



- USB 3.0 VMFS3 3.0 ESXi 6.0 3.0 3.0

USB 問題 VMFS 問題 ESXi 問題

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問題 1 - Disable usbarbitrator service

Navigate to ESX > Configure > System > Advanced System Settings and click "Edit"

Search for USB.arbitratorAutoStartDisabled and set the Value to 1

Reboot the ESXi

問題 2 alternative option

Connect to the ESXi host with SSH

Stop the USB arbitrator service.

```
/etc/init.d/usbarbitrator stop
```

Permanently disable the USB arbitrator service after reboot.

```
chkconfig usbarbitrator off
```

No reboot is required

USB 問題 VMFS 問題 問題

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TSM-SSH 問題 問題.

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```
[
  {
    "Name"    : "naa.5000cca2b089ea6c",
    "VSANUUID" : "",
    "State"    : "Ineligible for use by VSAN",
    "Reason"   : "Has partitions",
    "StoragePoolState": "Ineligible for use by Storage Pool",
    "StoragePoolReason": "Has partitions",
    "IsSSD"    : "0",
    "IsCapacityFlash": "0",
    "IsPDL"    : "0",
```

```

    "Size(MB)" : "11444224",
    "FormatType" : "512e",
    "IsVsanDirectDisk" : "0"
  },

  {
    "Name" : "mpx.vmhba32:C0:T0:L0",
    "VSANUUID" : "",
    "State" : "Ineligible for use by VSAN",
    "Reason" : "Has partitions",
    "StoragePoolState": "Ineligible for use by Storage Pool",
    "StoragePoolReason": "Has partitions",
    "IsSSD" : "0",
    "IsCapacityFlash": "0",
    "IsPDL" : "0",
    "Size(MB)" : "117348",
    "FormatType" : "512n",
    "IsVsanDirectDisk" : "0"
  },

  {
    "Name" : "t10.NVMe____Samsung_SSD_970_PRO_512GB_____E93640115C382500",
    "VSANUUID" : "",
    "State" : "Ineligible for use by VSAN",
    "Reason" : "Has partitions",
    "StoragePoolState": "Ineligible for use by Storage Pool",
    "StoragePoolReason": "Has partitions",
    "IsSSD" : "1",
    "IsCapacityFlash": "0",
    "IsPDL" : "0",
    "Size(MB)" : "488386",
    "FormatType" : "512e",
    "IsVsanDirectDisk" : "0"
  }
]

```

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```
gpt
0 0 0 0
1 2048 240326656 AA31E02A400F11DB9590000C2911D1B8 0
```

이제 파티션 테이블을 생성합니다.

```
# 파티션 테이블을 생성합니다.
# 파티션 테이블을 생성합니다.
```

```
vmkfstools -C vmfs6 -S <디바이스> /dev/disks/<deviceID>:1
```

이제 DataStore를 생성합니다, <deviceID>:1은 디바이스의 파티션 ID입니다.

```
vmkfstools -C vmfs6 -S usb_store /dev/disks/mpx.vmhba32:C0:T0:L0:1
```

이제 파티션 테이블을 생성합니다.

```
create fs deviceName:'/dev/disks/mpx.vmhba32:C0:T0:L0:1', fsShortName:'vmfs6', fsName:'usb_store'
deviceFullPath:/dev/disks/mpx.vmhba32:C0:T0:L0:1 deviceFile:mpx.vmhba32:C0:T0:L0:1
ATS on device /dev/disks/mpx.vmhba32:C0:T0:L0:1: not supported.
Checking if remote hosts are using this device as a valid file system. This may take a few seconds...
Creating vmfs6 file system on "mpx.vmhba32:C0:T0:L0:1" with blockSize 1048576, unmapGranularity 1048576,
unmapPriority default and volume label "usb_store".
Successfully created new volume: 63bfb975-7328d029-c8f4-2cf05df47a0d
```

이제 파티션 테이블을 생성합니다, usb_store는 파티션 ID입니다.

데이터스토어 어댑터 디바이스 영구 메모리			
+ 새 데이터스토어 + 용량 증가 VM 등록 데이터스토어 브라우저 새로 고침 ⚙			
이름	드라이브 유형	용량	프로비저닝됨
hdd_store	비SSD	10.91 TB	1.93 GB
ssd_store	SSD	348.75 GB	2.56 GB
usb_store	비SSD	114.5 GB	1.41 GB

VMware USB 控制器 默认情况下，USB 控制器 SSD 控制器 默认情况下是禁用的。要启用 USB 控制器，请参考 <https://kb.vmware.com/s/article/2013188>

要启用 SSD 控制器，请运行以下命令。

```
esxcli system settings advanced set -o /Disk/AllowUsbClaimedAsSSD -i 1
```

要查看 USB 控制器的状态，请运行以下命令。

```
esxcli storage nmp device list

mpx.vmhba32:C0:T0:L0
  Device Display Name: Local USB Direct-Access (mpx.vmhba32:C0:T0:L0)
  Storage Array Type: VMW_SATP_LOCAL
  Storage Array Type Device Config: SATP VMW_SATP_LOCAL does not support device configuration.
  Path Selection Policy: VMW_PSP_FIXED
  Path Selection Policy Device Config: {preferred=vmhba32:C0:T0:L0;current=vmhba32:C0:T0:L0}
  Path Selection Policy Device Custom Config:
  Working Paths: vmhba32:C0:T0:L0
  Is USB: true
```

Storage Array Type 为 VMW_SATP_LOCAL。要启用 SSD 控制器，请运行以下命令。

```
esxcli storage nmp satp rule add --satp=<SATP_TYPE> --device <device> --option "enable_ssd"
```

要查看 SSD 控制器的状态，请运行以下命令。

```
esxcli storage nmp satp rule add --satp=VMW_SATP_LOCAL --device mpx.vmhba32:C0:T0:L0 --option
"enable_ssd"
```

要查看 SSD 控制器的状态，请运行以下命令。

```
esxcli storage core device list -d mpx.vmhba32:C0:T0:L0 | grep SSD
Is SSD: false
```

1. 在 VMware ESXi 中安装。

2. 在 SSD 上安装，并设置 SSD 为只读。