使用Flexflash控制器FX3S排除CIMC中未分割槽的SD卡故障

簡介

本文說明如何對Flexflash控制器上的未分割槽SD卡錯誤進行故障排除。

必要條件

需求

本文件沒有特定需求。

採用元件

本文中的資訊係根據以下軟體和硬體版本:

- 獨立C系列伺服器
- Flexflash控制器FX3S
- •兩個大小相同的SD卡
- CIMC版本3.X或更高版本

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除(預設))的組態來啟動。如果您的網路運作中,請確保您瞭解任何指令可能造成的影響。

問題

錯誤消息和故障代碼

故障代碼:F1260

說明:Flex Flash虛擬驅動器1(虛擬機器監控程式)已降級:請檢查快閃記憶體裝置或控制器

原因:裝置降級

故障代碼:F1262

說明:Flexflash控制器Flexflash-0配置錯誤:正確設定Flexflash控制器

原因:裝置不正常

附註:出現1個SD卡問題的場景。

Fault Summary	Fault History	System Event	Log Cisco IMC Log	Logging Controls	•				
Fault Entries	5							То	tal 2 🖏 👻
							Show	Quick Filter	• 🔽
Time	Severity	Code	Domain Name		Probable Cause	D	Description		
2020-07-21T10:32	:26 🔷 Warning	F1260	sys/rack-unit-1/board/storag	e-flexflash-FlexFlash-0/vd-1	equipment-degraded	F	Flex Flash Virtual Drive 1 (Hypervisor) Degraded: please check	the flash device or the co	ntroller
2020-07-21T10:32	26 🔷 Warning	F1262	sys/rack-unit-1/board/storag	ge-flexflash-FlexFlash-0	equipment-unhealthy	F	Flex Flash controller FlexFlash-0 configuration error: configure	the flex controller correctly	/
Faults Histor	y							To	tal3 ‡‡ ≠
							Show	Quick Filter	•
Time	Sever	ity 🔻 P	robable Cause	Description					
2020 Jul 21 10:32:	26 BST 🔒 Not	ice E	QUIPMENT_DEGRADED	[F1260][warning][equipment	-degraded][sys/rack-unit-1/bo	board	d/storage-flexflash-FlexFlash-0/vd-1] Flex Flash Virtual Drive 1	(Hypervisor) Degraded: p	lease
2020 Jul 21 10:32:	26 BST 🔒 Not	ice E	QUIPMENT_UNHEALTHY	[F1262][warning][equipment	-unhealthy][sys/rack-unit-1/b	boar	d/storage-flexflash-FlexFlash-0] Flex Flash controller FlexFlash	h-0 configuration error: co	nfigure
2020 Jul 21 10:32:	21 BST Det	bug L	OG_DEBUG	SEL INIT DONE					

導覽至**Storage > Cisco Flexflash**後,可以看到SD卡1未分割槽,虛擬驅動器虛擬機器監控程式已按 預期降級

♠ /	/ Cisco FlexFlash	/ Virtual Drive	95 🛧			Refre	sh Host Power Launch	KVM Ping CIMC Reboot Locator LED @
Gene	ral Physical Drives	Virtual Drives	FlexFlash Logs					
Virtu	al Drives							Selected 0 / Total 1 4
D	isable Virtual Drive	Sync Virtual Drive	Erase Virtual Drive					
	Virtual Drive	ID	Drive Scope Size	Drive Status	Host Accessible	Drive Type	Operation in Progress	Last Operation Status
	Hypervisor	1	Raid 30432 MB	Degraded	Not-Connected	Removable	NA	none
♠ / Gene	/ Cisco FlexFlash ral Physical Drives	/ Physical Drives	FlexFlash Logs			Refre	sh Host Power Launch I	KVM Ping CIMC Reboot Locator LED @
Phys	ical Drives							Total 2 🖏
8	Physical Drives	Status	Controller Card T	Car	d Mode Health	Sync Mode	Slot Number	
	LOT-1	present	FlexFlash-0 unparti	tioned card NA	NA	NA	SLOT-1	
	Capacity:	30436 MB	Partition Count:	0	Signature:	000000000000000000000000000000000000000	000000000000	
	OEM ID:	GH	Write Error Threshold:	0	Product Name:	SMART		
	Block Size:	512 bytes	Manufacturer ID:	137	Serial Number:	0x1010886f		
	Card Status:	NA	Read Error Count:	0	Write Enabled:	true		
	Product Revision:	3.0	Write Error Count:	0	Drives Enabled:			
	Password Protected:	false	Read Error Threshold:	0	Manufacturing Date:	7/19		
	Dirty Partition Map:	NA	Stale Partition Map:	NA				
• 5	LOT-2	present	FlexFlash-0 FX3S of	configured mim	or-secondary healthy	manual	SLOT-2	

Flexflash控制器狀態顯示在此處的影象中。

n / / Cisco FlexFlash / G		
General Physical Drives	Virtual Drives FlexFlash Logs	
Activate / Reset FlexFlash Controller	Configure Operational Profile Configure	e Cards
✓ General		 Physical Drive Count
Product Name:	Cisco FlexFlash	Physical Drive Count: 2
Controller Name:	FX3S	- Virtual Drive Count
Running Firmware Version:	1.3.2 build 172	• The order
Staged Firmware Version:	1.3.2 build 172	Virtual Drive Count: 1
Vendor:	Cypress	
Controller Status:	Mode Matching Healthy SD card and Fo	
Cards Manageable:	No	

附註:未分割槽的SD卡已降級,是否可以繼續RMA?否,更換可能無法解決問題。

解決方案

步驟1。在General 索引標籤下,按一下Configure cards,如下圖所示。

al	Physical Drives	Virtual Drives	FlexFlash Logs
ə / Re	eset FlexFlash Controller	Configure Operati	onal Profile Configure Cards
Sene	eral		Configure Cards
	Product Name:	Cisco FlexFlash	
Dun	Controller Name:	FX3S	Mode: Mirror
Sta	aged Firmware Version:	1.3.2 build 172	Mirror Partition Name: Hypervisor
	Vendor:	Cypress	Select Primary Card: Slot 1
	Controller Status:	OK	
	Cards Manageable:	Yes	Virtual Drive: Removable
			Save Reset Values Cancel

步驟2.選擇Primary card(主卡)作為SLOT 2(因為插槽1用於未分割槽的卡,並且假設所有資料都 儲存在SD卡2中)。 勾選「AUTO-SYNC」,按一下「SAVE」,如下圖所示。

Configure Cards	_	_		?	×
Mode:	Mirror				
Mirror Partition Name:	Hypervisor				
Auto Sync:					
Select Primary Card:	Slot 2		•		
Virtual Drive:	Removable		•		
	Save	Reset Values	Cancel		

步驟3.按一下SAVE後,會出現一個視窗,如下圖所示,然後按一下OK。

ement C	This action will mark selected slot as healthy primary and other slot(if card existing) as unhealthy secondary. This operation may also disturb host connectivity.	V 4
FlexF rational Prof	Would you like to continue? OK Cancel	×
sh	Mode: Mirror Mirror Partition Name: Hypervisor	

步驟4.按一下OK後,請注意,在Physical drives頁籤中,將具有未分割槽卡的插槽1配置為 MIRROR_SECONDARY但UNHEALTH,這是預期行為

Ge	neral Physical D	rives Virtual Drives	FlexFlash Logs							
Ph	ysical Drives								Total 2	φ.
	Physical Drives	Status	Controller	Card Type	Card Mode	Health	Sync Mode	Slot Number		
۲	SLOT-1	present	FlexFlash-0	FX3S configured	mirror-secondary	unhealthy	auto	SLOT-1		
•	SLOT-2	present	FlexFlash-0	FX3S configured	mirror-primary	healthy	auto	SLOT-2		

步驟5.在Virtual Drives索引標籤下,您會看到虛擬驅動器的Auto-Sync已啟動(在步驟2中,選中auto-sync)。 等待自動同步完成100%

Gener	al Physical Drives	s Virtual Drives	FlexFlash Lo	ogs					
Virtua	al Drives							Selected 0 / Total 1	⇔
Di	sable Virtual Drive	Sync Virtual Drive	Erase Virtual D	Drive				E	1
	Virtual Drive	ID	Drive Scope	Size	Drive Status	Host Accessible	Drive Type	Operation in Progress	L
	Hypervisor	1	Raid	60901 MB	Degraded	Not-Connected	Removable	Syncing(Auto) 14% done	n

步驟6. 自動同步完成後(如下圖所示),您會看到虛擬驅動器為**正常**。

Gener	al Physical Drive	es Virtual Drives	FlexFlash Lo	ogs				
Virtua	al Drives							Selected 0 / Total 1
Dis	sable Virtual Drive	Sync Virtual Drive	Erase Virtual D	rive				
	Virtual Drive	ID	Drive Scope	Size	Drive Status	Host Accessible	Drive Type	Operation in Progress
	Hypervisor	1	Raid	60901 MB	Healthy	Not-Connected	Removable	NA

第1插槽中的卡(在步驟4中視為正常)在AUTO-SYNC後現在為HEALTHY。

eral	Physical Drives	Virtual Drives	FlexFlash Logs						
sical	Drives							Tot	tal 2
Physic	cal Drives	Status	Controller	Card Type	Card Mode	Health	Sync Mode	Slot Number	
SLOT-	1	present	FlexFlash-0	FX3S configured	mirror-secondary	healthy	auto	SLOT-1	
SLOT-	2	present	FlexFlash-0	FX3S configured	mirror-primary	healthy	auto	SLOT-2	

步驟7.如果在此處觀察,虛擬驅動器仍然無法通過主機訪問,這意味著您無法在引導選項中看到它 ,也不能從那裡引導作業系統或在其上安裝作業系統。

A	ı /	/ Cisco FlexFlash /	Virtual Drive	s ★			Refresh Host	Power
	Gener	al Physical Drives	Virtual Drives	FlexFlash Log	S			
	Virtua	I Drives able Virtual Drive Syr	nc Virtual Drive	Erase Virtual Driv	e			
		Virtual Drive	ID	Drive Scope	Size	Drive Status	Host Accessible	
		Hypervisor	1	Raid	60901 MB	Healthy	Not-Connected	
			1					

步驟8.要使主機可以訪問,請在虛擬驅動器下按一下啟用虛擬驅動器。

ž	😤 🖞 Cisco Integrated Management Controller 🔶											
♠ /	/ Cisco FlexFla	ash / Virtual Drive			Refresh Host Powe	۶r						
General Physical Drives Virtual Drives FlexFlash Logs												
Vii	Virtual Drives											
	Enable Virtual Drive	Sync Virtual Drive Erase Virtual Drive										
	Virtual Drive	ID	Drive Scope	Size	Drive Status	Host Accessible						
6	Hypervisor	1	Raid	60901 MB	Healthy	Not-Connected						

步驟9.現在觀察到虛擬驅動器已連線到主機,而且可以在啟動選單上看到,如下圖所示。

/ /	Cisco FlexFlash / V	irtual Drive	s ★			Refresh Host Pow
Genera	I Physical Drives	Virtual Drives	FlexFlash Log	gs		
Virtual	Drives					
Disa	able Virtual Drive Sync	Virtual Drive	Erase Virtual D	ive		
	Virtual Drive	ID	Drive Scope	Size	Drive Status	Host Accessible
	Hypervisor	1	Raid	60901 MB	Healthy	Connected
	IBA XE (X59 IBA XE (X59 CiscoVD Hyp Enter Setup 1 and 4 ENTER to ESC to					

當您忘記在步驟2中選中AUTO-SYNC時?

虛擬驅動器不會自動同步,並且SD卡1繼續顯示為「不正常**」。在「VIRTUAL DRIVES**」頁籤下 ,選中「Virtual drive(虛擬驅動器)」,然後按一下「**SYNC VIRTUAL DRIVE(同步虛擬驅動器)」。這稱為手動同步**。不言自明。

完成同步後,虛擬驅動器和SD卡1會變為正常狀態,如步驟6所示。

🕈 / ... / Cisco FlexFlash / Virtual Drives ★

Seneral Physical Drives		Virtual Drives	FlexFlash Lo	gs				
Virtual Dr	ives							Selected 1 / Total 1
Enable Virtual Drive		Sync Virtual Drive	Erase Virtual Dr	ive				
Virt	ual Drive	ID	Drive Scope	Size	Drive Status	Host Accessible	Drive Type	Operation in Progress
И Нуре	ervisor	1	Raid	60901 MB	Degraded	Not-Connected	Removable	Syncing(Manual) 0% done
ua erv	l Drive visor	ID 1	Drive Scope Raid	Size 60901 MB	Drive Status Degraded	Host Accessible Not-Connected	Drive Type Removable	Operation in Progress Syncing(Manual) 0% done

相關資訊

- <u>Cisco FlexFlash:使用和管理思科UCS C系列獨立機架式伺服器的Cisco Flexible Flash內部</u> <u>SD卡</u>
- 配置和使用思科UCS伺服器上的Cisco FlexFlash安全數字卡白皮書