

# HPE Gen8 服务器 Windows 系统下 SSAGUI 配置阵列

## 目录

一. 适用范围与注意事项 .....	1
二. 配置准备 .....	2
1. 下载 Smart Storage Administrator 工具 .....	2
2. 连接 iLO 与启用远程控制台 .....	2
三. 配置步骤 .....	2
1. 访问系统 .....	2
1.1 通过 iLO 启用远程控制台访问系统 .....	2
1.2 通过远程桌面或第三方 RDP 工具访问系统 .....	2
2. 将 Smart Storage Administrator 工具保存到系统下 .....	3
2.1 通过 iLO 远程控制台将工具挂载到系统下 .....	3
2.2 通过 U 盘将工具挂载到系统下 .....	3
3. 安装并启用 Smart Storage Administrator .....	3
4. 创建与删除阵列 .....	4
4.1 创建阵列 .....	4
4.2 删除阵列 .....	7
5. 创建与删除热备 .....	8
5.1 创建热备 .....	10
5.2 删除热备 .....	12

## 一. 适用范围与注意事项

- 本文档旨在说明 HPE Gen8 系列服务器 Smart Array 系列阵列卡 Windows 系统下使用 Smart Storage Administrator 工具配置阵列的方法, 并以 DL380p Gen8 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

### 1. 下载 Smart Storage Administrator 工具

下载链接:

[适用于 Windows 64 位的 HPE 智能存储管理员 \(HPE SSA\) | HPE Support](#)

### 2. 连接 iLO 与启用远程控制台

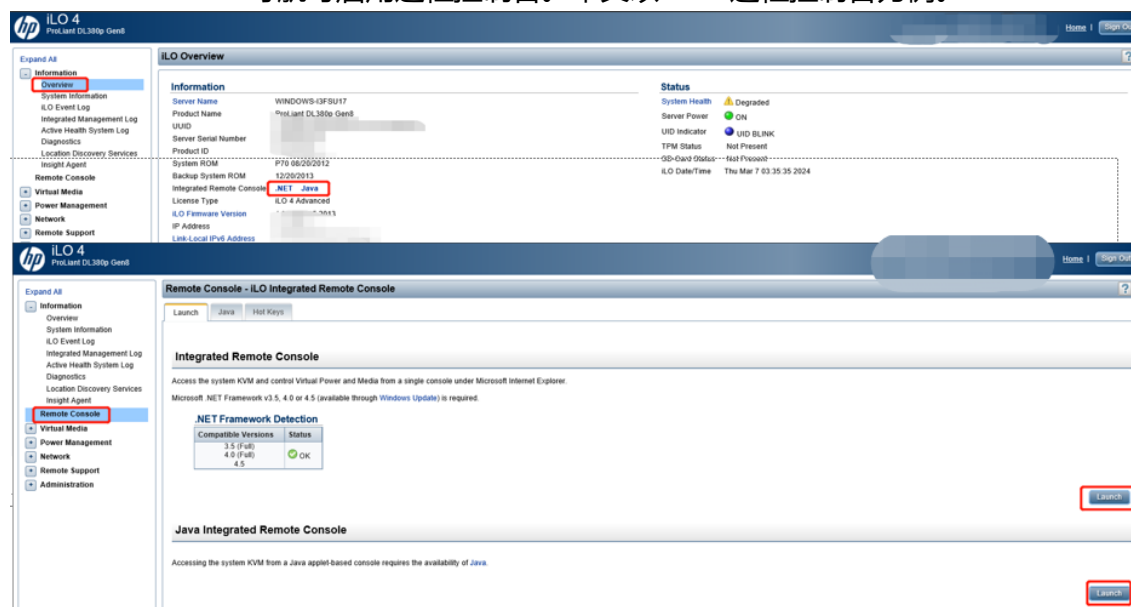
具体方法请参考: <https://zhiliao.h3c.com/Theme/details/216337>

## 三. 配置步骤

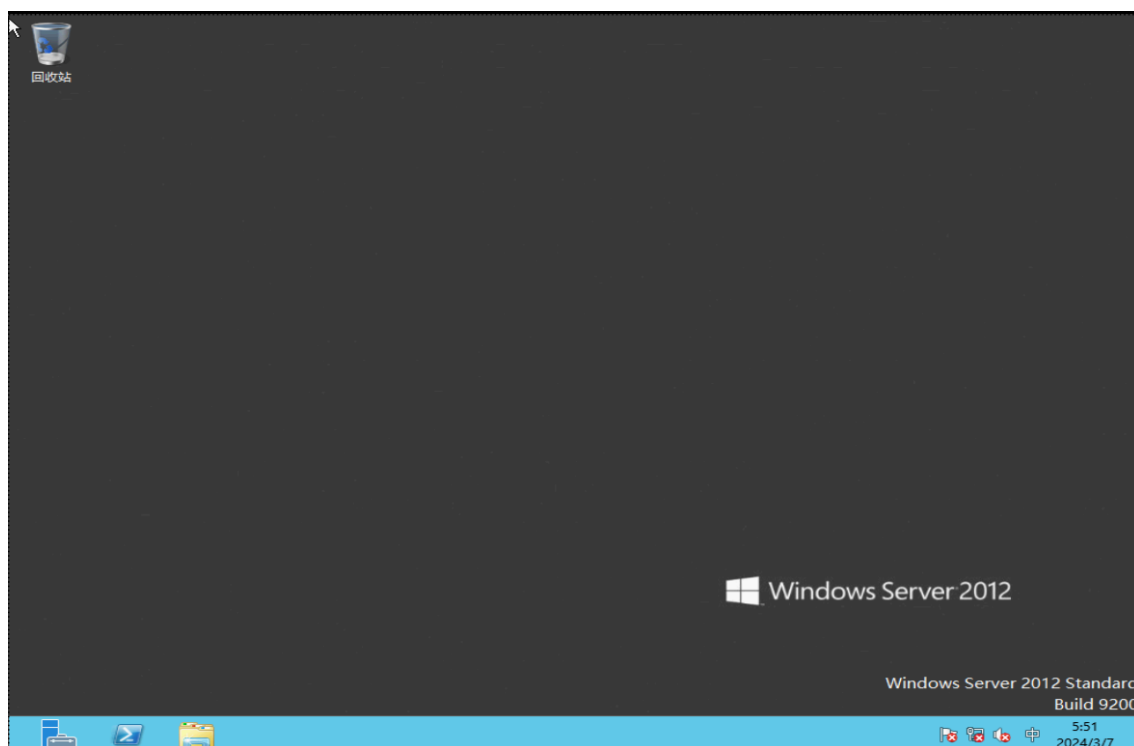
### 1. 访问系统

#### 1.1 通过 iLO 启用远程控制台访问系统

iLO 4 页面 Information -> Overview 的 Integrated Remote Console 选项, 或页面左侧 Remote Console 导航可启用远程控制台。本文以.NET 远程控制台为例。

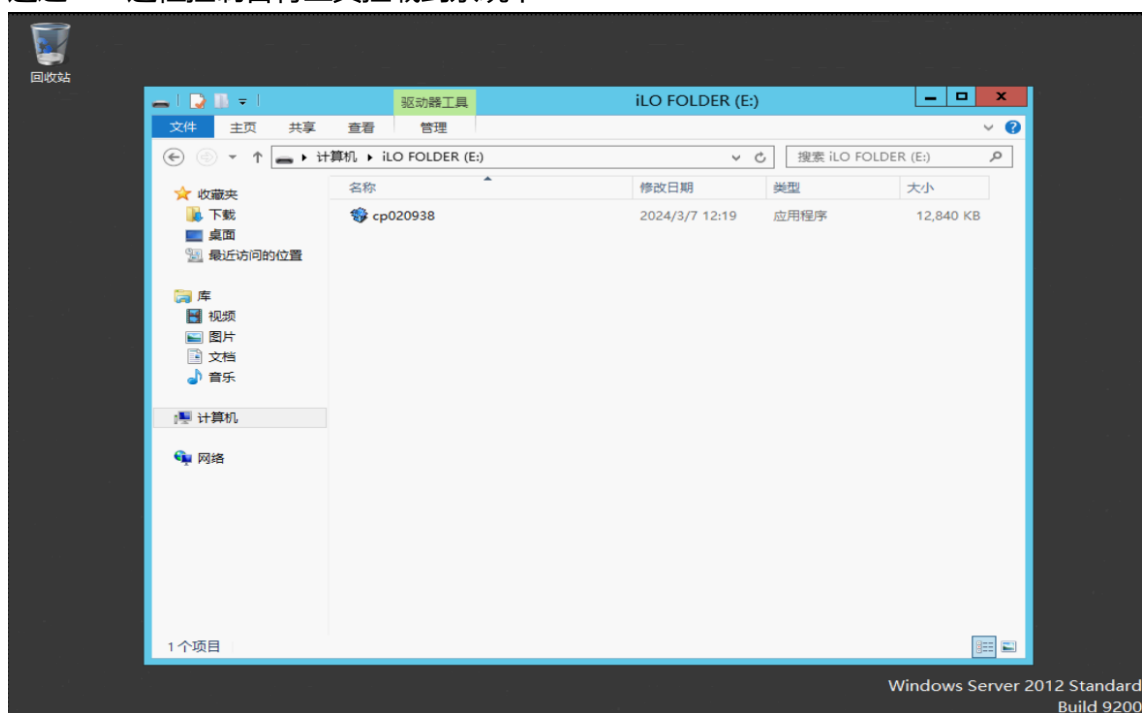


#### 1.2 通过远程桌面或第三方 RDP 工具访问系统



## 2. 将 Smart Storage Administrator 工具保存到系统下

### 2.1 通过 iLO 远程控制台将工具挂载到系统下

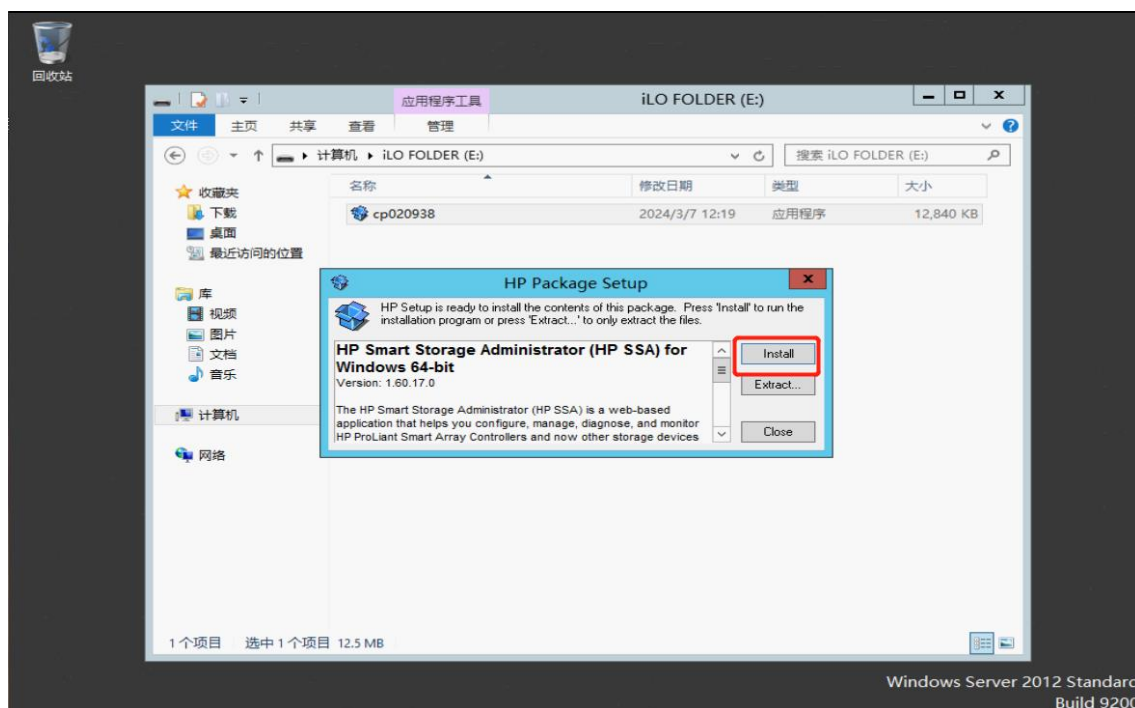


### 2.2 通过 U 盘将工具挂载到系统下

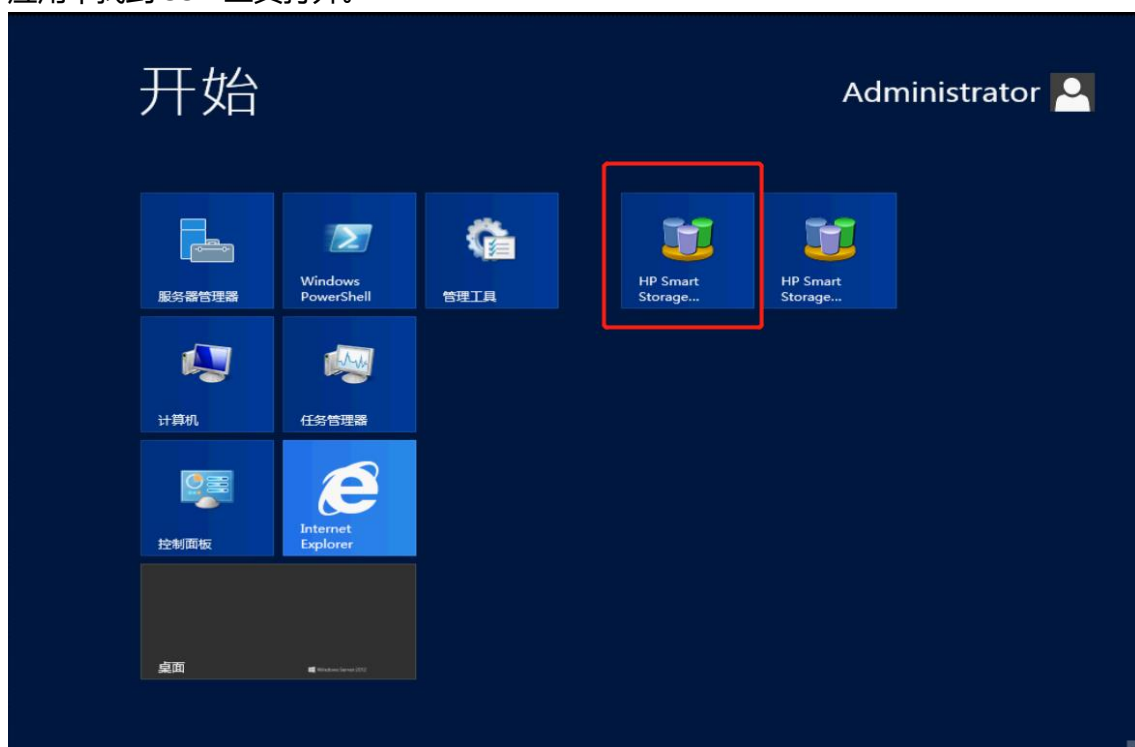
U 盘接入服务器后，在系统下直接访问挂载点。

## 3. 安装并启用 Smart Storage Administrator

### 1) 双击开始安装 SSA 工具。



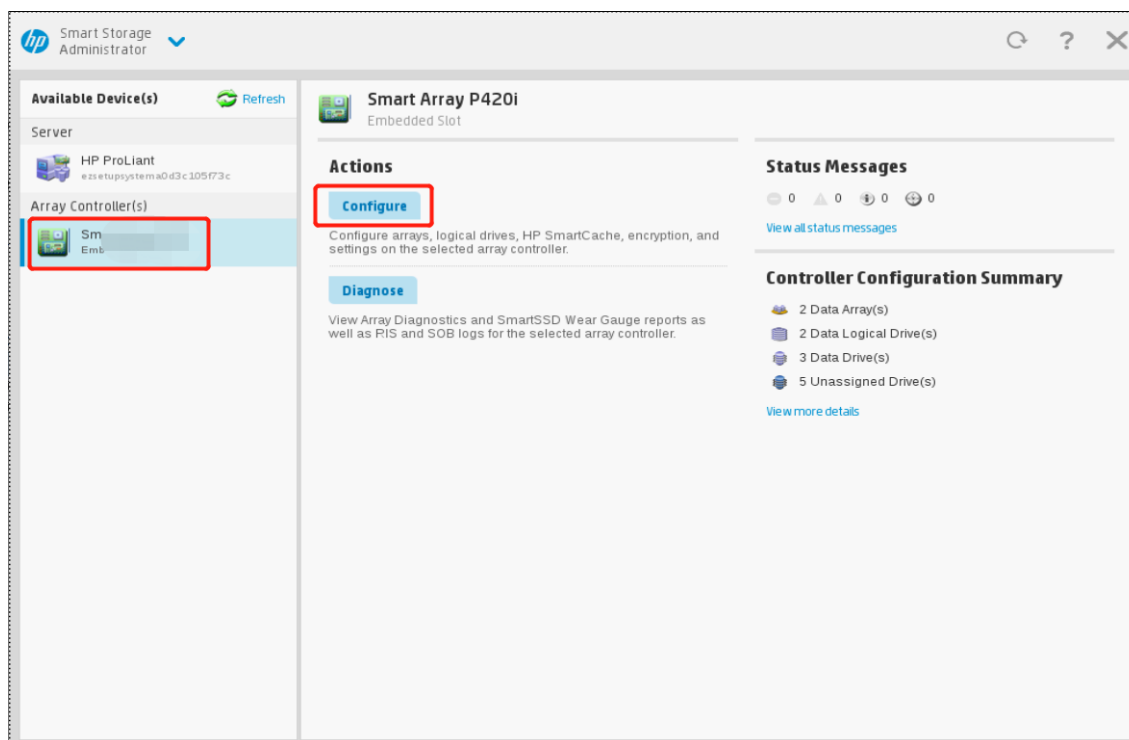
2) 应用中找到 SSA 工具打开。



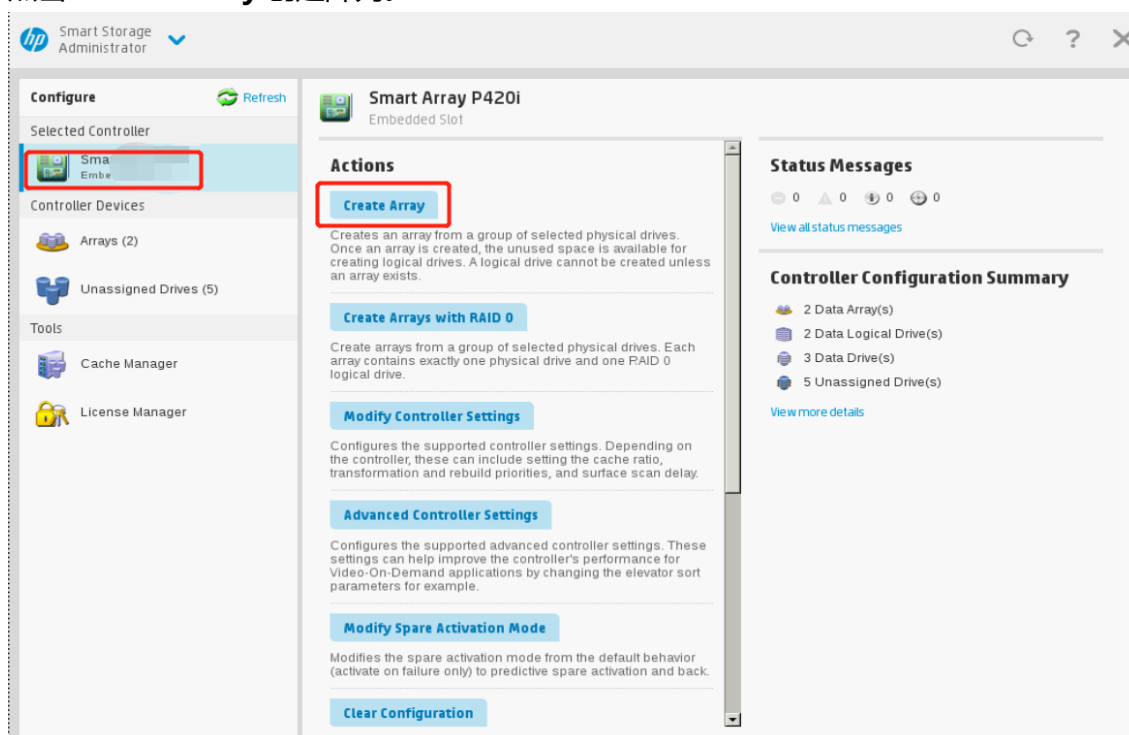
#### 4. 创建与删除阵列

##### 4.1 创建阵列

1) 选择阵列卡，点击 **Configure** 选项。



2) 点击 **Create Array** 创建阵列。



3) 选择硬盘，右上角有绿色对勾表示被选中，选择完成后点击 **Create Array**。

Smart Array P420i Embedded Slot > Create Array

■ In a dual domain configuration, mixing single and dual ported SAS drives can lead to a loss of redundancy.  
■ To avoid wasting drive capacity, select physical drives that are the same size for the new array. [Hide](#)

**Select Physical Drives for the New Array** [\(What's this...?\)](#)

Group By **Enclosure**

**Internal Drive Cage at Port 11: Box 2**

☐ Select All (3)

450 GB SAS HDD Bay 1 ✓  
450 GB SAS HDD Bay 3 ✓  
450 GB SAS HDD Bay 4

**Internal Drive Cage at Port 21: Box 2**

☐ Select All (2)

450 GB SAS HDD Bay 7  
450 GB SAS HDD Bay 8

Selected: 2  
Size: 838.37 GiB (900.20 GB)

**Create Array** Cancel

- 4) 选择 RAID Level (阵列级别)、Strip Size/Full Stripe Size (条带大小)、Sectors/Track (扇区大小)、Size (阵列大小) 后点击 **Create Logical Drive** 创建阵列。  
通常只需要设置 RAID Level 及 Size, 其他默认即可。

Smart Array P420i  
Embedded Slot

Create Logical Drive

The size may be automatically adjusted slightly to optimize performance.

Certain operating systems do not support logical drives greater than 502 GiB or boot volumes greater than 2 TiB. Check operating system documentation for details.

Hide

RAID Level (What's this...?)

☐ RAID 0

☒ RAID 1

Strip Size / Full Stripe Size (What's this...?)

☐ 8 KiB / 8 KiB

☐ 16 KiB / 16 KiB

☐ 32 KiB / 32 KiB

☐ 64 KiB / 64 KiB

☐ 128 KiB / 128 KiB

☒ 256 KiB / 256 KiB

☐ 512 KiB / 512 KiB

☐ 1024 KiB / 1024 KiB

Sectors/Track (What's this...?)

☐ 63

☒ 32

Size (What's this...?)

☒ Maximum Size: 429215 MiB (419.1 GiB)

☐ Custom Size

Caching (What's this...?)

☒ Enabled

☐ Disabled

Create Logical Drive

Cancel

5) 阵列创建完毕，点击 **Finish**。

Smart Array P420i  
Embedded Slot

Create Logical Drive

Logical Drive was successfully created. Please choose one of the actions below.

Array Details

Status

OK

Used Space

838.3 GiB (100.0%)

Total Usable Space

838.3 GiB

Acceleration Mode

Independent: Caching can be enabled or disabled for each individual logical drive

Logical Drives

Logical Drive 3

419.16 GiB (450.06 GB)

Physical Drives

450 GB SAS HDD at Port 11 : Box 2 : Bay 1

450 GB SAS HDD at Port 11 : Box 2 : Bay 3

Device Path

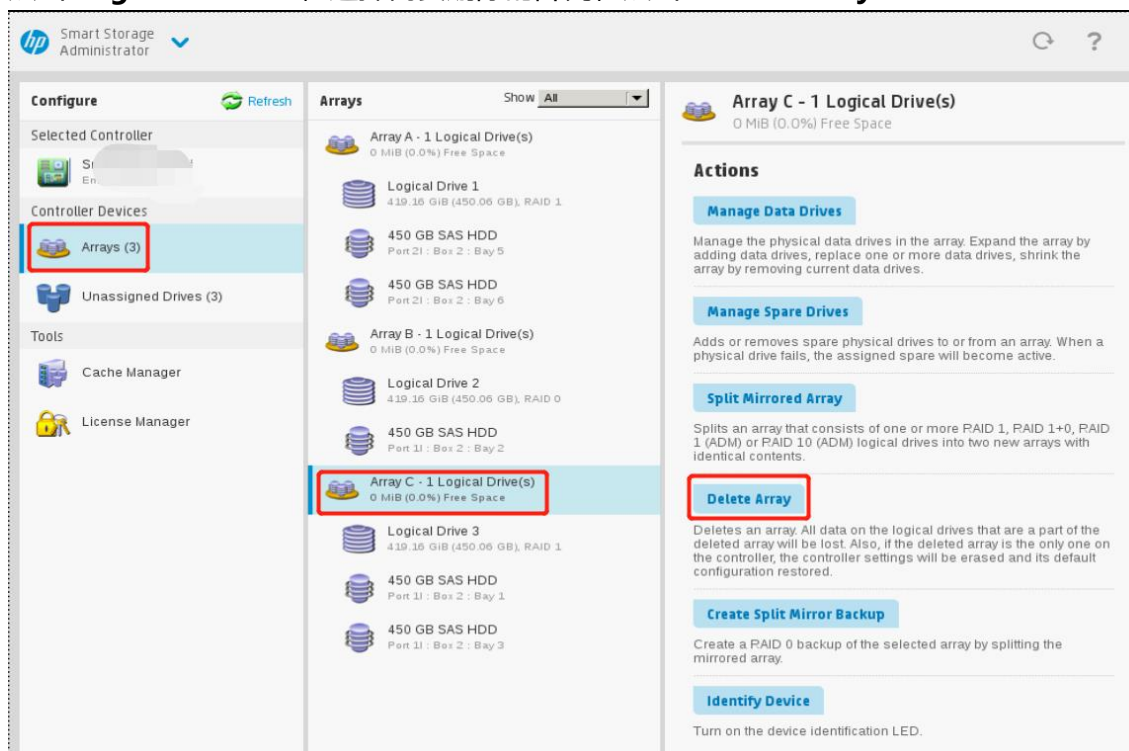
Smart Array P420i in Embedded Slot

Manage Spare Drives

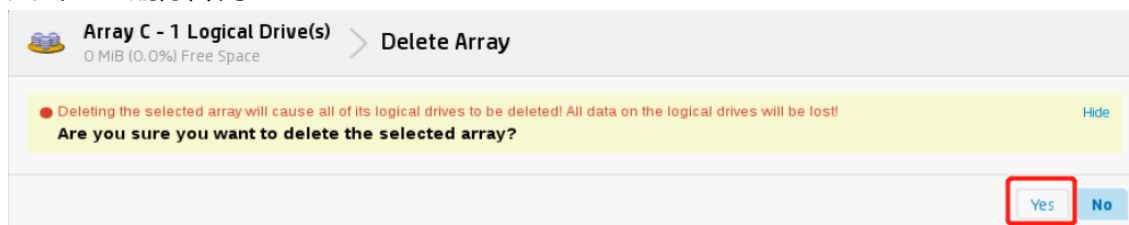
Finish

4.2 删除阵列

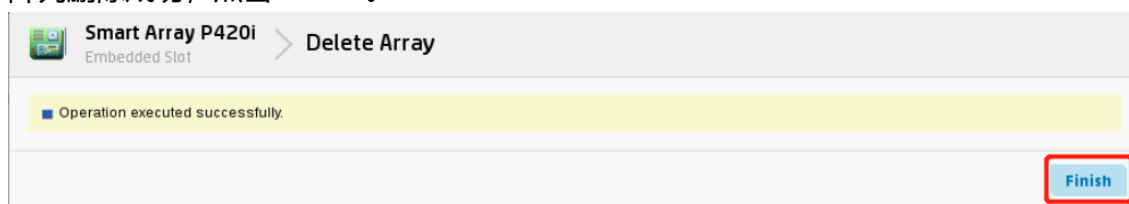
1) 点击 **Logical Devices**，选择需要删除的阵列，点击 **Delete Array**。



2) 点击 **Yes** 删除阵列。



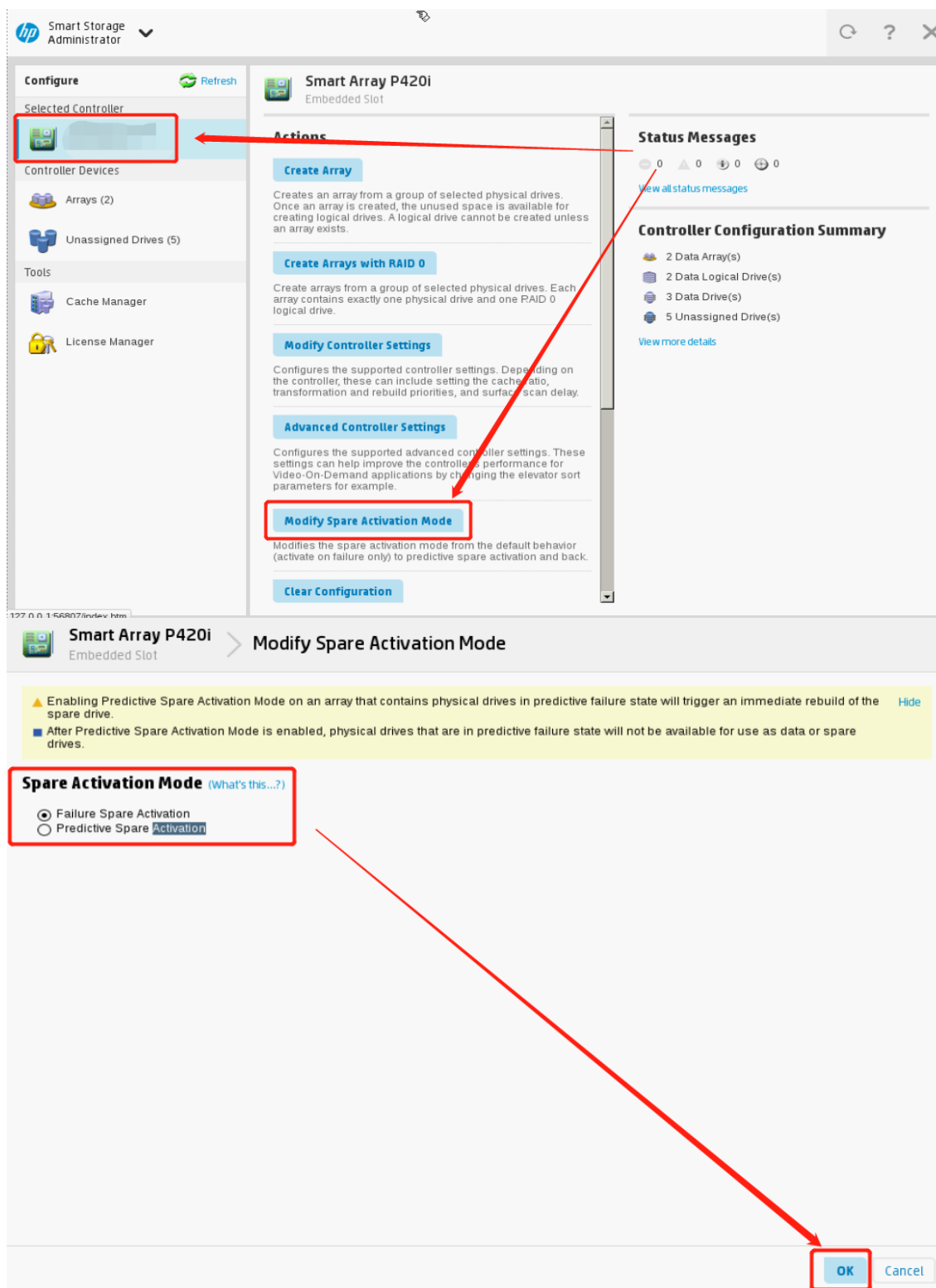
3) 阵列删除成功，点击 **Finish**。



5. 创建与删除热备

- 确认热备盘激活模式，故障时激活或预测故障时激活，其中 raid0 只能选择预测故障时激活。





两种模式热备盘区别：

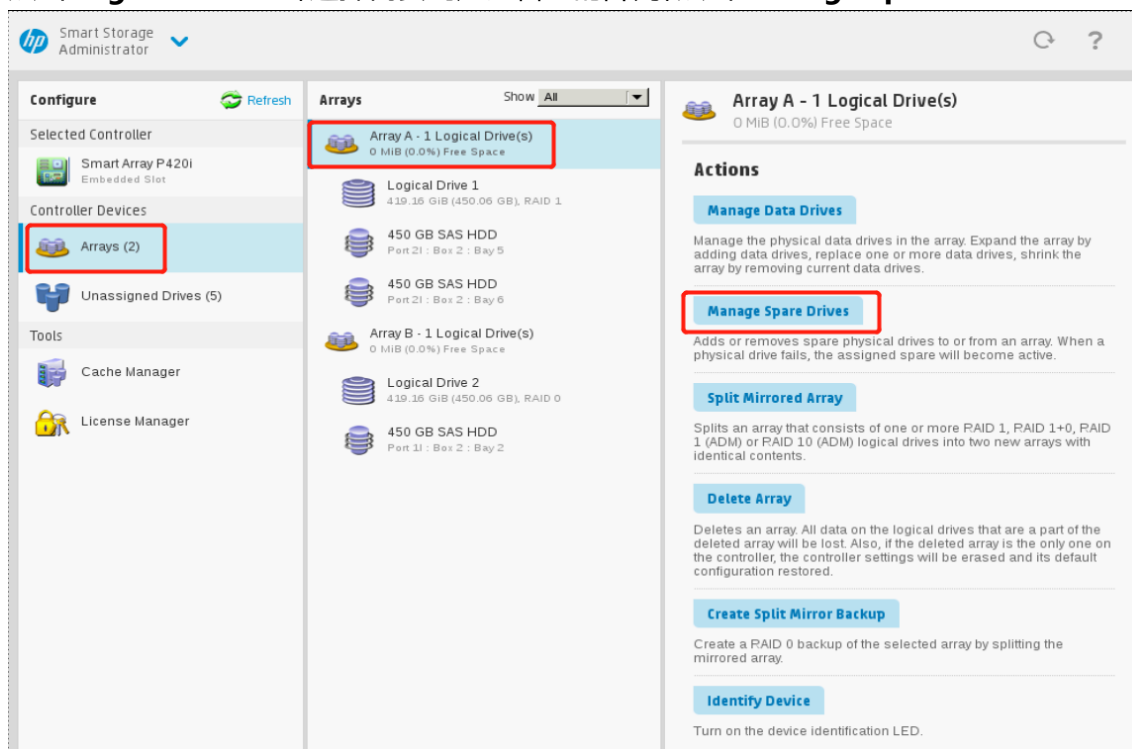
**Dedicated (专用)：**在更换发生故障的数据驱动器时，必须使用备用驱动器上的数据进行重建。在专用模式下，一个备用驱动器可以专用于多个阵列。

**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。

## 5.1 创建热备

### 5.1.1 创建专用热备

1) 点击 **Logical Devices**, 选择需要创建热备盘的阵列, 点击 **Manage Spare Drives**。



2) 勾选要配置成热备盘的磁盘，选择 **Dedicated** 热备模式，点击 **Save** 保存。

Array A - 1 Logical Drive(s)  
0 MiB (0.0%) Free Space

Manage Spare Drives

In a dual domain configuration, mixing single and dual ported SAS drives can lead to a loss of redundancy.

To avoid wasting drive capacity, select physical drives that are same size as the existing drives in the array.

Hide

Spare Drive Type (What's this...?)

☒ Dedicated Spare Drives. Drives designated as spares can only be used as spare drives.

☐ Auto Replace Drives. When activated, selected drives will automatically become part of the array.

Add/Remove Spare Drives (What's this...?)

Group By 

Enclosure

Internal Drive Cage at Port 1I : Box 2

☐ Select All (3)

450 GB

SAS HDD Bay 1

450 GB

SAS HDD Bay 3

450 GB

SAS HDD Bay 4

Internal Drive Cage at Port 2I : Box 2

☐ Select All (2)

450 GB

SAS HDD Bay 7

450 GB

SAS HDD Bay 8

Status: OK

Size: 419.19 GiB (450.10 GB)

Save

Cancel

3) 点击 **Finish** 退出完成热备。

Array A with Spare - 1 Logical Drive(s)  
0 MiB (0.0%) Free Space

Manage Spare Drives

Spare configuration saved.

Array Details

Status

OK

Used Space

838.3 GiB (100.0%)

Total Usable Space

838.3 GiB

Spare Drive Type

Dedicated Spare Drives. Drives designated as spares can only be used as spare drives.

Acceleration Mode

Independent Caching can be enabled or disabled for each individual logical drive

Logical Drives

Logical Drive 1

419.16 GiB (450.06 GB)

Physical Drives

450 GB SAS HDD at Port 2I : Box 2 : Bay 5

450 GB SAS HDD at Port 2I : Box 2 : Bay 6

Spare Drives

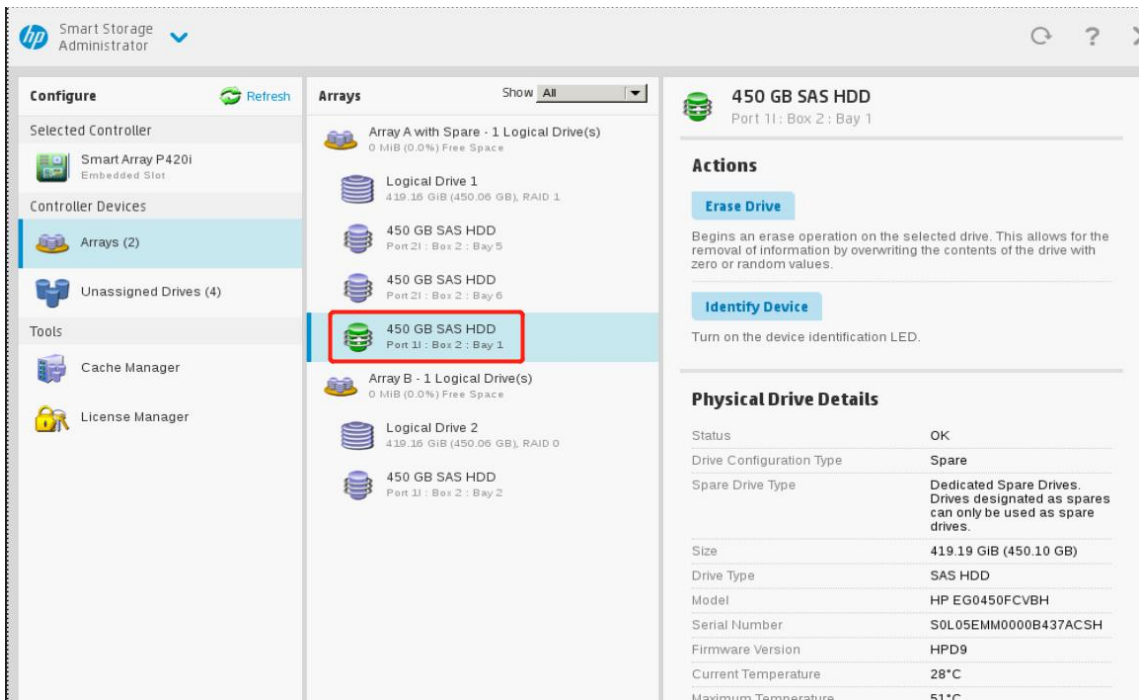
450 GB SAS HDD at Port 1I : Box 2 : Bay 1

Device Path

Smart Array P420i in Embedded Slot

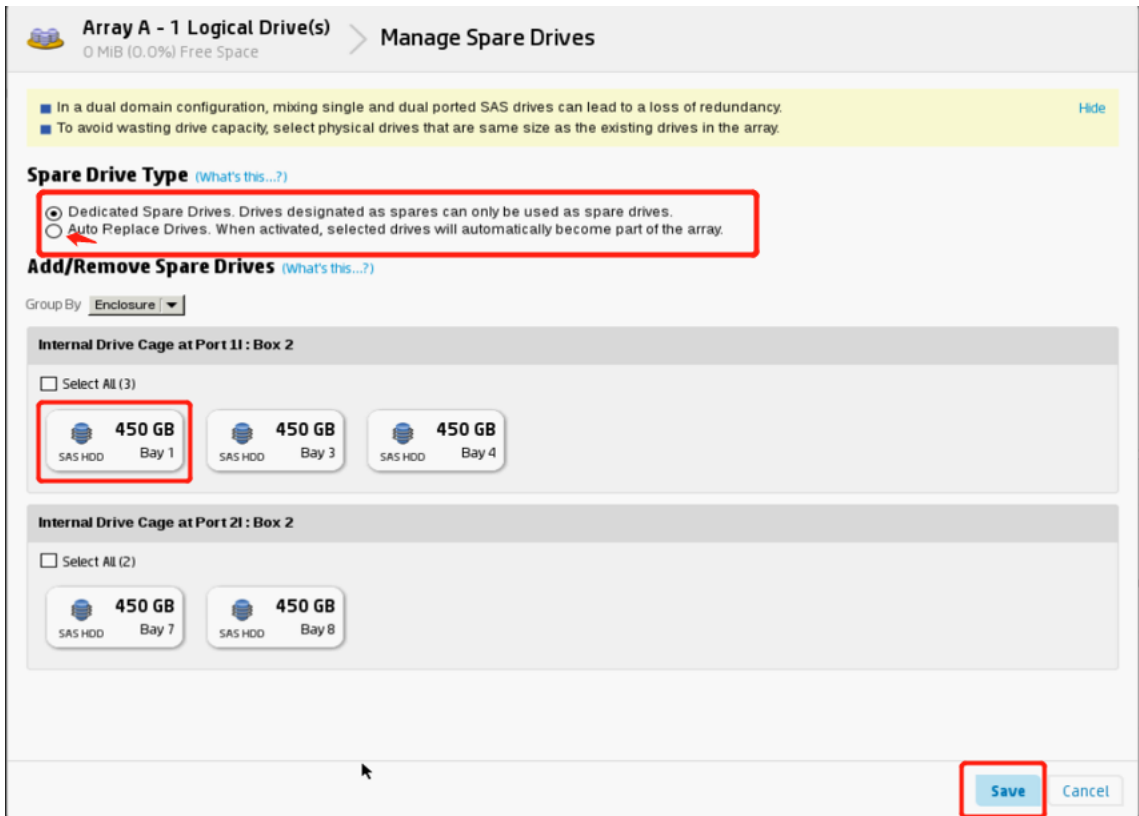
Manage Spare Drives

Finish



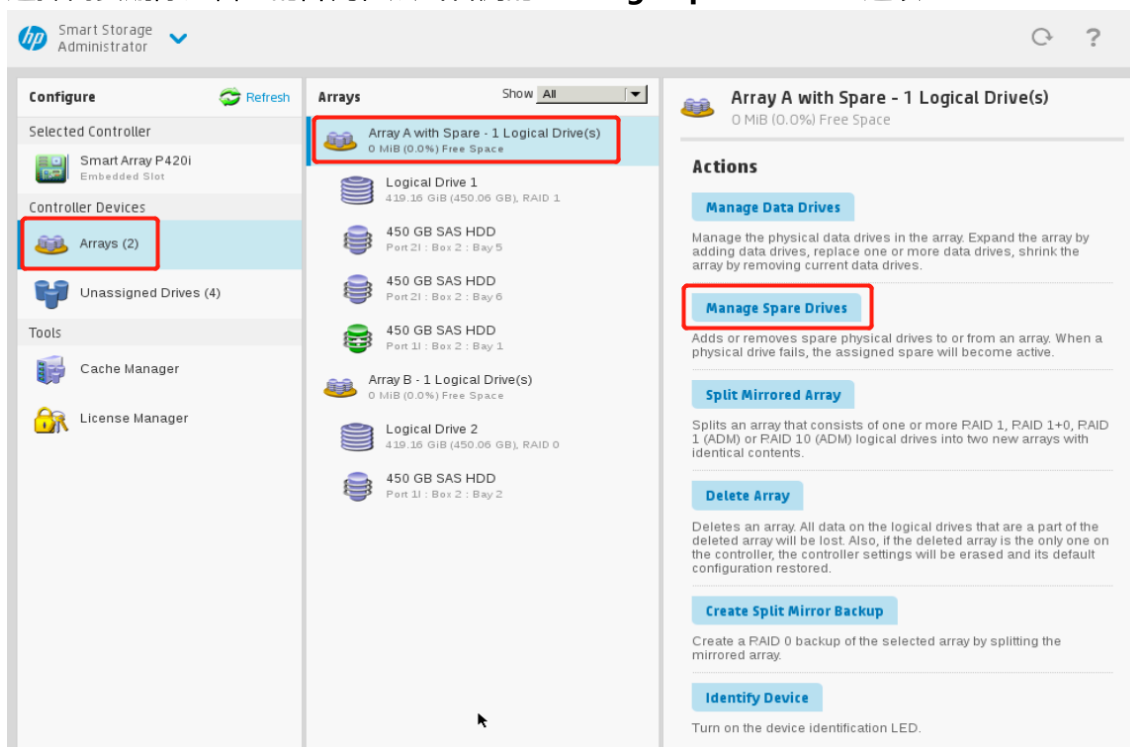
### 5.1.2 创建自动替换热备

过程与专用热备盘一样，勾选要配置成热备盘的磁盘，再选择 **Auto** 热备模式，点击 **Save** 保存。

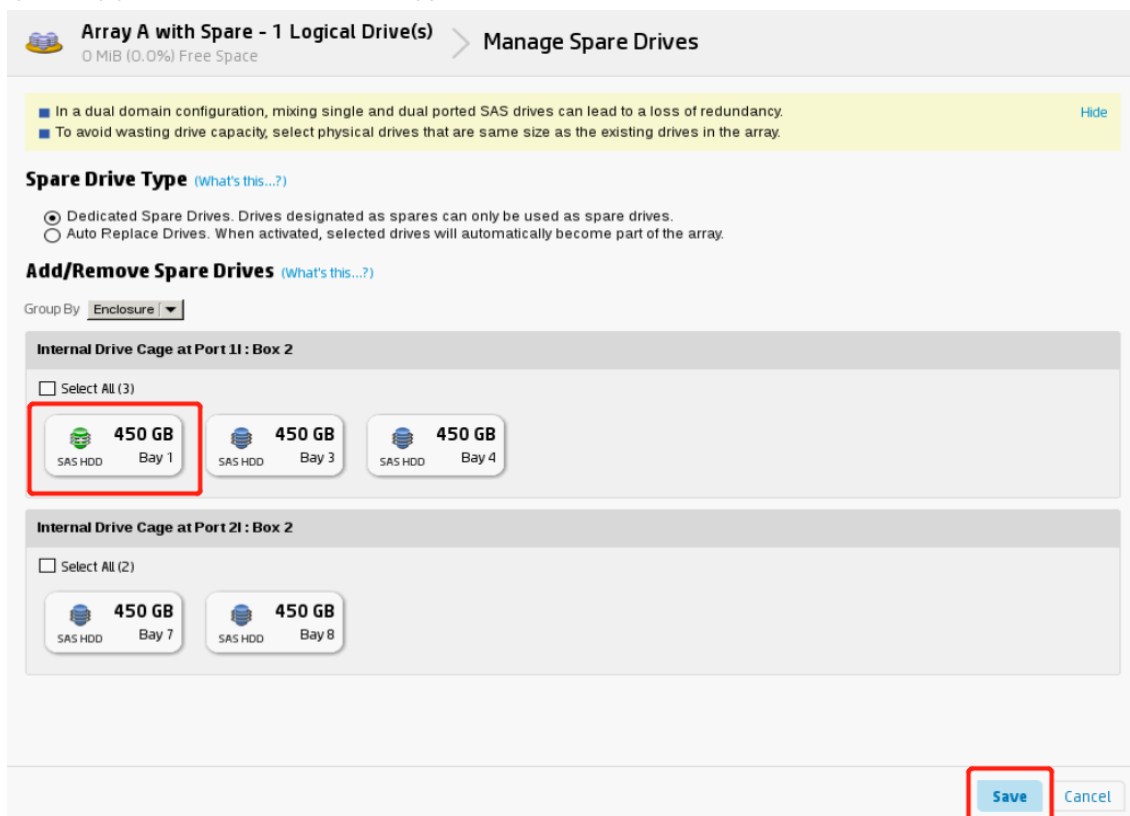


### 5.2 删除热备

- 1) 选择需要删除热备盘的阵列，点击右侧的 **Manage Spare Drives** 选项。



- 2) 取消热备盘的勾选，点击 **Save** 保存。



- 3) 点击 **Finish** 完成删除。

Array A - 1 Logical Drive(s)

0 MiB (0.0%) Free Space

Manage Spare Drives

Spare configuration saved.

Array Details

Status	OK
Used Space	838.3 GiB (100.0%)
Total Usable Space	838.3 GiB
Acceleration Mode	Independent: Caching can be enabled or disabled for each individual logical drive

Logical Drives

Logical Drive 1	419.16 GiB (450.06 GB)
-----------------	------------------------

Physical Drives

450 GB SAS HDD at Port 2I : Box 2 : Bay 5

450 GB SAS HDD at Port 2I : Box 2 : Bay 6

Device Path

Smart Array P420i in Embedded Slot

Manage Spare Drives

Finish