

# HPE Gen12 服务器

## MR 系列阵列卡 Windows 系统下 MRSA 扩容阵列

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### 一. 适用范围与注意事项

- 本文档旨在说明 HPE Gen12 系列服务器 MR 系列阵列卡 Windows 系统下使用 MegaRAID Storage Administrator 工具扩容阵列的方法，并以 DL360 Gen12 服务器为例进行配置步骤说明。  
MR 系列阵列卡包含如下型号：
  - HPE MR416i-p Gen12
  - HPE MR416i-o Gen12
  - HPE MR216i-p Gen12
  - HPE MR216i-o Gen12
  - HPE MR408i-o Gen12
  - HPE MR408i-p Gen12
- 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 MegaRAID Storage Administrator 工具

下载链接：

[HPE MegaRAID Storage Administrator for Windows 64-bit \(HPE MRSA for Gen10 and Gen10 Plus Controllers\) | HPE Support](https://www.hpe.com/us/en/servers/storage/mega-raid-storage-administrator.html)

## 2. 连接 iLO 与启用远程控制台

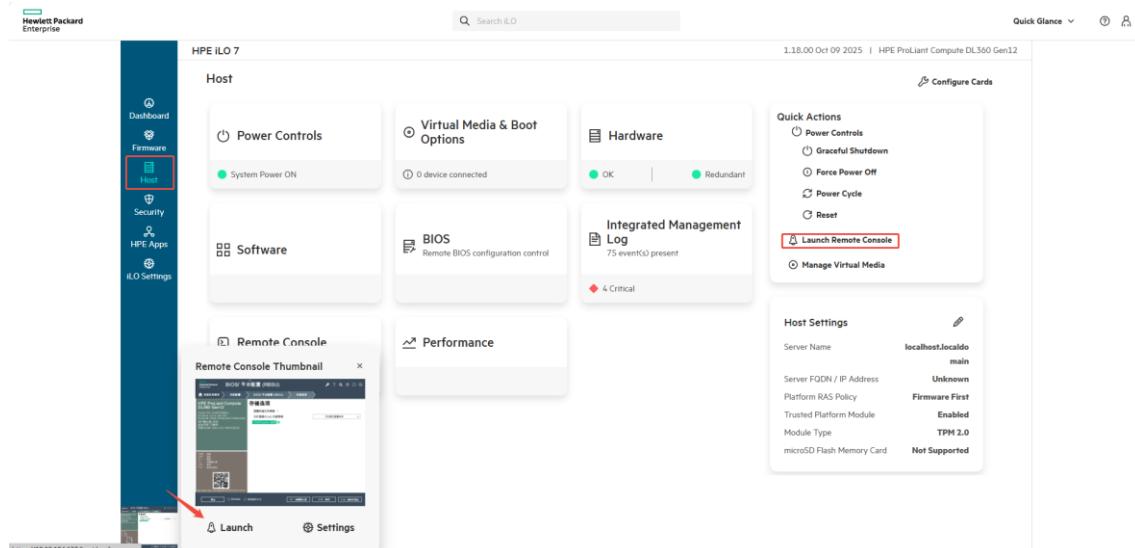
具体方法请参考：<https://zhiliao.h3c.com/theme/details/233627>

## 三. 配置步骤

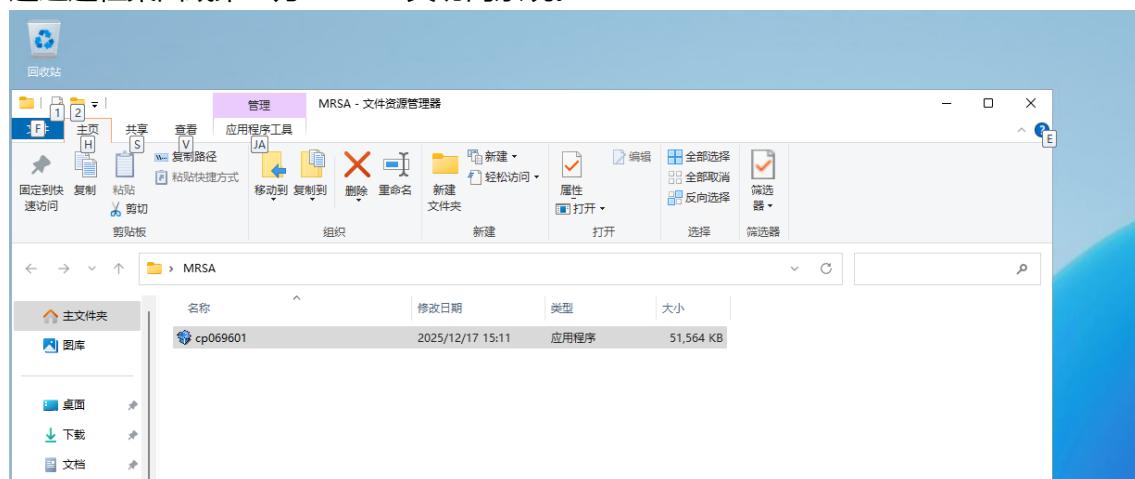
### 1. 访问系统

#### 1.1 通过 iLO 启用远程控制台访问系统

通过 iLO7 页面 **Dashboard - Virtual Media & Remote Console** 选项，或 **Host - Remote Console** 页面，或页面左下方 **Remote Console** 选区可直接启用远程控制台；也可在上方搜索栏，直接搜索 **Remote Console** 进行选择。本文以 HTML5 远程控制台为例。

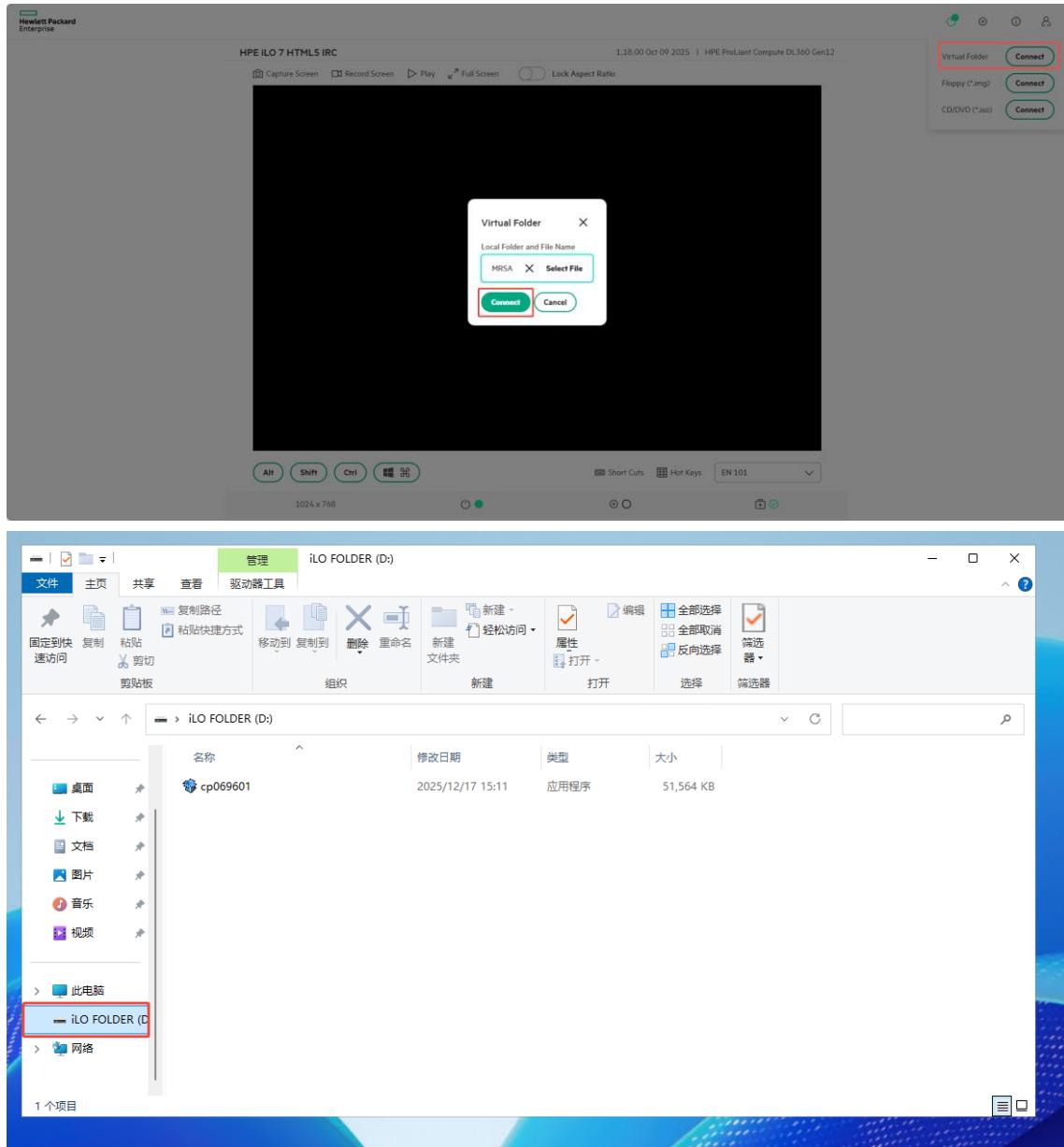


#### 1.2 通过远程桌面或第三方 RDP 工具访问系统。



## 2. 将 MegaRAID 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

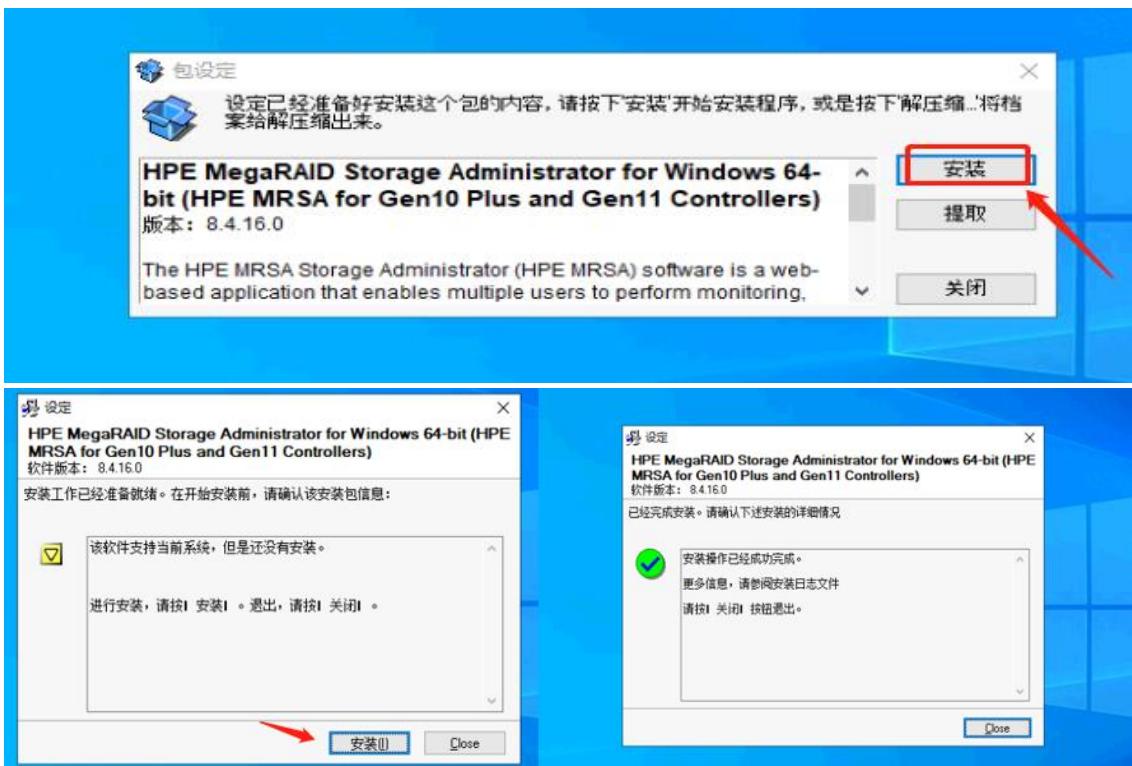


### 2.2 通过 U 盘将工具挂载到系统下

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 MegaRAID Storage Administrator

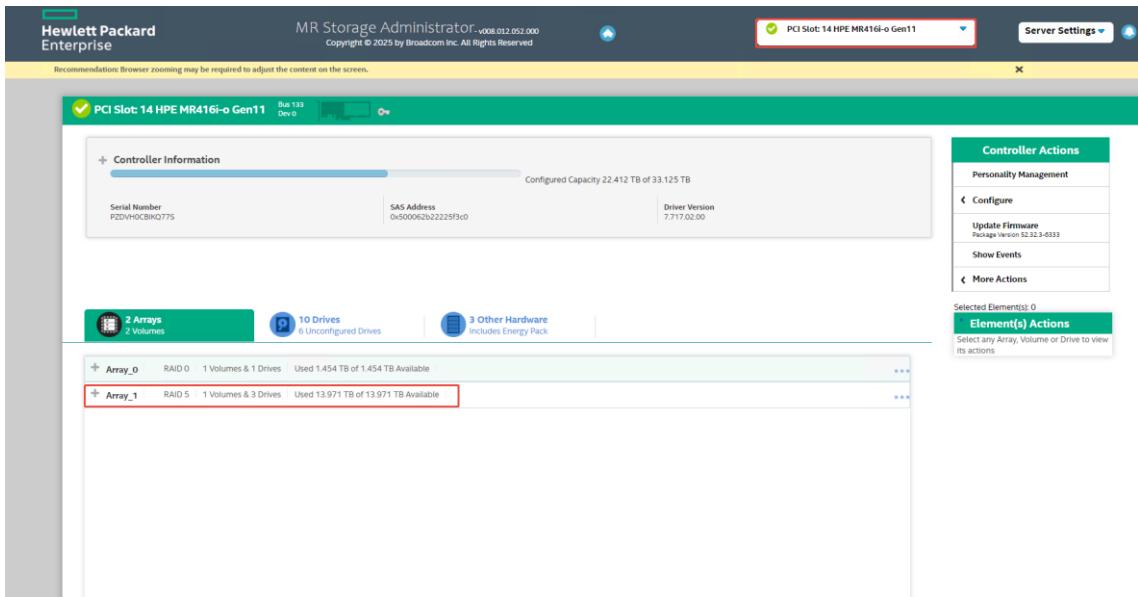
- 1) 双击安装文件点击安装。



2) 安装完成后，找到 MRSAs 工具双击打开。

#### 4. 扩容阵列

- 1) 选择 MR416i-o 阵列卡，查看需要扩容的逻辑卷信息。本文档以 3 块硬盘的 RAID5 添加一块硬盘进行扩容为例。



2) 选择逻辑卷，点击 Modify Array。

3) 选择需要扩容的 RAID 级别，以 RAID5 为例，勾选“It is advisable to backup data before you proceed. Are you sure you want to continue?”之后点击。 (注：建议备份重要数据后再进行操作)

1. RAID Level Setting (Compare and select)

This RAID level is suitable for multi-user environments(database or file system) with large IO size and high proportion of read activity.

It is advisable to backup data before you proceed. Are you sure you want to continue?

**Next**

4) 点击 **Add Drives** 添加所需扩容到阵列中的硬盘，选择之后点击 **Finish**。

The screenshot shows the 'Modify Array' interface. In the center, a modal window titled '1 Available Unconfigured Drive(s)' lists a single drive: 'Port 2|Box=2,Bay=1'. Below this, there is an 'Add Drives' button. At the bottom of the main interface, there is another 'Add Drives' button. The 'Add Drives' button on the main page is highlighted with a red box. The 'Finish' button at the bottom right of the main interface is also highlighted with a red box.

5) 扩容操作执行成功。

The screenshot shows the 'Modify Array' interface after the operation is completed. The status bar at the top indicates 'Completed'. The main interface shows the array configuration: 'Array\_1' with '4 Drives'. The 'Add Drives' button is now grayed out. The 'Finish' button at the bottom right is highlighted with a red box.

6) 查看当前扩容进度（扩容过程较慢，需要耐心等待扩容完成即可）。

The screenshot shows the H3C Storage Management interface. At the top, it displays 'PCI Slot: 14 HPE MR416i-o Gen11' with Bus 133 Dev 5. The main panel shows 'Controller Information' with a configured capacity of 29.398 TB of 33.125 TB. Below this, there's a section for 'Background Processes in Progress' with a red border around the 'Transformation: Volume 237' entry. The bottom part of the interface shows '2 Arrays' (Array\_0 and Array\_1), '10 Drives' (5 Unconfigured Drives), and '3 Other Hardware' (Includes Energy Pack). On the right, there's a 'Controller Actions' sidebar with options like Personality Management, Configure, Update Firmware, Show Events, and More Actions. A 'Element(s) Actions' panel indicates 'Selected Element(s): 0'.

## 7) 扩容完成。

This screenshot shows the same H3C Storage Management interface after the volume expansion. The 'Controller Information' section remains the same. In the 'Background Processes in Progress' section, the 'Transformation: Volume 237' entry is now listed as completed. The 'Element(s) Actions' panel still shows 'Selected Element(s): 0'. The 'Volume' and 'Drives' tabs are selected in the navigation bar. The detailed view below shows a table with columns: Port,Box,Bay, Device/Persistent ID, Media, Interface, Capacity, Sector Size, and Model. The rows represent the four drives added to the RAID 5 array, with their details matching the previous screenshot.

Port,Box,Bay	Device/Persistent ID	Media	Interface	Capacity	Sector Size	Model
Port 2,Box=2,Bay=1	10	SSD	SAS	6.986TB	512B	V0007680PXM TT
Port 11,Box=1,Bay=4	8	SSD	SAS	6.986TB	512B	V0007680PXM TT
Port 11,Box=1,Bay=5	11	SSD	SAS	6.986TB	512B	V0007680PXM TT
Port 11,Box=1,Bay=6	9	SSD	SAS	6.986TB	512B	V0007680PXM TT