

# 使用UCSM配置C系列集成服务器的存储配置文件

## 目录

[简介](#)

[先决条件](#)

[要求](#)

[使用的组件](#)

[配置](#)

[创建磁盘组策略](#)

[创建存储配置文件](#)

[根据引导LUN创建引导策略](#)

[验证](#)

[故障排除](#)

## 简介

本文档介绍如何使用Cisco UCS ( 统一计算系统 ) Manager(UCSM)为C系列集成服务器配置存储配置文件。 存储配置文件允许灵活地定义存储磁盘的数量、这些磁盘的角色和使用情况以及其他存储参数。基本上，您可以将虚拟驱动器划分成称为逻辑单元号(LUN)的不同部分，并为这些LUN分配角色。

## 先决条件

### 要求

本文档没有任何特定的要求。

### 使用的组件

本文档不限于特定的软件和硬件版本。

## 配置

### 创建磁盘组策略

本示例在您使用disk6-7创建用于划分LUN的独立磁盘冗余阵列(RAID)1卷时有效。您还可以使用自动磁盘组配置，其中系统选择磁盘，此示例使用手动配置进行演示，以防您想手动分配磁盘，如图所示。

**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

## 创建存储配置文件

创建磁盘组后，创建存储配置文件，并在存储配置文件中创建引导LUN和数据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 Orphaned 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):

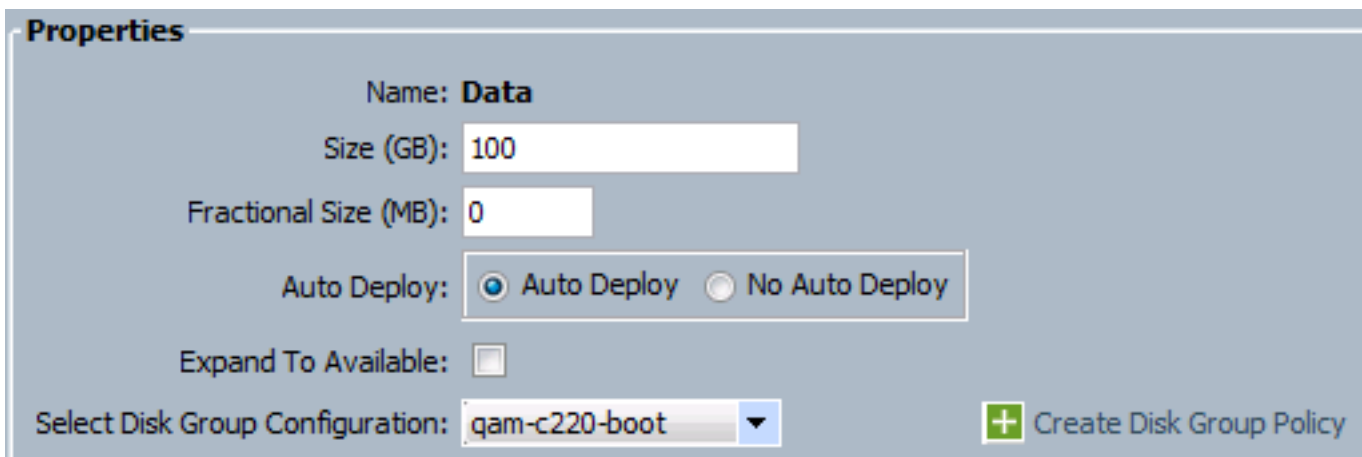
Fractional Size (MB):

Auto Deploy:  Auto Deploy  No Auto Deploy

Expand To Available:

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

Create Disk Group Policy



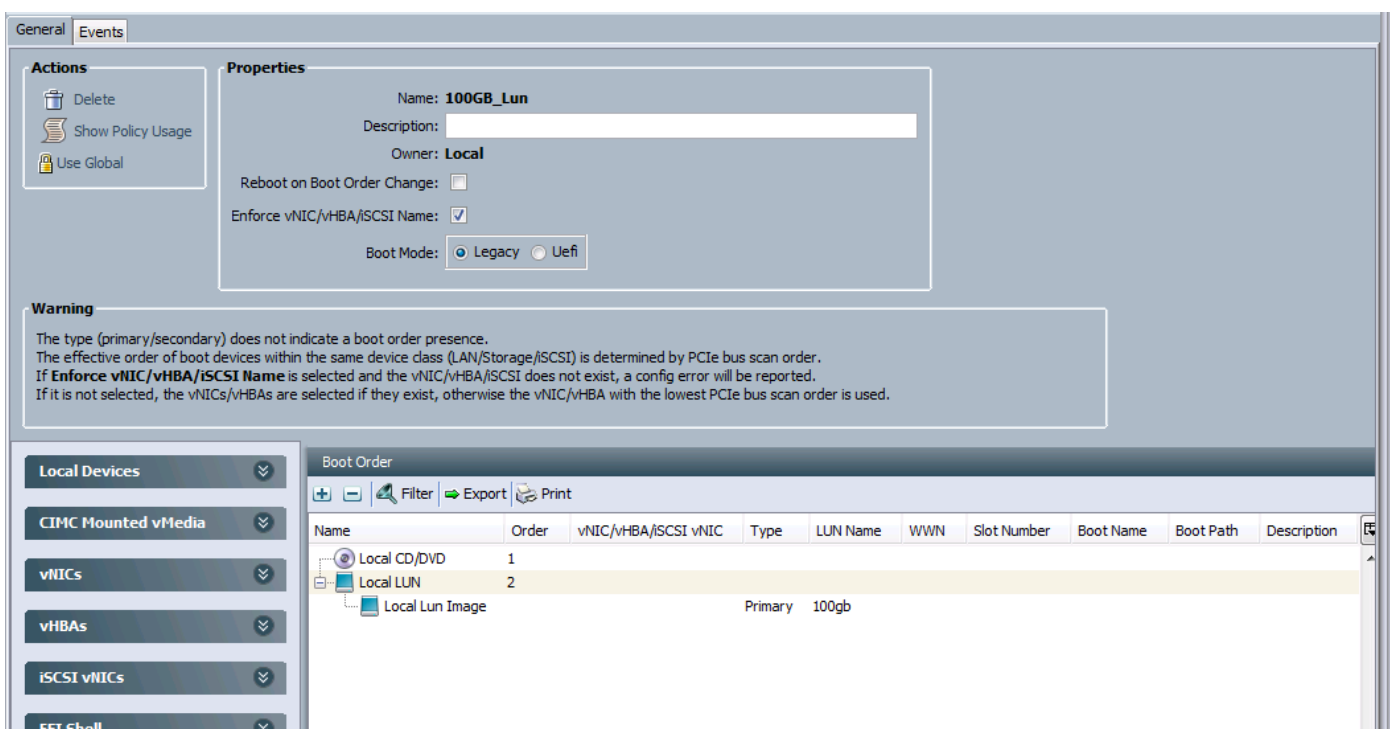
这里没有什么值得注意的：

1. 由于尚未应用服务配置文件，因此可启动被禁用。
2. 控制器定义字段留空。它仅与内部SSD的内部PCH控制器一起使用。PCH控制器定义提供了在连接到板载PCH控制器的两个内部SSD上配置单个LUN RAID的功能。



## 根据引导LUN创建引导策略

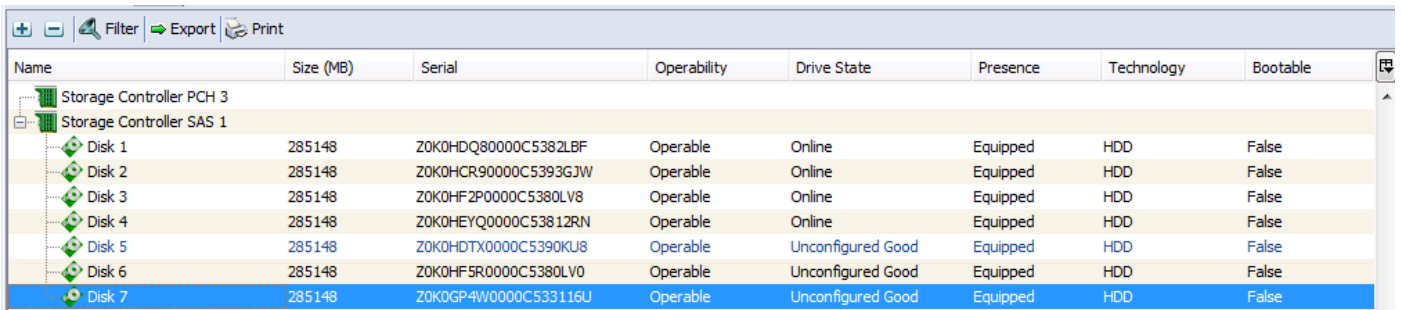
本示例创建了名为100gb的LUN，该LUN旨在作为引导LUN。因此，请相应地创建引导策略并应用于服务配置文件。



## 验证

使用本部分可确认配置能否正常运行。

在将服务配置文件应用到服务器之前，请确保磁盘组中使用的磁盘处于“未配置良好”状态，否则，在关联服务配置文件时会发生状态磁盘不足的错误。本示例使用Disk6-7，因此，如果它们处于“联机”或“Jbod”状态，则它们应处于“未配置正常”，然后右键单击这些磁盘并选择“将未配置正常设置为良好”。

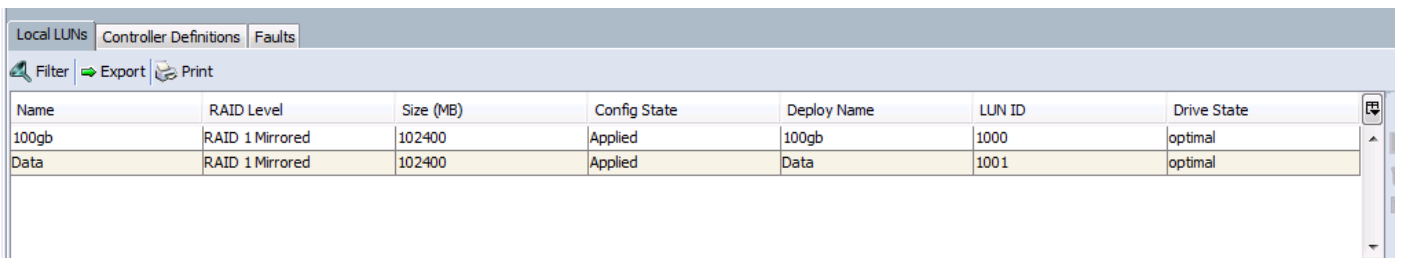


Name	Size (MB)	Serial	Operability	Drive State	Presence	Technology	Bootable
Storage Controller PCH 3							
Storage Controller SAS 1							
Disk 1	285148	Z0K0HDQ8000C5382LBF	Operable	Online	Equipped	HDD	False
Disk 2	285148	Z0K0HCR9000C5393GJW	Operable	Online	Equipped	HDD	False
Disk 3	285148	Z0K0HF2P000C5380LV8	Operable	Online	Equipped	HDD	False
Disk 4	285148	Z0K0HEYQ000C53812RN	Operable	Online	Equipped	HDD	False
Disk 5	285148	Z0K0HDTX000C5390KU8	Operable	Unconfigured Good	Equipped	HDD	False
Disk 6	285148	Z0K0HF5R000C5380LV0	Operable	Unconfigured Good	Equipped	HDD	False
Disk 7	285148	Z0K0GP4W000C533116U	Operable	Unconfigured Good	Equipped	HDD	False

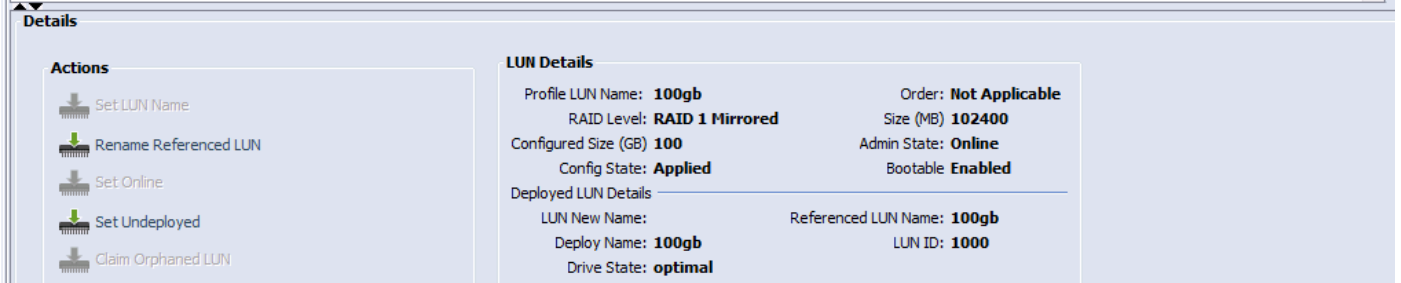
## 故障排除

本部分提供了可用于对配置进行故障排除的信息。

成功应用服务配置文件后，您的配置应如下所示：



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



**Actions**

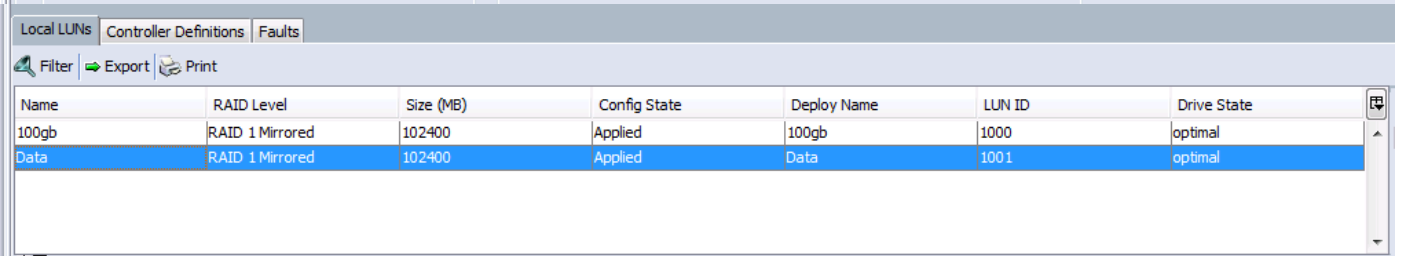
- Set LUN Name
- Rename Referenced LUN
- Set Online
- Set Undeployed
- Claim Orphaned LUN

**LUN Details**

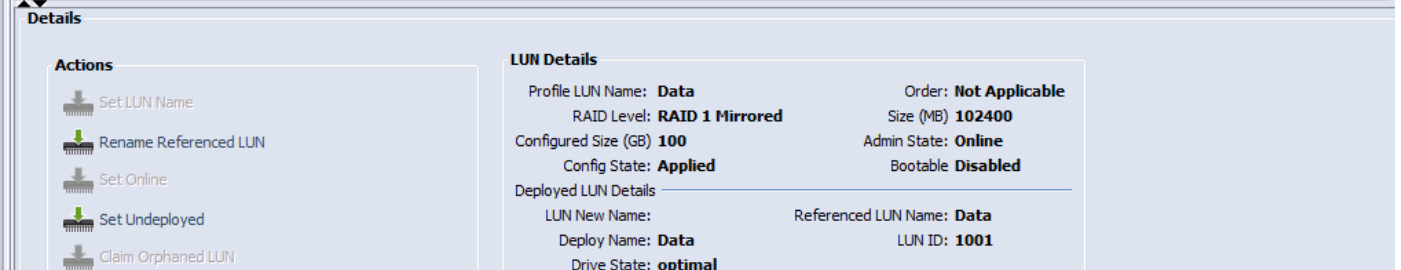
Profile LUN Name: **100gb**      Order: **Not Applicable**  
RAID Level: **RAID 1 Mirrored**      Size (MB) **102400**  
Configured Size (GB) **100**      Admin State: **Online**  
Config State: **Applied**      Bootable **Enabled**

Deployed LUN Details

LUN New Name:      Referenced LUN Name: **100gb**  
Deploy Name: **100gb**      LUN ID: **1000**  
Drive State: **optimal**



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



**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																				
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	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																				