

知 某局点开局识别不到NVMe盘

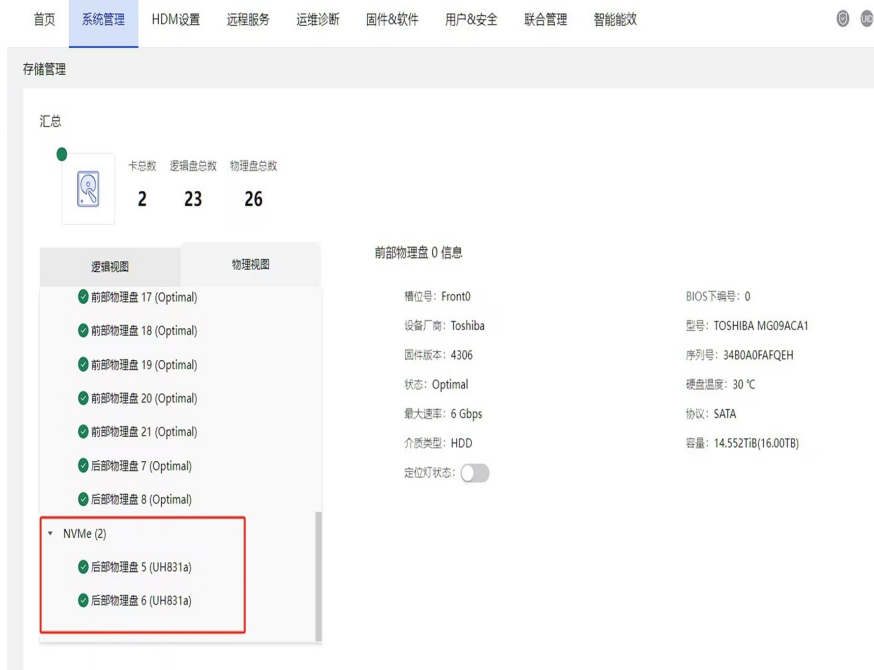
存储配置 刘路 2024-06-30 发表

问题描述

某局点新开局，机型为10536 G6的服务器，在前台设置缓存盘时识别不到NVMe盘。

过程分析

1、在带外实际查看，可以看到是能识别到NVMe盘



2、在系统后台使用lspci查询是否有NVMe的pci设备，也查询不到。因为新开局，硬件全新，硬件故障概率低，怀疑是驱动或配置异常导致

```
[root@node3 unstor_jacklajie]# lspci
00:00.0 system peripheral: Intel(R) Device 09a2 (rev 20)
00:00.1 system peripheral: Intel(R) Device 09a4 (rev 20)
00:00.2 system peripheral: Intel(R) Device 09a3 (rev 20)
00:00.4 generic system peripheral [0807]: Intel(R) Device 0b23
00:00e.0 PCI bridge: Intel(R) Device 1b8e (rev 11)
00:14.0 USB controller: Intel(R) Device 1bcd (rev 11)
00:14.2 RAM memory: Intel(R) Device 1bce (rev 11)
00:14.4 host bridge: Intel(R) Device 1bf6 (rev 11)
00:15.0 system peripheral: Intel(R) Device 1bff (rev 11)
00:16.0 communication controller: Intel(R) Device 1ba0 (rev 11)
00:16.1 communication controller: Intel(R) Device 1ba1 (rev 11)
00:16.4 communication controller: Intel(R) Device 1ba4 (rev 11)
00:17.0 SATA controller: Intel(R) Device 1ba2 (rev 11)
00:18.0 SATA controller: Intel(R) Device 1ba2 (rev 11)
00:1f.0 ISA bridge: Intel(R) Device 1b81 (rev 11)
00:1f.4 SMBus: Intel(R) Device 1bc9 (rev 11)
00:1f.5 serial bus controller [dc80]: Intel(R) Device 1bca (rev 11)
01:00.0 PCI bridge: ASPEED Technology, Inc. AST1150 PCI-to-PCI Bridge (rev 06)
02:00.0 VGA compatible controller: ASPEED Technology, Inc. ASPEED Graphics Family (rev 52)
16:00.0 system peripheral: Intel(R) Device 09a2 (rev 20)
16:00.1 system peripheral: Intel(R) Device 09a4 (rev 20)
16:00.2 system peripheral: Intel(R) Device 09a3 (rev 20)
16:00.4 generic system peripheral [0807]: Intel(R) Device 0b23
16:01.0 PCI bridge: Intel(R) Device 352a (rev 04)
29:00.0 system peripheral: Intel(R) Device 09a2 (rev 20)
29:00.1 system peripheral: Intel(R) Device 09a4 (rev 20)
29:00.2 system peripheral: Intel(R) Device 09a3 (rev 20)
29:00.4 generic system peripheral [0807]: Intel(R) Device 0b23
29:01.0 PCI bridge: Intel(R) Device 352a (rev 04)
2a:00.0 serial Attached SCSI controller: Adaptec Smart Storage PCI 12G SAS/PCIe 3 (rev 01)
3c:00.0 system peripheral: Intel(R) Device 09a2 (rev 20)
3c:00.1 system peripheral: Intel(R) Device 09a4 (rev 20)
3c:00.2 system peripheral: Intel(R) Device 09a3 (rev 20)
3c:00.4 generic system peripheral [0807]: Intel(R) Device 0b23
3c:01.0 PCI bridge: Intel(R) Device 352a (rev 04)
3d:00.0 Ethernet controller: Mellanox Technologies MT27710 Family [connectx-4 Lx]
3d:00.1 Ethernet controller: Mellanox Technologies MT27710 Family [connectx-4 Lx]
4f:00.0 system peripheral: Intel(R) Device 09a2 (rev 20)
4f:00.1 system peripheral: Intel(R) Device 09a4 (rev 20)
4f:00.2 system peripheral: Intel(R) Device 09a3 (rev 20)
4f:00.4 generic system peripheral [0807]: Intel(R) Device 0b23
62:00.0 system peripheral: Intel(R) Device 09a2 (rev 20)
62:00.1 system peripheral: Intel(R) Device 09a4 (rev 20)
62:00.2 system peripheral: Intel(R) Device 09a3 (rev 20)
62:00.4 generic system peripheral [0807]: Intel(R) Device 0b23
62:00.5 RAID bus controller: Intel(R) Device 28c0 (rev 20)
```

经与研发沟通，536G6安装B50内核要在BIOS下关闭VMD功能才能再系统下识别到NVMe盘。

解决方法

- 1、开机进入BIOS，选择Advanced --> Socket Configuration --> IIO Configuration --> Intel VM D technology --> VMD AUTO CONFIGURATION --> Intel VMD for Volume Management Device on Socket 1/2
- 2、Socket 1 里面将 VMD Config for IOU 5 的第一项 Enable/Disable VMD 设置为 Disable，其余 IOU 通道默认 VMD 状态为 Disable，如有其余状态，一并设为 Disable
- 3、Socket 2 里面将 VMD Config for IOU 2 的第一项 Enable/Disable VMD 设置为 Disable，其余 IOU 通道默认 VMD 状态为 Disable，如有其余状态，一并设为 Disable

4、最后按 F4 保存并退出。

5、重启后使用 lsblk 查询 NVMe 盘，如果出现部分 NVMe 盘无法查看，请重新检查下设置是否正确