

為採用UCSM的C系列整合伺服器配置儲存配置檔案

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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。

Properties

Name: **qam-c220-boot**

Description:

RAID Level: **RAID 1 Mirrored**

Disk Group Configuration (Automatic) Disk Group Configuration (Manual)

Disk Group Configuration (Manual)

Filter Export Print

Slot Number	Role	Span ID
6	Normal	Unspecified
7	Normal	Unspecified

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。

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	0	Not Applied			
Data	RAID 1 Mirrored	0	Not Applied			

Details

Actions

- Set LUN Name
- Rename Referenced LUN
- Set Online
- Set Undeployed
- Claim Unassigned LUNs

LUN Details

Profile LUN Name: **100gb** Order: **Not Applicable**
RAID Level: **RAID 1 Mirrored** Size (MB) **0**
Configured Size (GB) **100** Admin State: **Online**
Config State: **Not Applied** Bootable **Disabled**

Deployed LUN Details

LUN New Name:	Referenced LUN Name:
Deploy Name:	LUN ID:

Properties

Name: **100gb**

Size (GB):

Fractional Size (MB):

Auto Deploy: Auto Deploy No Auto Deploy

Expand To Available:

Select Disk Group Configuration: **qam-c220-boot**

Create Disk Group Policy

Properties

Name: **Data**

Size (GB):

Fractional Size (MB):

Auto Deploy: Auto Deploy No Auto Deploy

Expand To Available:

Select Disk Group Configuration: + Create Disk Group Policy

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。

General Events

Actions

- Delete
- Show Policy Usage
- Use Global

Properties

Name: **100GB_Lun**

Description:

Owner: **Local**

Reboot on Boot Order Change:

Enforce vNIC/vHBA/iSCSI Name:

Boot Mode: Legacy Uefi

Warning

The type (primary/secondary) does not indicate a boot order presence.
 The effective order of boot devices within the same device class (LAN/Storage/iSCSI) is determined by PCIe bus scan order.
 If **Enforce vNIC/vHBA/iSCSI Name** is selected and the vNIC/vHBA/iSCSI does not exist, a config error will be reported.
 If it is not selected, the vNICs/vHBAs are selected if they exist, otherwise the vNIC/vHBA with the lowest PCIe bus scan order is used.

Local Devices

- Local Devices
- CIMC Mounted vMedia
- vNICs
- vHBAs
- iSCSI vNICs
- EFI Shell

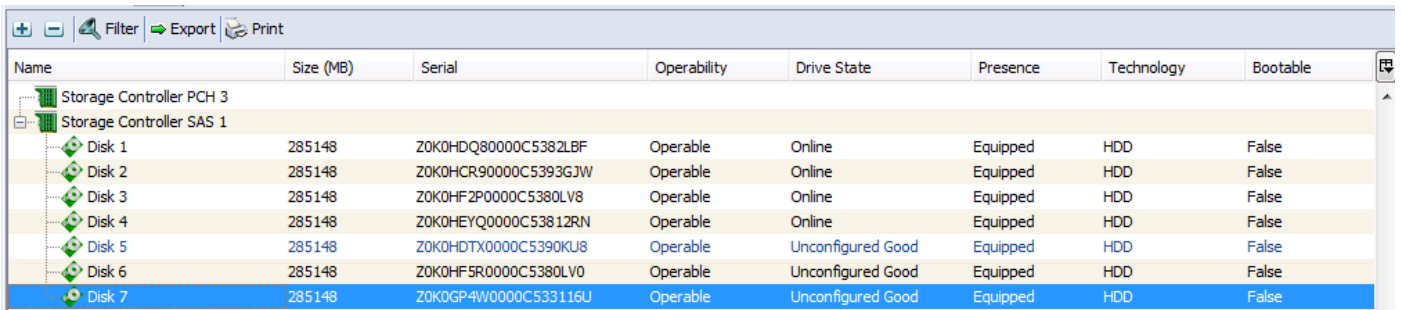
Boot Order

Name	Order	vNIC/vHBA/iSCSI vNIC	Type	LUN Name	WWN	Slot Number	Boot Name	Boot Path	Description
Local CD/DVD	1								
Local LUN	2		Primary	100gb					
Local Lun Image									

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。

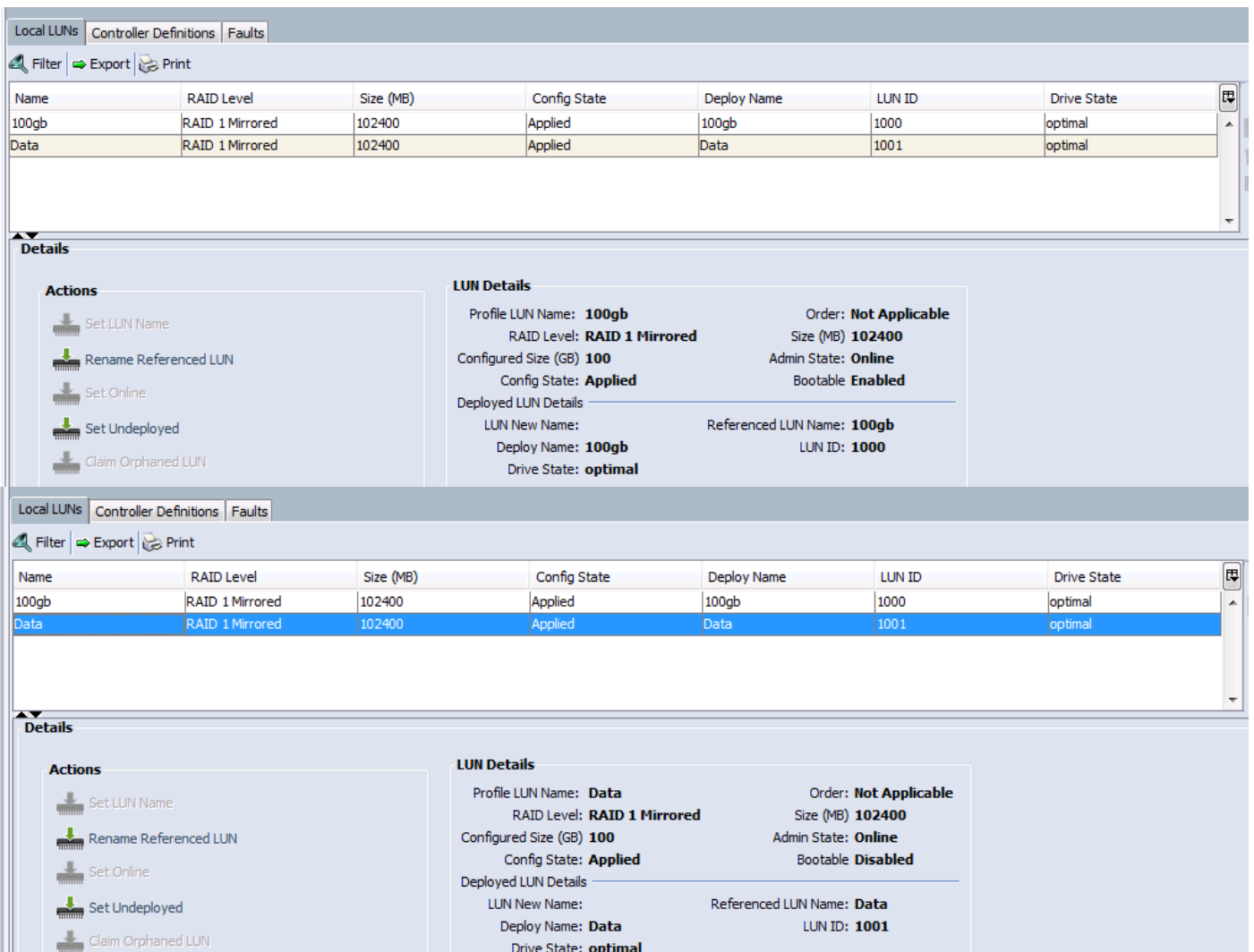


Name	Size (MB)	Serial	Operability	Drive State	Presence	Technology	Bootable
Storage Controller PCH 3							
Storage Controller SAS 1							
Disk 1	285148	Z0K0HDQ80000C5382LBF	Operable	Online	Equipped	HDD	False
Disk 2	285148	Z0K0HCR90000C5393GJW	Operable	Online	Equipped	HDD	False
Disk 3	285148	Z0K0HF2P0000C5380LV8	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	HBA's	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																				
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Disk 5	285148	Z0K0HDTX0000C5390KU8	Operable	Unconfigured Good	Equipped	HDD	False																				
Disk 6	285148	Z0K0HF5R0000C5380LV0	Operable	Online	Equipped	HDD	False																				
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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	HBA's	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																				