

HPE Gen10 Plus 服务器

MR416i/MR216i 系列阵列卡 BIOS 下配置阵列

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一. 适用范围与注意事项

- 本文档旨在说明 HPE Gen10 Plus 系列服务器 MR416i/MR216i 系列阵列卡在 BIOS 下配置阵列的方法，并以 DL345 Gen10 Plus 服务器为例进行配置步骤说明。
- 实际情况是否适用本文档，请通过下面导航链接进行确认：
<https://zhiliao.h3c.com/Theme/details/218271>
- 提示：
本文档中的信息（包括产品，软件版本和设置参数）仅作参考示例，具体操作与目标需求设置请以实际为准。
本文档不定期更新维护，请以发布的最新版本为准。

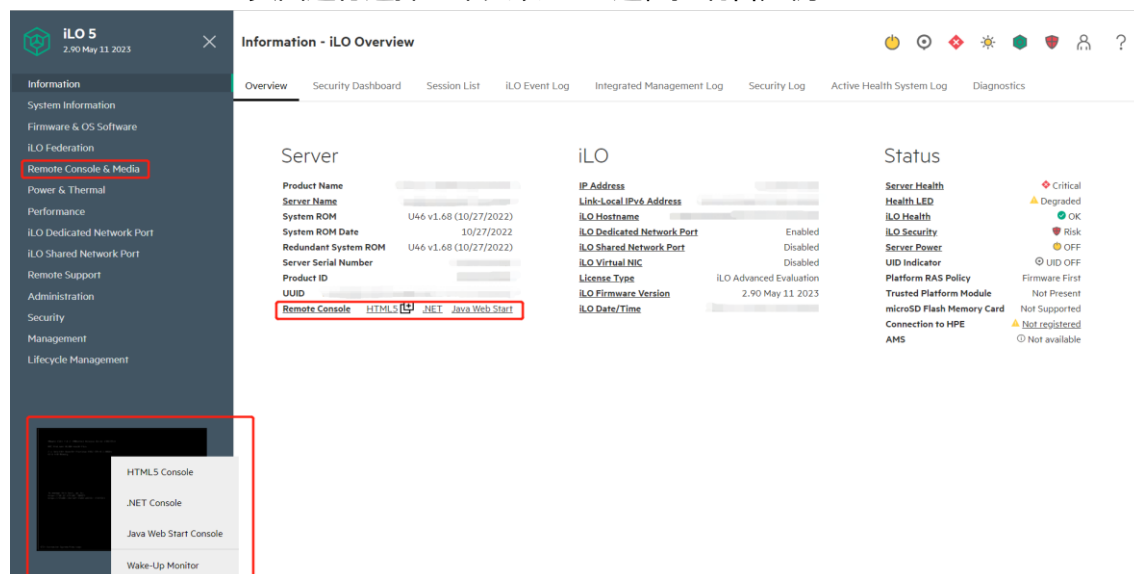
二. 配置准备

- 连接 iLO 与启用远程控制台
具体方法请参考：<https://zhiliao.h3c.com/Theme/details/216337>

三. 配置步骤

1. 访问 iLO 并启用远程控制台

通过 iLO 5 页面 Information -> Overview 的 Remote Console 选项，或页面左下方 Remote Console 选区可直接启用远程控制台；也可在 Remote Console & Media - iLO Integrated Remote Console 页面进行选择。本文以.NET 远程控制台为例。

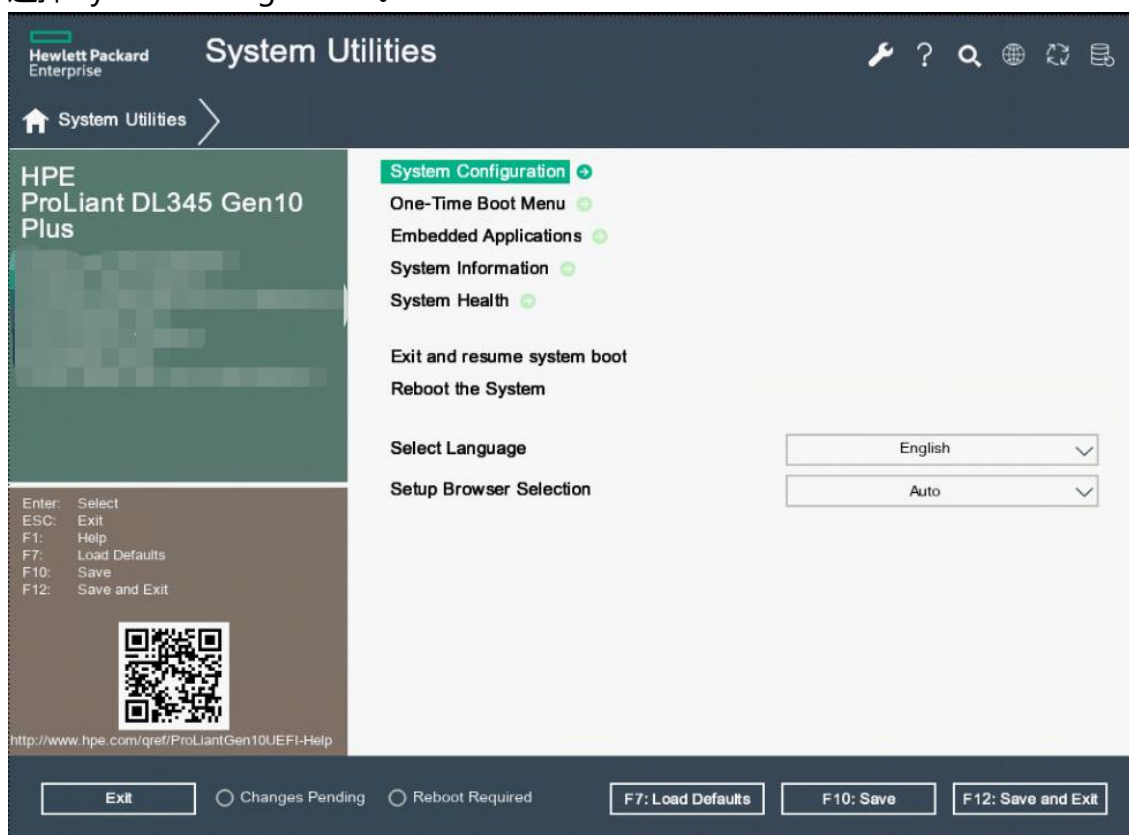


2. 进入 BIOS 并找到阵列卡选项

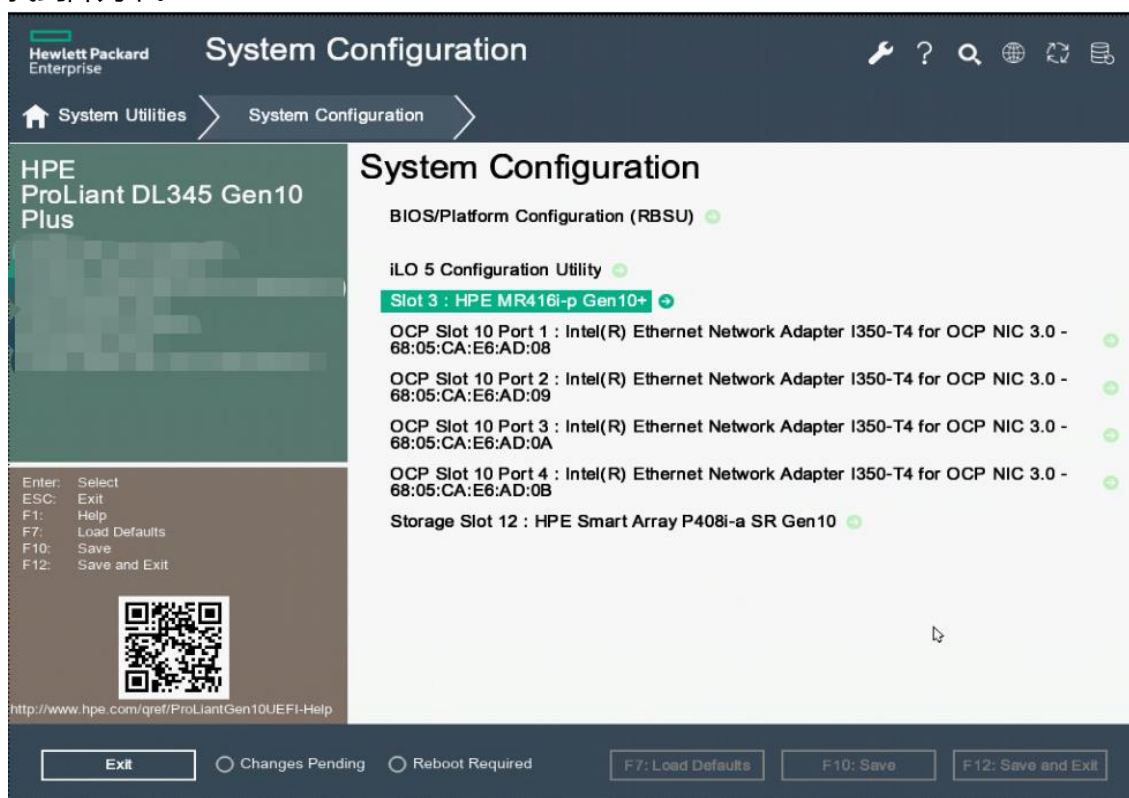
1) 重启服务器，自检界面按 **F9** 进入 BIOS。



2) 选择 System Configuration。



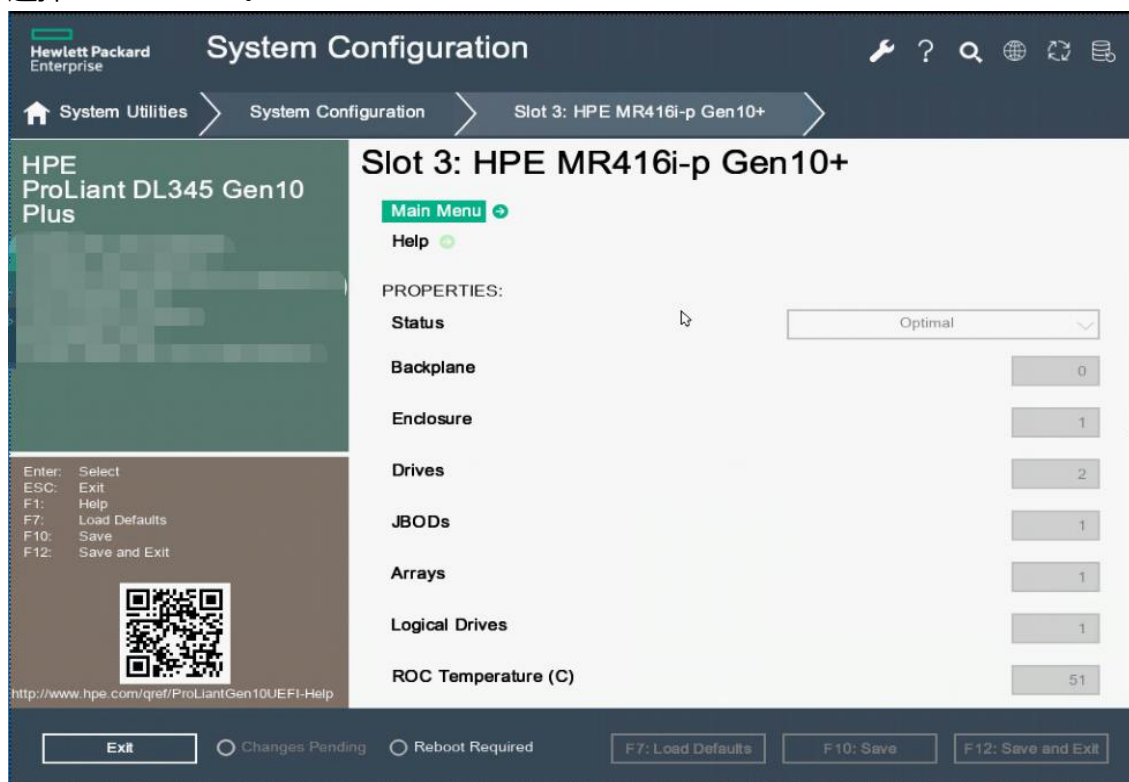
3) 找到阵列卡。



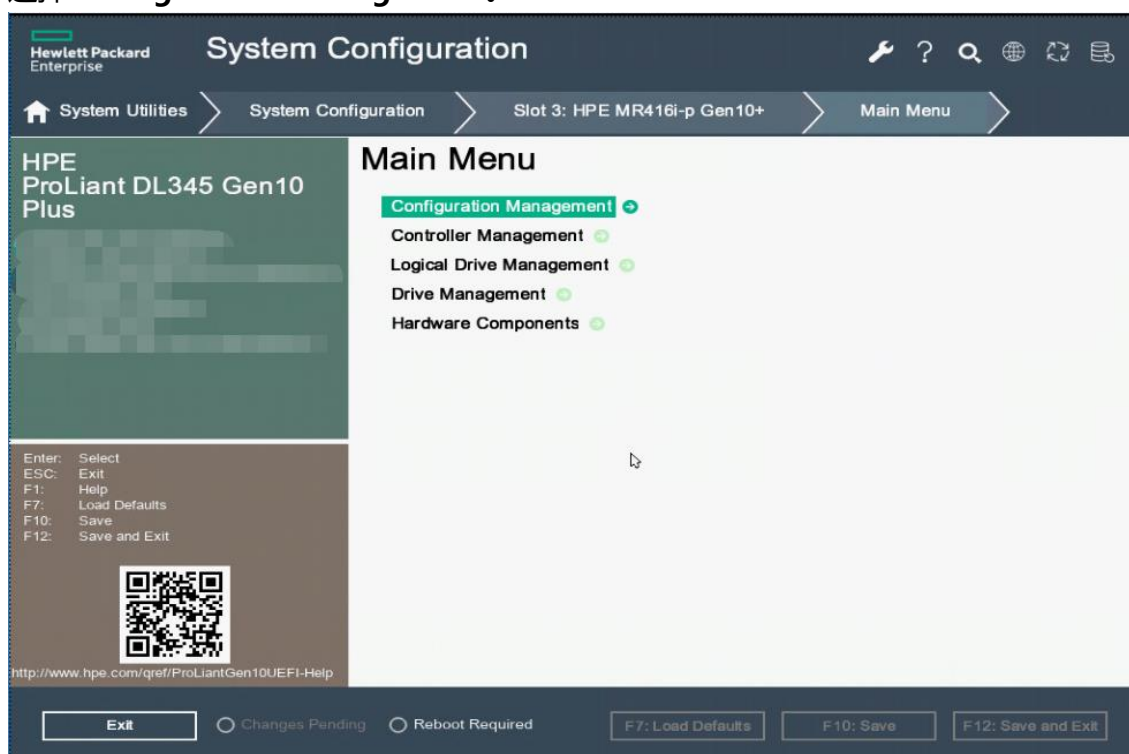
3. 创建与删除阵列

3.1 创建阵列

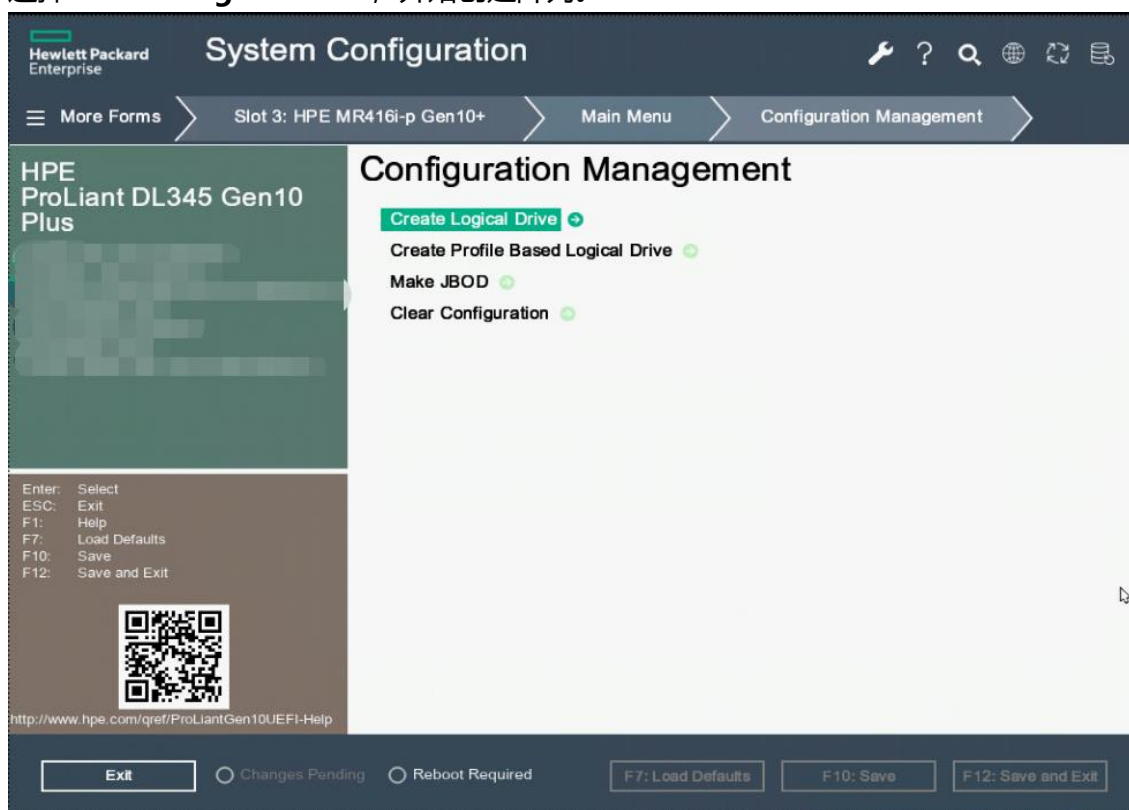
1) 选择 **Main Menu**。



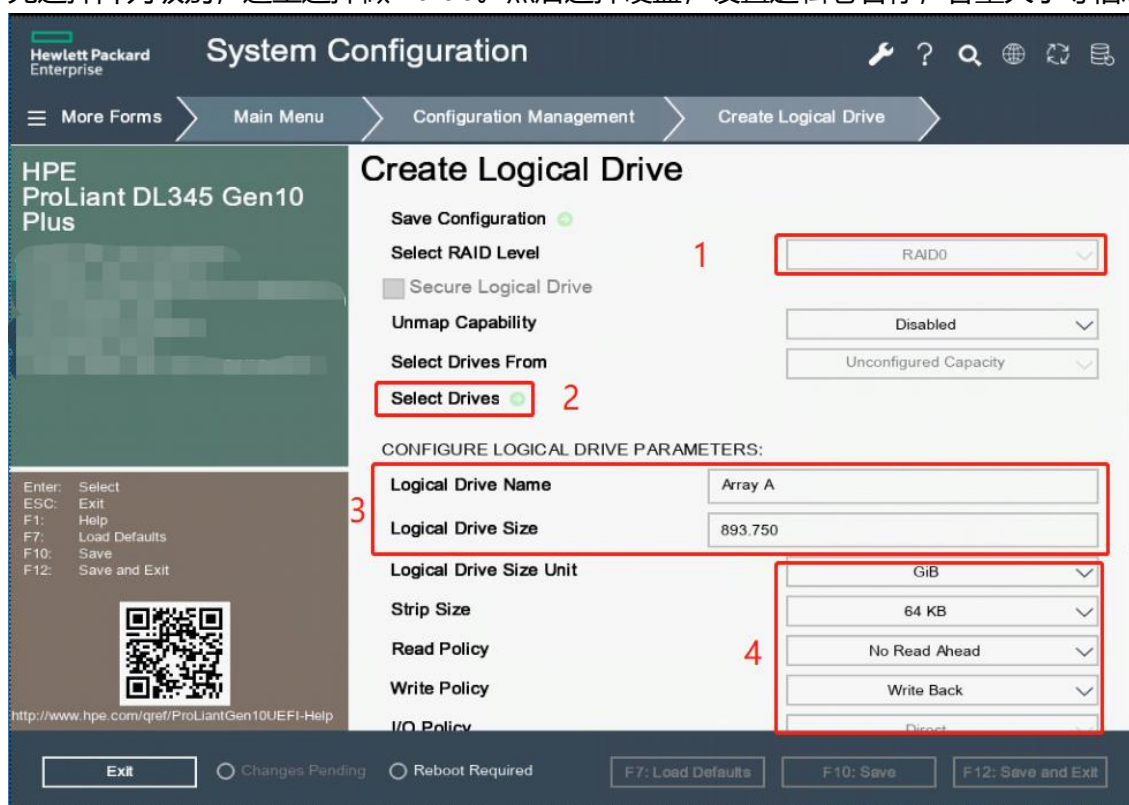
2) 选择 **Configuration Management**。



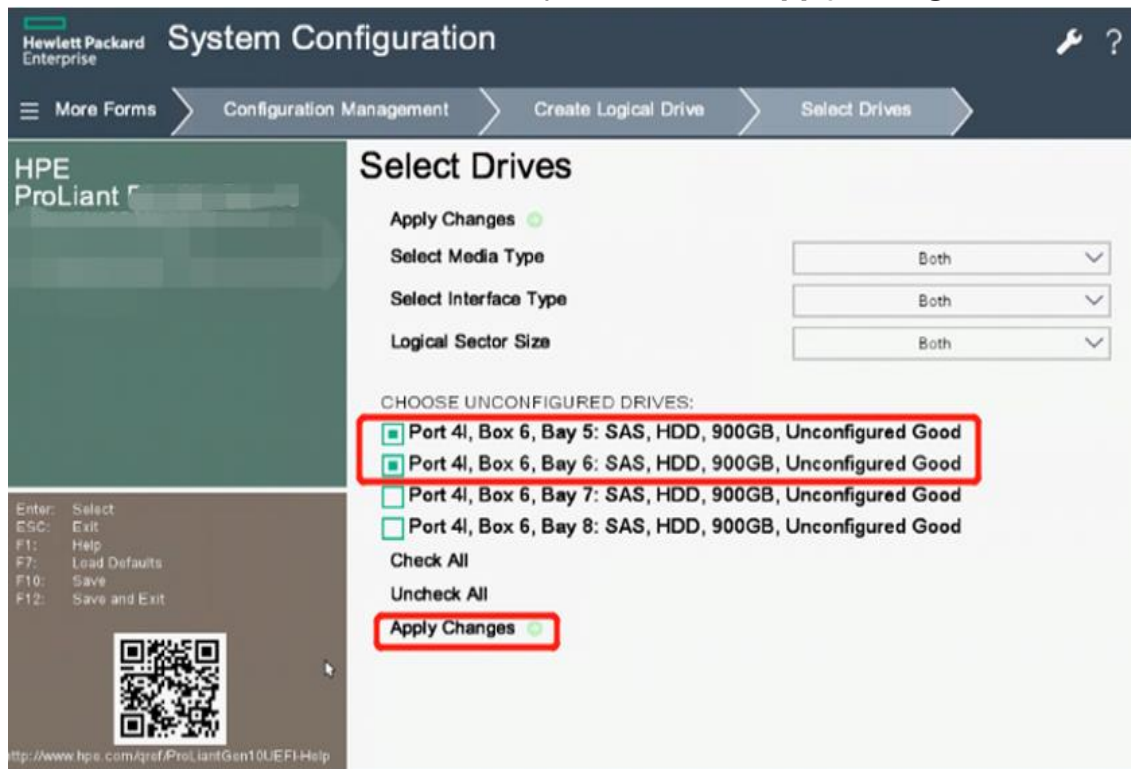
3) 选择 **Create Logical Drive**，开始创建阵列。



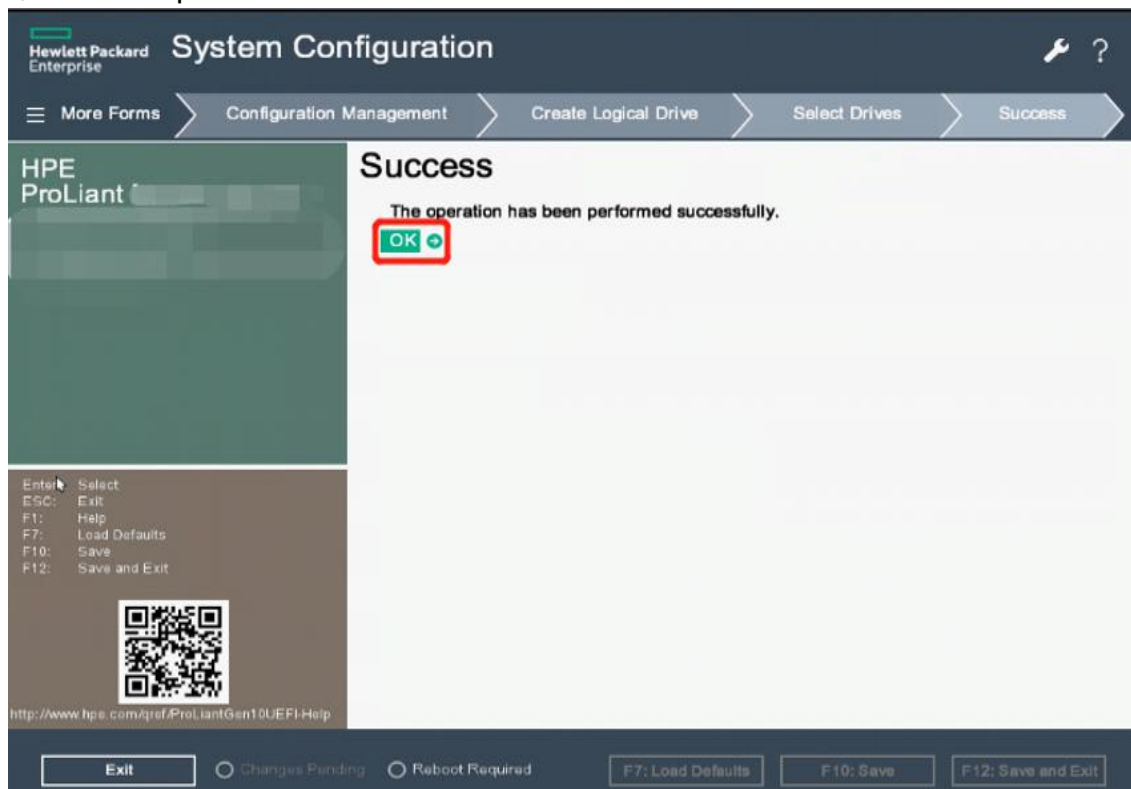
4) 先选择阵列级别，这里选择做 Raid0。然后选择硬盘，设置逻辑卷名称，容量大小等信息。



注：若要创建 raid10/raid50/raid60 等复合阵列，则需要先分开创建 span，过程如下。
以 raid10 为例，先选择两块盘创建一个 span 空间，点击 **Apply Changes** 提交申请。



第一个空间 span0 创建成功，点击 **OK**。



点击 **Add More Span**。

Hewlett Packard Enterprise System Configuration

More Forms Main Menu Configuration Management Create Logical Drive

HPE ProLiant

Enter: Select
ESC: Exit
F1: Help
F7: Load Defaults
F10: Save
F12: Save and Exit

Create Logical Drive

Save Configuration

Select RAID Level RAID10

☐ Data Integrity

Select Drives From Unconfigured Capacity

SELECT SPAN(S):

Span 0: (Drive Port 4I, Box 6, Bay 6 SAS)(Drive Port 4I, Box 6, Bay 5 SAS)

Select Drives

Add More Spans

CONFIGURE LOGICAL DRIVE PARAMETERS:

Logical Drive Name

Logical Drive Size 837,843

Logical Drive Size Unit GiB

Strip Size 256 KB

Rebuild Policy Use Default

Exit ☐ Changes Pending ☐ Reboot Required F7: Load Defaults F10: Save F12: Save and Exit

点击 **Select Drives**。

Hewlett Packard Enterprise System Configuration

More Forms Main Menu Configuration Management Create Logical Drive

HPE ProLiant

Enter: Select
ESC: Exit
F1: Help
F7: Load Defaults
F10: Save
F12: Save and Exit

Create Logical Drive

Save Configuration

Select RAID Level RAID10

☐ Data Integrity

Select Drives From Unconfigured Capacity

SELECT SPAN(S):

Span 0: (Drive Port 4I, Box 6, Bay 6 SAS)(Drive Port 4I, Box 6, Bay 5 SAS)

Select Drives

Span 1:

Select Drives

Add More Spans

CONFIGURE LOGICAL DRIVE PARAMETERS:

Logical Drive Name

Logical Drive Size 837,843

Logical Drive Size Unit GiB

Strip Size 256 KB

Rebuild Policy Use Default

Exit ☐ Changes Pending ☐ Reboot Required F7: Load Defaults F10: Save F12: Save and Exit

再选择两块盘，点击 **Apply Changes**。

Hewlett Packard Enterprise System Configuration

More Forms > Configuration Management > Create Logical Drive > Select Drives

HPE ProLiant

Enter: Select
ESC: Exit
F1: Help
F7: Load Defaults
F10: Save
F12: Save and Exit

Select Drives

Apply Changes ✔

Select Media Type: Both ▼

Select Interface Type: Both ▼

Logical Sector Size: Both ▼

CHOOSE UNCONFIGURED DRIVES:

☒ Port 4I, Box 6, Bay 7: SAS, HDD, 900GB, Unconfigured Good

☒ Port 4I, Box 6, Bay 8: SAS, HDD, 900GB, Unconfigured Good

Check All

Uncheck All

Apply Changes ✔

Exit ○ Changes Pending ○ Reboot Required F7: Load Defaults F10: Save F12: Save and Exit

创建成功，点击 **OK**。

Hewlett Packard Enterprise System Configuration

More Forms > Configuration Management > Create Logical Drive > Select Drives > Success

HPE ProLiant

Enter: Select
ESC: Exit
F1: Help
F7: Load Defaults
F10: Save
F12: Save and Exit

Success

The operation has been performed successfully.

OK ✔

Exit ○ Changes Pending ○ Reboot Required F7: Load Defaults F10: Save F12: Save and Exit

5) 设置完成后，点击 Save Configuration 保存所有配置。

Hewlett Packard Enterprise System Configuration

More Forms > Main Menu > Configuration Management > Create Logical Drive

HPE ProLiant DL345 Gen10 Plus

Enter: Select
ESC: Exit
F1: Help
F7: Load Defaults
F10: Save
F12: Save and Exit

<http://www.hpe.com/qref/ProLiantGen10UEFI-Help>

Select Drives

CONFIGURE LOGICAL DRIVE PARAMETERS:

Logical Drive Name	Array A
Logical Drive Size	893.750
Logical Drive Size Unit	GiB
Strip Size	64 KB
Read Policy	No Read Ahead
Write Policy	Write Back
I/O Policy	Direct
Access Policy	Read/Write
Drive Cache	Unchanged
Disable Background Initialization	No
Default Initialization	No
Emulation Type	Default

Save Configuration

Exit | Changes Pending | Reboot Required | F7: Load Defaults | F10: Save | F12: Save and Exit

6) 点击 **Confirm**，选择 **Yes**，确认继续。

Hewlett Packard Enterprise System Configuration

More Forms > Main Menu > Configuration Management > Create Logical Drive > Warning

HPE ProLiant DL345 Gen10 Plus

Enter: Select
ESC: Exit
F1: Help
F7: Load Defaults
F10: Save
F12: Save and Exit

<http://www.hpe.com/qref/ProLiantGen10UEFI-Help>

Warning

Creating Logical Drives will cause the data on the associated Drives to be permanently deleted. Are you sure you want to continue with this operation?

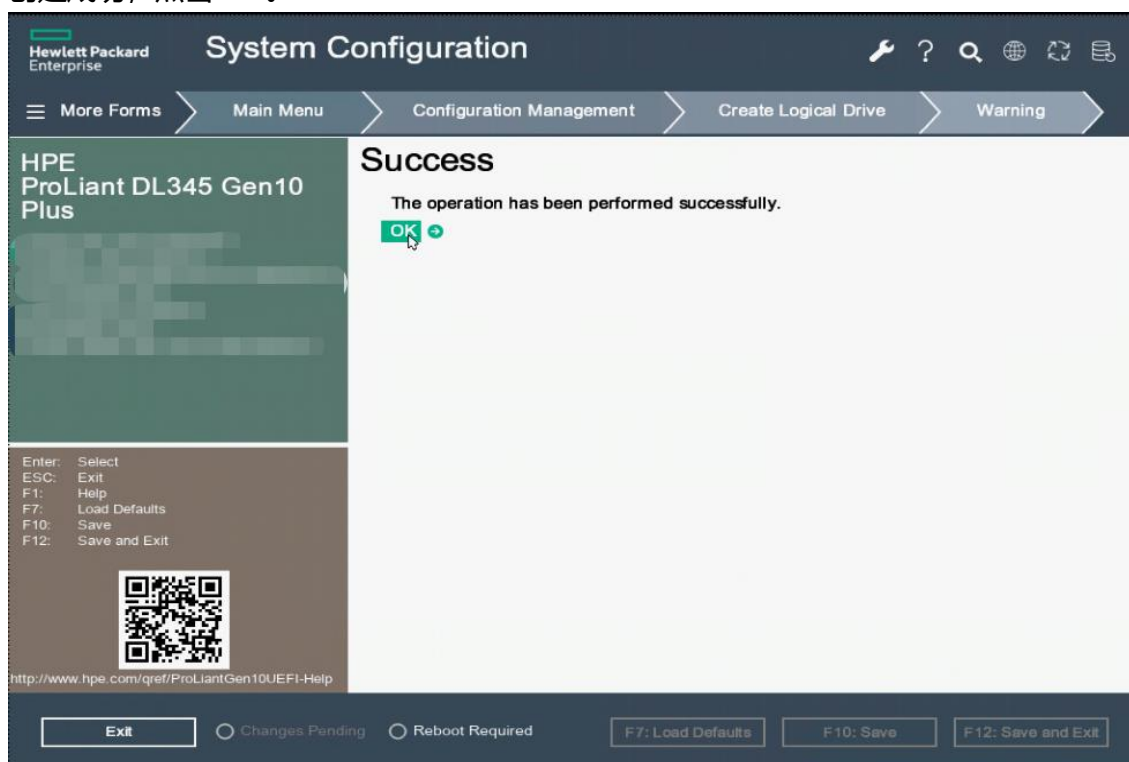
☐ Confirm

☒ **Yes**

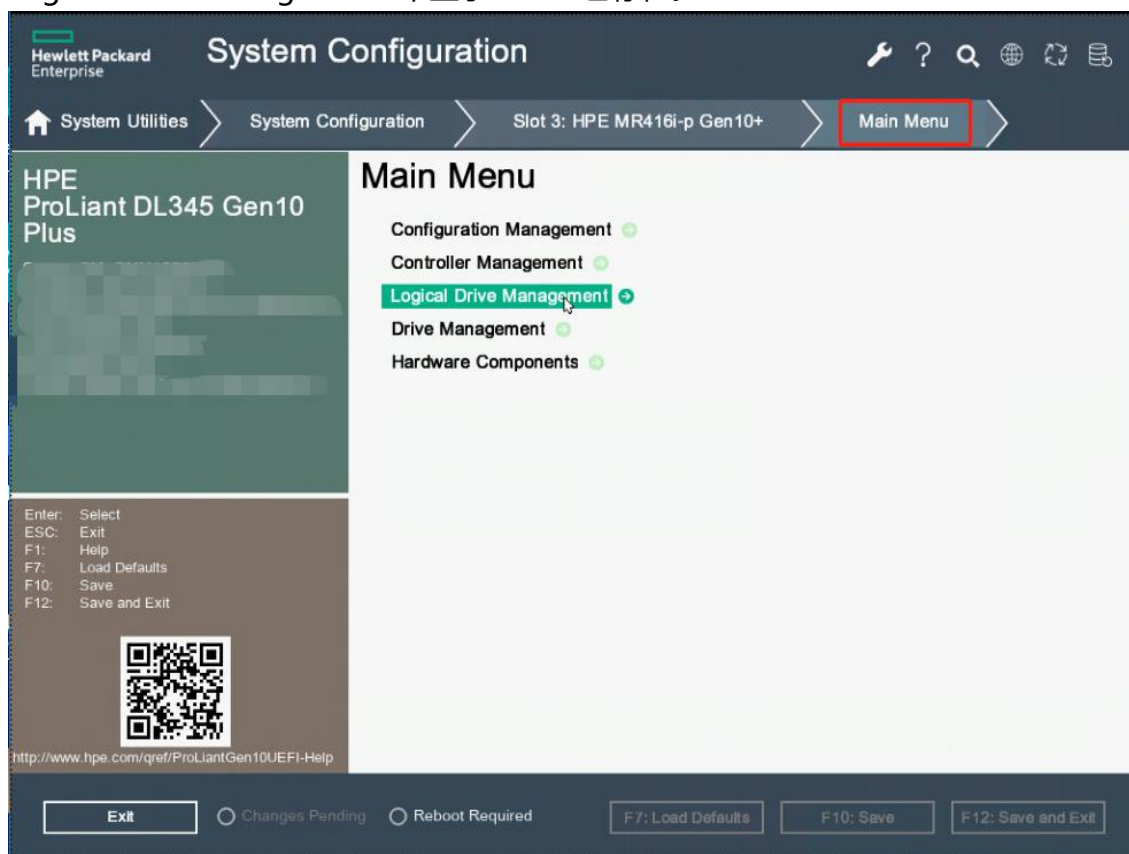
☐ No

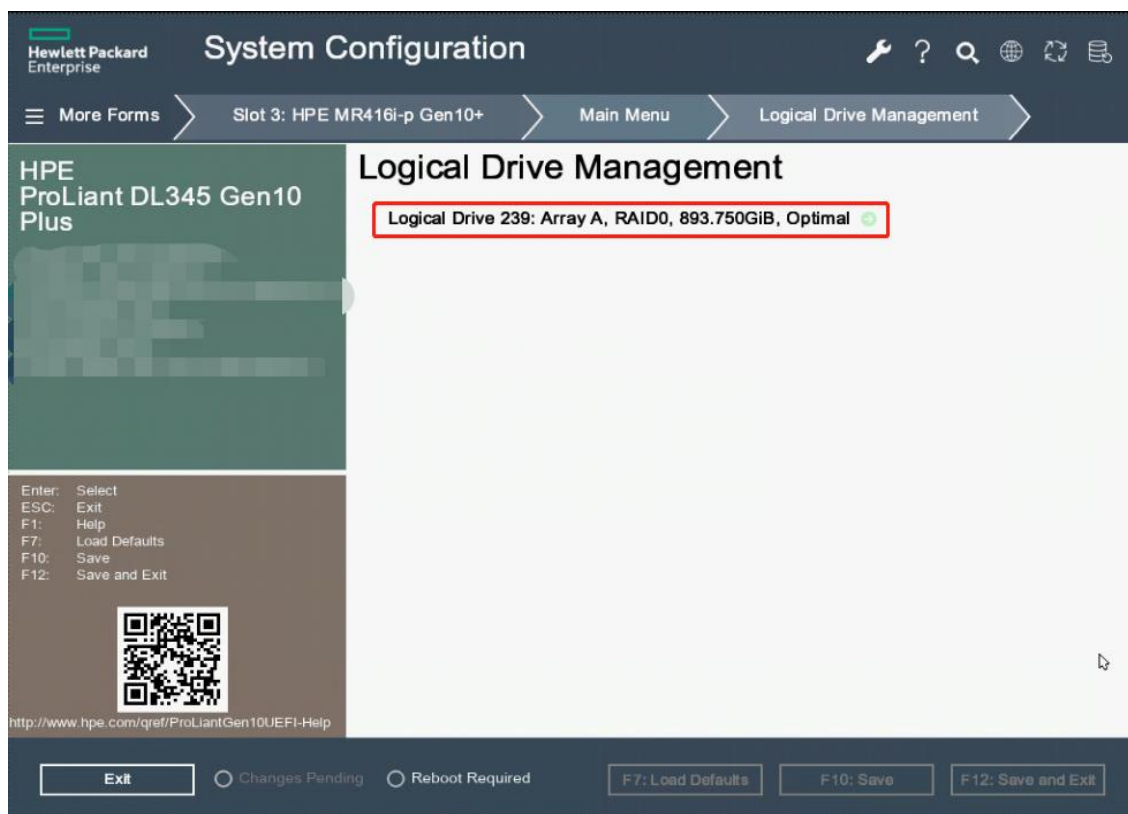
Exit | Changes Pending | Reboot Required | F7: Load Defaults | F10: Save | F12: Save and Exit

7) 创建成功，点击 **OK**。



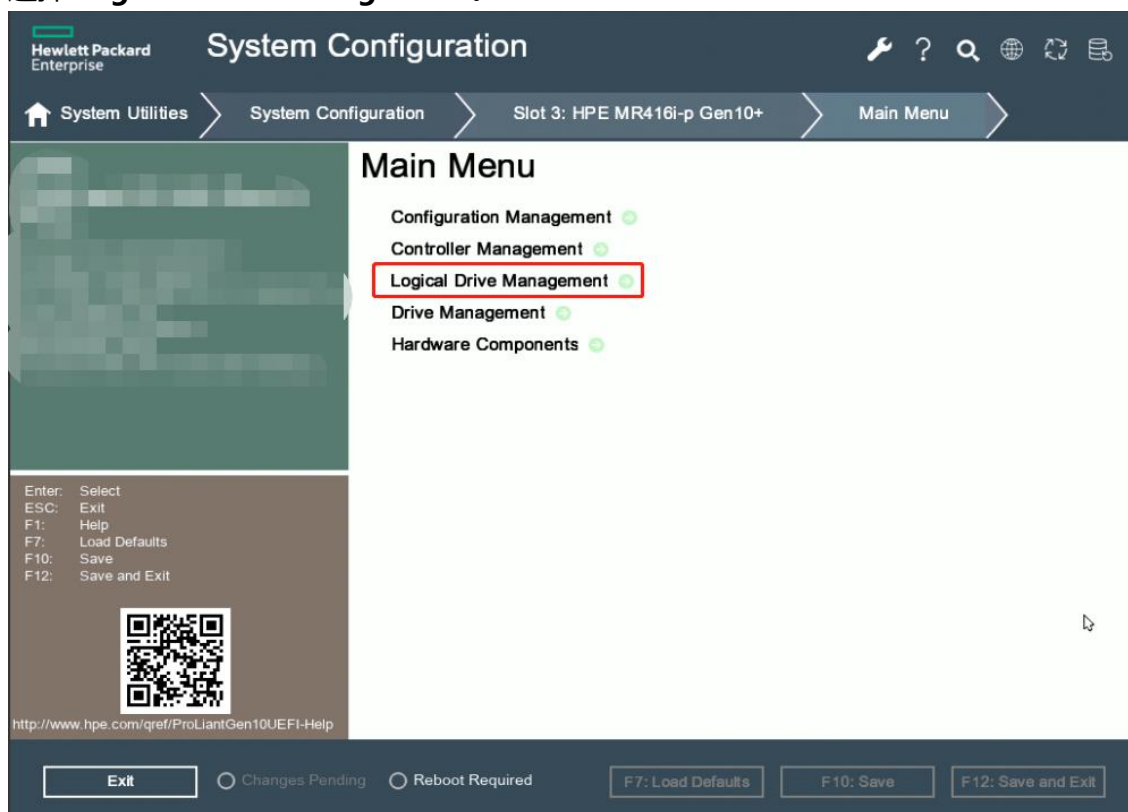
Logical Drive Management 下显示 Raid0 已存在。



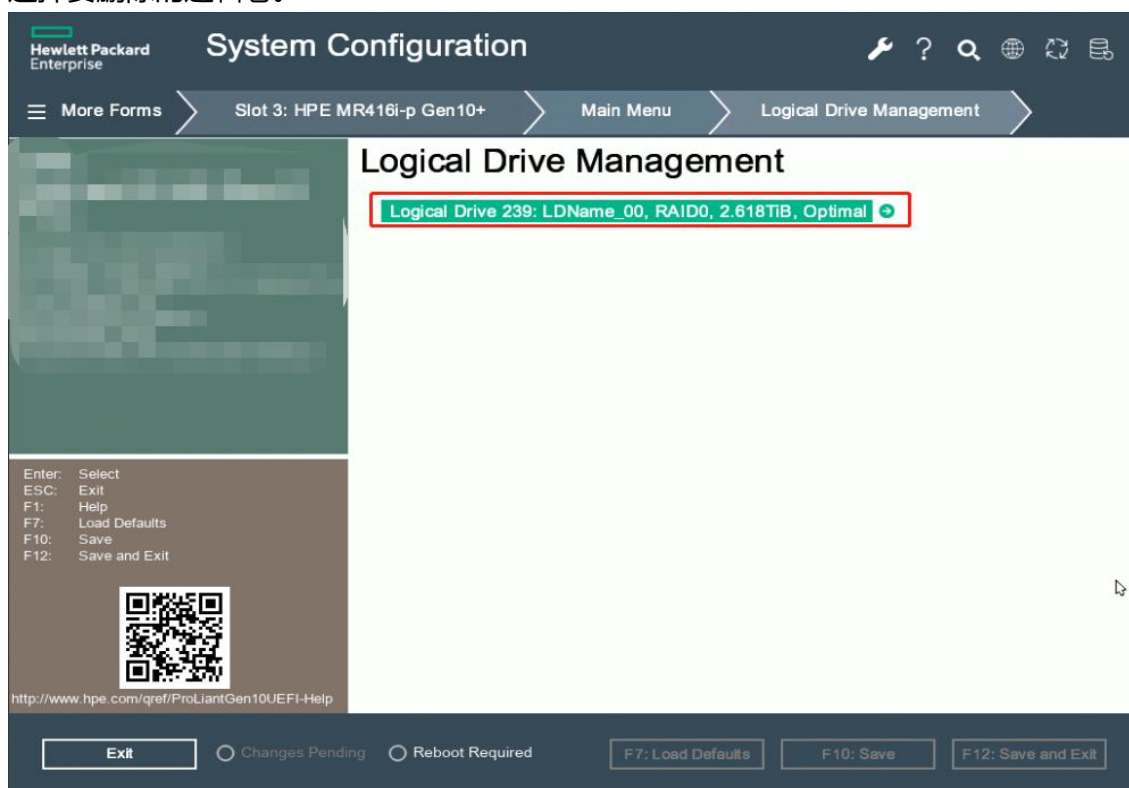


3.2 删除阵列

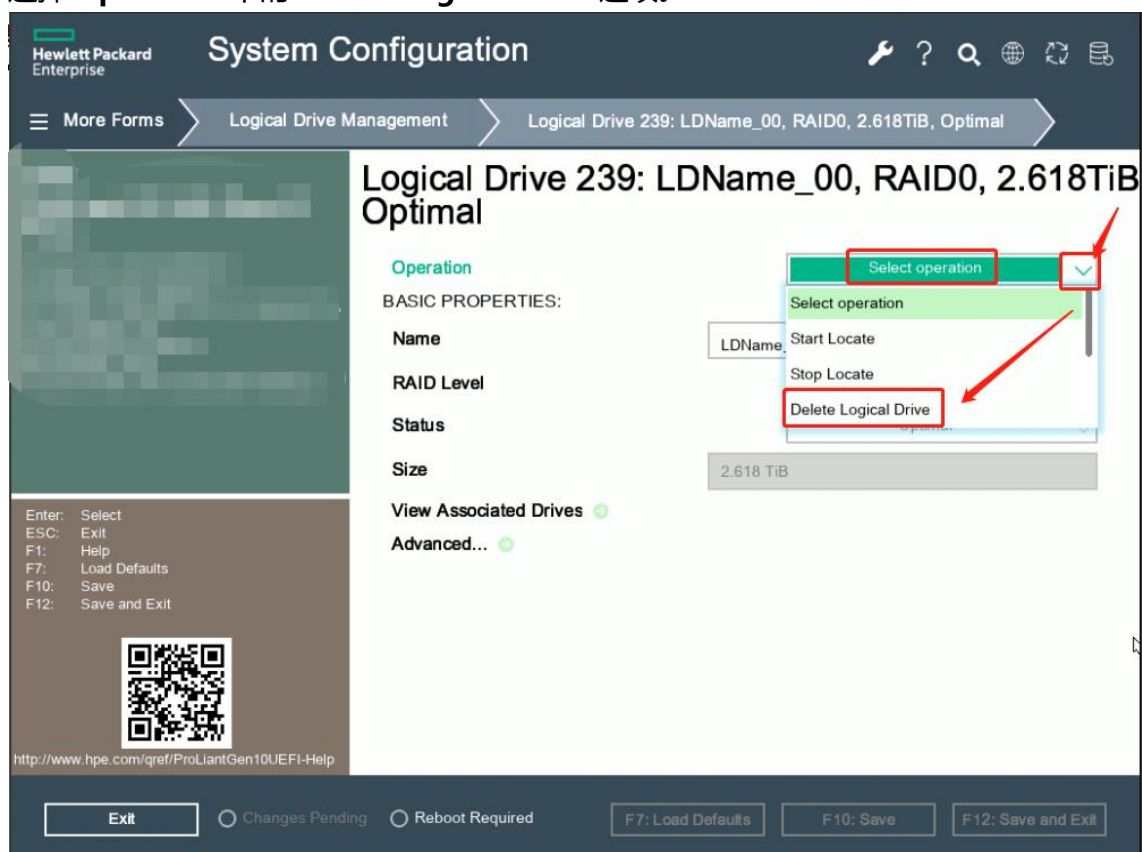
1) 选择 **Logical Drive Management**。



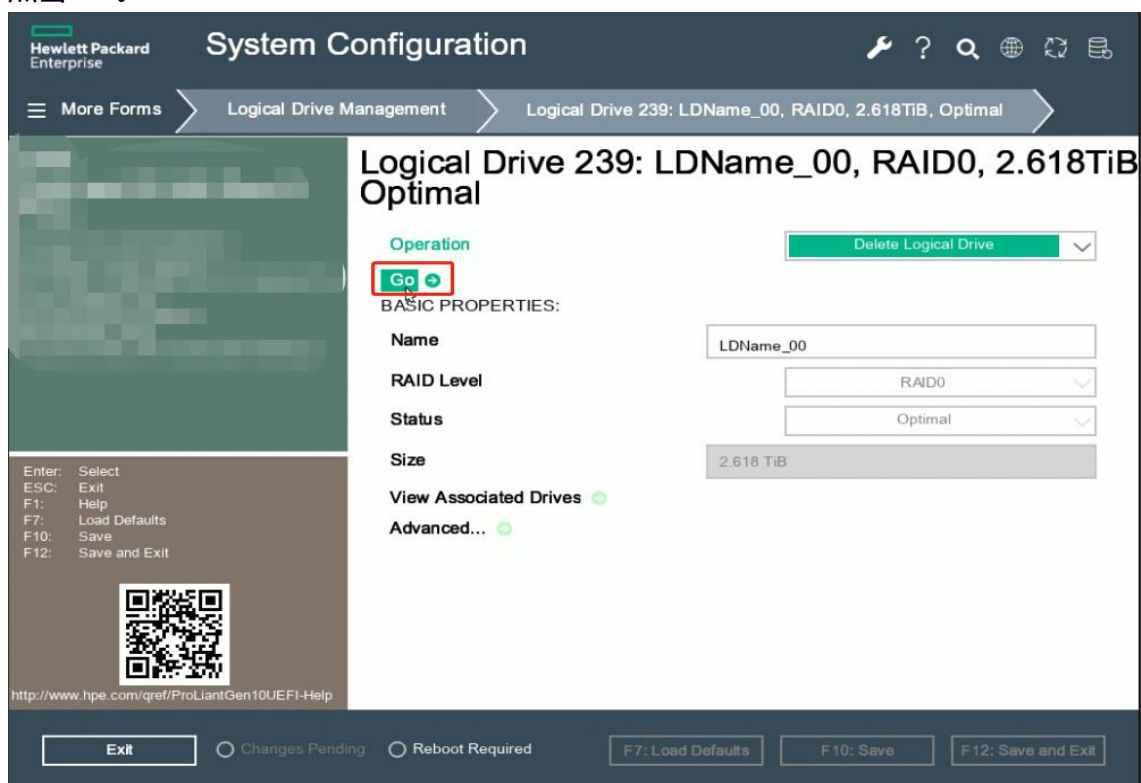
2) 选择要删除的逻辑卷。



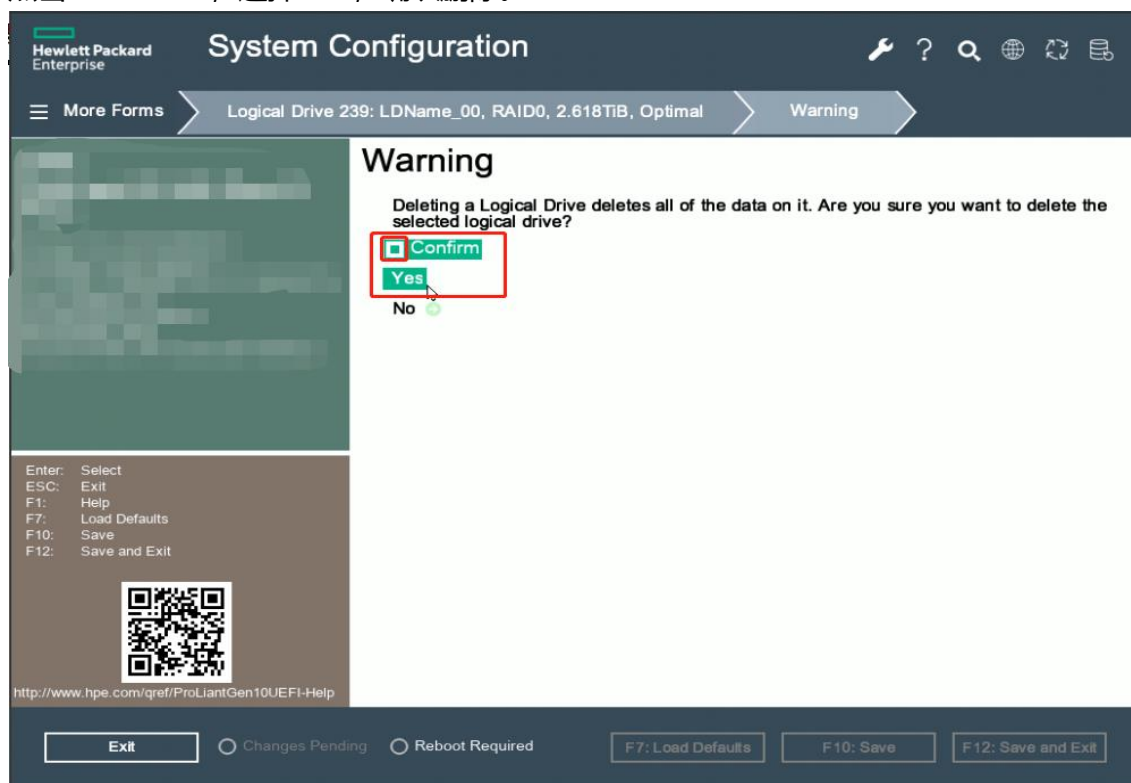
3) 选择 **Operation** 下的 **Delete Logical Drive** 选项。



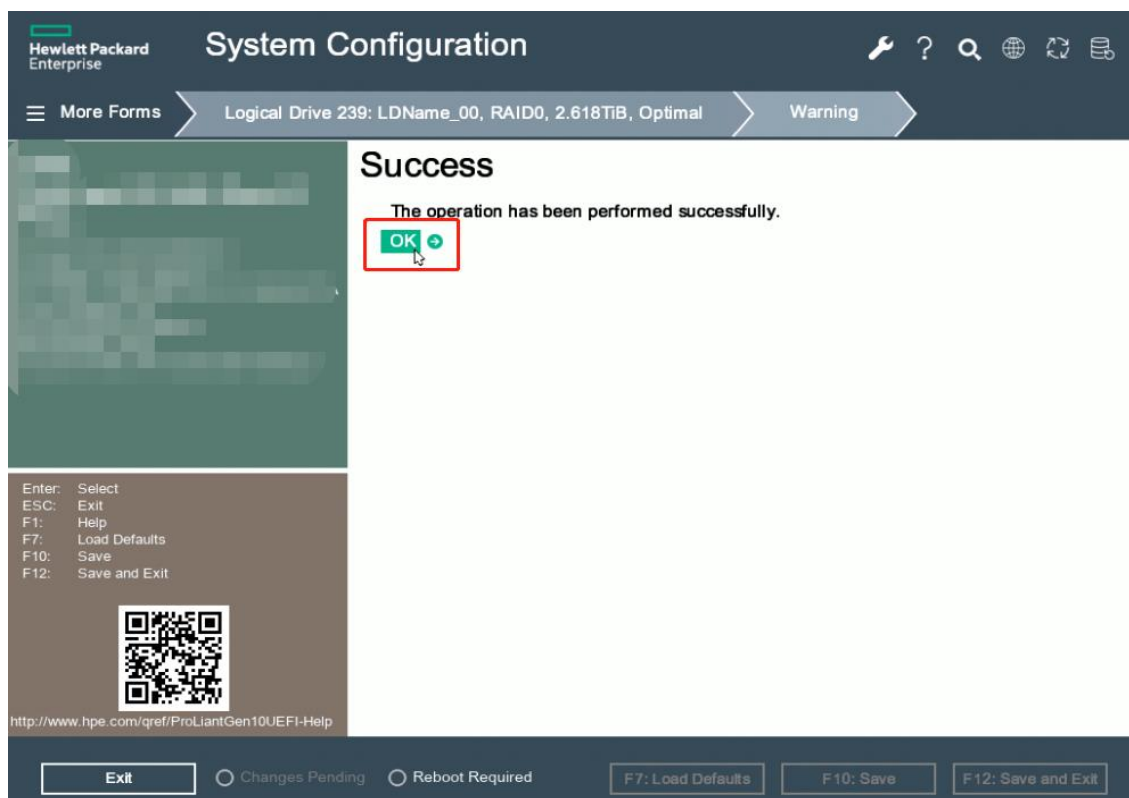
4) 点击 **Go**。



5) 点击 **Confirm**，选择 **Yes**，确认删除。



6) 删除成功，点击 **OK**。

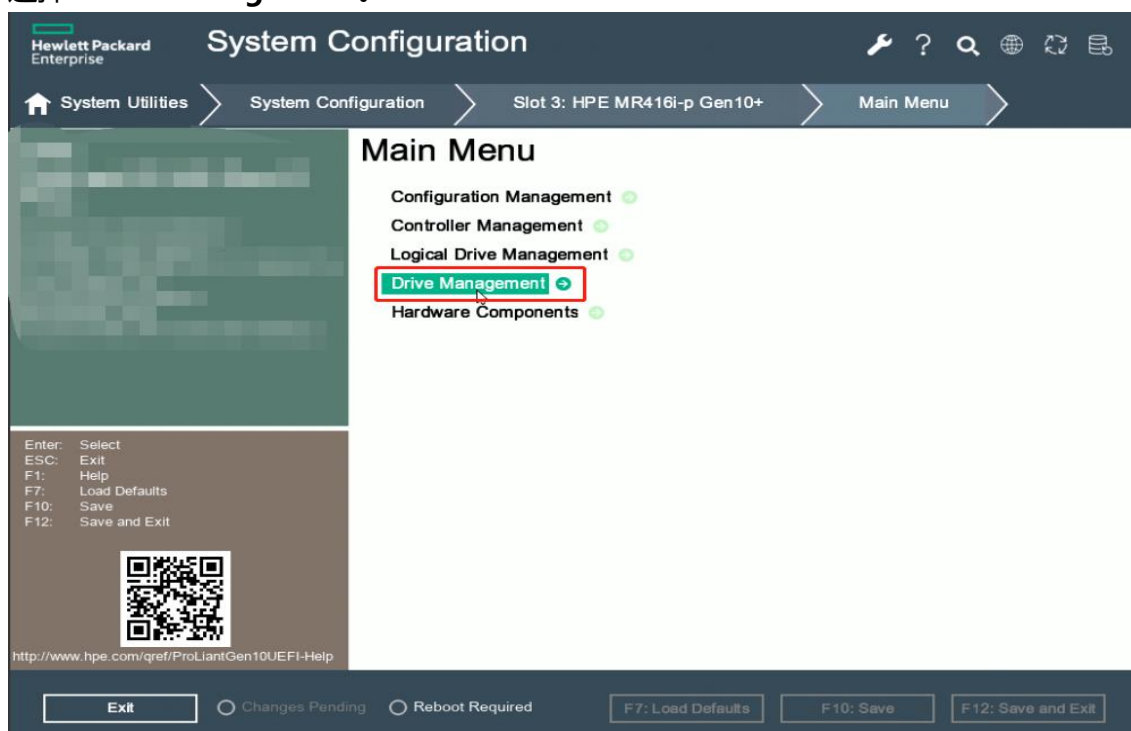


4. 创建与删除热备

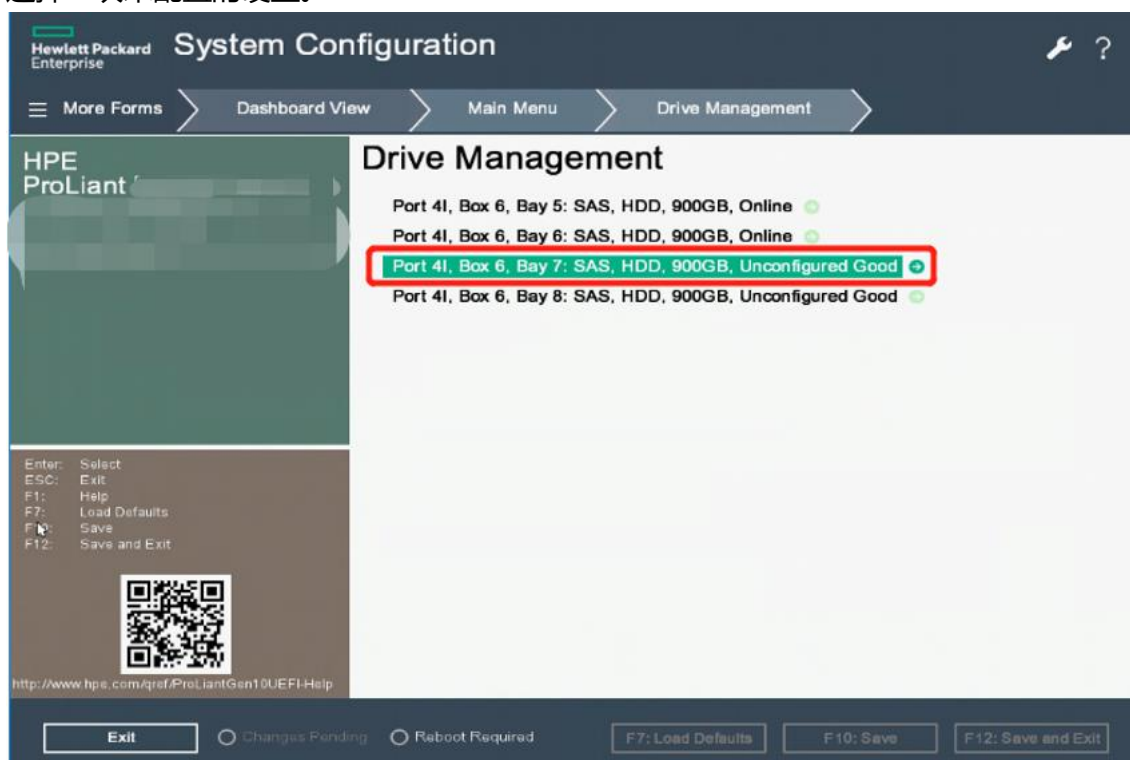
4.1 创建热备

4.1.1 创建专用热备

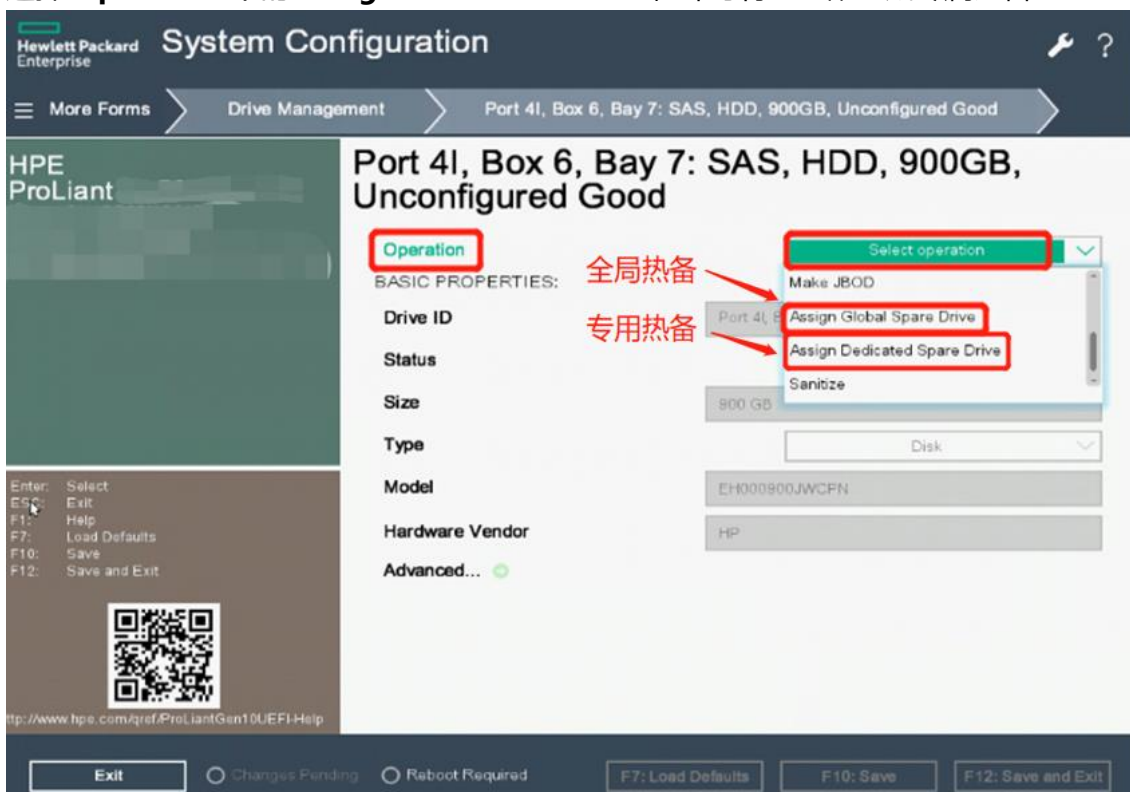
1) 选择 **Drive Management**.



2) 选择一块未配置的硬盘。

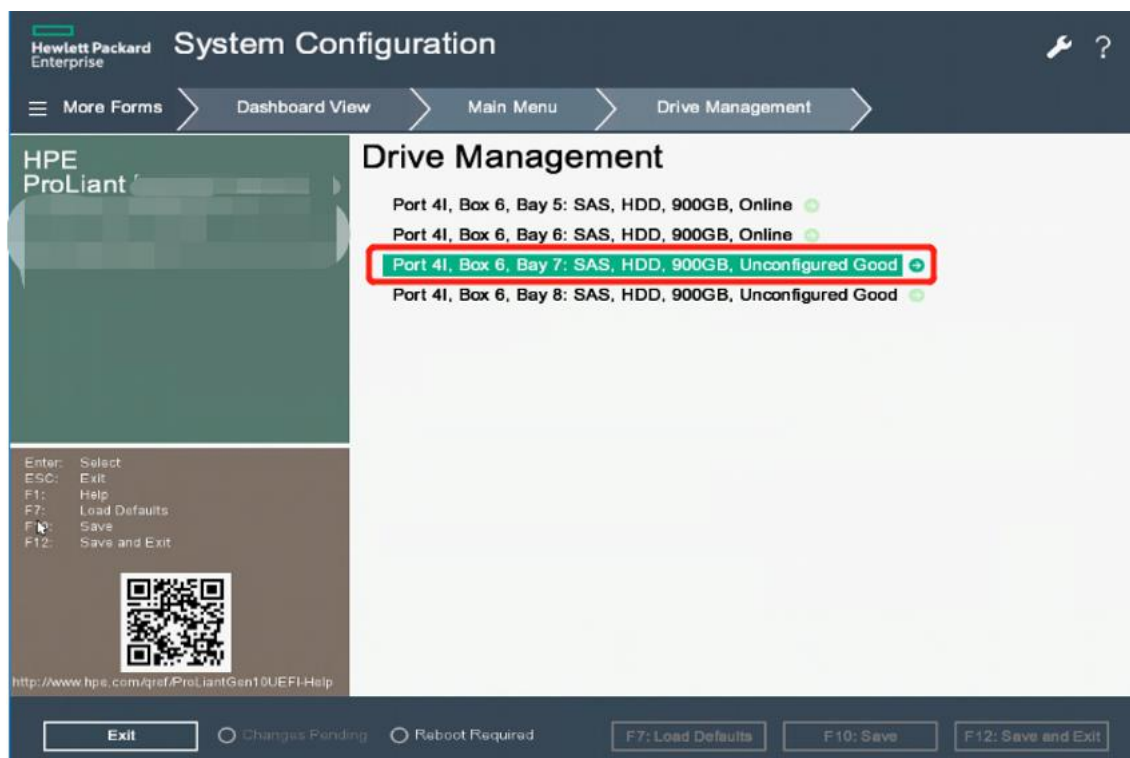


3) 选择 **Operation** 下的 **Assign Dedicated Drive**，即可将此盘配置成专属热备盘。

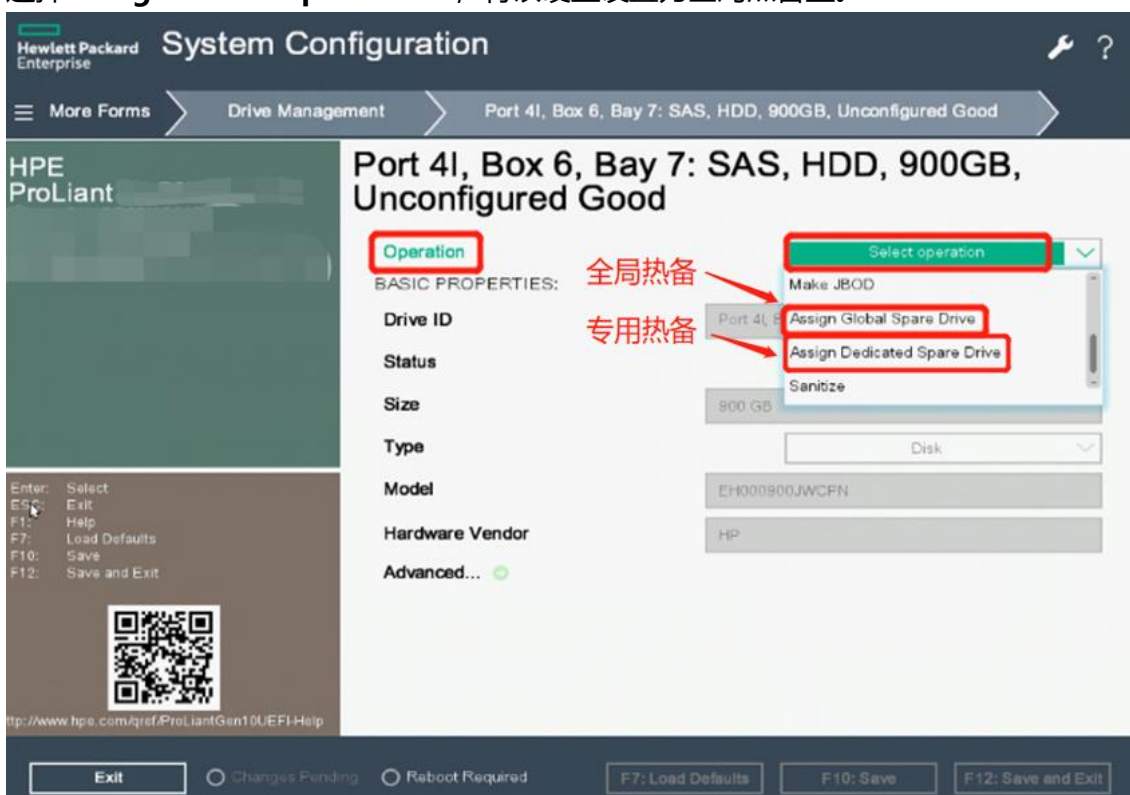


4.1.2 创建全局热备

1) 选择一块未配置的硬盘。

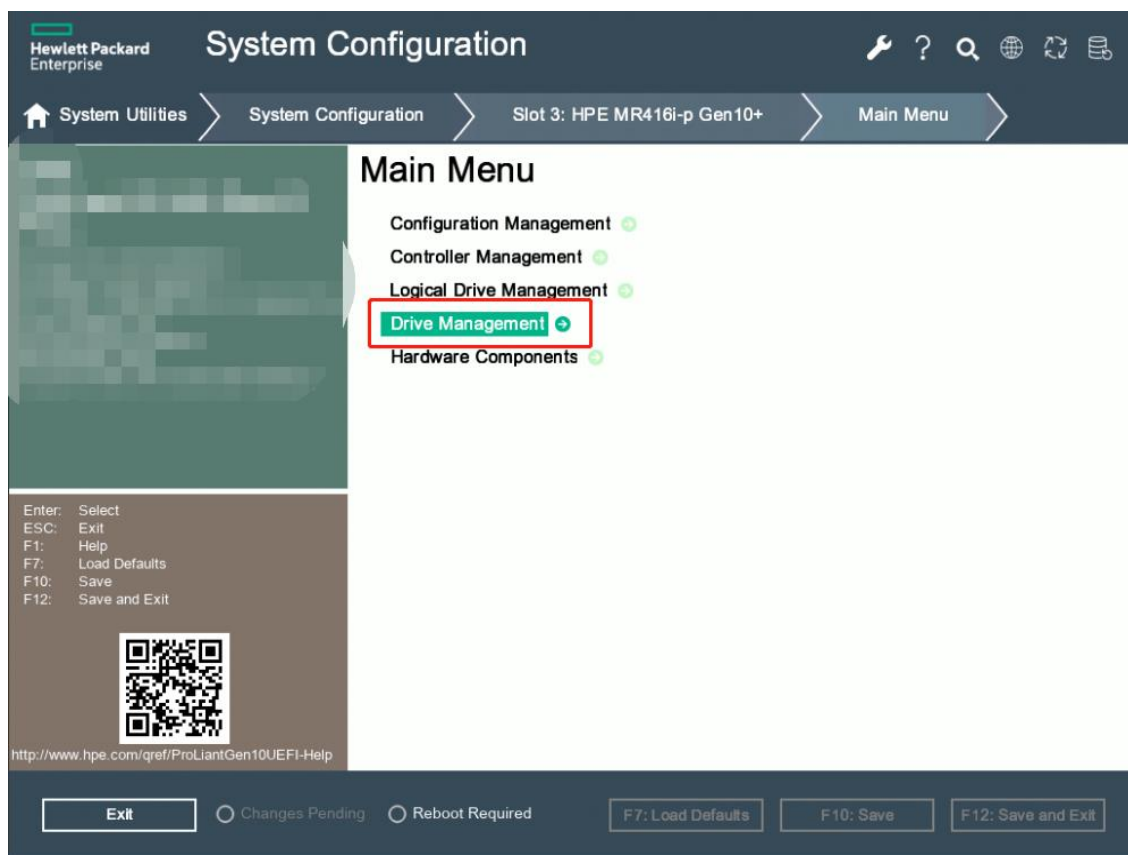


2) 选择 **Assign Global Spare Drive**，将该硬盘设置为全局热备盘。

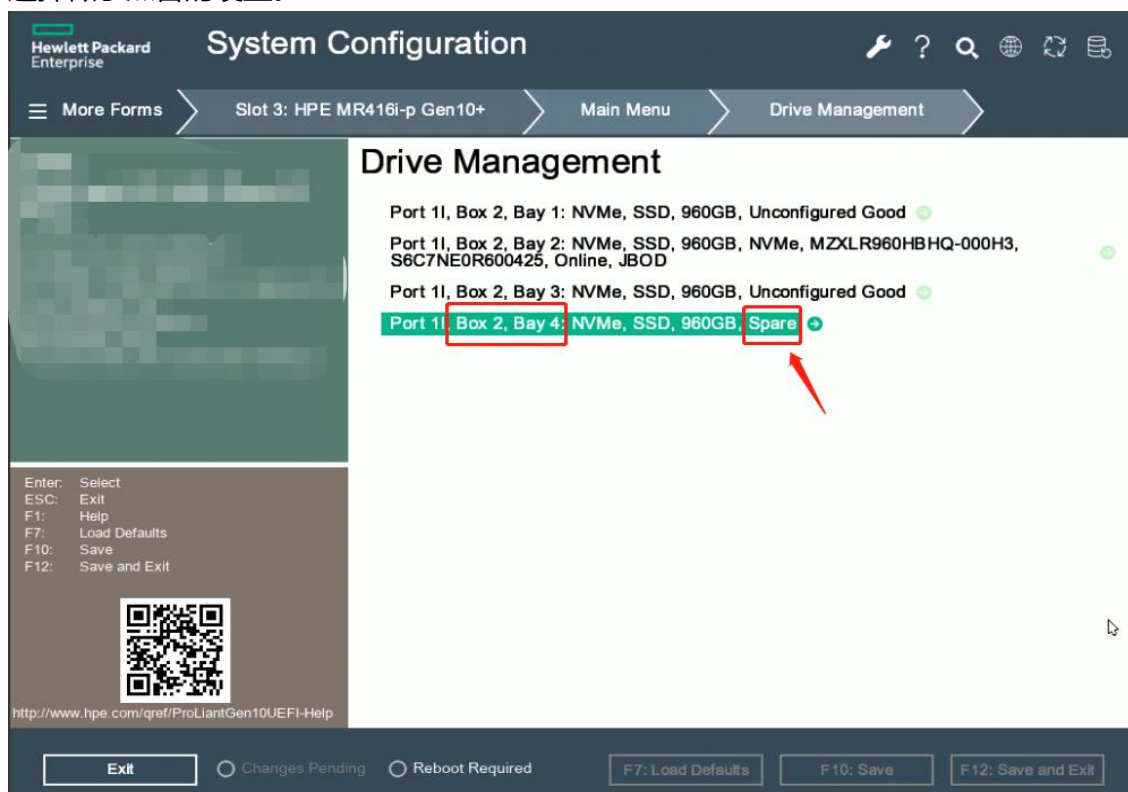


4.2 删除热备

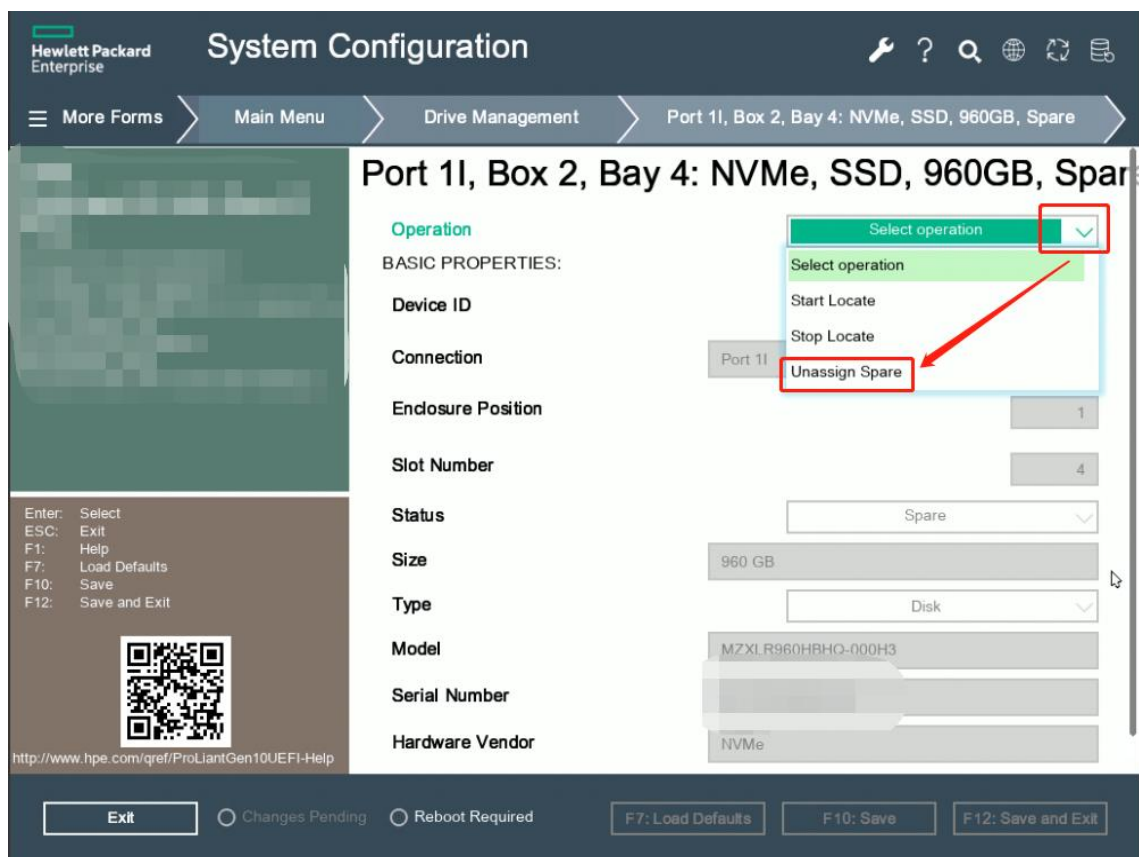
1) 选择 **Drive Management**。



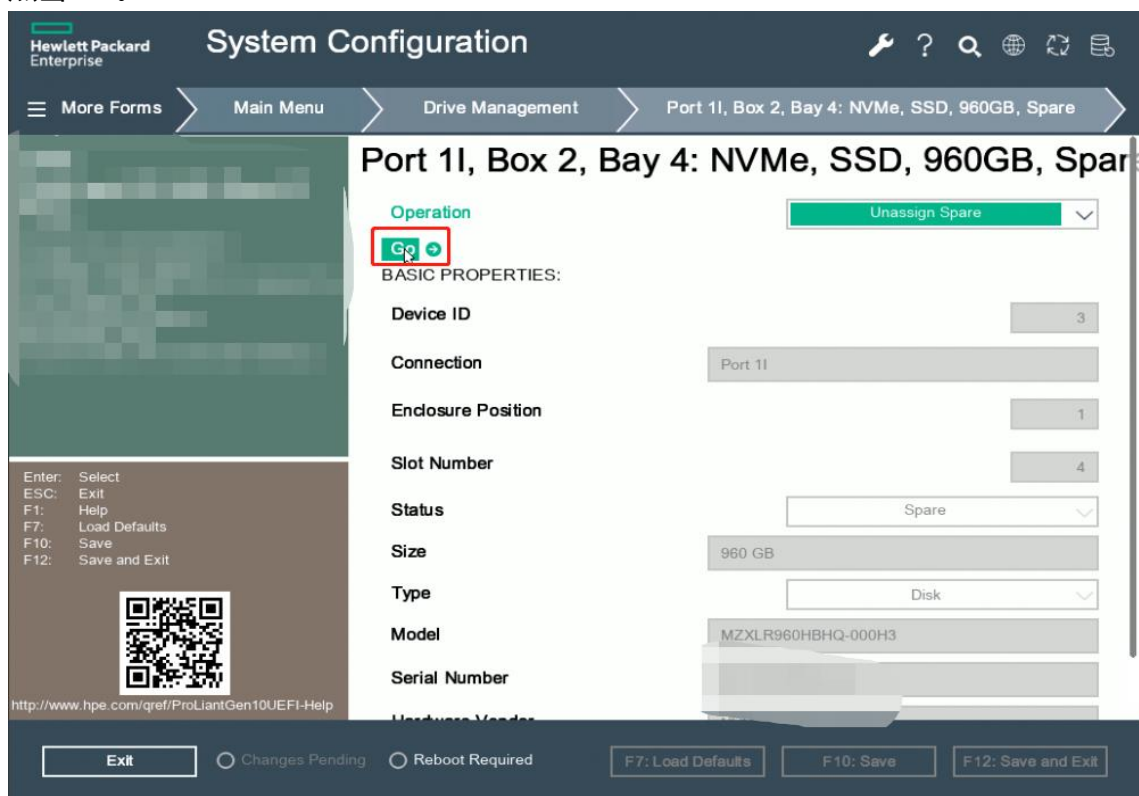
2) 选择做了热备的硬盘。



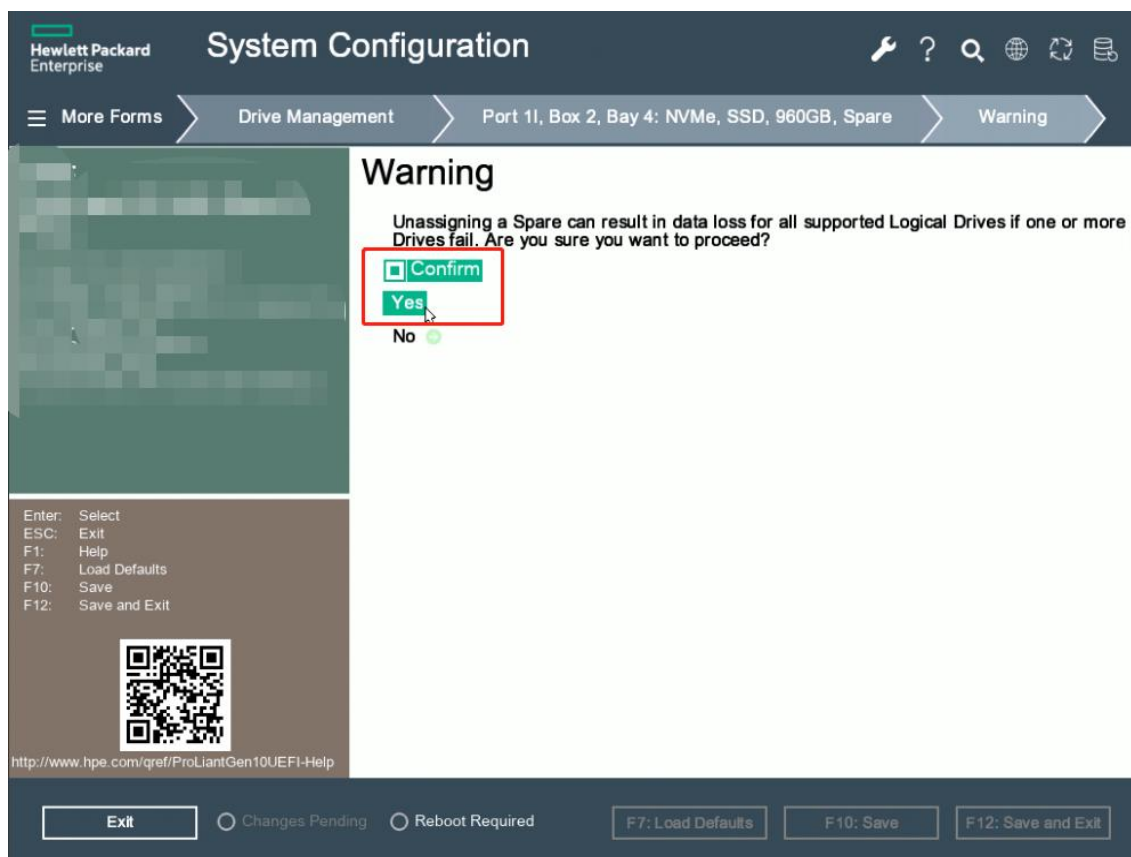
3) 选择 **Operation** 下的 **Unassign Spare** 选项。



4) 点击 **Go**。

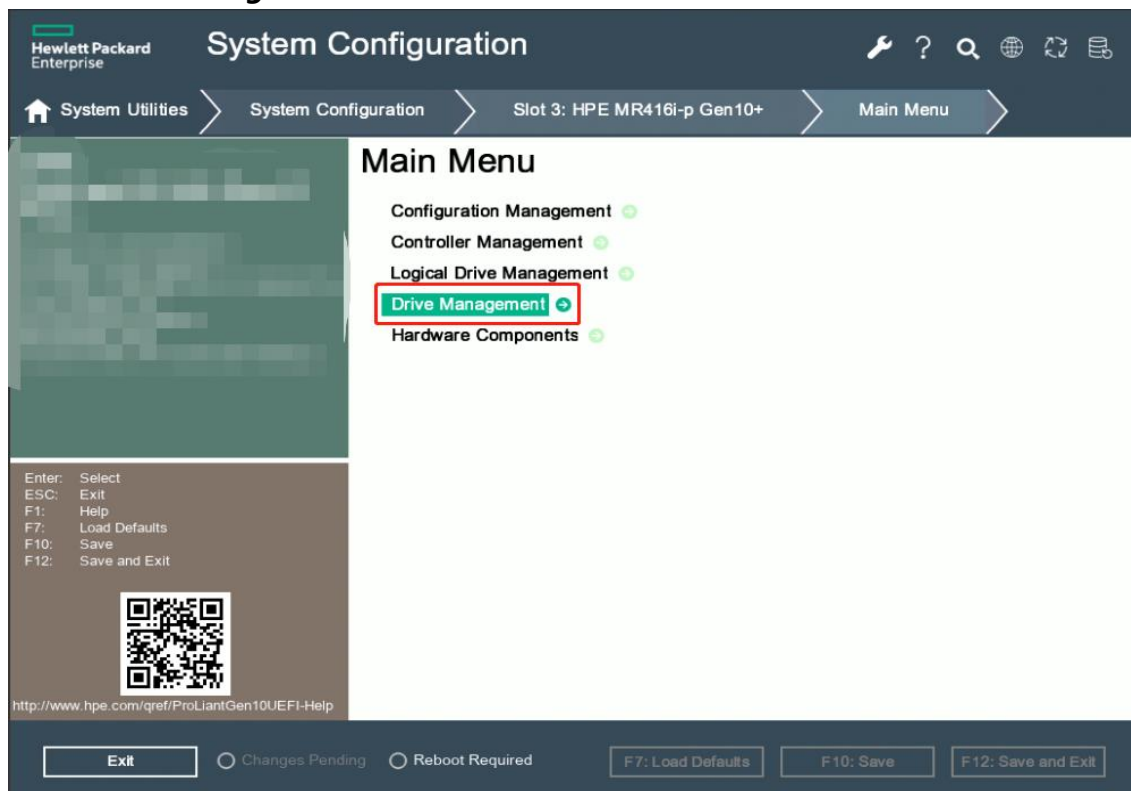


5) 点击 **Confirm**, 选择 **Yes**, 确认取消热备。

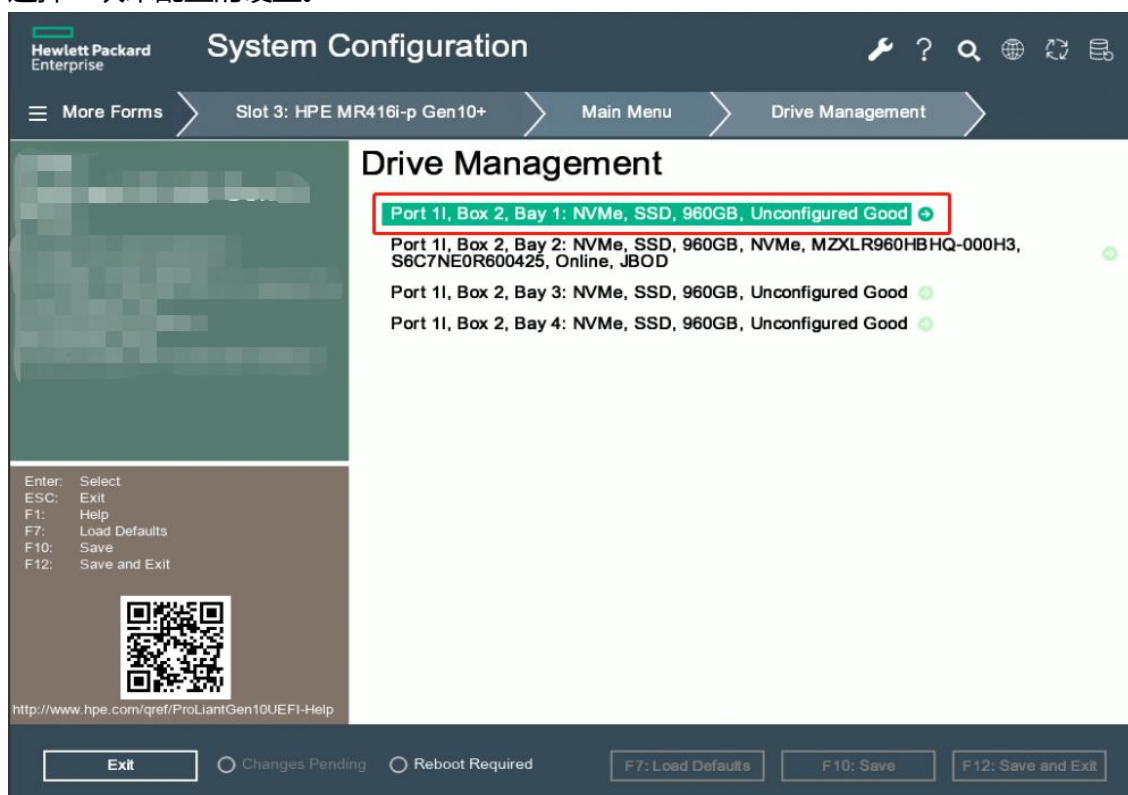


5. 设置与取消直通盘

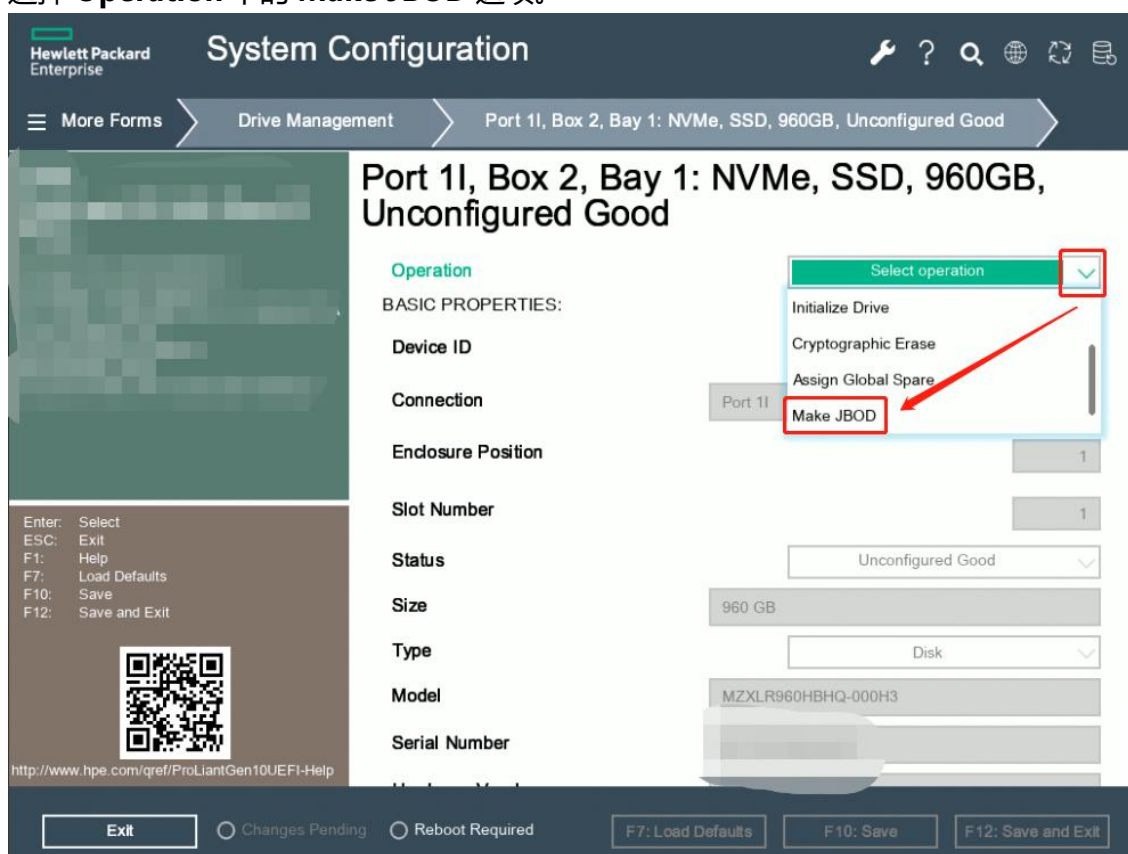
1) 选择 **Drive Management**.



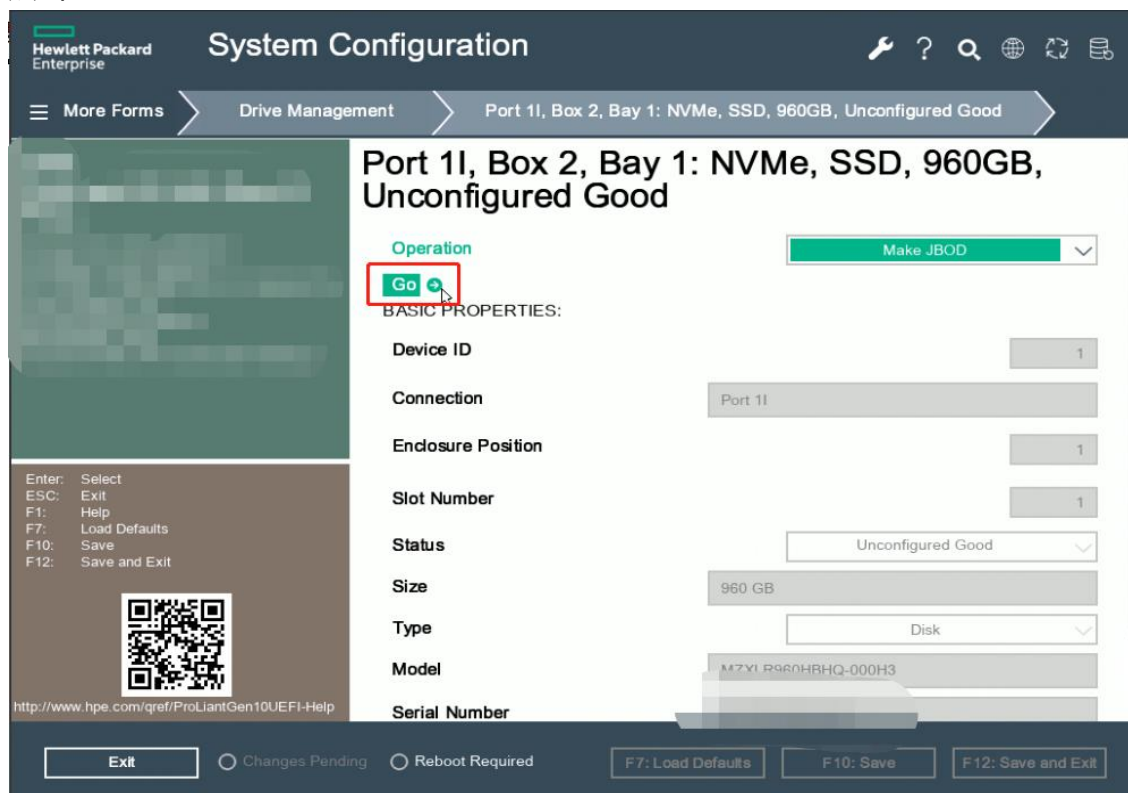
2) 选择一块未配置的硬盘。



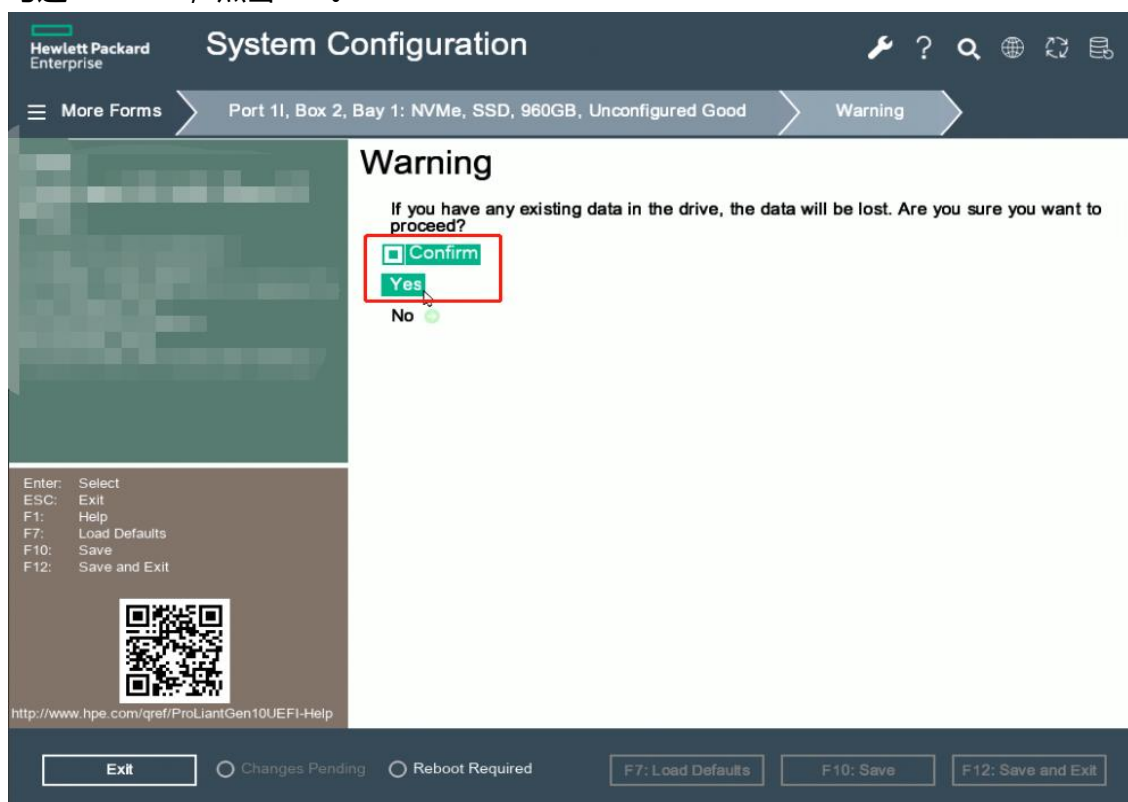
3) 选择 **Operation** 下的 **Make JBOD** 选项。



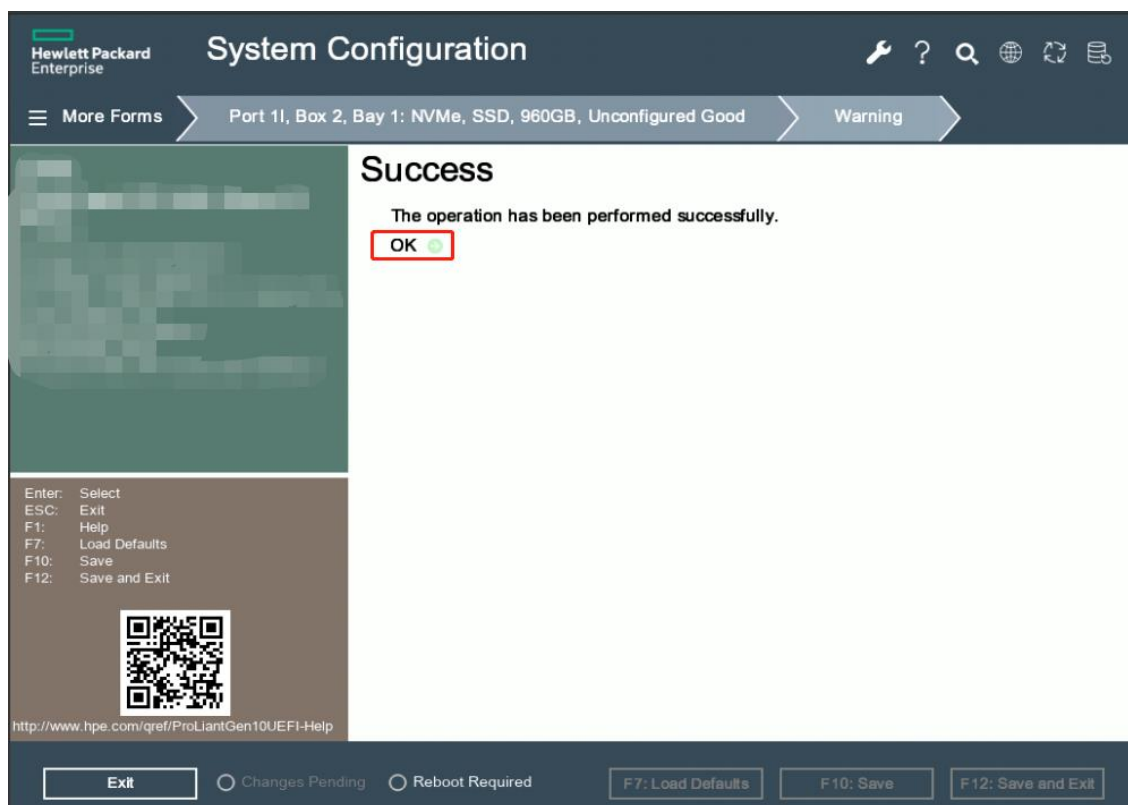
4) 点击 **Go**。



5) 勾选 Confirm, 点击 **Yes**。



6) 点击 **OK**。



7) 可以看到这块硬盘已经成功设置为 JBOD 直通盘模式，取消直通过程同理。

