

组网及说明

DL380 Gen10  
使用 microsD RAID 1 USB部署VMware系统

告警信息

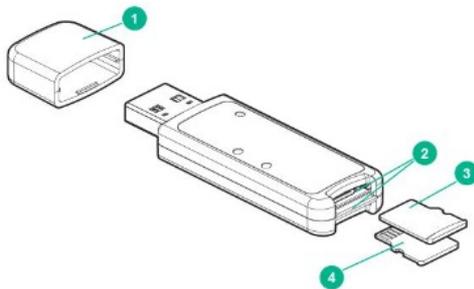
系统发生紫屏宕机，用户系统侧工程师分析怀疑SD卡模块异常，建议更换；但是用户希望保留系统，即先更换完一张SD卡，等重建完成后再更换第二张卡；

问题描述

系统发生紫屏宕机，用户系统侧工程师分析怀疑SD卡模块异常，建议更换；但是用户希望保留系统，即先更换完一张SD卡，等重建完成后再更换第二张卡；

过程分析

关于更换microSD RAID 1 USB模块的情况，大多数均是直接更换整个模块（即USB模块+2张SD卡），然后重新部署系统；



| Item | Description       |
|------|-------------------|
| 1    | Cap               |
| 2    | MicroSD card slot |
| 3    | SD1 card          |
| 4    | SD2 card          |

至于希望逐一更换SD卡进行重建的情况，查看microSD RAID 1 USB 的user guide，确实是支持重建的：

[https://support.hpe.com/hpesc/public/docDisplay?docLocale=en\\_US&docId=a00093294en\\_us](https://support.hpe.com/hpesc/public/docDisplay?docLocale=en_US&docId=a00093294en_us)

### Replacing a failed microSD card module

**IMPORTANT:** This procedure requires system ROM version v2.20 or later.

If a microSD card fails a new HPE Dual 8GB MicroSD Enterprise Midline USB must be ordered. Only approved HPE microSD cards can be used with the HPE Dual 8GB MicroSD Enterprise Midline USB.

- Note whether microSD card 1 or microSD card 2 failed via the 323 Error.
  - Power down the server.
  - Remove the microSD card module from the internal USB port.
  - Remove the working microSD card. This will be the new primary card.
  - Replace one of the microSD cards in the new microSD card module with the primary microSD card from the old microSD card module. You can install the primary microSD card in slot 1 or 2. Make a note of the slot number you installed the primary card into.
- CAUTION:** Make sure to note the slot number you installed the primary microSD card into. Selecting the wrong slot number during configuration can result in data loss.
- Install the microSD card module into an internal USB port.
  - Configure the replacement microSD card module. It takes up to 15 minutes to reconfigure. The power LED will flash during this time.

### Configuring a replacement microSD card module

The microSD card module must be configured prior to first use.

- Power on the server.
- Upon boot, the microSD module reports error message 325.
- Press the F9 key to enter **System Configuration**.
- Select **System Health**, and then press **Enter**.
- Select **View System Health**, and then press **Enter**.
- Select **System BIOS**, and then press **Enter**.
- Highlight **Configuration required** and then press **Enter**. The HPE Dual MicroSD configuration menu appears.
- Select the **Primary SD Card Selection** menu, and then select **SD1 Primary** or **SD2 Primary** based on which slot contains the primary card from the old device.
- Press **F10** to save changes and exit the configuration menu.
- Reboot the server.
- Upon reboot, the device will be reconfigured and your original boot option will appear.

## 解决方法

实验室验证，此模块支持在线更换单SD卡，但是有几点需要注意：

- 1、更换的SD卡的备件号必须和原来的备件号完全相同（若不同，则替换上去的SD卡不会进行重建）；



- 2、更换SD卡可以在线操作，若条件允许，替换上去的SD卡对应的指示灯开始红灯闪烁，表示正在进行重建，红灯熄灭表示重建完成（大约30分钟可以完成）；
- 3、microSD状态可以在ilo中查看（前提条件是系统下必须安装AMS服务），有SD卡故障或者正在重建，状态显示为黄色降级（如下），重建完成之后，状态变为绿色健康（若看到重建红灯已经不闪烁了，但是还是ilo中还是显示为黄色降级，可以重启下服务器恢复）：

摘要 处理器 内存 网络 装置清单 存储

## 存储信息 <sup>⌵</sup>

✓ HPE 32GB microSD RAID1 USB Boot Drive ← 系统下必须安装AMS服务才能在ilo中看到

| 位置           | 状况    | 型号                                    | 总卷数 | 总驱动器数 |
|--------------|-------|---------------------------------------|-----|-------|
| System Board | ▲ 已启用 | HPE 32GB microSD RAID1 USB Boot Drive | 0   | 0     |

## 存储信息 <sup>⌵</sup>

✓ HPE 32GB microSD RAID1 USB Boot Drive

| 位置           | 状况    | 型号                                    | 总卷数 | 总驱动器数 |
|--------------|-------|---------------------------------------|-----|-------|
| System Board | ● 已启用 | HPE 32GB microSD RAID1 USB Boot Drive | 0   | 0     |

✓ HPE Smart Array P408i-p SR Gen10

## 控制器详细信息

### 详细信息

|                          |                        |
|--------------------------|------------------------|
| FirmwareVersion          | 1.3.2.234              |
| Manufacturer             |                        |
| Name                     | USB Storage Controller |
| PartNumber               | P21870-001             |
| SerialNumber             | 03A121DOB1109001       |
| SupportedDeviceProtocols | USB                    |

IML日志中对应的日志信息：

| ID    | 严重性 | 类别          | 描述  |
|-------|-----|-------------|---|
| 11454 | ●   | Flash Media | Redundancy is restored on a USB storage device attached to the system.                              |
| 11453 | ▲   | Flash Media | Redundancy is lost on a USB storage device attached to the system. Flash Media in Slot 2 has failed |