UCS 블레이드에서 UCS-M2-HWARD 구성

목차

<u>소개</u> <u>사전 요구 사항</u> <u>요구 사항</u> <u>사용되는 구성 요소</u> <u>배경 정보</u> <u>구성</u> <u>현재 상태 확인</u> <u>스토리지 구성 설정</u> <u>다음을 확인합니다.</u> 문제 해결

소개

이 문서에서는 운영 체제(OS)가 디스크를 스토리지 또는 부팅 디스크로 사용할 수 있도록 UCS(Unified Computing System)-M2-HWRAID를 구성하는 방법에 대해 설명합니다.

사전 요구 사항

요구 사항

다음 주제에 대한 지식을 보유하고 있으면 유용합니다.

- UCS M5 서버
- UCSM 3.2.2b 이상
- UEFI 모드의 호환 가능한 OS(최소 개수 적용) CentOS 7.6ESXi 6.5U2RHEL 7.6WinServer 2016 WinServer 2019기타: <u>UCS 하드웨어 및 소프트웨어 호환성</u> Adapters(어댑터) > RAID > Cisco Boot Optimized M.2 HW Raid Controller(Cisco)

사용되는 구성 요소

이 문서의 정보는 다음 소프트웨어 및 하드웨어 버전을 기반으로 합니다.

- UCS-M2-HWRAID
- 동일한 모델 및 용량의 2x m.2 드라이브

이 문서의 정보는 특정 랩 환경의 디바이스를 토대로 작성되었습니다. 이 문서에 사용된 모든 디바 이스는 초기화된(기본) 컨피그레이션으로 시작되었습니다. 현재 네트워크가 작동 중인 경우 모든 명령의 잠재적인 영향을 미리 숙지하시기 바랍니다.

배경 정보

UCS-M2-HWRAID에는 m.2 검스틱 2개가 있습니다. UCS-M2-HWRAID 및 UCS-MSTOR-M2는 비

슷해 보이지만 이 구성 예에서 하드웨어 RAID에는 UCS-M2-HWRAID 컨트롤러가 필요합니다.

구성

현재 상태 확인

1. 필요한 부품이 서버 인벤토리에 표시되는지 확인합니다.

UCSM에서 Equipment(장비) > Chassis x(섀시 x) > Servers(서버) > Server x(서버 x)로 이동합니다

상단, **마더보드**에서 **인벤토리** 탭을 **선택합니다**. Mini **Storage를** 선택합니다. 이 이미지에 표시된 대 로 모델이 UCS-M2-HWRAID로 표시되는지 확인합니다.

 Mini St 		
mini-storag		
D		
Model	S-M2-HWRAID	
Туре		
Vendor	co Systems Inc	
Revision		
Serial	123327KSH	
VID		
Part Numb	19532-05	
Product Na	isco boot optimized M.2 Raid controller	
Caption	isco boot optimized M.2 Raid controller	
Description	isco boot optimized M.2 Hardware Raid controller with two SATA slots	

2. 2개의 m.2 드라이브가 설치되어 있고 탐지되었는지 확인합니다.

Inventory(인벤토리) > Storage(스토리지) > Disks(디스크)로 이동합니다.

드롭다운에서 Storage Controller Sata 1을 선택합니다.

어떤 m.2 디스크(253 및 254)가 표시되는지, 작동 가능한 상태인지 확인합니다. M6에서 m.2 디스 크 2개는 245와 246입니다. 드라이브 상태는 다를 수 있습니다.

ж	All 👻	Equipment / Chassis / Ch	assis 1 / Servers / S	erver 6						
	✓ Equipment	General Inventory	Virtual Machines	Installed Firmware CIMC Ses	sions SEL Logs VI	Paths Health Diagnos	tics Faults Events	FSM Statistics	Temperatures Power	
	 Chassis 	Motherboard CIMC	Motherboard CIMC CPUs GPUs Memory Adapters HBAs NICs ISCSI VNICs Security Storage Persistent Memory							
~	🕶 Chassis 1 😨	Constroller LLBA	Disks Cocycla							
	 Fans 	CONVOINT CONS	Disks Security							
重	 IO Modules 	+ - Ty Advanced Filte	r 🔶 Export 🖷 Prin	¢.						¢
	 PSUs 	Name	Size (MB)	Serial	Operability	Drive State	Presence	Technology	Bootable	
	▼ Servers	Storage Controller PC.								
	 Server 2 	Storage Controller SA.								
	 Server 3 	Clarace Controller SA								_
	Server 4	■piorage Consolier SAC								
	Convert E	Disk 253	228936	17 8	Operable	Jbod	Equipped	SSD	False	
	· Server o	Disk 254	228936	17 1	Operable	Jbod	Equipped	SSD	False	
J.	 Server 6 😡 									

3. 분리된 LUN이 있는지 확인합니다.

Inventory(인벤토리) > Storage(스토리지) > LUNs(LUN)로 이동합니다.

Storage Controller SATA 1에 드롭다운 화살표가 있는지 확인합니다. 없는 경우 분리된 LUN이 없습니다.

분리된 LUN이 표시되는 경우 구성을 시작하기 전에 하단의 문제 해결 섹션으로 건너뜁니다.

cisco.	UCS Manager			🛞 👽 실 2 27 2	 € 7 			٩	800	• • •
Æ	All v									
•	- Equipment	General Inventory VI	rtual Machines In	nstalled Firmware CIMC Ses	isions SEL Logs VIF Path	s Health Diagnost	ics Faults Events	FSM Statistics	Temperatures Power	
		Motherboard CIMC 0	CPUs GPUs	Memory Adapters HBA	As NICs ISCSI VNICs	Security Storage	Persistent Memory			
몲	- Chassis 1 🕐	Controller LUNs Disk	us Security							
	 Fans 									
-	 IO Modules 	+ - Yr Advanced Filter	🕈 Export 🖷 Print							¢
	 PSUs 	Name	Size (MB)	 Raid Type 	Config State	Deploy Action	Operability	Presence	Bootable	
U U	✓ Servers	Storage Controller PCH 1								
=	 Server 2 	Storage Controller SAS 1								
	 Server 3 									
	 Server 4 	Virtual Drive m.2	228872	RAID 1 Mirrore	Orphaned	No Action	Operable	Equipped	True	
h	Server 5 Server 6									
~	Server 7 00									
	Rack-Mounts	Actions		Properties						
	Enclosures	Rename		Virtual Drive Name	: m.2		Size (MB)	228872		
	FEX	Delete		Type	RAID 1 Mirrored		Block Size	512		
	 Servers 			Available Size on Dis	k Group (MB) : 0		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 Bol	with Through		
				Bostable	The		Drive Cashe	No Change		
				States	. 1100		Diffe Gacile	. He change		
				Operability	: Operable		Oper Qualifier Reason	: N/A		
				Config State	Orphaned		Deploy Action	No Action		
				Storage						
				Profile Name						
				Assigned To Server						
				Service Profile	:					
				Available Size On Dis Drive Members	sk Group (MB) : 0					
				Slot ID	Role	Presence	Span ID		Operability Qualifier Reaso	on
				253	Normal	Equipped	Unspec	ified	N/A	
				254	Normal	Equipped	Unspec	ified	N/A	

스토리지 구성 설정

1. 먼저 스토리지 정책을 만들어야 합니다. 이미지**에** 표시된 대로 **Storage(스토리지) > Storage** Policies(스토리지 정책) > Add(추가)로 이동합니다.



Create **Disk Group Policy(디스크 그룹 정책 생성**) 창**에서 다음을** 수행합니다.

- 이름 입력
- 설명(선택 사항)
- RAID 레벨 RAID1 미러링은 이 가이드에서 사용되며 가장 안전한 옵션입니다.
- Disk Group Configuration Manual 라디오 버튼을 선택합니다.

Create Disk Group Policy

Name : m.2_raid1						
Description : Raid1 group policy for m2. d	rives					
RAID Level : RAID 1 Mirrored						
◯ Disk Group Configuration (Automatic) ⊙ Dis	k Group Configuration (Manual)					
Disk Group Configuration (Manual)						
🏹 Advanced Filter 🔺 Export 🚔 Print			¢			
Slot Number	Role	Span ID				
	No d	lata available				
		🗇 Doloto . 🔍 Info				
Virtual Drive Configuration						
Strip Size (KB) : Platform Default	<u>.</u>					
Access Policy : Platform Default	Read Write O Read Only O Blocked					
			OK Cancel			

Disk Group Configuration (Manual)(Disk Group Configuration(디스크 그룹 컨피그레이션(수동)) 상 자에서 Add Button(추가 버튼)을 클릭합니다.

그러면 새 창 Create Local Disk Configuration Reference가 열립니다.

- 슬롯 번호는 253(첫 번째 m.2의 ID)으로 설정할 수 있습니다. 이 값은 사전 요구 사항에서 확인 할 수 있습니다.
- 역할은 보통이어야 합니다.
- Span ID를 지정하지 않은 상태로 둡니다.
- 이 이미지에 표시된 대로 확인을 클릭합니다.

Create Disk Group Polic	су	? ×
Name : m.2_raid1 Description : Raid1 group policy for r	m2. drives	
RAID Level : RAID 1 Mirrored Disk Group Configuration (Automatic) Disk Group Configuration (Manual)	Create Local Disk Configuration Reference	
Y Advanced Filter ↑ Export ♣ Prin Slot Number 253	Slot Number : 253 [1-254] Role : • Normal Obdicated Hot Spare Oliobal Hot Spare Span ID : unspecified [0-8]	\$
	OK Cancel	
Virtual Drive Configuration		
Strip Size (KB) : Platform Default		
Access Policy : Platform Defa	ault 🔿 Read Write 🔿 Read Only 🔿 Blocked	
	ОК Сан	cel

다른 디스크에 대해 마지막 단계를 반복하지만 이 이미지에 표시된 대로 슬롯 번호 254를 사용합니 다.

Create Disk Group Polic	cy	? ×
Name : m.2_raid1 Description : Raid1 group policy for r RAID Level : RAID 1 Mirrored O Disk Group Configuration (Automatic), Disk Group Configuration (Manual) 7 Advanced Filter	n2. drives Create Local Disk Configuration Reference Slot Number: 254 Role Span ID Unspecified [0-8]	<u>⇒</u>
	OK Cancel	
Virtual Drive Configuration		
Strip Size (KB) : Platform Default		
Access Policy : Platform Defa	uit CRead Write Read Only Blocked	
		OK Cancel

이제 디스크 정책은 다음과 같아야 합니다.

Create Disk Group Policy

lame : m.2_raid1							
Description : Raid1 group policy for m2. drives							
RAID Level : RAID 1 Mirrored							
Disk Group Configuration (Automatic)	 Disk Group Configuration (Manual) 						
Disk Group Configuration (Manual)							
Ty Advanced Filter 🔶 Export 🚔 Print	t		\$				
Slot Number	Role	Span ID					
253	Normal	Unspecified					
254	Normal	Unspecified					
	🕀 Add 📋 Delete	e 🚯 Info					
/irtual Drive Configuration							
Strip Size (KB) : Platform Default	T						
Access Policy : Platform Defa	ult O Read Write O Read Only O Blocked						
			OK Cancel				

? ×

2. 저장 프로파일을 만듭니다.

이 이미지에 표시된 대로 Storage(**스토리지) > Storage Profiles(스토리지 프로필) > Create a** Storage Profile(**스토리지 프로필 생성**)으로 이동합니다.

Æ	All	Storage / Storage Profiles
B	✓ Storage	Getting Started All
	✓ Storage Profiles	Storago Brofilos
윪	🔻 root 🕧	Storage Profiles
	 Sub-Organizations 	A storage profile encapsulates the storage requirements for one or more service profiles and can include:
	✓ Storage Policies	1. Local LUNs, which are configured using a local RAID
	🔻 root 🕚	controller in a UCS blade or rack-mount server.
	 Disk Group Policies 	
=	 Sub-Organizations 	
		LUNs configured in a storage profile can be used as boot or shared among multiple servers for clustered applications
20		Using Storage Profiles
		 Create a <u>Storage Profile</u> Create a <u>Service Profile</u>
		Assign the storage profile to the service profile

스토리지 프로필 생성 창이 열리고 다음 작업을 요청합니다.

- 이름: 논리 이름 입력
- 설명(선택 사항)
- 이 이미지에 표시된 대로 Add(추가) 버튼을 클릭합니다.

Create Storage Profile

Name : m.2_r	aid1		
Description : Profile	e for m.2 raid1 storage		
LUNs			
Local LUNs I	LUN Set Controller	Definitions Security Polic	cy
Te Advanced Filter	🕈 Export 🔒 Print		¢
Name	Size (GB)	Order	Fractional Size (MB)
		No data available	
	Г	🗭 Add 🖮 Delete 🔎 Info	
	L	Aud Mile Delete O mile	
			OK Cancel

? ×

Create Local LUN(로컬 LUN 생성) 창에서 다음을 수행합니다.

- Create Local LUN(로컬 LUN 생성) 라디오 버튼 선택
- LUN에 이름을 지정합니다(m2를 사용함).
- 크기를 1로 설정
- 분수 크기 0 설정
- LUN을 자동으로 구축하려면 선택합니다(no를 선택하는 경우 각 서비스 프로필에서 LUN을 수 동으로 활성화해야 함).
- Expand to Available 상자 선택
- 이전에 만든 디스크 그룹 구성 선택
- 이 이미지에 표시된 대로 [확인]을 클릭하십시오.

UNs config hared amor	^{ng n} Create Stor	age Profile	cean ha dadicatad ta a anaci	? ×
Ising Stora	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 Prepare : m.2 : 1 : 0 : 0 : 0 No Au : 1 : 0 : 1 : not set> [yuration :	Claim Local LUN [0-245760] Ito Deploy Create Disk Group Policy	? ×
				OK Cancel

이제 스토리지 프로필은 다음과 같아야 합니다.

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			

OK(**확인**)를 클릭하면 스토리지 프로파일이 성공적으로 생성되었다는 메시지가 표시됩니다. **확인** 을 눌러 메시지를 지웁니다.

3. 스토리지 프로파일 적용

Servers(**서버) > Service Profiles(서비스 프로필)**로 이동하고 서비스 프로필을 선택합니다. 이 이미 지에 표시된 대로 서비스 프로파일 상단에 있는 스토리지 탭을 클릭합니다.

Æ	All	Servers / Service Profiles	/ root / Service Profile m2	_test	
8	✓ Servers	General Storage	Network iSCSI vNICs	vMedia Policy Boot C	rder Virtual Machines FC Zones
-	✓ Service Profiles	Storage Profiles Loca	al Disk Configuration Policy	vHBAs vHBA Initiator	Groups
뮮	🕶 root 🕐				
	 alfedeli-esxi-01 	Actions		Storage Profile Policy	
	▶ alfedeli-esxi-02	Modify Storage Profile		Name	:
	 alfedeli-esxi-03 			Description	:
	▶ alfedeli-esxi-04			Storage Profile Instanc	e :
=	 alfedeli-proxmox-01 				
	→ m2_test)	Local LUNs LUN Set	Controller Definitions	Security Policy Faults	
	 Sub-Organizations 	Te Advanced Filter ♠ Ex	port 🖷 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 🚯 Ir

이 이미지에 표시된 대로 Modify Storage Profile 링크를 선택합니다.

neral Storage Network ISC	SI vNICs vMedia Policy Boot Order	Virtual Machines FC Zones	Policies Server Details	CIMC Sessions	FSM VIF Paths	Faults	Events
age Profiles Local Disk Configurati	on Policy vHBAs vHBA Initiator Groups						
lons	Storage Profile Policy						
lify Storage Profile	Name :						
	Description :						
	Storage Profile Instance :						
I LUNS LUN Set Controller De	finitions Security Policy Faults						
dvanced Filter 🔶 Export 🌧 Print							
ne RAID Lev	el Size (MB)	Config State	Deploy Name	LUN ID		Drive State	
		① Add 🗋 Delete 🌒					
talls		🕀 Add 🗋 Delete 🌘	Info				
atalls Actions	LUN Details	⊕ Add 🖄 Delete 🌒	info				
etalls Actions Set LUN Name	LUN Details Profile LUN Name :	⊕ Add ① Delete ①	Info	:			
etails Actions Set LUN Name Rename Referenced LUN	LUN Details Profile LUN Name : RAID Level :	🕢 Add 📋 Delete 🌘	Info Order Size (MB)	: :			
etails Actions Set LUN Name Rename Referenced LUN Set Online	LUN Details Profile LUN Name : RAID Level : Configured Size (GB) :	🕢 Add 📋 Delete 🌒	Info Order Size (MB) Admin State	: :			
etails Actions Set LUN Name Rename Referenced LUN Set Online Set Undeployed	LUN Details Profile LUN Name : RAID Level : Configured Size (GB) : Config State :	🛞 Add 📄 Delete 🌒	Order Size (MB) Admin State Bootable				
Details Actions Set LUN Name Rename Referenced LUN Set Online Set Undeployed Claim Orphaned LUN	LUN Details Profile LUN Name : RAID Level : Configured Size (GB) : Config State : Deployed LUN Details	Add Delete	Order Size (MB) Admin State Bootable				
Details Actions Set LUN Name Rename Referenced LUN Set Online Set Undeployed Claim Orphaned LUN	LUN Details Profile LUN Name : RAID Level : Configured Size (GB) : Config State : Deployed LUN Details LUN New Name :	Add Delete	Order Size (MB) Admin State Bootable Referenced LU	: : : !			
Details Actions Set LUN Name Rename Referenced LUN Set Online Set Undeployed Claim Orphaned LUN	LUN Details Profile LUN Name : RAID Level : Configured Size (GB) : Config State : Deployed LUN Details LUN New Name : Deploy Name :	Add Delete	Order Size (MB) Admin State Bootable Referenced LL LUN ID	: : : : ! NName : :			

Modify Storage Profile 창에서 다음을 수행합니다.

- Storage Profile Policy(스토리지 프로필 정책) 탭 선택
- Storage Profile(스토리지 프로필) 드롭다운에서 이 이미지에 표시된 대로 이전에 생성한 프로

필을 선택합니다.

Servers / Service	e Profiles / root /	Service Pro	ofile m2_te	st						
General St	orage Network	k iSCSI v	vNICs v	/Media Policy	Boot Order	Virtual Machines	FC Zones	Policies	Server Details	CIMC Se
Storage Profiles	Local Disk C	onfiguration F	Policy v	HBAs vHB	A Initiator Groups					
Actions				Storage Profi	e Policy					
Madify Storage	Drofilo			Name						
woully Storage	Modify St	orade [Drofile	Humo					2	×
	Moully Of	orager	TOTILO							
	Specific Storag	e Profile	Storage P	Profile Policy						
Local LUNs	Storage Profile:	Coloct Stor	rago Drofilo t		•	Create S	torage Profile			
Te Advanced Fi	otorage Prome.	Select Stor	torage Profile (file to use			to ago i to mo			
Name	No Storage P	No Storad	ae Profile		-					
		Storage F	Profiles		-					
	ſ	m.2_raid	1							
	Ľ									
_										
Details										
Actions										
Set LUN Na										:
Rename Rel										:
Set Undeplo										:
Claim Orpha										:
								OK	Cancel	
									Januar	

이제 창이 다음과 같아야 합니다.

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

Banna B	ers / Service Profiles / root / s	Service Profile m2_										
etclas Storage Profile etclas Storage Profile etclas Storage Profile eddy Storage Profile Storage Profile max Condy State max Condy State eddy Storage Profile Storage Profile max Not Applied	meral Storage Network	iSCSI vNICs	vMedia Policy	Boot Order	Virtual Machines	FC Zones Policies	Server Details	CIMC Sessions	FSM	VIF Paths	Faults	Events
teins bio	orage Profiles Local Disk Cor	nfiguration Policy	vHBAs vHBA I	Initiator Groups	•							
add \$ \$500p\$ Profile Name m. 2. profile cat LUN LUN Set Controler Definition Security Policy Advacced File Image Security Policy Parts Advacced File Advacced File Image Security Policy Image RAD Loved Order Security Policy Image LUN Details Set Unamore RAD Loved Set Unamore Image Set Unamore RAD Replied Set Unamore RAD Replied Set Unamore Image Set Unamore Image Set Unamore Image<	ctions		Storage Profile	Policy								
Kall LUN Set Controller Definitions Security Policy Partie Advanced File * Expet * Print ame RAD Level Size (MB) Config State Deploy Name LUN ID Drive State m.2 RAD 1 Mirrored 0 Not Applied Actions LUN Details Set Undapployed Config State Order Not Applieable Set Onine Size (MB) Config State Order Not Applieable Compared Referenced LUN Size (MB) : 0 Set Onine Size (MB) <td: 0<="" td=""> Set Onine Config State Size (MB) <td: 0<="" td=""> Compared Size (GB): 1 Admine State Undeployed Compared Size (GB): 1 Admine State Undeployed Compared Size (GB): 1 Config State Size (MB) <td: 0<="" td=""> Set Onine Size (MB) : 0 Size (MB) : 0 Set Onine Config State Not Applied Bootable : Disabled Compared Size (GB): 1 Config State : Not Applied Size (MB) <td: 0<="" td=""> Set Onine Size (MB) : 0 Size (MB) : 0 Set Onine Config State : Not Applied Bootable : Disabled</td:></td:></td:></td:>	odify Storage Profile		Name Description Storage Profile	: m.1 : Pro Instance : org	2_raid1 ofile for m.2 raid1 stora -root/profile-m.2_raid1	rage 1						
Advanced Fiter * Loont Print Config State Deploy Name LUN ID Drive State mn2 RAID 1 Mirrored 0 Not Applied LUN ID Drive State m.2 RAID 1 Mirrored 0 Not Applied Vertein Vertein Vertein etails Vertein Vertein Vertein Set LUN Name Printle LUN Name m.2 Order Not Applicable Rename Referenced LUN RAID Level RAID 1 Mirrored Size (MB) 1 Order Vertein Set Config Config State RAID 1 Mirrored Size (MB) 1 Order Vertein Vertein Set Config Config State Not Applied Size (MB) 1 Order Vertein Vertein Set Config Main State Vordepoint Vertein	cal LUNS LUN Set Cont	roller Definitions	Security Policy	Faults								
nn 2 RAID Level 3ize (MB) Config State Deploy Name LUN ID Drive State n.2 RAID 1 Mirrored 0 Not Applied LUN Details Set LUNA Partice State S	Advanced Filter 🔶 Export 🖷	Print										
m.2 RAID 1 Mirrored 0 Not Applied	ame R	AID Level	Size (M	IB)	Config Stat	te D	eploy Name	LUN ID		C	Drive State	
Image: Info tetalls Actions LUN Details Set LUN Name Profile LUN Name m.2 Order : Not Applicable Rename Referenced LUN RAID Level : RAID 1 Mirrored Size (MB) : 0 Set Online Configured Size (GB): 1 Admin State : Undeployed Set Undeployed Config State : Not Applied Botable : Disabled Claim Orphaned LUN Config State : Not Applied Botable : Disabled Deploy Name : LUN New Name : Referenced LUN Name : Deploy Name : Dep		AID 1 Mirrored	0		Not Applied	d						
Actions LUN Details Set LUN Name Profile LUN Name m.2 Order : Not Applicable Rename Referenced LUN RAID Level : RAID 1 Mirrored Size (MB) : 0 Set Online Configured Size (GB): 1 Admin State : Undeployed Claim Orphaned LUN Config State : Not Applied Botable : Disabled Claim Orphaned LUN Deployed LUN Details ILUN New Name : Referenced LUN Name: : Deployed LUN Name : . Referenced LUN Name: : . Deployed LUN Name : Deployed LUN Name : Deployed LUN Name : Deployed LUN Name : Drive State : Drive State :	m.2 R											
Set LUN Name Profile LUN Name im.2 Order i Not Applicable Rename Referenced LUN RAID Level i RAD1 Mirrored Size (MB) i O Set Online Configured Size (GB) 1 Admin State i Undeployed Config State Not Applied Botable i Undeployed Claim Orphaned LUN Config State i Not Applied Botable i Undeployed Claim Orphaned LUN Config State i Not Applied Botable i Undeployed Claim Orphaned LUN Config State i Not Applied Botable i Undeployed Claim Orphaned LUN Config State i Not Applied Botable i Undeployed Divie State i Config State i Config State i Config State i Config State	m.2 R				⊕ Add	Delete Info Info						
Rename Referenced LUN RAID Level RAID 1 Mirrored Size (MB) : O Set Online Configured Size (GB) : 1 Admin State : Undeployed Set Undeployed Config State : Not Applied Bootable : Disable Claim Orphaned LUN Config State : Not Applied Referenced LUN Nation : Disable Deployed LUN New Name : Config State : : Disable Deploy Name : LUN New Name : : Drive State : : :	m.2 R Details Actions		LUN Details		① Add	Delete Info 						
Set Online Configured Size (GB) : I Admin State I Undeployed Set Undeployed Confg State : Not Applied Botable : Claim Orphaned LUN Deloyed LUN Version :	m.2 R betalls Actions Set LUN Name		LUN Details Profile LUN N	Name : m.2	⊕ Add	Delete Info	Order	: Not Appli	cable			
Config State Config State Not Applied Bootable Disabled Claim Orphaned LUN Config State Not Applied Bootable I Disabled Deployed LUN New Name LUN New Name Referenced LUN Name Referenced LUN Name Deploy Name I Disabled LUN ID I Disabled	m.2 R Details Actions Set LUN Name Rename Referenced LUN		LUN Details Profile LUN N RAID Level	Name : m.2	Add E D 1 Mirrored	Delete () Info 	Order Size (MB)	: Not Appli : 0	cable			
Deployed LUN Details Referenced LUN Name : LUN New Name : Deploy Name : Drive State :	m.2 R Details Actions Set LUN Name Rename Referenced LUN Set Online Set Unions		LUN Details Profile LUN N RAID Level Configured S	Name : m.2 : RAI Size (GB) : 1	Add C D 1 Mirrored	Delete 🕕 Info	Order Size (MB) Admin State	: Not Appli : 0 : Undeploy	cable			
Deploy Name : LUN ID : Drive State :	m.2 R		LUN Details Profile LUN N RAID Level Configured S Config State	Name : m.2 : RAI Size (GB) : 1 : Not	Add	Delete 🕕 Info	Order Size (MB) Admin State Bootable	: Not Appli : 0 : Undeploy : Disabled	cable			
Drive State :	m.2 R Details Actions Set LUN Name Rename Referenced LUN Set Online Set Undeployed Claim Orphaned LUN		LUN Details Profile LUN N RAID Level Configured S Config State Deployed LUN New Nar	Name : m.2 : RAI Size (GB) : 1 : Not JN Details	Add	Delete Delete	Order Size (MB) Admin State Bootable	: Not Appli : 0 : Undeploy : Disabled	cable			
	m.2 R Details Actions Set LUN Name Rename Referenced LUN Set Online Set Undeployed Claim Orphaned LUN		LUN Details Profile LUN N RAID Level Configured S Config State Deployed LU LUN New Nar	Name : m.2 : RAI Size (GB) : 1 : Not JN Details 	Add D 1 Mirrored Applied	Delete () Info	Order Size (MB) Admin State Bootable Referenced LI LUN ID	: Not Appli : 0 : Undeploy : Disabled IN Name : :	cable			

창에서 확인을 선택하고 성공 창을 선택합니다.

자동 구축이 활성화 또는 비활성화된 경우 로컬 LUN이 온라인 상태로 설정되었는지 확인합니다. LUN을 온라인으로 설정하려면 이 이미지에 표시된 대로 **온라인 설정** 버튼을 클릭합니다.

dify Storage Profile		Name : m.2_r	ald1			
		Description : Profile Storage Profile Instance : org-ro	e for m.2 raid1 storage pot/profile-m.2_raid1			
al LUNS LUN Set Co	ontroller Definitions Si	ecurity Policy Faults				
Advanced Filter 🔶 Export	A Print					
ne	RAID Level	Size (MB)	Config State	Deploy Name	LUN ID	Drive State
			🕀 Add 💿 Delete			
talls Actions		LUN Detalls				
Set LUN Name		Profile LUN Name : m.2		Order	: Not Applicable	
		RAID Level : RAID 1	Mirrored	Size (MB)	: 0	
Set Online Set Undeployed		Configured Size (GB): 1		Admin State	: Undeployed	
Claim Orphaned LUN		Config State : Not Ap	plied	Bootable	Disabled	
		LUN New Name :		Referenced LUN N	lame :	
		Deploy Name :		LUN ID	:	
		Drive State :				
Details						
Action	S					
Set LU	N Name					
Renam	e Referen	ced LUN				
Set On	line					
	deployed					
Set Un						

LUN이 온라인 상태가 되면 Applied Config 상태 및 Optimal Drive 상태가 표시됩니다.

4. LUN을 확인합니다.

Servers / Service Profiles / root / Service Profile m2_test

서비스 프로필의 General(일반) 탭 아래에서 이 이미지에 표시된 대로 Associated Server(연결된 서 버)에 대한 링크를 클릭합니다. 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	•	Δ	0	Pending Ac	ctivities								
0	0	0	1	Reboot now									
				Pending Di	isruptions : default	tValue							
Status				Pending Cf	hanges : operat	ional-policies							
Overall Sta	tus : Config			+ Detai	ils								
🕂 Statu	s Details			Name	: m	2_test							
				User Label	:								
Actions				Description	: [
				Accet Teg									
				Owner		cal							
Shutdown S	erver			Unique Ident	tifier : d8	1b94dc-8601-1	1e9-0000-00	000000001f					
Reset				UUID Pool	: alf	edell_prod							
KVM Conso	le >>			UUID Pool In	istance : or	g-root/uuid-pool-	-alfedeli_prod						
				Associated S	Server : sy:	s/chassis-1/blad	e-6						
Rename Ser	rvice Profile			Service Profi	ile Template :								
Create a Clo	one			Template Ins	stance :								
Create a Se	rvice Profile Template			Assign	ned Server or Se	erver Pool							
Disassociate	e Service Profile			() Manage									
Change Ser	vice Profile Association			(+) Manag	gement IP Addre	:55							
				Mainte	enance Policy								
Bind to a Te	mplate			0									
Reapply Co	nfiguration												
Change Mai	intenance Policy												
Set UUID Sy	nc Behavior												
Change UU	ID												
Reset UUID	and an in the Address												
Change Mai	nagement IP Address												
Modify vNIC	/vHRA Placement												
Start Fault S	Suppression												
Stop Fault S	Suppression												
Suppression	n Task Properties												
Delete													

Inventory(인벤토리) > Storage(스토리지) > LUNs(LUN)로 이동합니다.

스토리지 컨트롤러 SATA 1의 왼쪽에 있는 드롭다운 화살표를 **선택합니다**. [드라이브 프로필 이름]이 표시되어야 합니다.

드라이브의 크기는 자동 구성되어야 하며 이 이미지에 표시된 대로 작동 가능**, 사용 가능, 사용 가능 및 부팅 가능** 상태여야 합니다.

General Inventory Virtual atherboard CIMC CPUs ntroller LUNs Disks - 7, Advanced Filter ↑ Export ↑ Storage Controller PCH 1 Storage Controller SAS 1 ↓ Ptorage Controller SATA 1 ↓	Machines Insta GPUs Mem Security rt Print Size (MB)	Raid Type	CIMC Sessions HBAs NICs Config State	SEL Logs VIF Pa s iSCSI vNICs Deploy Action	aths Health Security Stora Operability	Diagnostics Faul	emory Bootable	FSI>
therboard CIMC CPUs ntroller LUNs Disks - T₂ Advanced Filter ↑ Export me S Storage Controller PCH 1 Storage Controller SAS 1 ptorage Controller SATA 1	GPUs Mem Security rt ● Print Size (MB) ▲	Raid Type	HBAs NICs Config State	s iSCSI vNICs	Security Store	Persistent Me	emory Bootable	≎
ntroller LUNs Disks — T₂ Advanced Filter ↑ Export Ime S Storage Controller PCH 1 Storage Controller SAS 1 Ptorage Controller SATA 1	Security rt Print Size (MB)	Raid Type	Config State	Deploy Action	Operability	Presence	Bootable	¢
− T ₂ Advanced Filter ↑ Export me S Storage Controller PCH 1 Storage Controller SAS 1 Ptorage Controller SATA 1	rt 🚔 Print Size (MB) 🔺	Raid Type	Config State	Deploy Action	Operability	Presence	Bootable	\$
Ime S Storage Controller PCH 1 Storage Controller SAS 1 Ptorage Controller SATA 1	Size (MB) 🔺	Raid Type	Config State	Deploy Action	Operability	Presence	Bootable	
Storage Controller PCH 1 Storage Controller SAS 1 Ptorage Controller SATA 1								
Storage Controller SAS 1 Storage Controller SATA 1								
Storage Controller SATA 1								
Virtual Drive m.2 2	228872	RAID 1 Mirrored	Applied	No Action	Operable	Equipped	True	
					(OK Apply	Cancel	Help

5. m.2 어레이를 부팅하도록 부팅 순서를 설정합니다.

서비스 프로필에서 이 이미지에 표시된 대로 Boot Order(부팅 순서) 탭을 선택합니다.

General	Storage	Network	iSCSI vNICs	vMedia Pol	icy	Boot Order	Virtual Machines	FC Zones
Storage Pro	files Lo	cal Disk Conf	iguration Policy	vHBAs	VHBA I	Initiator Groups	3	
Actions				Storage	Profile	Policy		
Modify Stora	age Profile			Name Descrip	tion	: m.: : Pro	2_raid1 ofile for m.2 raid1 sto	orage
				Storage	Profile	Instance : org	j-root/profile-m.2_rai	d1
Local LUNs	LUN Se	et Contro	ller Definitions	Security Pol	licy	Faults		
Te Advanced	d Filter 🛛 🛧 I	Export 🛛 🖷 P	rint					
Namo		PA			Sizo (MI	B)	Config St	ate

Uefi를 사용하도록 부팅 정책을 **설정합니다.** 설치 미디어(있는 경우)가 있는 후 [**로컬 디스크 추가]** 옵션**을** 선택합니다. 다음은 부팅 정책이 정확하게 일치하지 않을 수 있는 예입니다.

Modify Boot Policy

 Local Devices 	Boot Order	r Change :							
Add Local Disk	Enforce vNIC/vHBA/i	SCSI Name :							
	Boot Mode	: 0	Legacy () Uefi	1					
	Boot Security	: 0]					
	WARNINGS:	. –							
	The type (primary/sec	ondary) does not	indicate a boot (der presence.					
	The effective order of	boot devices with	nin the same dev	e class (LAN/S	Storage/iSCSI)	is determined	i by PCle bu	s scan orde	ŕ.
	The effective order of If Enforce vNIC/vHBA If it is not selected, the	boot devices with /ISCSI Name is s vNICs/vHBAs an	nin the same dev elected and the e selected if the	e class (LAN/S NIC/vHBA/ISCS	Storage/ISCSI) SI does not ex e the vNIC/vH	is determined ist, a config ei BA with the lo	t by PCIe bu ror will be re west PCIe b	s scan orde eported. us scan orde	r. er is used
	The effective order of If Enforce vNIC/vHBA If it is not selected, the	boot devices with /ISCSI Name is s e vNICs/vHBAs ar d Filter	hin the same devi elected and the e selected if the	e class (LAN/S NIC/vHBA/ISCS exist, otherwise	Storage/iSCSI) SI does not ex e the vNIC/vH	is determined ist, a config ei BA with the lo	d by PCle bu ror will be re west PCle b	s scan orde eported. us scan orde	r. er is used. ਨੋ
Add Internal USB Add External USB Add Embedded Local LUN Add Embedded Local Disk	The effective order of If Enforce vNIC/vHBA If it is not selected, the + - Ty Advance	boot devices with /ISCSI Name is s e vNICs/vHBAs ar d Filter	the same device elected and the elected and the elected if the elected if the elected and the e	e class (LAN/S NIC/vHBA/ISCS exist, otherwise	Storage/ISCSI) SI does not ex e the vNIC/vH	IS determined ist, a config el BA with the lo	d by PCIe bu rror will be re west PCIe b	s scan orde eported. us scan orde	r. er is used.
Add Internal USB Add External USB Add Embedded Local LUN Add Embedded Local Disk Id CD/DVD	The effective order of If Enforce vNIC/vHBA If it is not selected, the + - Ty Advance Name	boot devices with /ISCSI Name is s a vNICs/vHBAs ar d Filter	hin the same device elected and the e selected if the t Print vNIC/v Ty	e class (LAN/S NIC/vHBA/ISCS exist, otherwise e LUN Na	Storage/ISCSI) SI does not ex e the vNIC/vH a WWN	is determined ist, a config ei BA with the lo Slot Nu	d by PCIe bu rror will be re west PCIe b Boot N	s scan orde eported. us scan orde Boot Pa	r. er is used. Descrip
Add Internal USB Add External USB Add Embedded Local LUN Add Embedded Local Disk dd CD/DVD Add Local CD/DVD	The effective order of If Enforce vNIC/VHBA If it is not selected, the + - Ty Advance Name CD/DVD	boot devices with //SCSI Name is s vNICs/vHBAs ar d Filter	hin the same develeted and the e selected if the reselected if the reselected if the vNIC/v Ty	e class (LAN/S NIC/vHBA/ISCS exist, otherwise e LUN N	Storage/ISCSI) SI does not ex e the vNIC/vH a WWN	is determined ist, a config e BA with the lo Slot Nu	d by PCle bu rror will be re west PCle b Boot N	s scan orde aported. us scan orde Boot Pa	r. er is used. \$
Add Internal USB Add External USB Add Embedded Local LUN Add Embedded Local Disk dd CD/DVD Add Local CD/DVD Add Remote CD/DVD	The effective order of If Enforce vNIC/VHBA If it is not selected, the + - T/Advancer Name CD/DVD Local Disk	boot devices with /ISCSI Name is s e vNICs/vHBAs ar d Filter	hin the same develected and the e selected if the t Print vNIC/v Ty	e class (LAN/S NIC/vHBA/ISCS exist, otherwise e LUN N	storage/iSCSI) SI does not ex e the vNIC/vH a WWN	is determined ist, a config ei BA with the lo Slot Nu	d by PCle bu rror will be re west PCle b Boot N	s scan order eported. us scan orde Boot Pa	r. er is used. \$
Add Internal USB Add External USB Add Embedded Local LUN Add Embedded Local Disk dd CD/DVD Add Local CD/DVD Add Remote CD/DVD dd Floppy	The effective order of if Enforce vNIC/vHBA If it is not selected, the + - Ty Advance Name CD/DVD Local Disk	boot devices with /ISCSI Name is s e vNICs/vHBAs ar d Filter	hin the same dev. velected and the e selected if the t Print vNIC/v Ty	e class (LAN/S NIC/vHBA/ISCS exist, otherwise e LUN N	storage/iSCSI) SI does not ex e the vNIC/vH a WWN	is determined ist, a config ei BA with the lo Slot Nu	d by PCle bu rror will be rr west PCle b Boot N	s scan order eported. us scan orde Boot Pa	r. er is used. Descrip
Add Internal USB Add External USB Add Embedded Local LUN Add Embedded Local Disk dd CD/DVD Add Local CD/DVD Add Remote CD/DVD dd Floppy Add Local Floppy	The effective order of if Enforce vNIC/VHBA If it is not selected, the + - Ty Advance Name CD/DVD Local Disk	boot devices with /ISCSI Name is s e vNICs/vHBAs ar d Filter	hin the same develected and the e selected if the transformer tran	e class (LAN/S NIC/vHBA/ISCS exist, otherwise e LUN N	storage/ISCSI) SI does not ex e the vNIC/vH a WWN	is determined ist, a config ei BA with the lo	I by PCIe bu ror will be re west PCIe b Boot N	s scan order eported. us scan order Boot Pa	r. er is used. Descrip
Add Internal USB Add External USB Add Embedded Local LUN Add Embedded Local Disk dd CD/DVD Add Local CD/DVD Add Remote CD/DVD dd Floppy Add Local Floppy Add Remote Floppy	The effective order of If Enforce vNIC/VHBA If it is not selected, the + - Ty Advance Name CD/DVD Local Disk	boot devices with /ISCSI Name is s e vNICs/vHBAs ar d Filter	hin the same develected and the e selected if the transformer tran	e class (LAN/S NIC/vHBA/ISC exist, otherwise e LUN N	storage/ISCSI) SI does not ex e the vNIC/vH	is determined ist, a config ei BA with the lo	I by PCIe bu ror will be re west PCIe b Boot N	s scan orde eported. us scan orde Boot Pa	r. er is used. Descrip
Add Internal USB Add External USB Add Embedded Local LUN Add Embedded Local Disk Add CD/DVD Add Local CD/DVD Add Remote CD/DVD Add Local Floppy Add Local Floppy dd Remote Floppy	The effective order of If Enforce vNIC/VHBA If it is not selected, the + - T/Advancer Name CD/DVD Local Disk	boot devices with /ISCSI Name is s e vNICs/vHBAs ar d Filter	hin the same develected and the e selected if the rt Print vNIC/v Ty	e class (LAN/S NIC/vHBA/ISCS exist, otherwise e LUN N	storage/ISCSI) SI does not ex e the vNIC/vH	is determined ist, a config ei BA with the lo Slot Nu	I by PCIe bu rror will be re west PCIe b Boot N	s scan orde aported. us scan ord Boot Pa	r. er is used. \$

구성을 적용하려면 호스트를 재부팅해야 합니다. 그러면 스토리지 **프로필**에서 Bootable(부팅 가능) 필드**가 Disabled(비활성화됨)**에서 Enabled(활성화됨)로 변경됩니다.

다음을 확인합니다.

Inventory(**인벤토리**) > Storage(스토리지) > LUN > Config State is Applied(컨피그레이션 상태가 적 용됨)를 선택합니다.

문제 해결

이 섹션에서는 컨피그레이션 문제를 해결하는 데 사용할 수 있는 정보를 제공합니다.

분리된 LUN이 발견되면 LUN을 선택하고 **삭제**를 선택합니다. 이 이미지에 표시된 대로 어레이에 있는 모든 데이터가 제거됩니다.

cisco. UCS Manager

2 27

• **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			robableen	
🔸 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