APIC SSD更換

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目標

對於特定型別的SSD,在長時間使用過程中,應用策略基礎設施控制器(APIC)固態驅動器(SSD)的 耐用性會逐漸降低。這會導致SSD寫入速度緩慢,並且SSD可能變為只讀。當SSD驅動器降級時 ,它可能會導致APIC服務中的CPU峰值。

公告:<u>FN - 64329</u>建議使用新的企業級SSD — 部件號UCS-SD200G12S3-EP,更換所有產品ID為 APIC-SD120G0KS2-EV和/或APIC-SD120GBKS4-EV的APIC SSD(無論利用率如何)。

本文檔概述了如何識別APIC SSD產品ID以及如何更換受現場通知影響的APIC上的SSD的步驟。

它將補充下面列出的現有SSD更換文檔

<u>Cisco APIC SSD替代版本3.x及更低版本</u> 思科APIC SSD更換版本4.x及更高版本

常見症狀

在2.3版開始的ACI版本中,APIC中還生成了一個故障,以便在接近SSD耐用性問題時通知您。

F2730:fltEqptStorageWearout-Warning F2731:fltEqptStorageWearout-Major F2732:fltEqptStorageWearout-Critical

範例:

故障F2730:"安裝在/dev/sdb的節點x上的儲存單元/dev/sdb有x%的剩餘壽命[此故障將提供 SSD序列號]"。

	General	Troubleshooting	н	iston
		() sources is seeing	1.52	
		(0	<u>+</u> -
Fault Code: F2730				
Severity: warning				
Last Transition: 2019-09-25T13:11:17.276-04:00				
Lifecycle: Raised				
Affected Object: topology/pod-1/node-1/sys/ch/p-[/dev/sdb]-f-[/dev/sdb]				
Description: Storage unit /dev/sdb on Node 1 mounted at /dev/sdb has 6% life remaining Type: Operational				
Cause: equipment-wearout				
Change Set: available:unspecified, blocks:unspecified, capUtilized:0, device:Solid State Device, fileSystem:/dev/sdb, firmwareVersion:G201CS01, mediaWearout:6, model:INTEL SSDSC288100001, mount:/dev/sdb, name:/c operSt:ok, serial:BTWA7084006E020CCC, used:unspecified	lev/sdb,			
Created: 2019-09-25T13:08:52:074-04:00				
Code: F2730				
Number of 1 Occurrences: 1				
Original Severity: warning				
Previous warning Severity:				
Highest Severity: warning				

此特定SSD耐用性問題存在於兩種產品ID為APIC-SD120G0KS2-EV和/或APIC-SD120GBKS4-EV的SSD中。

思科建議您使用新的企業級SSD替換這些SSD,無論使用率是多少。

您的APIC SSD是否受到影響 — 如何檢查?

要確定APIC SSD產品ID是否受現場通知的影響,請從CIMC GUI獲取SSD SN。

對於CIMC 3.0(4)或更高版本

登入到Cisco IMC GUI。

- a 使用切換導航(左上角)、儲存、Cisco 12G SAS模組化Raid控制器展開CIMC選單
- b 點選物理驅動器資訊
- c— 在左側的「Physical drives(物理驅動器)」中,選擇PD-1(它應該是SSD)
- d—一般介質型別應為SSD
- e 查詢資料、驅動器序列號和複製序列號
- f 將SSD序列號貼上到以下網站,並檢查SSD序列號是否與受影響的產品ID匹配
- g 您也可以從下面的螢幕檢視「剩餘壽命百分比」以顯示使用情況。

https://cway.cisco.com/sncheck/



或

對於CIMC 3.0(4)之前的版本

登入到Cisco IMC GUI。

- a 選定儲存, Cisco UCSC RAID SAS 200xx
- b 點選物理驅動器資訊
- c 從「物理驅動器」清單中選擇SSD
- d 查詢資料、驅動器序列號並複製序列號
- e 將SSD序列號貼上到以下網站,並檢查SSD序列號是否與受影響的產品ID匹配

https://cway.cisco.com/sncheck/



Cisco IMC 2.0(9c)

2 — 如果APIC SSD SN與受影響的產品ID APIC-SD120G0KS2-EV和/或APIC-SD120GBKS4-EV匹 配,請建立一個TAC案例,其中包含APIC SSD序列號和CETS <u>CSCvc84794</u>

更換SSD之前檢查清單

1.如果您的Cisco IMC版本低於2.0(9c),則必須在更換固態驅動器(SSD)之前升級Cisco IMC軟體。 請參閱目標Cisco IMC版本的Cisco IMC <u>版本說明</u>,以確定從當前版本到目標版本的建議升級路徑。 每個ACI版本都在ACI版本說明中建議使用Cisco <u>IMC版本</u>。按照當前版本的《Cisco Host Upgrade Utility(HUU)使用手冊》中<u>此連結</u>中的說明執行升級。

2.在Cisco IMC BIOS中,驗證受信任的平台模組(TPM)狀態是否設定為「已啟用」。 使用KVM控制 檯訪問BIOS設定,您可以在「高級」>「可信計算」>「TPM狀態」下檢視和配置TPM狀態。

Configuration TPM SUPPORT TPM State	[Enable] [Enabled]	Enable/Disable Security Device. NOTE: Your Computer will reboot
Pending operation	[None]	during restart in order
Pending operation	[None]	Device.
Current Status Informa	tion	
TPM Enabled Status: TPM Active Status:	[Enabled] [Activated]	++ Select Screen
TPM Owner Status:	[Owned]	14 Select Item
		Enter Select Field
		+/- Unange Value
		F9 BIOS Defaults
		F10 Save & Exit
		ESC Exit

通過Cisco IMC KVM的APIC BIOS

附註:如果TPM狀態為「禁用」,APIC將無法啟動。

3.從思科軟體下載網站取得ACI APIC .iso映像。

4.只有在群集中至少有一個APIC具有正常的SSD(完全適合)時,才應執行此過程。**如果群集中的 所有APIC控制器的SSD出現故障,請向思科技術支援中心(TAC)提交案例**。 下面的快照來自一個集 群,該集群的所有APIC都處於完全適應狀態。

cisco APIC	2						adm	in 🔍	0	•	*	
System Tenants	Fabric	Virtual	Networking	L4-L7 S	ervices	Admin	Operatio	ns Ap	ps	Integra	tions	
QuickStart Dashbo	ard Contr	ollers Sys	tem Settings	Smart Lic	ensing	Faults	Config Zones	Events	Aug	dit Log	Act	ive S
Controllers (00	Cluster	as Seen by	Node						0	Q	0
> C Quick Start								APIC Clu	ster	Standb	y API	c
✓									(<u>+</u> C	**-	1
	en by Node	Proper	ties			Fabric N Target	ame: aci-pod Size: 3					
Storage		Dif	ference Betwee CI Fabric Intern	en Local Time ode Secure Ai	and Unified (uthentication	Current Cluster Time Communicat	Size: 3 (ms): 456940 ions: Permiss	sive	~			l
 > Power Supply Equipment Se Equipment Se Memory Slots 	Units Insors	Active	Controllers Name	IP	Admin State	Operatic State	n: Health State	Failover Status	Serial Number	SSL Cert	ificate	ŧ
Processes		1	apic1	10.0.0.1	In Service	Available	Fully Fit	idle	FCH193	yes		
> Containers		2	apic2	10.0.0.2	In Service	Available	Fully Fit	idle	FCH193	yes		
 > apic2(Node-2) > apic3 (Node-3) Controller Policies 		3	apic3	10.0.0.3	In Service	Available	Fully Fit	idle	FCH192	yes		

APIC GUI 4.1(2g)

5.更換APIC SSD後,必須再次配置APIC,並且需要以下資訊[此資訊將用於「SSD更換過程步驟4d」]:

- 交換矩陣名稱
- 控制器數量
- 控制器ID
- 通道端點位址(TEP)的IP位址池
- 網橋域組播地址(GIPO)的IP地址池
- •管理介面速度/雙工模式
- •基礎架構網路的VLAN ID
- •用於帶外管理的IPv4/IPv6地址
- 預設網關的IPv4/IPv6地址
- 強密碼檢查

使用當天的技術筆記:如何查詢在設定APIC1期間使用的配置值?

SSD更換程式

步驟1

從群集中的另一個APIC,停用要更換其SSD的APIC。

a — 在選單欄中,選擇System > Controllers。

b — 在導航窗格中,展開Controllers > apic_controller_name > Cluster as Seen by Node。對於 APIC_controller_name,指定未取消使用的APIC控制器。 c — 在「工作」(Work)窗格中,驗證「活動控制器」(Active Controllers)摘要表中的「運行狀況」 (Health State)是否指示群集已完全適應,然後繼續。

d — 在同一工作窗格中,選擇要停用的控制器,然後按一下「操作」>「停用」。

e — 按一下是。已停用控制器在「運行狀態」列中顯示「未註冊」。控制器隨後停止服務,不再顯 示在「工作」窗格中。

cisco	APIC							admi		•	•	*	
System	Tenants	Fabric	Virtual	Networking	L4-L7 S	Services	Admin	Operation	ns Ap	ps	Integra	tions	
QuickStart	Dashboard	Contr	ollers Sy	/stem Settings	Smart Lic	ensing	Faults C	onfig Zones	Events	Aud	lit Log	Acti	ive S
Controllers	(•	Cluster	r as Seen by	Node						-		0
> C Quick St	art								A.DIO. 01-		Charad		
😵 Topology	y.								APIC CIU	ster	Standt	by APIC	5
🗸 🚞 Controlle	ers									(5 ±	**-	^
🗸 🗐 apic1	(Node-1)		Prope	erties									
	luster as Seen b	by Node					Fabric Na	me: aci-pod					
🚞 In	terfaces						Larget S	ize: 3					
🚞 St	torage		D	ifference Betwe	en Local Time	and Unified C	luster Time (n	ns): 456940					
🚞 N	TP Details		,	ACI Fabric Intern	ode Secure A	uthentication	Communicatio	ons: Permissi	ve	~			
🚞 Ec	quipment Fans												
> 🧮 Po	ower Supply Uni	its		0									
Ec	quipment Senso	vrs	Active	Name	ID	Admin	Operation	Health	Failover	Serial	122		
<u>н</u> м	emory Slots		- 10	Ivanic		State	State	State	Status	Number	Cert	tificate	
Pr	rocesses		1	apic1	10.0.0.1	In Service	Available	Fully Fit	idle	FCH193	. yes		
> 🔲 Ci	ontainers		2	apic2	10.0.0.2	In Service	Available	Fully Fit	idle	FCH193.	. yes		
> 🖨 apic2	(Node-2)		з	apic3	10.0.0.3	In Service	Available	Fully Fit	idle	FCH192.	ves		
Controlle	er Policies							_		Commissio	on		
										Decommis	ision		
15										Replace			
			1. Terrer of		- 11					Reset			
			Seria	norized Conti al Number	IP		Mode		St	Save as			
			oone			1224.021	mode	•0 000	0.	Post			
						No iten Select Actio	ns have been fo ons to create a r	und. iew item.		Chara			
										onare		_	
										Open In O	bject Stor	e Brows	er.

APIC GUI 4.1(2g)

步驟2

以物理方式移除舊SSD(如果有),然後新增新SSD。

步驟3

在Cisco IMC中,使用新安裝的SSD建立RAID卷。

對於CIMC版本3.0(4)或更高版本

a — 登入思科IMC。

b — 使用切換導航(左上角)、儲存、Cisco 12G SAS模組化Raid控制器展開CIMC選單

		- dindu Cisco	Integrated Management Controller
	<u> </u>	Chassis / Sum	mary 🚖
Chassis	•	Server Proper	ties
Compute		Product Name:	
Networking	•	Serial Number:	FCH2102V2S1
Hothonang		PID:	APIC-SERVER-M2
Storage	v	UUID:	91CDBC69-7BB4-4BBE-94B2-356DBA10B474
otorago		BIOS Version:	C220M4.3.0.4a.0.0226182253
Cisco 12G SAS Mod	ular Raid	Description:	
Cisco FlexFlash		Asset Tag:	
Admin	•		

Cisco IMC 3.0(4d)

c—按一下Clear Config並選擇ok(如果可選擇)

d — 點選從未使用的物理驅動器建立虛擬驅動器

÷ dinilin (Cisco Integrated M	anagement Cont	roller		
/ / Cisco	12G SAS Modular	Raid Controller ((SLOT-HBA) / Cont	troller Info 🔺	
Controller Info	Physical Drive Info	Virtual Drive Info	Battery Backup Unit	Storage Log	
Create Virtual Driv	e from Unused Physical Driv	es Create Virtual Drive	from an Existing Virtual Drive	Group Import Foreign Co	nfig Clear Foreign Config
Clear Boot Drive	Get Storage Firmware Log	Enable Drive Security	Disable Drive Security Cl	ear Cache Clear all Config	uration Set Factory Defaults

Cisco IMC 3.0(4d)

e-RAID級別,從下拉選單中選擇0

f — 建立驅動器組,選擇物理驅動器並將其移動到驅動器組

g — 虛擬驅動器屬性,選擇建立虛擬驅動器

Create Virtual Drive fi	rom Unused Physica	l Drives				• >
RAID Lev	el: O	٣	Enable Full Disk Enc	ryption:		
Create Drive Groups						
Physical Drives		Selected 0 / Total 0	¢.	Drive Groups	¢	· •
ID Size(MB)	Model	Interface Type		Name		
No data available				DG [1]		Т
			>>			
			<<			
			*			-
Virtual Drive Propert	ies					
Name:	RAID0_1		Disk Cache Policy:	Unchanged	•	
Access Policy:	Read Write	•	Write Policy:	Write Through	•	
		•	Strip Size (MB):	64k	•	
Read Policy:	No Read Ahead					
Read Policy: Cache Policy:	No Read Ahead Direct IO	•	Size	189781	MB	•
Read Policy: Cache Policy:	No Read Ahead Direct IO	v	Size	189781	MB	¥
Read Policy: Cache Policy:	No Read Ahead Direct IO	¥	Size	189781	МВ	•

h — 仍在儲存中,Cisco 12G SAS模組化Raid控制器,選擇虛擬驅動器資訊

i — 將RAID級別為RAID 0的虛擬驅動器標識為RAID 0,選擇該虛擬驅動器,然後從下拉選單中按 一下「Initialize」,然後按一下「Fast Initialize」,然後選擇「Initialize VD」

*: '	lialia Lisco	Cisc	o Integ	grated I	Vanagement Co	ntro	ller				+	0	admin@1
∧ / / Drive	Cisco Info) 12(G SAS	Modula	ar Raid Controlle	r (Sl	_ot-HBA) / Virtu	ıal	R	afresh Ho	ost Power L	aunch KVM	Ping CIMC R
Control	er Info	P	hysical [Drive Info	Virtual Drive Info		Battery Backup Unit	Storage Log					
- Vir	tual Drive	25	Virtu	al Drive	S Cancel Initialization		Initialize Virtual Dri	v e	_	@ X	de Drive		tual Drive
				Virtual	Drive Number	Nai	Are you sure you wa	nt to initialize the vi	rtual drive - RAID0_1?		Size		RAID Level
				0		NA	Initialize	vpe: Fast Initial	ze	*	11434551	ИВ	RAID 1
				1		RAI			Initialize VD	ancel	189781 M	В	RAID 0



對於CIMC 3.0(4)之前的版本

- a 登入思科IMC。
- b 選擇Storage > Physical Drive。選擇新增的物理驅動器。

c — 選擇Storage > Controller Drive Info,然後按一下Clear Foreign Config(如果可選)。

d — 按一下「確定」。

e — 選擇Storage Controller Drive Info(儲存控制器驅動器資訊),然後按一下Create Virtual Drive from Unused Physical Drives(從未使用的物理驅動器建立虛擬驅動器)。

cisco Integra	ted Management Controller		
Overall Server Status Server Admin Storage Cisco UCSC RAID SAS 2008M- (SLOT-MEZZ) Cisco FlexFlash	Cisco UCSC RAID SAS 2008M-8i (SLOT-ME Controller Info Physical Drive Info Virtual Drive Info Create Virtual Drive from Unused Physical Drives Create Virtual Drive from an Existing Virtual Drive Group Timport Foreign Config Clear Foreign Config Clear Boot Drive	Settings Predictive Fail Poll Interval: Rebuild Rate: Patrol Read Rate: Consistency Check Rate: Reconstruction Rate: Cache Flush Interval:	300 sec 30 % 30 % 30 % 30 % 4 sec
	Get TTY Log	Max Drives To Spin Up At Once: Delay Among Spinup Groups:	4 2 sec

Cisco IMC 2.0(9c)

- f—從Raid級別下拉選單中選擇0。
- g 點選建立虛擬驅動器。

Contract Product				3	Enable Full	Disk Encry	ption: 🔟		
Physical D	e Groups- Drives					Drive Grou	ps		
Select	ID	Size (MB)	Mode	4	>>	Select	N DG [4]	ame	4
Virtual Driv	ve Properti	ies		T T					
Virtual Driv Virtual Dri	ve Properti ive Name: Strip Size:	RAID0_0		L C	Read Policy: ache Policy:	No Read	i Ahead	**	

Cisco IMC 2.0(9c)

h — 選擇新建立的虛擬驅動器,然後按一下「初始化」。

i— 從下拉選單中選擇初始化型別,然後按一下快速初始化。

cisco Cisco Integra	ited Management	Contro	ller			
Overall Server Status	C U U O 🔳 🛛					
	Cisco UCSC RAID SA	S 2008M	1-8i (SLO	T-MEZZ)		
Server Admin Storage	Controller Info Physical I	Drive Info	Virtual Drive	Info Battery Back	up Unit S	Storage Log
Cisco UCSC RAID SAS 2008M-	Virtual Drives		-			
Cisco FlexFlash	Virtual Drive Number	Name	Status	Health	Size	RAID Level
	0		Optimal	Good	475883 ME	RAID 1
	1	RAID0_0	Optimal	Good Good	113487 ME	RAID 0
	Actions Initialize Set as Boot Drive Delete Virtual Drive Edit Virtual Drive		Init Are y virtua Initial	ialize Virtual D ou sure you want to init I drive . ize Type: Fast Initiali Initialize	rive ialize the ze i VD Cance	

Cisco IMC 2.0(9c)

步驟4

在思科IMC中,使用虛擬媒體安裝APIC映像。在此步驟中,將SSD分割槽,並將APIC軟體安裝在 HDD上。

附註:有關思科APIC 4.x版或更高版本的新安裝,請參閱思科APIC安裝、升級和降級指南。

a — 使用Cisco IMC vMedia功能安裝APIC .iso映像。

b — 啟動或重新啟動APIC控制器。



c — 在引導過程中,按F6選擇Cisco vKVM對映的vDVD作為一次性引導裝置。您可能需要輸入 BIOS密碼。預設密碼為「password」。



Cisco IMC 3.0(4d)

apic3 - KVM Console - Mozilla Firefox	_ _ ×
🛈 🗞 https://14.14.14.14/html/kvmViewer.html	🖂 🖻
"In the cisco Integrated Management Controller admin@10.10.10.	10 -apic3 🏾 🛱
File View Macros Tools Power Boot Device Virtual Media Help	
Enter Password password	

apic3 - KVM Console - Mozilla Firefox 📃 🗖 🗙							
🛈 🙆 https://14.14.14.14/html/kvmViewer.htm	🖂 🕁 =						
cisco Integrated Manager	admin@10.10.10.10 -apic3 🌼						
File View Macros Tools Power Boot Devic	A I S						
	Please select boot device: (Bus 05 Dev 00)PCI RAID Adapter UNIGEN PHF16H0CM1-DTE PMAP Cisco vKVM-Mapped vHDD1.22 Cisco CIMC-Mapped vDVD1.22 Cisco CIMC-Mapped vDVD1.22 Cisco CIMC-Mapped vDVD1.22 Cisco vKVM-Mapped vFDD1.22 IBA GE Slot 0100 v1585 IBA GE Slot 0101 v1585 UEFI: Built-in EFI Shell Enter Setup f and 4 to move selection ENTER to select boot device ESC to boot using defaults						



apic3 - KVM Console - Mozilla Firefox	_ 🗆 X
🛈 🐔 https://14.14.14.14/html/kvmViewer.html	🖂 🕁 ≡
Cisco Integrated Management Controller admin@10.10.10.1	10 -apic3 🏾 🛱
File View Macros Tools Power Boot Device Virtual Media Help	A S
Welcome to APIC installer for CentOS 6.3!	
Install image	
1111 CONTRACTOR CONTRACTOR OF	
11111 11111 11111 1111 1111 1111 1111 1111	
Press [Tab] to edit options	1
Automatic boot in 38 seconds	

d — 在初始導航期間,運行配置指令碼。按照螢幕上的說明配置APIC軟體的初始設定。在開始或 使用當日的Technote之前,請使用核對表中收集的資訊:<u>如何查詢在設定APIC1期間使用的配置值</u> <u>?</u>

apic3 - KVM Console - Mozilla Firefox	_ 🗆 X
① 🔊 https://14.14.14/html/kvmViewer.html	🗵 🕁 ≡
Cisco Integrated Management Controller admin@10.10.10.10.api	c3 🗘
File View Macros Tools Power Boot Device Virtual Media Help	A I S
Starting Setup Utility	
This setup utility will guide you through the basic configuration the system. Setup configures only enough connectivity for managem of the system.	n of ment
*Note: setup is mainly used for configuring the system initially, when no configuration is present. So setup always assumes system defaults and not the current system configuration values.	
Press Enter at anytime to assume the default values. Use ctrl-d at anytime to restart from the beginning.	
Cluster configuration Enter the fabric name [ACI Fabric1]: aci-pod	

Cisco IMC 3.0(4d)

e — 安裝完成後,取消對映虛擬介質裝載。



步驟5

從集群中的APIC委託已退役的APIC。

a — 選擇屬於群集的任何其他APIC。從選單欄中選擇System > Controllers。

b — 在導航窗格中,展開Controllers > apic_controller_name > Cluster as Seen by Node。對於 apic_controller_name,指定屬於群集的任何活動控制器。

c— 在「工作」(Work)窗格中,點選在「工作狀態」(Operational State)列中顯示「未註冊」 (Unregistered)的已停用控制器。

d—在「工作」(Work)窗格中,按一下「操作」(Actions)>「佣金」(Commission)。

e — 在確認對話方塊中,按一下是。

cisco	APIC								admin	3 🕐		٥
System	Tenants	Fabric Vi	rtual Networking	g L4-L7	Services	Admin Ope	erations Ap	ops In	tegrations			
QuickStart	Dashboard	Controllers	System Settings	s Smart Li	icensing	Faults Config Z	Zones Event	s Audit	Log Active	Sessions		
Controllers		00	Cluster as	Seen by No	de							00
> O Quick St	art								APIC	Cluster	Standb	V APIC
Topology												
Controlle	rs (Nada 1)									(<u>+</u> C	**
	(NODE-1)	v Node	Properties			Fabric N	lame: aci-pod					
	erfaces	ynode				Target	Size: 3					
🚍 St	orage					Current	Size: 3					
	P Details		Differen	nce Between Lo	ocal Time and	Unified Cluster Time	(ms): 456941					
E Ec	uipment Fans		ACI Fa	abric Internode	Secure Auther	nucation Communica	uons. Permissive		\sim			
> 🚞 Pc	wer Supply Unit	is										
🚞 E0	uipment Sensor	s	Active Cor	ntrollers								
🖿 M	emory Slots		▲ ID	Name	IP	Admin State	Operational State	Health State	Failover Status	Serial Number	SSL Certifi	cate
🚞 Pr	ocesses		1	apic1	10.0.0.1	In Service	Available	Fully Fit	idle	FCH1930	yes	
> 🚞 Co	ontainers		2	apic2	10.0.0.2	In Service	Available	Fully Fit	idle	FCH1933	ves	_
> 🗐 apic2	(Node-2)		3	apic3	0000	Out of Service	Unregistered	Unknown			Ves	
Controlle	r Policies			aproo	0101010	out or connec	Childgiotorica	Gildiotti	Commission		,	_
									Decommission			
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			Upoutboris	rad Controlla					Reset			- 1
			Serial Nu	mber	IP		Mode		Save as			
						No its	eme have heen foun	d	Post			
						Select Ac	tions to create a nev	v item.	Share			
									Open In Object	Store Browser		
												¥

APIC GUI 4.1(2g)

受委託的控制器將運行狀況狀態顯示為「Fully-fit」(完全符合),將運行狀態顯示為「Available」 (可用)。現在,控制器應在「工作」窗格中可見。

現場通知/錯誤參考

公告: FN - 64329 - APIC SSD在固態硬碟高利用率後降級 — 提供硬體升級

固態硬碟高利用率後的APIC SSD降級 |故障F2730