為採用UCSM的C系列整合伺服器配置儲存配置檔案

目錄

簡介

本文檔介紹如何使用Cisco UCS（統一計算系統）Manager(UCSM)為C系列集成式伺服器配置儲存配置檔案。 儲存配置檔案允許靈活地定義儲存磁碟的數量、這些磁碟的角色和使用情況以及其他儲存引數。基本上，您可以將虛擬驅動器分割為稱為邏輯單元號(LUN)的不同部分，並為這些LUN分配角色。

必要條件

需求

本文件沒有特定需求。

採用元件

本文件所述內容不限於特定軟體和硬體版本。

設定

建立磁碟組策略

在使用disk6-7建立用於劃分LUN的獨立磁碟冗餘陣列(RAID)1卷時，此示例有效。您也可以使用自動磁碟組配置，系統選擇磁碟。此示例使用手動配置進行演示，以備您想要手動分配磁碟時使用，如下圖所示。

建立儲存配置檔案

建立**磁碟組**後，建立**儲存配置檔案**，並在儲存配置檔案內建立**啟動**LUN和**資料**LUN。

此處需要注意幾點：

1.由於服務配置檔案尚未應用，因此可啟動被禁用。

2.「控制器定義」欄位留空。它只能與內部PCH控制器配合使用用於內部SSD。PCH控制器定義提供了跨連線到板載PCH控制器的兩個內部SSD配置單個LUN RAID的功能。

根據引導LUN建立引導策略

此示例建立了名為100gb的LUN，該LUN旨在用作引導LUN。因此，請相應地建立引導策略並應用於服務配置檔案。

驗證

使用本節內容，確認您的組態是否正常運作。

將服務配置檔案應用到伺服器之前，請確保磁碟組中使用的磁碟處於「未配置良好」狀態，否則在關聯服務配置檔案時會出現表示磁碟不足的錯誤。此示例使用Disk6-7，因此如果它們處於「Online」或「Jbod」狀態，則它們應處於「Unconfigured Good」狀態，然後按一下右鍵這些磁碟並選擇Set Unconfigured Bad to Good。
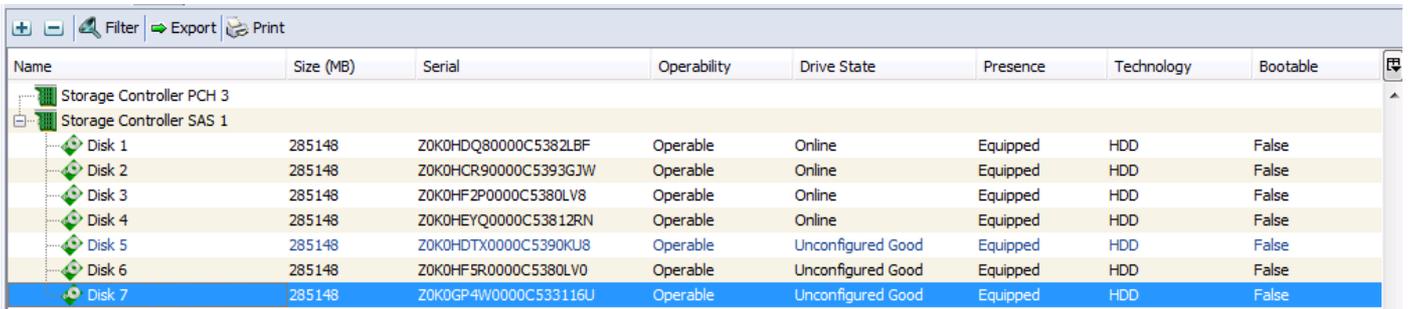
Name	Size (MB)	Serial	Operability	Drive State	Presence	Technology	Bootable
Storage Controller PCH 3							
Storage Controller SAS 1							
Disk 1	285148	Z0K0HDQ80000C5382LBF	Operable	Online	Equipped	HDD	False
Disk 2	285148	Z0K0HCR90000C5393GJW	Operable	Online	Equipped	HDD	False
Disk 3	285148	Z0K0HF2P0000C5380LV8	Operable	Online	Equipped	HDD	False
Disk 4	285148	Z0K0HEYQ0000C53812RN	Operable	Online	Equipped	HDD	False
Disk 5	285148	Z0K0HDTX0000C5390KU8	Operable	Unconfigured Good	Equipped	HDD	False
Disk 6	285148	Z0K0HF5R0000C5380LV0	Operable	Unconfigured Good	Equipped	HDD	False
Disk 7	285148	Z0K0GP4W0000C533116U	Operable	Unconfigured Good	Equipped	HDD	False

疑難排解

本節提供的資訊可用於對組態進行疑難排解。

成功應用服務配置檔案後，您的配置應如下所示：
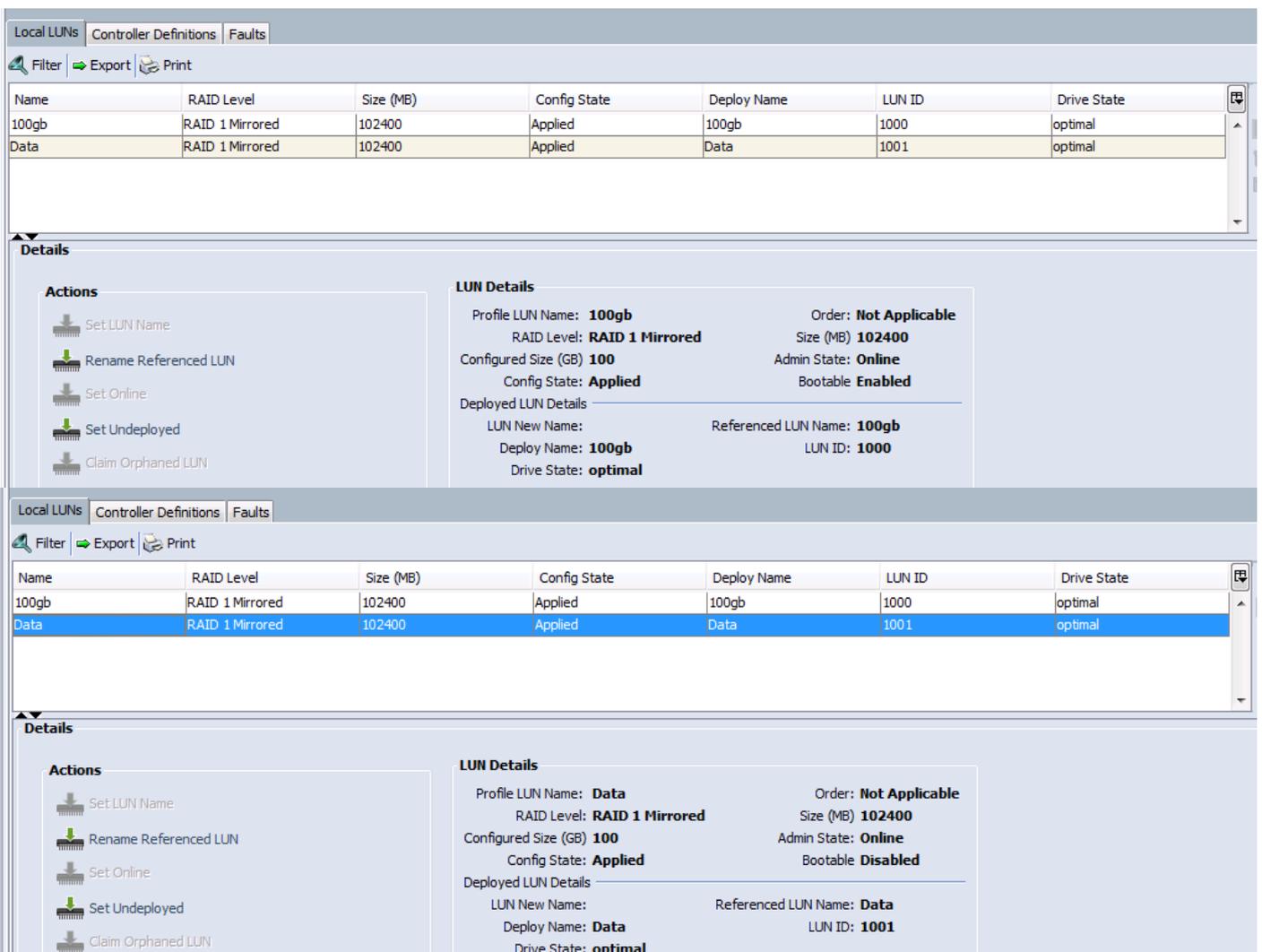
Local LUNs	Controller Definitions	Faults

Filter ⇒ Export Print

| Name	RAID Level	Size (MB)	Config State	Deploy Name	LUN ID	Drive State
100gb	RAID 1 Mirrored	102400	Applied	100gb	1000	optimal
Data	RAID 1 Mirrored	102400	Applied	Data	1001	optimal

Details

Actions
- Set LUN Name
- Rename Referenced LUN
- Set Online
- Set Undeployed
- Claim Orphaned LUN

LUN Details
Profile LUN Name: **100gb**　　　　Order: **Not Applicable**
RAID Level: **RAID 1 Mirrored**　　Size (MB) **102400**
Configured Size (GB) **100**　　　Admin State: **Online**
Config State: **Applied**　　　　Bootable **Enabled**
Deployed LUN Details
LUN New Name:　　　　　Referenced LUN Name: **100gb**
Deploy Name: **100gb**　　　　LUN ID: **1000**
Drive State: **optimal**

Local LUNs	Controller Definitions	Faults

Filter ⇒ Export Print

Name	RAID Level	Size (MB)	Config State	Deploy Name	LUN ID	Drive State
100gb	RAID 1 Mirrored	102400	Applied	100gb	1000	optimal
Data	RAID 1 Mirrored	102400	Applied	Data	1001	optimal

Details

Actions
- Set LUN Name
- Rename Referenced LUN
- Set Online
- Set Undeployed
- Claim Orphaned LUN

LUN Details
Profile LUN Name: **Data**　　　　Order: **Not Applicable**
RAID Level: **RAID 1 Mirrored**　　Size (MB) **102400**
Configured Size (GB) **100**　　　Admin State: **Online**
Config State: **Applied**　　　　Bootable **Disabled**
Deployed LUN Details
LUN New Name:　　　　　Referenced LUN Name: **Data**
Deploy Name: **Data**　　　　LUN ID: **1001**
Drive State: **optimal**

General | Inventory | Virtual Machines | Hybrid Display | Installed Firmware | SEL Logs | CIMC Sessions | VIF Paths | Power Control Monitor | Faults | Events | FSM | Health | Statistics | Temperatures | Power

Motherboard | CIMC | CPUs | GPUs | Memory | Adapters | HBAs | NICs | iSCSI vNICs | Storage

Controller | LUNs | Disks

+ − | 🔍 Filter | ➡ Export | 🖨 Print

Name	Size (MB)	Serial	Operability	Drive State	Presence	Technology	Bootable	
🏴 Storage Controller PCH 3								
⊟ 🏴 Storage Controller SAS 1								
◈ Disk 1	285148	Z0K0HDQ80000C5382LBF	Operable	Unconfigured Good	Equipped	HDD	False	
◈ Disk 2	285148	Z0K0HCR90000C5393GJW	Operable	Unconfigured Good	Equipped	HDD	False	
◈ Disk 3	285148	Z0K0HF2P0000C5380LV8	Operable	Unconfigured Good	Equipped	HDD	False	
◈ Disk 4	285148	Z0K0HEYQ0000C53812RN	Operable	Unconfigured Good	Equipped	HDD	False	
◈ Disk 5	285148	Z0K0HDTX0000C5390KU8	Operable	Unconfigured Good	Equipped	HDD	False	
◈ Disk 6	285148	Z0K0HF5R0000C5380LV0	Operable	Online	Equipped	HDD	False	
◈ Disk 7	285148	Z0K0GP4W0000C533116U	Operable	Online	Equipped	HDD	False	

General | Inventory | Virtual Machines | Hybrid Display | Installed Firmware | SEL Logs | CIMC Sessions | VIF Paths | Power Control Monitor | Faults | Events | FSM | Health | Statistics | Temperatures | Power

Motherboard | CIMC | CPUs | GPUs | Memory | Adapters | HBAs | NICs | iSCSI vNICs | Storage

Controller | LUNs | Disks

+ − | 🔍 Filter | ➡ Export | 🖨 Print

Name	Size (MB)	Raid Type	Config State	Deploy Action	Operability	Presence	Bootable	
🏴 Storage Controller PCH 3								
⊟ 🏴 Storage Controller SAS 1								
🖥 Virtual Drive 100gb	102400	RAID 1 Mirrored	Applied	No Action	Operable	Equipped	true	
🖥 Virtual Drive Data	102400	RAID 1 Mirrored	Applied	No Action	Operable	Equipped	false	