使用Flexflash控制器FX3S对CIMC中未分区的 SD卡进行故障排除

简介

本文档介绍如何对Flexflash控制器上的未分区SD卡错误进行故障排除。

先决条件

要求

本文档没有任何特定的要求。

使用的组件

本文档中的信息基于以下软件和硬件版本:

- 独立C系列服务器
- FlexFlash控制器FX3S
- 两个大小相同的SD卡
- •3.X或更高版本的CIMC

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原 始(默认)配置。如果您的网络处于活动状态,请确保您了解所有命令的潜在影响。

问题

错误消息和故障代码

故障代码:F1260

描述:Flex Flash虚拟驱动器1(虚拟机监控程序)已降级:请检查闪存设备或控制器

理由:设备降级

故障代码:F1262

描述:Flexflash控制器Flexflash-0配置错误:正确配置Flexflash控制器

理由:设备不正常

注意:出现1个SD卡的情况。

Fault Summary	Fault History	System E	vent Lo	og Cisco IMC Log	Logging Controls					
Fault Entries	5							Tot	12 4	¢ -
								Show Quick Filter	•	7
Time	Severity	Code		Domain Name		Probable Cause		Description		T
2020-07-21T10:32	26 🔷 Warn	ing F1260)	sys/rack-unit-1/board/storag	ge-flexflash-FlexFlash-0/vd-1	equipment-degraded		Flex Flash Virtual Drive 1 (Hypervisor) Degraded: please check the flash device or the co	troller	
2020-07-21T10:32	:26 🔷 Warn	ing F1262	2	sys/rack-unit-1/board/storag	ge-flexflash-FlexFlash-0	equipment-unhealthy		Flex Flash controller FlexFlash-0 configuration error: configure the flex controller correctly		
Fault Summary	Fault History	System E	vent Lo	og Cisco IMC Log	Logging Controls					
Faults Histor	у							Tot	13 4	¢ -
								Show Quick Filter	•	7
Time	Sev	verity	Prot	bable Cause	Description					
2020 Jul 21 10:32:	26 BST 🔺	Notice	EQU	JIPMENT_DEGRADED	[F1260][warning][equipment	-degraded][sys/rack-unit-1/b	008	ard/storage-flexflash-FlexFlash-0/vd-1] Flex Flash Virtual Drive 1 (Hypervisor) Degraded: p	ease	
2020 Jul 21 10:32:	26 BST 🔒 1	Notice	EQU	JIPMENT_UNHEALTHY	[F1262][warning][equipment	-unhealthy][sys/rack-unit-1/b	boa	ard/storage-flexflash-FlexFlash-0] Flex Flash controller FlexFlash-0 configuration error: cor	figure	
2020 Jul 21 10:32:	21 BST	Debug	LOG	DEBUG	SEL INIT DONE					

导航至Storage > Cisco **Flexflash后,**SD卡1显示为未分区,虚拟驱动器虚拟机监控程序已按预期降 级

n /	🖌 / / Cisco FlexFlash / Virtual Drives 🖈 Refresh Host Power Launch KVM Ping CIMC Reboot Locator LED 🕲									
Gener	al Physical Drives	Virtual Drives	FlexFlash Logs	L						
Virtua	al Drives								Selected 0 / Total 1 🖧	
Die	sable Virtual Drive	Sync Virtual Drive	Erase Virtual Drive							
	Virtual Drive	ID	Drive Scope S	Size	Drive Status	Host Accessible	Drive Type	Operation in Progres	ss Last Operation Status	
	Hypervisor	1	Raid 3	0432 MB	Degraded	Not-Connected	Removable	NA	none	
n /) Gener	/ Cisco FlexFlash	/ Physical Dri Virtual Drives	Ves FlexFlash Logs				Refres	h Host Power Laund	h KVM Ping CIMC Reboot Locator LED 🕘	
Physi	cal Drives								Total 2 🖏	
P	hysical Drives	Status	Controller	Card Type	Card N	lode Health	Sync Mode	Slot Number		
💌 SI	LOT-1	present	FlexFlash-0	unpartitioned	d card NA	NA	NA	SLOT-1		
	Capacity:	30436 MB	Partition Cour	nt: 0		Signature:	000000000000000000000000000000000000000	00000000000		
	OEM ID:	GH	Write Error Th	hreshold: 0		Product Name:	SMART			
	Block Size:	512 bytes	Manufacturer	ID: 13	7	Serial Number:	0x1010886f			
	Card Status:	NA	Read Error Co	ount: 0		Write Enabled:	true			
	Product Revision:	3.0	Write Error Co	ount: 0		Drives Enabled:				
	Password Protected:	false	Read Error Th	hreshold: 0		Manufacturing Date:	7/19			
	Dirty Partition Map:	NA	Stale Partition	n Map: NA	×					
► S	LOT-2	present	FlexFlash-0	FX3S config	ured mirror-	secondary healthy	manual	SLOT-2		

flexflash控制器状态显示在此图中。

n / / Cisco FlexFlash / G	ieneral ★				
General Physical Drives	Virtual Drives Flex	Flash Logs			
Activate / Reset FlexFlash Controller	Configure Operational Pro	file Configure C	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		•	Virtual Drive Count	
Staged Firmware Version:	1.3.2 build 172			Virtual Drive Count: 1	
Vendor:	Cypress				
Controller Status:	Mode Matching Healthy S	D card and Fo			
Cards Manageable:	No				

注意:未分区的SD卡已降级,能否继续RMA?否,更换可能无法解决问题。

解决方案

步骤1.在"常**规"**选项卡下,单**击"**配置卡",如下图所示。

al	Physical Drives	Virtual Drives	FlexFlash Logs
e / Re	set FlexFlash Controller	Configure Operatio	nal Profile Configure Cards
iene	ral		Configure Cards
	Product Name:	Cisco FlexFlash	
	Controller Name:	FX3S	Mode: Mirror
Runi	ning Firmware Version:	1.3.2 build 172	
Sta	ged Firmware Version:	1.3.2 build 172	Mirror Partition Name: Hypervisor
	Vendor:	Cypress	Auto Sync:
	Controller Status:	ОК	Select Frinary Card: Slot 1
	Cards Manageable:	Yes	Virtual Drive: Removable
			Save Reset Values Cancel

步骤2.选择主卡**作为SLOT 2** (因为插槽1用于未分区的卡,并且假设所有数据都存储在SD卡2中)。 选中AUTO-SYNC,单击SAVE,如下图所示。

Configure Cards		?	×
Mode:	Mirror		
Mirror Partition Name:	Hypervisor		
Auto Sync:			
Select Primary Card:	Slot 2		
Virtual Drive:	Removable	·	
	Save Reset Values C	ancel]

步骤3.单击"保存"**后,将**出现一个窗口,如此图所示,单击"确**定"。**

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	

步骤4.单击"确**定"**后,请注意,在"物理驱动器"选项卡中,具有未分区卡的插槽1将配置为 MIRROR_SECONDARY,但**不健康**,这是预期行为

Gene	Physical Drives	Virtual Drives	FlexFlash Logs							
Phys	sical Drives								Total 2	¢
	Physical Drives	Status	Controller	Card Type	Card Mode	Health	Sync Mode	Slot Number		
•	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		

步骤5.在"虚**拟驱动**器"选项卡下,您会看到虚拟驱动**器的自**动同步已启动(在步骤2中,已**选中自**动同 步)。 等待自动同步完成100%

				gs	FlexFlash Lo	Virtual Drives	Physical Drives	General
Selected 0 / Total 1							rives	Virtual D
-				rive	Erase Virtual D	nc Virtual Drive	Virtual Drive Sy	Disable
Operation in Progress	Drive Type	Host Accessible	Drive Status	Size	Drive Scope	ID	tual Drive	Vir
Syncing(Auto) 14% done	Removable	Not-Connected	Degraded	60901 MB	Raid	1	pervisor	Ну;
	Selected 0 / Total 1 Operation in Progress Syncing(Auto) 14% done	Selected 0 / Total 1 Drive Type Operation in Progress Removable Syncing(Auto) 14% done	Selected 0 / Total 1 Host Accessible Drive Type Operation in Progress Not-Connected Removable Syncing(Auto) 14% done	Drive Status Host Accessible Drive Type Operation in Progress Degraded Not-Connected Removable Syncing(Auto) 14% done	Igs Selected 0 / Total 1 rive Size Drive Status Host Accessible Drive Type Operation in Progress 60901 MB Degraded Not-Connected Removable Syncing(Auto) 14% done	FlexFlash Logs Selected 0 / Total 1 Erase Virtual Drive Drive Scope Size Drive Status Host Accessible Drive Type Operation in Progress Raid 60901 MB Degraded Not-Connected Removable Syncing(Auto) 14% done	Virtual Drives FlexFlash Logs Selected 0 / Total 1 Selected 0 / Total 1 ID Drive Scope Size Drive Status Host Accessible Drive Type Operation in Progress 1 Raid 60901 MB Degraded Not-Connected Removable Syncing(Auto) 14% done	Physical Drives Virtual Drives FlexFlash Logs rives Selected 0 / Total 1 v Virtual Drive Sync Virtual Drive Erase Virtual Drive tual Drive ID Drive Scope Size Drive Status Host Accessible Drive Type Operation in Progress pervisor 1 Raid 60901 MB Degraded Not-Connected Removable Syncing(Auto) 14% done

步骤6.自动**同步完**成后(如此图所示),您会看到虚拟驱动器处于正**常状态**。

Gener	al Physical Driv	es Virtual Drives	FlexFlash Lo	ogs				
Virtua	I Drives							Selected 0 / Total 1
Dis	able 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

插槽1中在步骤4中看到正常的卡在AUTO-SYNC后现在正常运行。

eral	Physical Drives	Virtual Drives	FlexFlash Logs						
sical	Drives							To	otal 2
Physic	al 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	

步骤7.如果您在此处观察,虚拟驱动器仍不能主机访问,这意味着您无法在引导选项中看到虚拟驱动器,也无法从该选项启动操作系统或在其上安装操作系统。

🕈 / ... / Cisco FlexFlash / Virtual Drives 🔺

Refresh Host Power

Genera	I Physical Drives	Virtual Drives	FlexFlash Log	s					
Virtual	Drives								
Ena	Enable Virtual Drive Sync Virtual Drive Erase Virtual Drive								
	Virtual Drive	ID	Drive Scope	Size	Drive Status	Host Accessible			
	Hypervisor	1	Raid	60901 MB	Healthy	Not-Connected			
		1							

步骤8.要使主机可访问,请在"虚拟驱动器"下**单击"启**用虚拟**驱动器"。**

÷	Cisco Ir	ntegrated Manage	ement Contro	oller	_	÷					
♠ /	. / Cisco FlexFla	ash / Virtual Drive		Refresh Host Power							
Gene	General Physical Drives Virtual Drives FlexFlash Logs										
Virtu	Virtual Drives										
	nable Virtual Drive	Sync Virtual Drive	Erase Virtual D	rive							
	Virtual Drive	ID	Drive Scope	Size	Drive Status	Host Accessible					
\checkmark	Hypervisor	1	Raid	60901 MB	Healthy	Not-Connected					

步骤9.现在观察到虚拟驱动器已连接到主机,并在启动菜单上可见,如此图所示。

/	/ Cisco FlexFlash		Refresh Host Po							
ener	al Physical Drives	Virtual Drive	FlexFlash Lo	ogs						
/irtua	al Drives									
Dis	sable Virtual Drive	Sync Virtual Drive	Erase Virtual D	Irive						
	Virtual Drive	ID	Drive Scope	Size	Drive Status	Host Accessible				
	Hypervisor	1	Raid	60901 MB	Healthy	Connected				
	CiscoVD Hypervisor Enter Setup									
	↑ and ↓ to move selection									
	ENTER	to sele	ect boot	device						
	ESC 1	to boot	using de	efaults						

当您忘记在步骤2中检查AUTO-SYNC时?

虚拟驱动器不会自动同步,SD卡1继续显示为不正常**状态。**在"虚**拟驱动器**"选项卡下,选中"虚拟驱 动器"并单击"**同步虚拟驱动器"。**这称为MANUAL SYNC。不言自明。

同步完成后,虚拟驱动器和SD卡1将变得正常,如第6步所示。

🕈 / ... / Cisco FlexFlash / Virtual Drives 🖈

Gener	Physical Driv	ves Virtual Drives	FlexFlash Lo	ogs					
Virtua	I Drives							Selected 1 / Total 1	
Enable Virtual Drive		Sync Virtual Drive	Erase Virtual Drive						
	Virtual Drive	ID	Drive Scope	Size	Drive Status	Host Accessible	Drive Type	Operation in Progress	
	Hypervisor	1	Raid	60901 MB	Degraded	Not-Connected	Removable	Syncing(Manual) 0% done	

相关信息

- <u>思科FlexFlash:使用和管理思科UCS C系列独立机架式服务器的思科灵活闪存内部SD卡</u>
- 在Cisco UCS服务器上配置和使用Cisco FlexFlash安全数字卡白皮书