# 在模組化RAID控制器中新增虛擬驅動器

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## 簡介

本文檔介紹使用模組化RAID控制器(Cisco 12G SASA模組化RAID)配置磁碟驅動器組和虛擬驅動器、RAID配置以及在預引導環境中執行其他配置任務的過程。

### 新增虛擬驅動器的過程

執行以下步驟,使用模組化RAID控制器配置驅動器組和虛擬驅動器。

1.登入Cisco UCS Manager。

2. 開啟主機的控制檯。

#### 3.重新啟動主機

File View	Macros Tool	s Power Virtual Media He	b			
	ID LU	IN VENDOR	PRODUCT	REVISION	CAPACITY	
		LSI	Cisco 12G SAS Modular Rai	d 4.250.01-3633	OMB	
	8 0	SEAGATE	ST600MM0006	0001	572325MB	
	10 0	SEAGATE	ST600MM0006	0001	572325MB	
	12 0	SEAGATE	ST600MM0006	0001	572325MB	
	13 0	SEAGATE	ST600MM0006	0001	572325MB	
	14 0	ATA	INTEL SSDSC2BB48	0370	457862MB	
	Θ	LSI	Virtual Drive	RAID1	571250MB	
	Θ JBO	D(s) found	on the host adapter			
	Θ JBO	D(s) handle	d by BIOS 👘			
	1 Vir	tual Drive(	s) found on the host adapt	er.		
	1 Vir	tual Drive(	s) handled by BIOS	1 WATA 14		
	Press	<ctrl><r></r></ctrl>	to Kun MegaKHID Configurat	ion Utility		



Cisco 12G SAS Modular Raid Controller BIOS Conf	iguration Utility 5.06-0004
UD Mgmt PD Mgmt Ctrl Mgmt Properties	
Virtual Drive Manageme	ent —
[-] Cisco 12G SAS Modular Rai (Bus 0x05, Dev 0x00	<b>9)</b>
-[-] Drive Group: 0, RAID 1	Controller:
-[-] Virtual Drives	Drive Groups: 1
└── ID: 0, RAID1_23, 557.86 GB	Virtual Drives: 1
-[+] Drives	Drives: 5
-[+] Available size: 0.00 KB	
- Hot spare drives	
L-] Unconfigured Drives	
├──::01: Ready: 446.10 GB	
—::04: Ready: 557.86 GB	
└──::05: Ready: 557.86 GB	
F1-Help F2-Operations F5-Refresh Ctrl-N-Next Page	e Ctrl-P-Prev Page F12-Ctlr
	10.255.0.47 admin 0.4 fps 0.002 KB/s 🔒

將游標放在控制器名稱Cisco 12G SASA模組化RAID上,然後按**F2**。

#### 選擇Create Virtual Drive。

Cisco 12G SAS Modular Raid Controller BIOS Conf	iguration Utility 5.06-0004
UD Mgmt PD Mgmt Ctrl Mgmt Properties	
Uirtual Drive Managemen	nt – j
[−] Cisco 12G SAS Modular Rai (Bus 0x05, Dev 0x00	
└─[-] Drive Group: 0, RAID 1	Create Virtual Drive
-[-] Virtual Drives	
└── ID: 0, RAID1_23, 557.86 GB	Clear Configuration
-[+] Drives	
-[+] Available size: 0.00 KB	Foreign Config
└── Hot spare drives	
└─[-] Unconfigured Drives	Manage Preserved Cache
├──::01: Ready: 446.10 GB	
—::04: Ready: 557.86 GB	Drive Security
└──::05: Ready: 557.86 GB	
	Disable Data Protection
	Advanced Software Options
	·
F1-Help F2-Operations F5-Refresh Ctrl-N-Next Page	Ctrl-P-Prev Page F12-Ctlr
	10.255.0.47 admin 1.2 fps 0.592 KB/s
	, ,

此處顯示有助於配置RAID的VD管理。

ile View Macros Tools Power Virtual Media Help						
Cisco 12G SAS Modular Raid Controller BIOS Configuration Utility 5.06-0004						
Virtual Drive Management						
Create New UD						
RAID Level: RAID-O PD per Span : NZA						
Drives						
Secure VD: No [ ]::01 512e 446.10 GB						
[ ]::04 557.86 GB						
Data Protection: Disable						
- Basic Settings						
Size: Advanced OK CANCEL						
Name :						
F1-Help F12-Ctlr						
10.255.0.47 admin 0.4 fps 0.001 KB/s						

附註: Cisco 12G SASA模組化RAID僅支援RAID 0和RAID 1。

#### 根據要求選擇RAID。

File View Macros Tools Power Virtual Media Help	
Cisco 12G SAS Modular Raid Controller BIOS Conf	iguration Utility 5.06-0004
UD Mgmt PD Mgmt Ctrl Mgmt Properties	
Create New UD	nt -
RAID Level: RAID-6 PD per Span : NZ	A
ID Type	Size #
Secure OD: n [ ]::01 512e	110.10 GB
Data Protection: Disable	557.86 GB
Basic Settings	OK CANCEL
Name:	
F1-Help F12-Ctlr	
	10.255.0.47 admin 2.2 fps 1.25 KB/s

選擇RAID後,選擇將成為此RAID一部分的硬碟。

#### 例如,選擇驅動器4和驅動器5,如下所示。

File View Macros Tools Power Virtual Media Help							
Cisco 12G SAS Modular Raid Controller BIOS Cor	nfiguration Utility 5.06-0004						
UD Mgmt PD Mgmt Ctrl Mgmt Properties							
Virtual Drive Management							
Create New VD							
RAID Level: RAID-1 PD per Span : P	1ZA						
ID Tur	be Size #						
Secure VD: No []::01 512	2e 446.10 GB						
[X]::04	557.86 GB 00						
[X]::05	557.86 GB 01						
Data Protection: Disable							
- Basic Settings							
Size: 552.861 GB Advanced	OK CANCEL						
	Children Children						
Name: SOL							
	J						
F1-Help F12-Ctlr							
	10.255.0.47 admin 1.2 fps 0.623 KB/s 🔒						

現在,按OK。

此警告消息將顯示在螢幕上,請按**確定**。

File View Macros Tools Power Virtual Media Help Cisco 12G SAS Modular Raid Controller BIOS Configuration Utility 5.06-0004 UD Mgmt PD Mgmt Ctrl Mgmt Properties Virtual Drive Management **RAID Level:** RAID-1 PD per Span : N/A It is recommended that all newly created logical drives be initialized unless you are attempting to recreate a previous configuration and recover data as initialization is a destructive process. Are you sure you want to skip initialzation? Secure V Data Pro - Basic Size: OK Name: F1-Help F12-Ctlr 10.255.0.47 admin 1.2 fps 0.637 KB/s 🔒



在此螢幕抓圖中,您看到一個帶有2個物理驅動器的新虛擬驅動器已成功新增。

# 相關資訊

- http://www.cisco.com/c/dam/en/us/td/docs/unified\_computing/ucs/3rdparty/lsi/erswug/guide/48712-00B\_EmbMRAID\_SWUG.pdf
- <u>技術支援與文件 Cisco Systems</u>