

# 配置C系列集成的服务器的存储设备配置文件有UCSM的

## 目录

[简介](#)

[先决条件](#)

[要求](#)

[使用的组件](#)

[配置](#)

[创建磁盘组策略](#)

[创建存储设备配置文件](#)

[创建根据引导程序LUN的引导程序策略](#)

[验证](#)

[故障排除](#)

## 简介

本文描述如何配置C系列集成的服务器的存储设备配置文件有思科UCS (统一计算系统)管理器的(UCSM)。存储设备配置文件允许灵活性为了定义存储磁盘数量、这些磁盘角色和使用情况和其他存储设备参数。基本上，您能赢得虚拟驱动器到呼叫逻辑单元编号的不同的部分(LUN)和分配角色到那些LUN。

## 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

此示例有效，当您使用disk6-7创建Redundant Array of Independent Disk (RAID)使用赢得LUN的1音量时。您能也使用系统选择磁盘的自动磁盘组配置，如镜像所显示，演示的手动配置目的此示例用途，万一要手工分配磁盘。

**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

## 创建存储设备配置文件

在您创建磁盘组后，请创建存储设备配置文件，并且在存储设备配置文件内请创建引导程序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 Unbound LUN

**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

注释的一些工作此处：

1. 因为服务档案没有应用，可启动禁用。
2. 控制器定义域被离开空。它只与内部PCH控制器一起使用内部SSDs。PCH控制器定义提供了能力配置在两内部SSDs间的单个LUN RAID连接对内置PCH控制器。



## 创建根据引导程序LUN的引导程序策略

此示例创建名为打算是引导程序LUN的100gb的LUN。因此请相应地创建引导程序策略并且适用于服务档案。

The screenshot shows the 'Properties' tab for a '100GB\_Lun'. The 'Boot Mode' is set to 'Legacy'. Below the properties is a 'Warning' box and a 'Boot Order' table.

**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.

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					

**验证**

使用本部分可确认配置能否正常运行。

在您适用于服务档案服务器前，请保证用于磁盘组的磁盘在“没有配置的好”状态，状态不足的磁盘在服务档案关联时发生的其他错误。如果他们在“联机”状态或“Jbod”，然后用鼠标右键单击在这些磁盘并且选择设置的没有配置的坏对好，此示例使用的Disk6-7，因此他们应该在“没有配置好”。

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

## 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。

一旦服务档案顺利地应用，您的配置如下所示：

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

**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**

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																				