

HPE Gen11 服务器

SR 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 Gen11 系列服务器 SR 阵列卡在 BIOS 下配置阵列的方法,并以 DL380 Gen11 服务器为例进行配置步骤说明。
SR 系列阵列卡包含如下型号:
 - SR932i-p Gen11
- 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

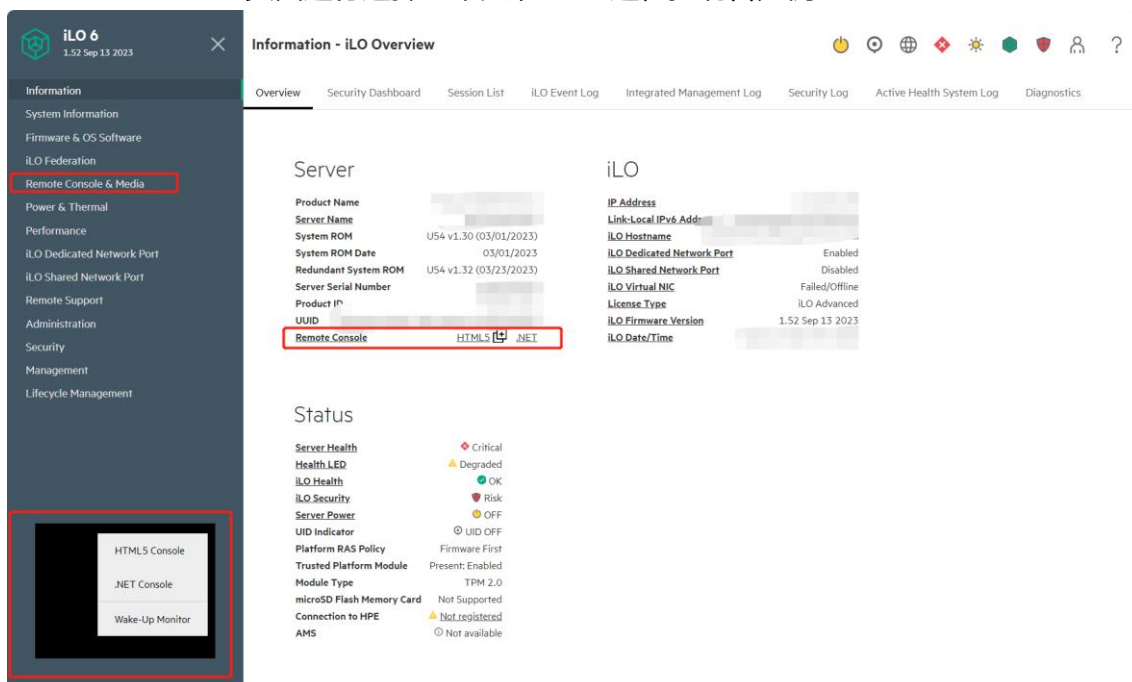
➤ 连接 iLO 与启用远程控制台

具体方法请参考：<https://zhiliao.h3c.com/Theme/details/216337>

三. 配置步骤

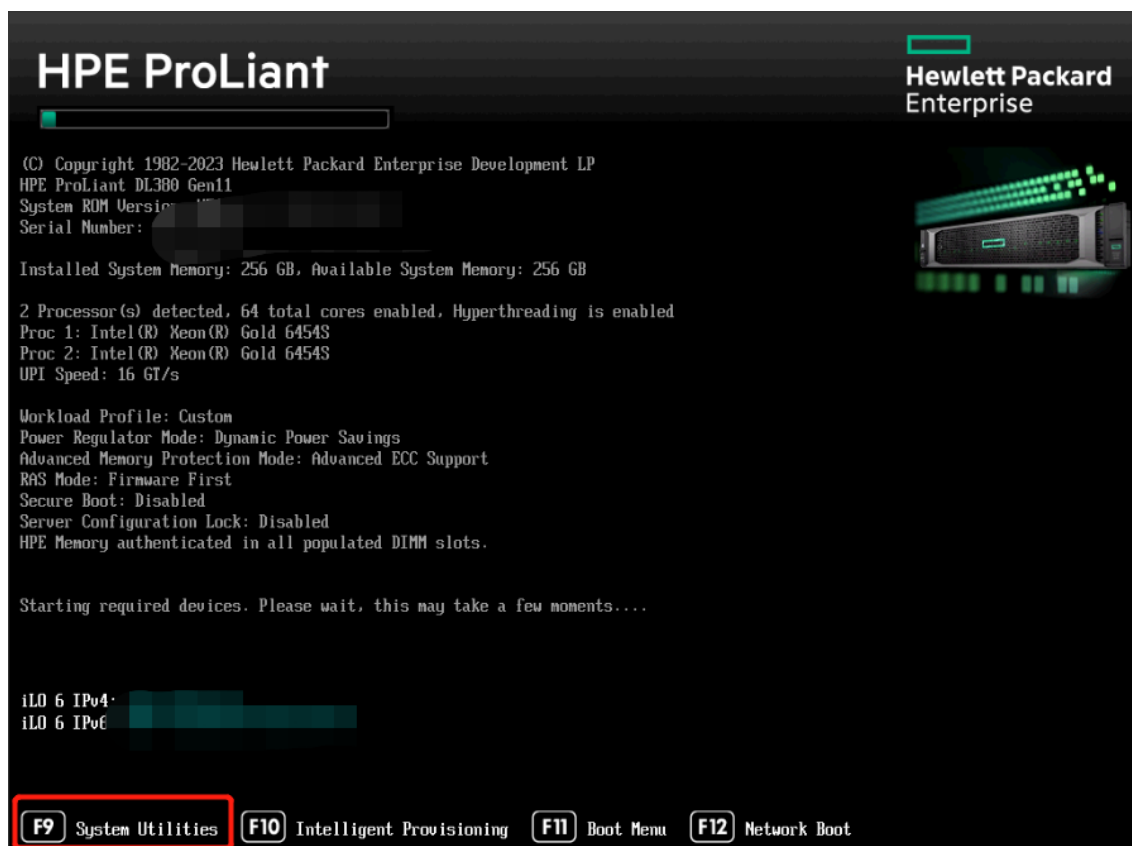
1. 访问 iLO 并启用远程控制台

通过 iLO 6 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。

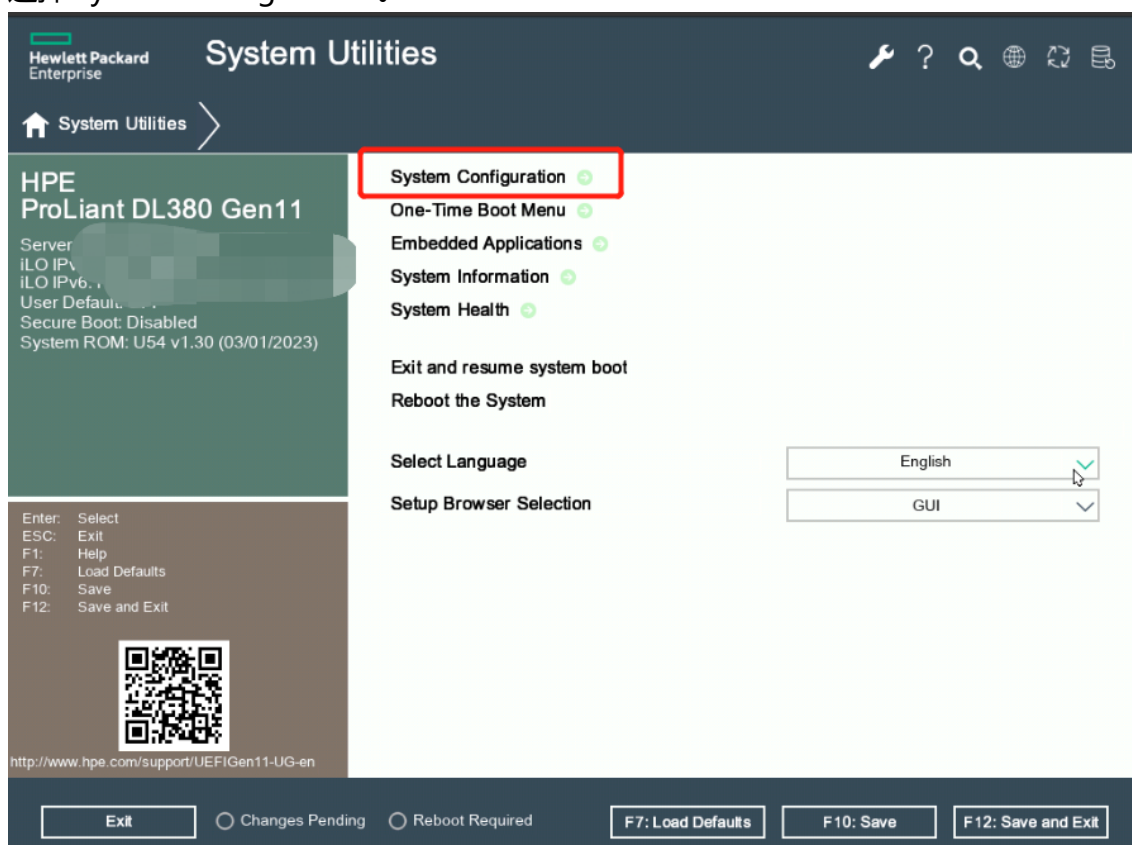


2. 进入 BIOS 并找到阵列卡选项

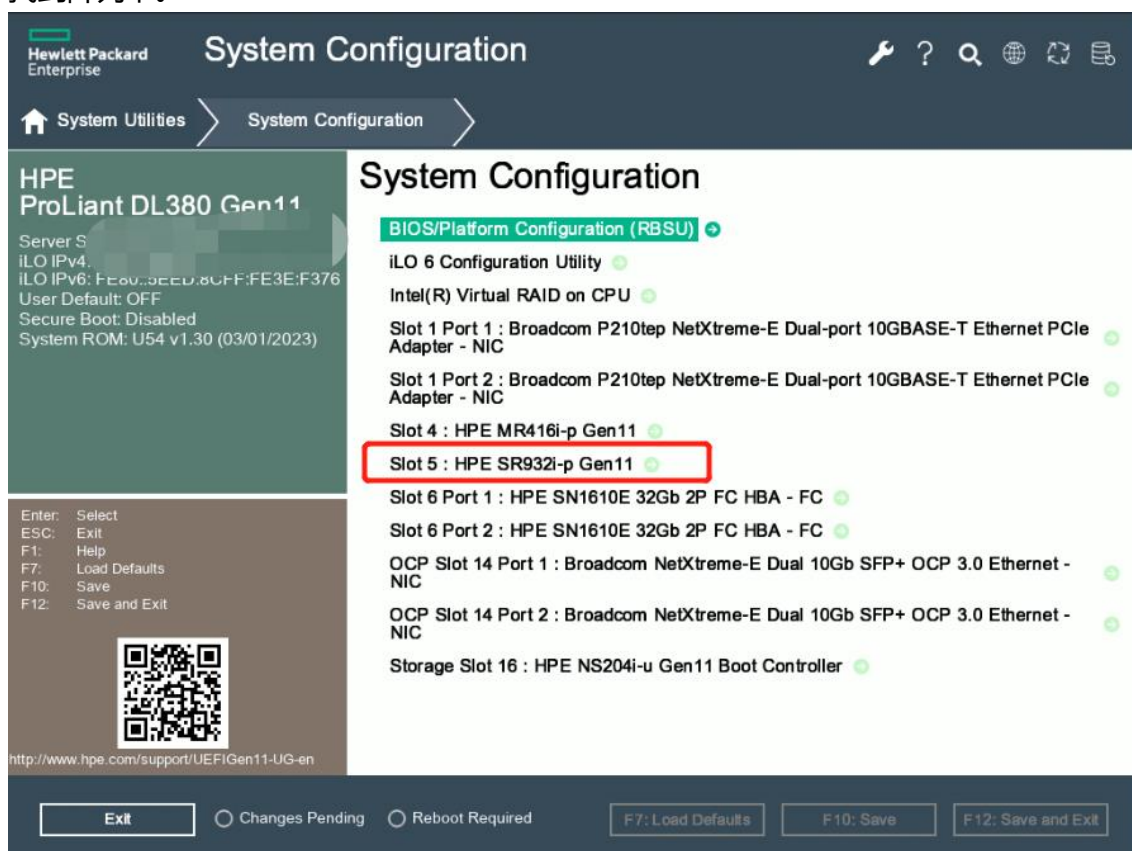
1) 重启服务器，自检界面按 **F9** 进入 BIOS。



2) 选择 System Configuration.



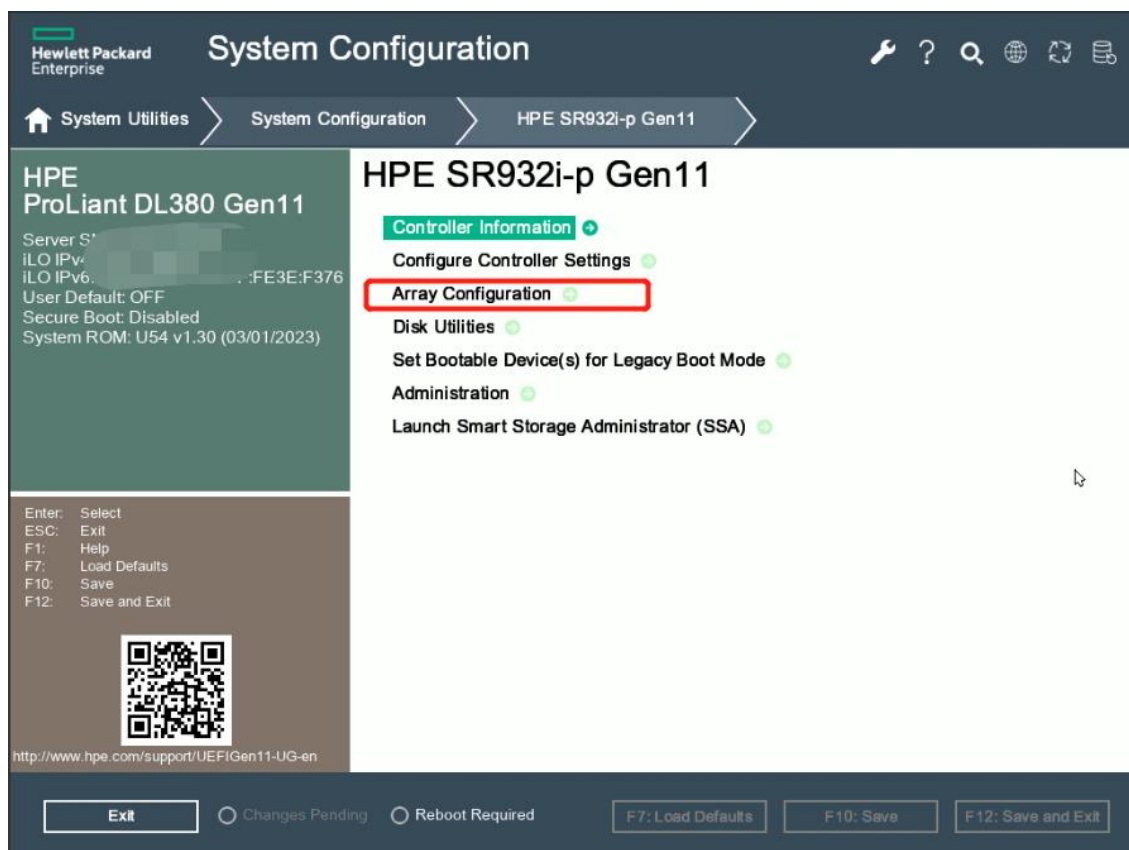
3) 找到阵列卡。



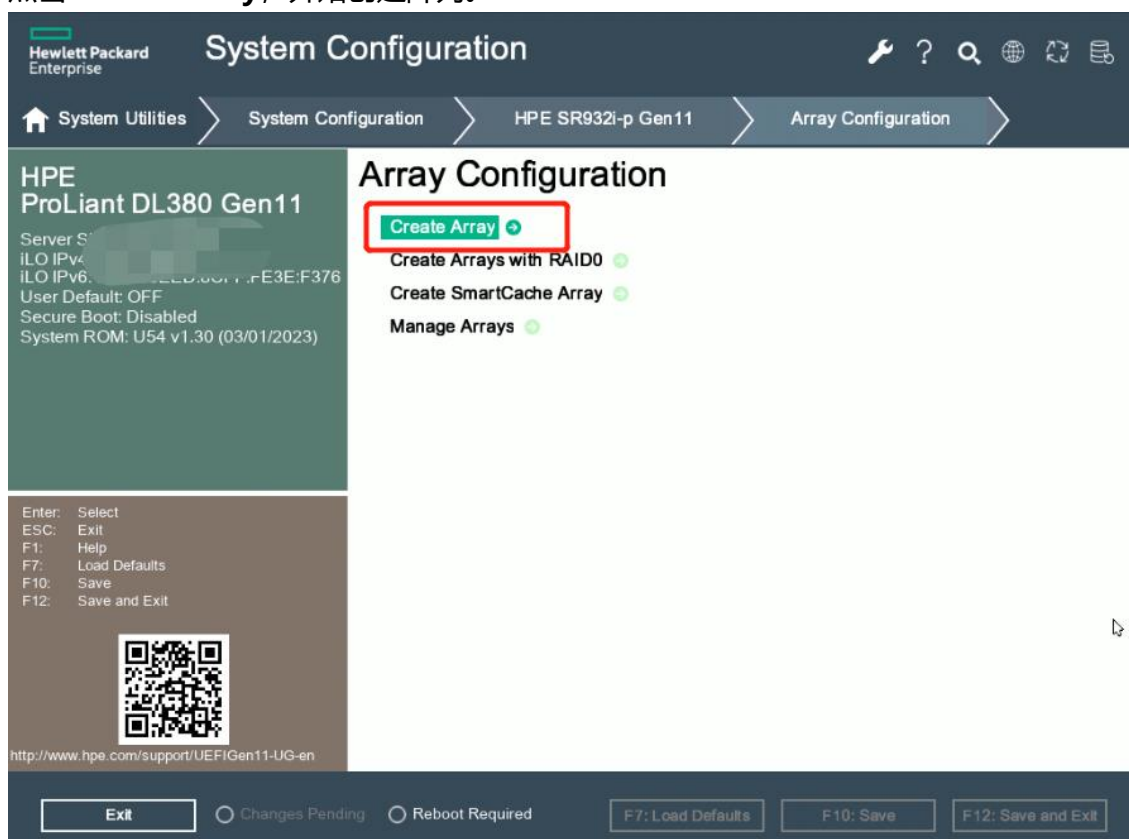
3. 创建与删除阵列

3.1 创建阵列

1) 点击 **Array Configuration**，进入阵列配置界面。



2) 点击 **Create Array**，开始创建阵列。



3) 选中要配置阵列的成员盘，再点击 **Proceed to next Form**。

The screenshot shows the 'System Configuration' utility for an HPE SR932i-p Gen11 server. The 'Create Array' section is active, displaying a list of available disks. The first disk, 'Port:1 Box:3 Bay:2 Size:1.92 TB NVMe-SSD NVME VO001920KYDMT', is selected and highlighted with a red box. A red arrow points from this selection to the '[Proceed to next Form]' button at the bottom of the list. The left sidebar shows server details for the HPE ProLiant DL380 Gen11, including ILO IP, User Default, Secure Boot, and System ROM. The bottom of the screen features a navigation bar with buttons for 'Exit', 'Changes Pending', 'Reboot Required', 'F7: Load Defaults', 'F10: Save', and 'F12: Save and Exit'.

4) 选择 RAID 级别，再点击 **Proceed to next Form**。

Hewlett Packard Enterprise System Configuration

More Forms > HPE SR932i-p Gen11 > Array Configuration > Create Array > Set RAID Level

HPE ProLiant DL380 Gen11

Server S/N: [REDACTED]
 iLO IPv4: [REDACTED]
 iLO IPv6: [REDACTED]
 User Default: OFF
 Secure Boot: Disabled
 System ROM: U54 v1.30 (03/01/2023)

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

<http://www.hpe.com/support/UEFI/Gen11-UG-en>

Set RAID Level

RAID Level: RAID0

[Proceed to next Form]

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

- 5) 设置逻辑卷名称、条带化大小和容量等信息（若无特殊需求，默认即可），点击 **Submit Changes**。

Hewlett Packard Enterprise System Configuration

More Forms > Create Array > Set RAID Level > Set Logical Drive Configuration

HPE ProLiant DL380 Gen11

Server S...
iLO IPv...
iLO IPv6...:FE3E:F376
User Default: OFF
Secure Boot: Disabled
System ROM: U54 v1.30 (03/01/2023)

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

<http://www.hpe.com/support/UEFI/Gen11-UG-en>

Set Logical Drive Configuration

Logical Drive Label: Logical Drive 2

Strip Size / Full Stripe Size: 128 KiB / 128 KiB

Size: 1.746

Unit Size: TiB

Acceleration Method: HPE SSD Smart Path

[Submit Changes]

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

6) 选择 Array Configuration 下的 Manage Arrays 选项，即可看到已创建的阵列。

Hewlett Packard Enterprise System Configuration

System Utilities > System Configuration > HPE SR932i-p Gen11 > Array Configuration

HPE ProLiant DL380 Gen11

Server S...
iLO IPv...
iLO IPv6...:FE3E:F376
User Default: OFF
Secure Boot: Disabled
System ROM: U54 v1.30 (03/01/2023)

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

<http://www.hpe.com/support/UEFI/Gen11-UG-en>

Array Configuration

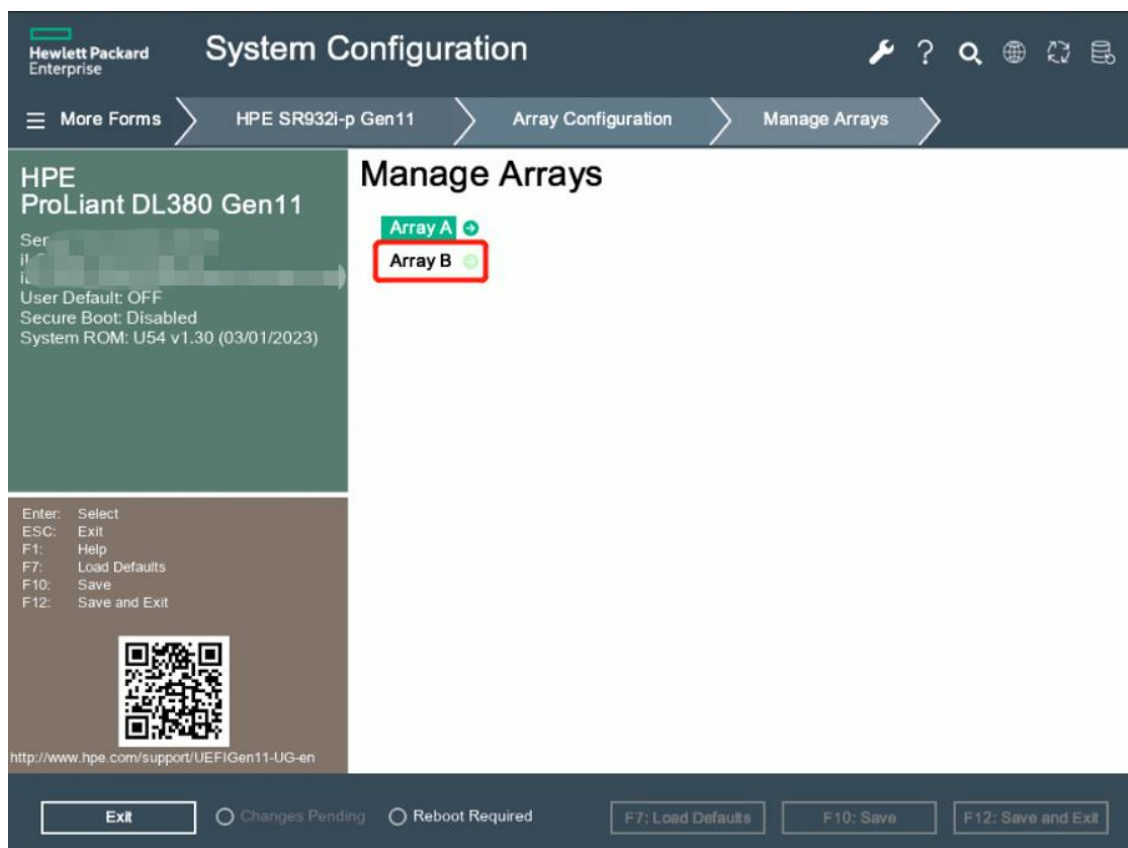
Create Array +

Create Arrays with RAID0

Create SmartCache Array

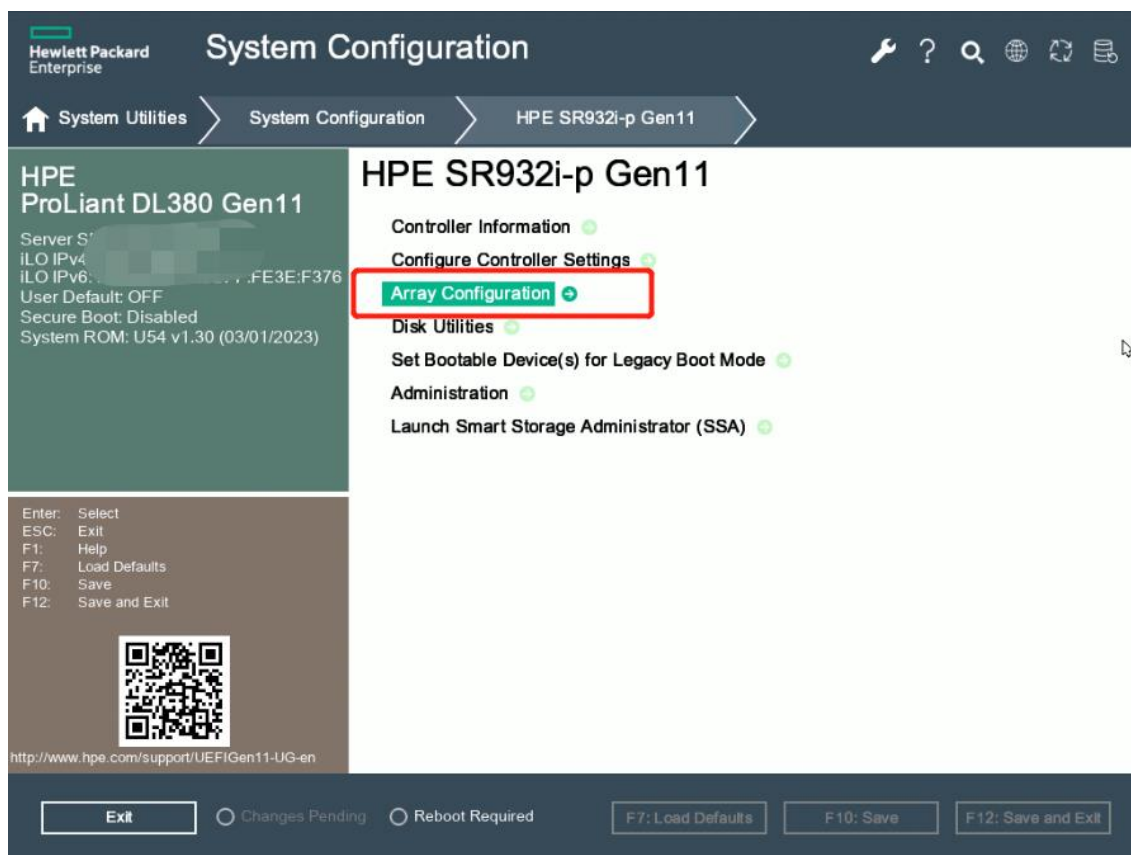
Manage Arrays

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

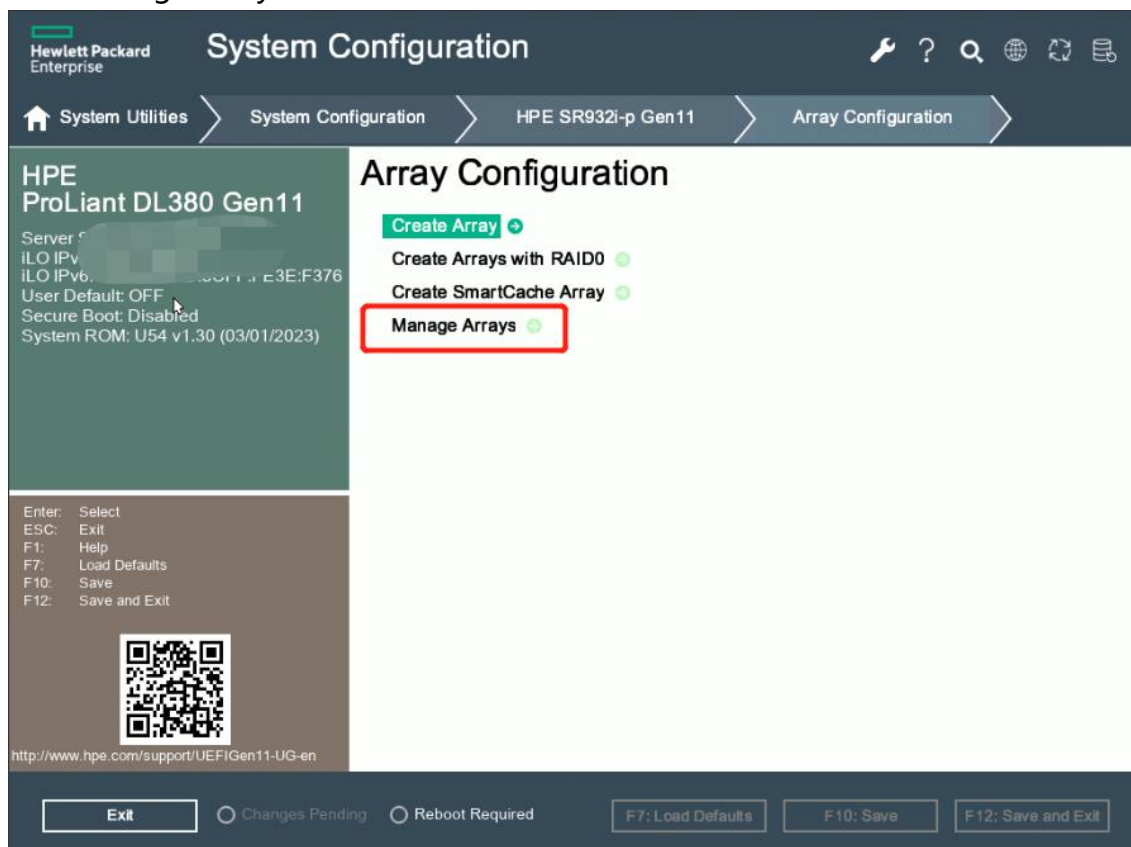


3.2 删除阵列

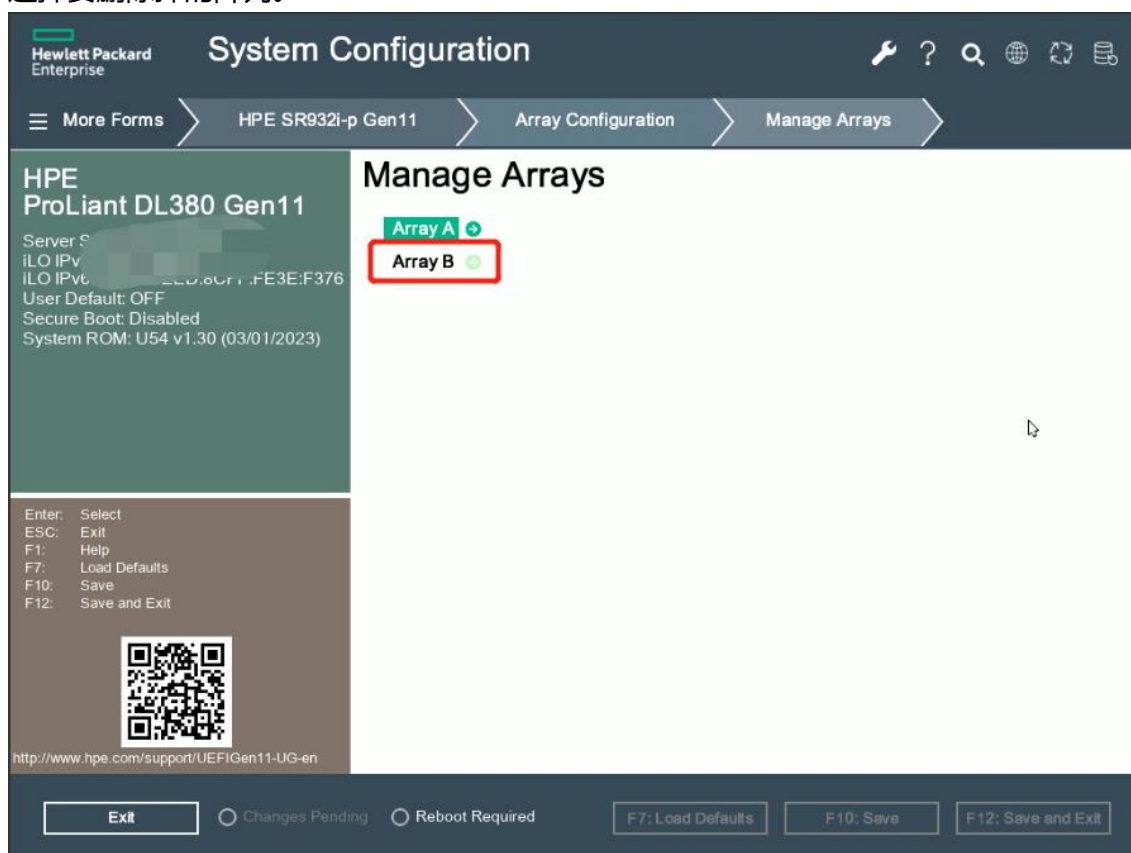
- 1) 选择 Array Configuration。



2) 选择 Manage Arrays.



3) 选择要删除掉的阵列。



4) 点击 **Delete Array** 删除已有阵列。

Hewlett Packard Enterprise

System Configuration

More Forms

HPE SR932i-p Gen11

Array Configuration

Manage Arrays

Array B

HPE ProLiant DL380 Gen11

Server S
iLO IPv
iLO IPv6: .F:FE3E:F376
User Default: OFF
Secure Boot: Disabled
System ROM: U54 v1.30 (03/01/2023)

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



<http://www.hpe.com/support/UEFI/Gen11-UG-en>

Array B

Array Type	Data
ID	1
Interface Type	NVMe-SSD
Total Space	1.746 TiB(1.92 TB)
Unused Space	NA(NA)
Used Space	1.746 TiB(1.92 TB)
Block Size	512 Bytes
Array Status	Ok
SSD I/O Bypass	Enabled
Member Logical Drive(s)	1
Member Physical Drive(s)	1

List Logical Drives +

Create Logical Drive

HPE SSD Smart Path Settings

Manage Spare Drives

Manage Data Drives

Identify Device

Delete Array

Exit

Changes Pending

Reboot Required

F7: Load Defaults

F10: Save

F12: Save and Exit

Hewlett Packard Enterprise

System Configuration

More Forms

Array Configuration

Manage Arrays

Array B

Delete Array

HPE ProLiant DL380 Gen11

Server S
iLO IPv4
iLO IPv6: .FE3E:F376
User Default: OFF
Secure Boot: Disabled
System ROM: U54 v1.30 (03/01/2023)

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



<http://www.hpe.com/support/UEFI/Gen11-UG-en>

Delete Array

Deletes an Array. All the data on the logical drives that are part of deleted array will be lost. Also if the deleted array is the only one on the controller, the controller settings will be erased and its default configuration is restored.

[Submit Changes] +

Exit

Changes Pending

Reboot Required

F7: Load Defaults

F10: Save

F12: Save and Exit

4. 创建与删除热备

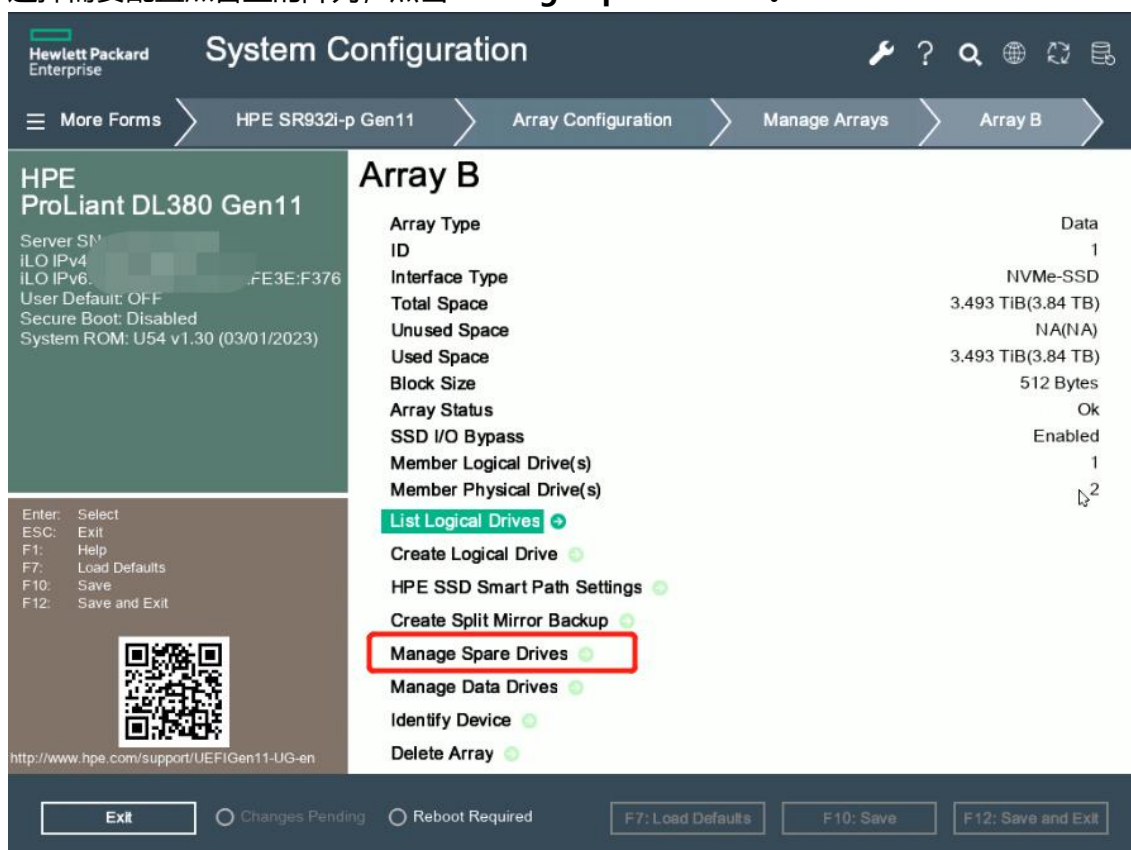
Dedicated (专用): 在更换发生故障的数据驱动器时，必须使用备用驱动器上的数据进行重建。在专用模式下，一个备用驱动器可以专用于多个阵列。

Auto-Replace Drives (自动更换驱动器): 发生故障的数据驱动器的备用驱动器自动变为更换数据驱动器。当更换备用驱动器时，数据驱动器不需要重建。在自动更换模式下，备用驱动器无法在阵列之间共享。

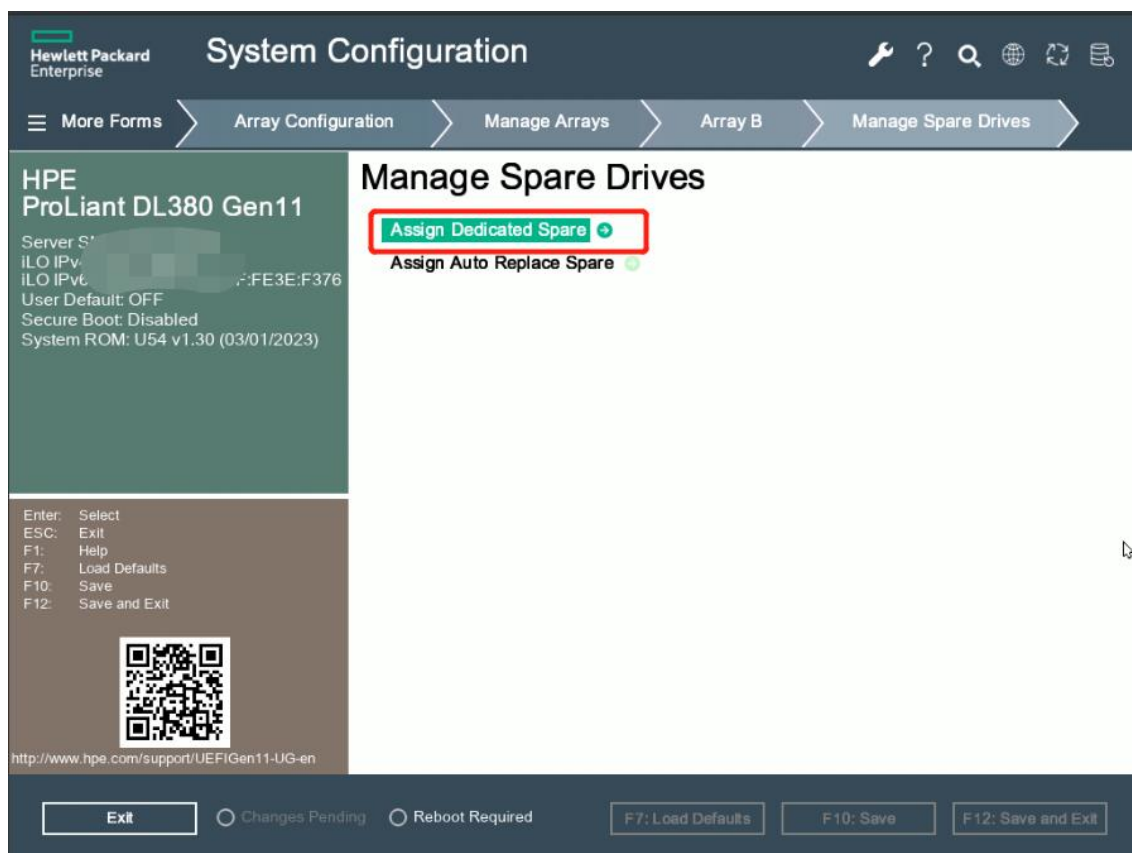
4.1 创建热备

4.1.1 创建专用热备

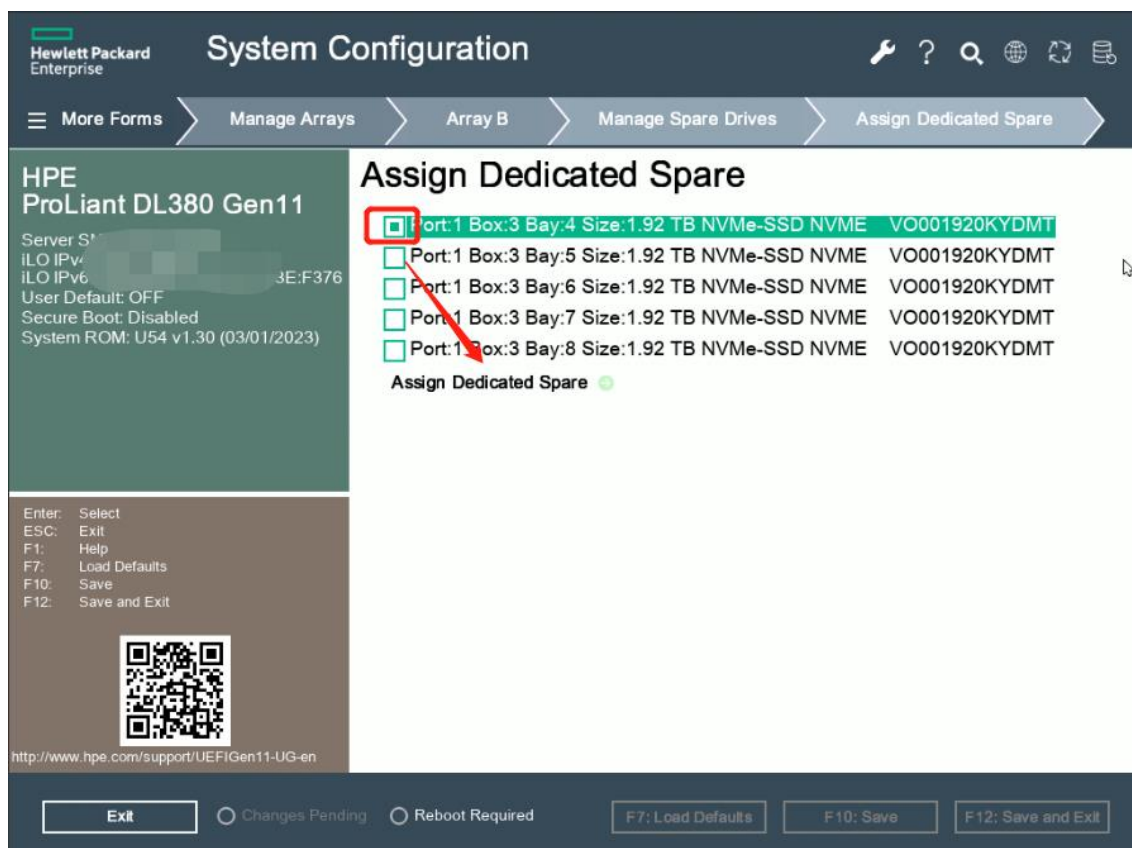
- 1) 选择需要配置热备盘的阵列，点击 **Manage Spare Drives**。



- 2) 选择 **Assign Dedicated Spare** 创建专用热备。

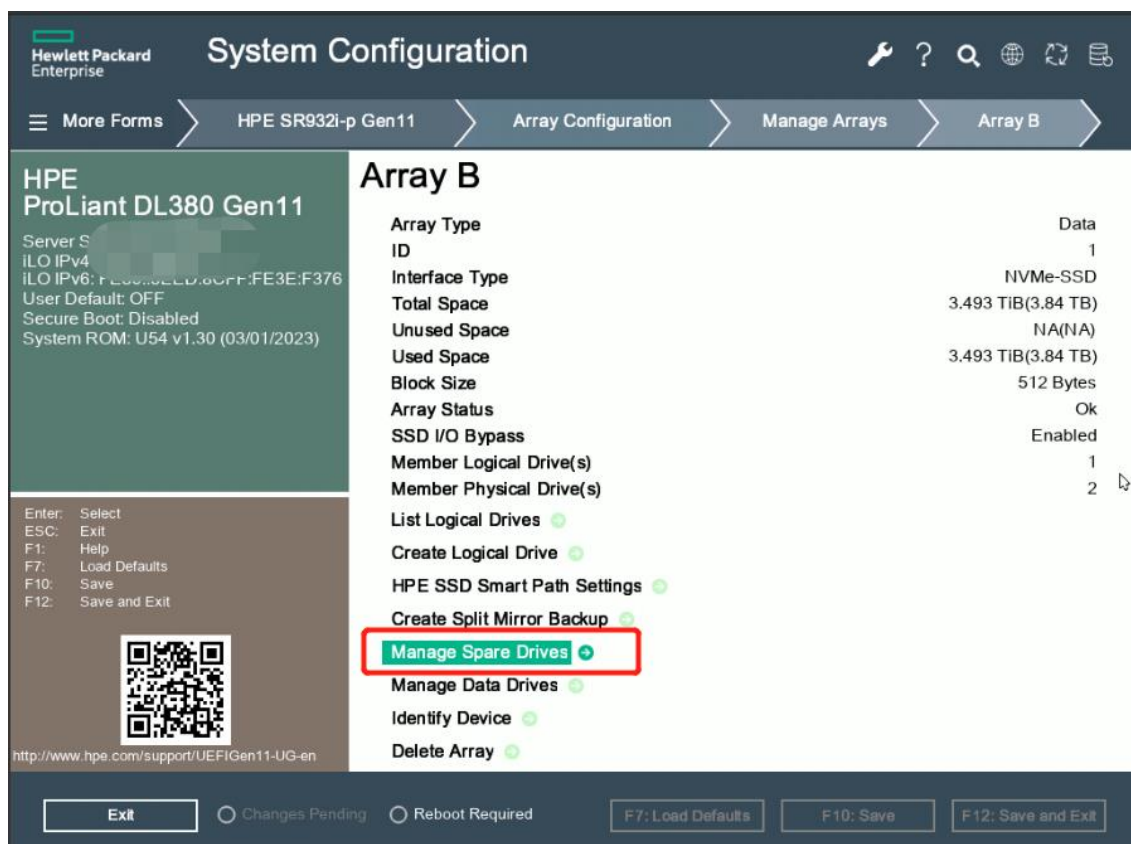


- 3) 选择需要配置成热备盘的物理硬盘，点击 **Assign Dedicated Spare** 完成热备盘配置。

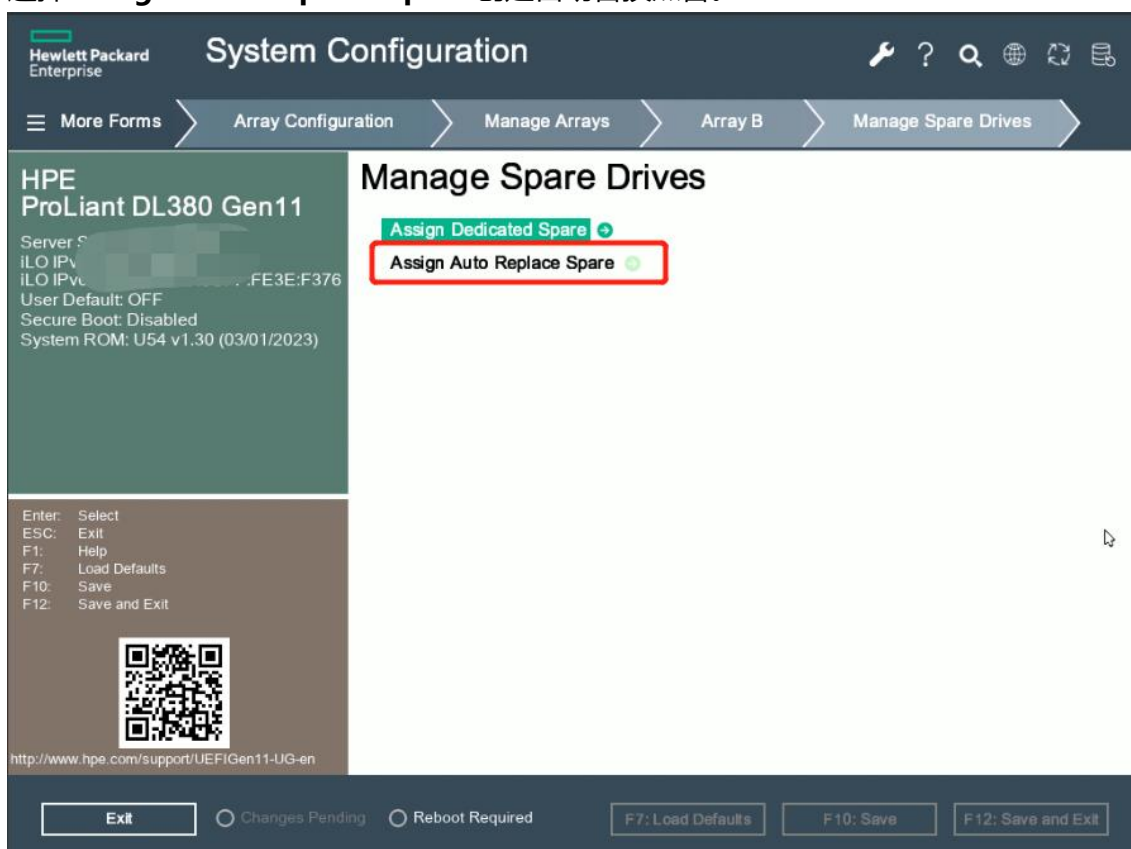


4.1.2 创建自动替换热备

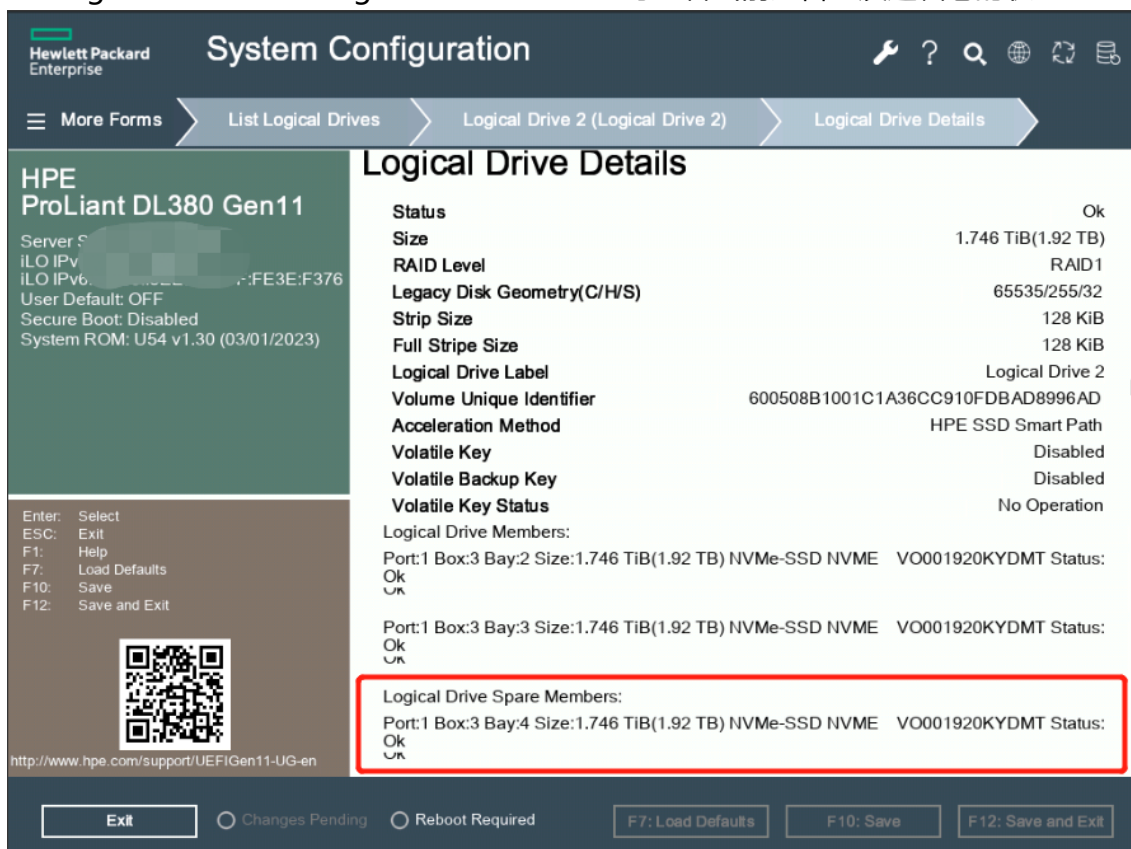
- 1) 选择需要配置热备盘的阵列，点击 **Manage Spare Drives**。



2) 选择 **Assign Auto Replace Spare** 创建自动替换热备。

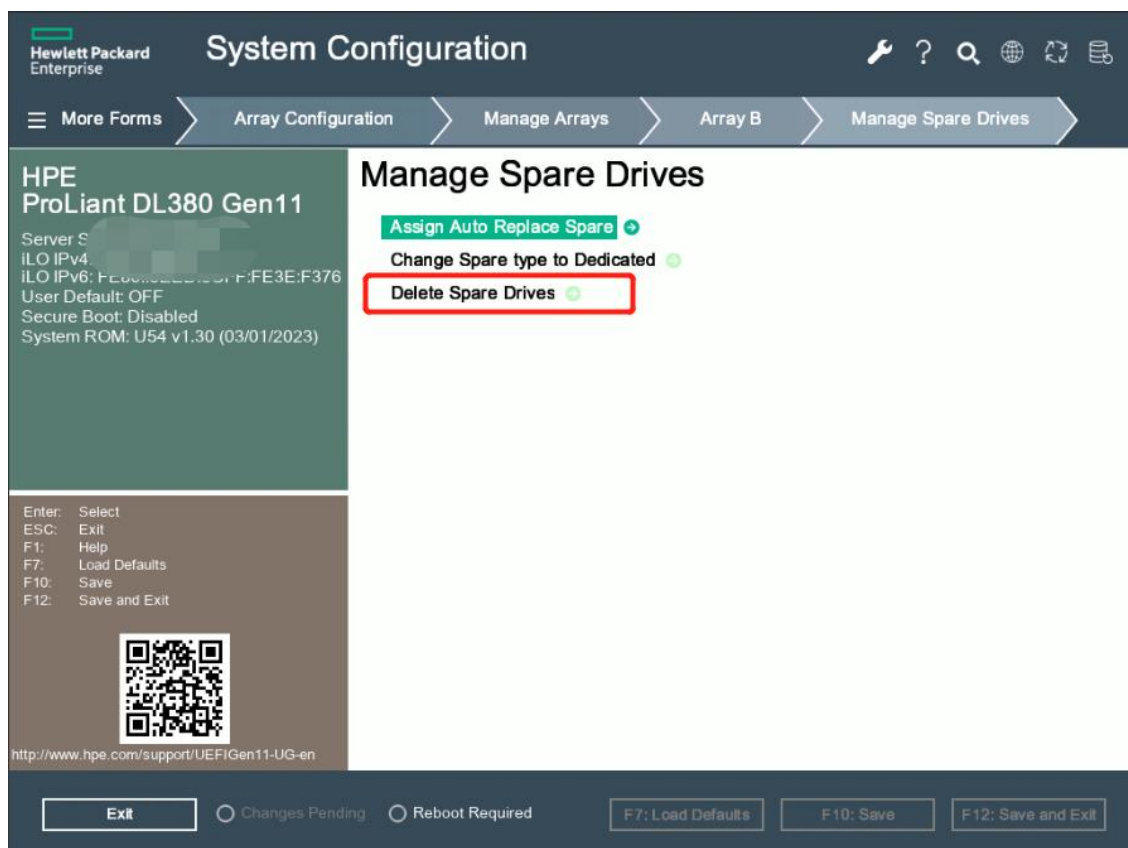


- 3) 选择 Array Configuration -> Manage Arrays -> 已有阵列 -> List Logical Drives
-> Logical Drive 1 -> Logical Drive Details 可查看当前热备盘及逻辑卷的状态。



4.2 删除热备

- 1) 选择 Array Configuration -> Manage Arrays -> 已有阵列 -> Manage Spare Drives -> Delete Spare Drives。



2) 选中对应的热备盘，点击 **Delete Spare Drives** 即可删除。

