

DELL 服务器阵列卡配置手册

前言

针对新装服务器,阵列卡未配置场景; 安装操作系统前,首先配置磁盘阵列设置。基于故障修复难易程度,默认只做阵列1(双硬盘冗余),任意1磁盘损坏不影响数据完整性;对 RAID 进行操作会导致数据丢失,请在操作之前务必将重要数据妥善备份。

一、重启服务器进入 raid 配置界面

开机按提示输入快捷键进入配置界面,如下: Ctrl+R 界面



阵列卡 BIOS 中的四个主界面:



《DELL 服务器阵列卡配置手册-20220325》

PERC H730 Adapter BIOS Con	nfiguration Utility 5.04-0012	PERC H730 Adapter BIOS Configuration Utili	ty 5.04-0012	
UD Ngmt PD Mgmt Ctrl Mgmt Properties		UD Mgwt PD Mgmt Ctrl Mgwt Properties		
I-1 PENC H730 Adapter (Bas 6x6), Bev (No Configuretion Present f I-1 Unconfiguret Physical Bisks 00:01:00: Ready: 105.750 GB	isk Management Budd) Physical Disk: State: Ready Wendor: ATA Encl. Position: 1 Slot Position: 1 Slot : 0	Physical Disk Hawagement Disk ID Type Capacity State DG Uendor D0101100 SSD-SnTn 105.750 GB Ready - 010	PAGE=1 Secured: A/A DAT Support: Dirabled Through Capable: Through Capable: Through Capable: Through Capable: S12 B Preduct 10: INTLL SUPSCEDS20 Revision: Disk Write Cache: Enable S.H.M.A.T state:	
F1-Help F2-Operations F5-Refresh Ctrl-	-N-Next Page Ctrl-P-Prev Page F12-Ctir	Sort By : Disk 1D F1-Help F2-Operations F5-Refresh Ctrl-M-Next Page Ctrl	No Error (GoToPage:2) -P-Prev Page F12-Ctir	
PERC H730 Adapter BIOS Com	Figuration Utility 5.04-0012	PERC H730 Adapter BIDS Configuration Utili	ty 5.04-0012	
UD Mgmt PD Mgmt Ctrl Mgmt Properti	es Pattings	UD Hgmt PD Hgmt Ctrl Hgmt Properties		
Control	- Battery Information	Product Name : PERC H730 Adapter		
[X] Enable controller BIOS	Type : BBU	Controller Status : Optimal		
() Enable Auto Import	State : Optimal	IOC Temperature : 53 Celsius Package : 25.3.0.0016		
[] Expose Enclosure Devices	Temperature : 23C-Normal	FW Version : 1.250.00-1402		
FullCharge Capacity: 329 with		HUS Version : 5.23.03.0_4.15.07.80_6x066C6200 Not Block Version : 3.62.00.00-0001 Battery status : Optimal		
Default	Remaining Capacity : 329 mill (100x)	Security Capable : Yes Controller ID : 0 PCI Bus : 0001		
Select boot device: Personality Mode: BIOS Mode:		PCI Bevice : 0x00		
PhID-Tode (current) HBA-Tode		PCI Function : 0000 PCI Slot ID : 0x02 Data Protection Support : Yes Data Protection Enabled : Yes		
Factory Default APPLY CONCEL		Requested Personality: HBA-Mode		
Fit Walls 75 Ballanch Chall N North Page Chall P. Root Page 112 Cities		[Page:01] P1-Mc1n P5-Refresh Ctrl-N-Next Page Ctrl-P-Peers Page P		

二、创建阵列

1、 创建阵列之前,首先得先按 ctrl+n 切到 PDMgmt 查看硬盘是不是处于"Ready"

PERC H330 Adapter BIOS Configuration Utility 5.03-0010					
VD Mgmt PD Mgmt Ctrl Mgmt Properties					
Physical Disk Management					
				PAGE-1	
Disk ID Type Capacity	State	DG	Vendor	Logical Sector Size:	
00:01:00 SAS 931.00 💦	Online	00	SEAGATE	512 B	
00:01:01 SAS 931.00 GB	Ready		SEAGATE	Physical Sector Size:	
00:01:02 SAS 931.00 GB	Ready		SEAGATE	512 B	
00:01:03 SAS 931.00 GB	Keady		SEAGATE	Product ID:	
				ST1000NM0023	
				Revision:	
				GSOF	
				Disk Write Cache:	
				Disk default	
				S.M.A.K.T state:	
				No Error	
				Power State:	
				Un	
				operation	
				Max Doutes Link Rate	
				6 OCN/S	
Sout Bu - Disk ID					
JULT BY . DISK ID				(GoToPage:2)	
F1-Help F2-Operations F5-Refresh Ctrl-N-Next Page Ctrl-P-Prev Page F1@					



- 2、按 ctrl+p 回到 VDMgmt 界面,选中 PERC H330 Adapter (Bus 0x03,Dev 0x0),并按下
- F2,选择 Create New VD,进行创建阵列,如下图。

-I-J Disk Group: 0, RAID 0	Create New VD	
ID: 0, Virtual Disk 0, 931.00		
-[+] Total Free Capacity: 0.00 GB	Foreign Config	
[-] Unconfigured Physical Disks	Manage Preserved Cache	
— 00:01:01: Ready: 931.00 GB — 00:01:02: Ready: 931.00 GB — 00:01:03: Ready: 931.00 GB	Security Key Management >	
	Convert to RAID capable Convert to Non-RAID	

3、按 Enter 键选择 RAID 级别(阵列 1),并按 tab 键到 Physical Disks,按下<mark>空格键</mark>选中需要 的两块硬盘,01 和 02,(注,前面中括号里变成打 X 就是选中)

PERC H330 Adapter BIOS Configuration Utility 5.03-0010					
VD Mgmt PD Mgmt Ctrl Mgmt Properties					
Uirtual Disk Management —					
Create New UD					
RAID Level : RAID-I	PD per Span : NZA				
	- Physical Disks				
Data Protection: Disable	Disk ID Size #				
	FX100:01:01 931.00 GB 00				
	[X]00:01:02 931.00 GB 01				
	[X]00:01:03 931.00 GB 02				
Basic Settings VD Size 1862.00 GB VD Name	Advanced OK CANCEL				



4、确认保存 (OK)



5、初始化 VD,将光标移动到 ID:1 前面按下 F2,——>initialization——>fast init



6、选择 YES 的即可



PERC H730 Adapter BIOS Configuration Utility 5.04-0012 UD Mgmt PD Mgmt Ctrl Mgmt Properties				
[-] PERC H730 Adapter (Bus 0x01, Dev 0x00) └─[-] Disk Group: 0, RAID 0 └─[-] Virtual Disks	Virtual Disk 0: State: Optimal			
L+1 Phys Initialization destroys data o disk. Are you sure you want to con YES	n the virtual timue? 0: isks: 1 Disks: 1 : None isks: 1 Disks: 1 : 85.750 GB s: 1			
F1-Help F2-Operations F5-Refresh Ctrl-N-Next Pa	ge Ctrl-P-Prev Page F1@			

7、RAID 创建完毕

