					
Local LUN	s LUN Set	Controller Definitions	Security Policy	y	
🏹 Advanced	Filter 🔶 Export	🖶 Print			≎
Name	Si	ize (GB)	Order	Fractional Size (N	NB)
		No data	a available		
		🕀 Add 🗊	Delete 🚯 Info		
					a
				OK	Cancel

? ×

Na janela Create Local LUN:

- Selecione o botão de opção Create Local LUN
- Dê um nome ao LUN (usei m.2)
- Defina o tamanho como 1
- Defina o tamanho fracional 0
- Selecione se deseja implantar o LUN automaticamente (se você selecionar não, terá que habilitar o LUN manualmente em cada perfil de serviço)
- Marque a caixa Expandir para Disponível.
- Selecionar a configuração do grupo de discos feita anteriormente
- Clique em OK conforme mostrado nesta imagem

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

Seu Perfil de Armazenamento agora deve ter esta aparência:

Create S	Create Storage Profile							
Name : Description : LUNs	m.2_raid1 Profile for m.2 raid1 storage							
Local LUN	s LUN Set Controller I	Definitions Security Policy						
▼ Advanced	Filter 🔶 Export 🚔 Print		\$					
Name	Size (GB)	Order	Fractional Size (MB)					
m.2	1	Not Applicable	0					
		🕀 Add 📋 Delete 🍈 Info						
			OK Cancel					

Clique em **OK** e você receberá uma mensagem informando que o perfil de armazenamento foi criado com êxito. Pressione **OK** nessa mensagem para limpá-la.

3. Aplicar o Perfil de Armazenamento

Navegue até **Servers > Service Profiles** e selecione seu perfil de serviço. Clique na guia **Armazenamento** na parte superior do perfil de serviço como mostrado nesta imagem.

æ	All	Servers / Service Profiles / root / Service Pro	file m2_test	
•	✓ Servers	General Storage Network iSCSI v	NICs vMedia Policy Boot Order	Virtual Machines FC Zones
-	✓ Service Profiles	Storage Profiles Local Disk Configuration P	olicy vHBAs vHBA Initiator Groups	
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 Definit	ions Security Policy Faults	
	 Sub-Organizations 	🏹 Advanced Filter 🔺 Export 🖷 Print		
	 Service Profile Templates 	Name RAID Level	Size (MB)	Config State
20	▼ root 🕚			No data available
	 Service Template Standard 			
	 Sub-Organizations 			
	✓ Policies			
	🕶 root 🕔			
	 Adapter Policies 			
	 BIOS Defaults 			🕀 Add 🝈 Delete 👩 In
				Contra El ponoto (Con

Selecione o link Modify Storage Profile como mostrado nesta imagem.

Servers / Service Profiles / root / Service Profile m	2_test								
General Storage Network ISCSI vNICs	vMedia Policy Boot Order	Virtual Machines FC Z	ones Policies	Server Details	CIMC Sessions	FSM	VIF Paths Fau	lts Events	
Storage Profiles Local Disk Configuration Policy	vHBAs vHBA Initiator Groups								
Actions Modify Storage Profile	Storage Profile Policy Name : Description :								
Local LUNE LUN Set Controller Definitions	Storage Profile Instance :								
	Security Folicy Found								
Ty Advanced Filter ↑ Export									\$
Name RAID Level	Size (MB)	Config State	Depi	loy Name	LUN ID		Drive	State	
Details									
Actions	LUN Details								
	Profile LUN Name :			Order	:				
	RAID Level :			Size (MB)	:				
	Configured Size (GB) :			Admin State	:				
	Config State :			Bootable	:				
	LUN New Name :			Referenced LU	N Name :				
	Deploy Name :			LUN ID	:				
	Drive State :								

Na janela Modify Storage Profile:

- Selecione a guia Storage Profile Policy
- No menu suspenso Storage Profile, selecione o perfil criado anteriormente conforme

mostrado nesta imagem

Storage Network SCSI WARDS Wedda Policy Bod Order Virtual Machines P 20mes Policies Sever Detais CMOS Storage Details Storage Profile Storage Profile Storage Profile Image: Profile	Servers / Servic	e Profiles / root /	Service Profile	m2_test						
Cost Disk Configuration Policy VHAa	General St	orage Networ	k iSCSI vNICs	vMedia Policy	Boot Order	Virtual Machines	FC Zones	Policies	Server Details	CIMC S
Actons Storage Profile Modify Storage Profile Image: Create Storage Profile Specific Storage Profile Storage Profile TypeAdvanced F No Storage Profile Name Storage Profile TypeAdvanced F No Storage Profile Name Storage Profile Storage Profile Storage Profile Name Storage Profile Name No Storage Profile Storage Profile Storage Profile Storage Profi	Storage Profiles	s Local Disk C	onfiguration Policy	vHBAs vHB	A Initiator Groups	5				
Modify Storage Profile Market Storage Profile	Actions			Storage Prof	ile Policy					
Local LUNA Specific Storage Profile (2) × Y_Advaced Profile Select Storage Profile to use Create Storage Profile Name Select Storage Profile Select Storage Profile Name No Storage Profile Select Storage Profile Details Actions Select Storage Profile Image Profile Set LUN No. Set Contractorage Profile Image Profile Image Profile Claim Oppt Set Contractorage Profile Image Profile Image Profile Set LUN No. Set Contractorage Profile Image Profile Image Profile Set LUN No. Set Contractorage Profile Image Profile Image Profile Set LUN No. Set LUN No. Set Contractorage Profile Image Profile Image Profile Set LUN No. Set LUN No. Image Profile Image Profile Image Profile Image Profile Set LUN No. Set LUN No. Image Profile Image Profile Image Profile Image Profile Image Profile Image Profile Set LUN No. Image Profile Image Profile Image Profile Image Profile Image Profile Image Profile Image Profile <td< th=""><th>Modify Storage</th><th>Profile</th><th></th><th>Name</th><th>:</th><th></th><th></th><th></th><th></th><th></th></td<>	Modify Storage	Profile		Name	:					
Local LUNS Specific Storage Profile Storage Profile Create Storage Profile V_Advanced F Neme Select Storage Profile to use Create Storage Profile Name Select Storage Profile Storage Profile Storage Profile Name Select Storage Profile Storage Profile Storage Profile Details Mathematical Storage Profile Mathematical Storage Profile Mathematical Storage Profile Set Undept Set Undept Cleim Opp Set Undept Cleim Opp Cleim Opp Set Undept Set Undept Set Undept Set Undept Set Undept Set Undept Set Undept Set Undept Set Undept Set Undept Cleim Opp Set Undept	mouny otorage	Modify St	orage Pro	file					?	×
Specific Storage Profile Storage Profile Ty_Advanced F No Storage Profile Name Select Storage Profile Name Storage Profile Select Storage Profile Storage Profile Ty_Advanced F No Storage Profile Name Storage Profile Select Storage Profile Storage Profile Ty_Advanced F No Storage Profile Storage Profile <		Woodity Oc	orage i re		_					
Ciccal LUNs Ty, Advanced F Name Name No Storage Profile No Storage Profile No Storage Profile S		Specific Storag	ge Profile Sto	orage Profile Policy						
Ty, Advanced F No Storage Profile to use Name No Storage Profile Name No Storage Profile Details mt2_raid1 Actions Set LUN N Set Unions Set Unions Claim Cript Claim Cript	Local LUNs	Storage Profile:	Select Storage P	Profile to use 💌		Create S	Storage Profile			
Name No Storage Profile Storage Profile Storage Profile Storage Profile Storage Profile T	Te Advanced Fil	5	Select Storag	e Profile to use						
Details Image: Control of the second sec	Name	No Storage P	No Storage Pr	ofile	-					
Details Actons Set LUN Na Rename Re Set Undaph Claim Orph			Storage Profile	es	_					
Details Actions Set LUN No Rename Ro Set Online Set Undepid Claim Orph		ſ	m.2_raid1							
Details Actions Set LUN No Rename Ro Set Online Set Undepot Claim Orph Main Component Image: Component										
Details Actions Set LUN Na Rename Ra Set Online Set Undept Claim Orph										
Details Actions Set LUN Na Rename Rat Set Online Set Undepk Claim Orpht Me: : <td:< td=""> <td:< td=""> <!--</th--><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td:<></td:<>										
Details Actions Set LUN Na Rename Re Set Online Set Undept Claim Orph										
Details Actions Set LUN Na Rename Ra Set Online Set UndepX Claim Orpha OK Cancel										
Actions Set LUN Na Rename Re Set Online Set Undept: Claim Orphs	Details									
Set LUN Na Rename Re Set Online Set Undepto Claim Orpho	Actions									
Rename Ro Set Undepto Claim Orpho	Set LUN Na									. :
Set Undepla Claim Orpha	Rename Ret									:
Claim Orph Claim Orph Claim Orph Cancel	Set Undenia									:
ne : : OK Cancel	Claim Orpha									:
OK Cancel										ne :
OK Cancel										
OK Cancel										
OK Cancel										
OK Cancel										
								OK	Cancel	
								UK OK	Januar	

Sua janela deve ter esta aparência:

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

neral Storage	Network ISCSI vNICs	vMedia Policy Boo	Corder Virtual Machines PC Zones	Policies Server Details	CIMO SESSIONS FOM	VIF Paths Faults Event	
rage Profiles Loca	I Disk Configuration Policy	vHBAs vHBA Initiat	tor Groups				
ions		Storage Profile Pollo	су				
dify Storage Profile		Name Description Storage Profile Insta	: m.2_raid1 : Profile for m.2 raid1 storage nce : org-root/profile-m.2_raid1				
I LUNS LUN Set	Controller Definitions	Security Policy Faul	ts				
dvanced Filter 🔶 Exp	port 🖷 Print						
10	RAID Level	Size (MB)	Config State	Deploy Name	LUN ID	Drive State	
1.2	RAID 1 Mirrored	0	Not Applied				
n.2	RAID 1 Mirrored	0	Not Applied	Info			
n.2 talls	RAID 1 Mirrored	0	Not Applied	Info			
n.2 ialls ctions	RAID 1 Mirrored	0 LUN Detalls	Not Applied) Info			
alls ctions et LUN Name	RAID 1 Mirrored	0 LUN Detalls Profile LUN Name	Not Applied	Info Order	: Not Applicable		
n.2 talls cctions tet LUN Name tename Referenced LU	RAID 1 Mirrored	0 LUN Detalls Profile LUN Name RAID Level	Not Applied Add Delete r m.2 r RAID 1 Mirrored	Info Order Size (MB)	: Not Applicable : 0		
n.2 talls tctions tet LUN Name ename Referenced LU let Online et Undeployed	RAID 1 Mirrored	0 LUN Details Profile LUN Name RAID Level Configured Size (6	Not Applied Add Delete a. m.2 c. RAID 1 Mirrored GB): 1	Info Order Size (MB) Admin State	: Not Applicable : 0 : Undeployed		
n.2 talls ctions et LUN Name ename Referenced LU et Online et Undeployed talm Orphaned LUN	RAID 1 Mirrored	0 LUN Details Profile LUN Name RAID Level Configured Size (0 Config State	Not Applied	Info Order Size (MB) Admin State Bootable	: Not Applicable : 0 : Undeployed : Disabled		
n.2 talls .ctions iet LUN Name lename Referenced LU iet Online iet Undeployed iaim Orphaned LUN	RAID 1 Mirrored	0 LUN Details Profile LUN Name RAID Level Configured Size (Config State Deployed LUN De LUN New Name	Not Applied Add Delete	Info Order Size (MB) Admin State Bootable Referenced LU	: Not Applicable : 0 : Undeployed : Disabled		
m.2 talls talls Set LUN Name tename Referenced LU Set Online Set Undeployed Stalm Orphaned LUN	RAID 1 Mirrored	0 LUN Details Profile LUN Name RAID Level Config State Deployed LUN De LUN New Name Deploy Name	Not Applied Add Delete	Info Order Size (MB) Admin State Bootable Referenced LL LUN ID	: Not Applicable : 0 : Undeployed : Disabled JN Name : :		

Selecione **OK** na janela e na janela sucesso.

Se a implantação automática estiver habilitada ou desabilitada, verifique se o LUN local está definido como on-line. Para definir o LUN on-line, clique no botão **Set Online** conforme mostrado nesta imagem.

General	Storage	Network iSCSI vNICs	vMedia Policy Boot Order	Virtual Machines FC Zon	es Policies S	Server Details	CIMC Sessions FSM	VIF Paths Faults	Events
Storage P	rofiles	Local Disk Configuration Policy	vHBAs vHBA Initiator Groups	5					
Actions			Storage Profile Policy						
Modify St	orage Profile	9	Name : m.	2_raid1					
			Storage Profile Instance : org	ofile for m.2 raid1 storage -root/profile-m.2_raid1					
Local LUN	ls LUN	Set Controller Definitions	Security Policy Faults						
T _e Advanc	ed Filter	Export 🚔 Print							¢
Name		RAID Level	Size (MB)	Config State	Deploy	Name	LUN ID	Drive State	
m.2		RAID 1 Mirrored	0	Not Applied					
Details									
Action	s		LUN Detalls						
Set LUI	N Name		Profile LUN Name : m.2	:		Order	Not Applicable		
Renam Set Onl	e Reference		RAID Level : RAI	D 1 Mirrored		Size (MB)	: 0		
Set Un	deployed		Configured Size (GB): 1			Admin State	: Undeployed		
Claim C	Orphaned LU	IN	Config State : Not	Applied		Bootable	: Disabled		
			LUN New Name :			Referenced LU	N Name :		
			Deploy Name :			LUN ID	:		
			Drive State :						
	Deta	ils							
-									
	Ac	tions							
	C -								
	Se	t LUN Name							
	De	Defers	need LUN						
		name kerere	ncea LUN						
	0.0	t Opling							
	Se	t Online							
	~								
		t Undeployed	1						
	0	in Orchart							
	Cla	am Orphaneo							

O LUN pode levar um minuto para ser inicializado e ficar on-line.

Quando o LUN estiver on-line, ele exibirá os estados Applied Config e Optimal Drive.

4. Verificar O LUN.

Servers / Service Profiles / root / Service Profile m2_test

Na guia **Geral** do perfil de serviço, clique no link do **Servidor Associado** conforme mostrado nesta imagem.

Servers / Service Profiles / root / Service Profile m2_test

General	Storage Network	iSCSI vNICs	vMedia Policy	Boot Order	Virtual Machines	FC Zones	Policies	Server Details	CIMC Sessions	FSM	VIF Paths	Faults	Events
Fault Summ	nary			Properties									
8	•		0	Pending Ac	ctivities								
0	0	0	1	Reboot now									
				Pending Di	isruptions : defaultV	alue							
Status				Pending Cl	hanges : operatio	nal-policies							
Overall Sta	itus : OConfig			(+) Detai	ils								
(+) Statu	is Details			Name	: m2_	test							
				User Label	:								
Actions				Description	:								
				Assot Too									
				Owner		al							
Shutdown S	Server			Unique Ident	tifier : d81	b94dc-8601-11	1e9-0000-00	00000001f					
Reset				UUID Pool	: alfe	dell_prod							
KVM Conso	le >>			UUID Pool In	istance : org-	root/uuid-pool-	alfedeli_prod						
				Associated S	Server : sys/	chassis-1/blade	-6						
Rename Se	rvice Profile			Service Profi	le Template :								
Create a Cl	one			Template Ins	stance :								
Create a Se	rvice Profile Template			Assign	ned Server or Ser	ver Pool							
Disassociat	e Service Profile												
Change Ser	vice Profile Association			(+) Manag	gement IP Addres	S							
				(+) Mainte	Paper Policy								
Bind to a Te	emplate			(+) Wallite	mance Policy								
Reapply Co	nfiguration												
Change Ma	intenance Policy												
Set UUID S	ync Behavior												
Change UU	ID												
Reset UUID													
Change Ma	nagement IP Address												
Modify vNIC	VVHBA Placement												
Start Fault S	Suppression												
Stop Fault S	Suppression												
Suppression	n Task Properties												
Delete													

Navegue até Inventory> Storage> LUNs.

Selecione a seta da lista suspensa à esquerda de **Storage Controller SATA 1**. Você deve ver **Virtual Drive [your drive profile name]**

A unidade deve ter o tamanho configurado automaticamente e estar em um estado **Operable**, **Equipped, and Bootable** (Operável, Equipado e Inicializável), conforme mostrado nesta imagem.

Properties for: Chass	is 1 / Server	6	Penuing onan		DUICICS		×
General Inventory Virtu	ual Machines Inst	alled Firmware	CIMC Sessions	SEL Logs VIF Pa	aths Health D	agnostics Faults	Events FSI> >
Motherboard CIMC CPUs	GPUs Men	nory Adapters	HBAs NICs	iSCSI vNICs	Security Storage	e Persistent Memory	
Controller LUNs Disks	Security						
+ - Ty Advanced Filter 🔶 Exp	port 🖷 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 C	ancel Help

5. Defina Boot Order (Ordem de inicialização) para inicializar os storages m.2.

No perfil de serviço, selecione a guia Ordem de inicialização conforme mostrado nesta imagem.

General Stor	age Netw	ork iSCSI vNICs	vMedia Policy	Boot Orde	r Virtual Machines	FC Zones
Storage Profiles	Local Disk	Configuration Policy	vHBAs v	HBA Initiator Gro	oups	
Actions			Storage Pr	ofile Policy		
Modify Storage P	rofile		Name	:	m.2_raid1	
			Description	n :	Profile for m.2 raid1 st	torage
			Storage Pr	ofile Instance :	org-root/profile-m.2_ra	aid 1
Local LUNs	LUN Set C	Controller Definitions	Security Policy	Faults		
Ty Advanced Filter	+ Export	🚔 Print				
Namo		RAID Level	Siz	e (MB)	Config S	tate

Defina a política de inicialização para usar a **Uefi.** Depois da mídia de instalação (se houver), selecione a opção **Adicionar Disco Local**. Aqui está um exemplo de que a política de inicialização pode não corresponder exatamente:

Modify Boot Policy

 Local Devices 	Boot Order	- O berra								
	Enforce vNIC/vHBA/	SCSI Name :								
	Boot Mode	: 0	Legacy							
	Boot Security									
	WARNINGS:	. –								
	The type (primary/sec The effective order of	ondary) does not boot devices with	indicate a boot in the same de	order preser rice class (L/	nce. AN/Storage	e/iSCSI) is d	etermined	by PCle bu	s scan orde	r.
	If Enforce vNIC/vHBA	/ISCSI Name is a	elected and the	vNIC/vHBA/	ISCSI doe	s not exist, a	a config err	ror will be re	eported.	n is used
	+ - Tr Advanced	d Filter 🔶 Expo	t 🚔 Print	y exist, our			that the lot		00 00011 010	
Add Embedded Local Disk	Name	Order •	vNIC/v T	ne II	IN Na - N		Slot Nu	Boot N	Boot Pa	Descrip
			vivi0/v 1	pe 20			5101 140	5000 11	5000 Pa	Descrip
	CD/DVD	I								
	Local Disk	2								
Add Local CD/DVD Add Remote CD/DVD Id Floppy										
Add Local CD/DVD Add Remote CD/DVD dd Floppy Add Local Floppy										
Add Local CD/DVD Add Remote CD/DVD dd Floppy Add Local Floppy Add Remote Floppy										
Add Local CD/DVD Add Remote CD/DVD Add Floppy Add Local Floppy Add Remote Floppy dd Remote Virtual Drive										
Add Local CD/DVD Add Remote CD/DVD Add Floppy Add Local Floppy Add Remote Floppy Add Remote Virtual Drive add NVMe			∱ Mov	e Up 🕴 M						
Add Local CD/DVD Add Remote CD/DVD add Floppy Add Local Floppy Add Remote Floppy add Remote Virtual Drive add NVMe			∱ Mov	e Up 🕴 M						

Você pode precisar reinicializar o host para que as configurações sejam aplicadas. Isso altera o campo **Bootable** de **Disabled para Enabled** no Storage Profile.

Verificar

Verifique se **Inventory > Storage > LUN >** Config State is Applied (**Inventário > Armazenamento >** LUN > Config State é aplicado)

Troubleshoot

Esta seção disponibiliza informações para a solução de problemas de configuração.

Quando um LUN órfão for encontrado, selecione-o e **exclua**-o. Isso remove todos os dados existentes na matriz, como mostrado nesta imagem.

? ×

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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