



# nbd挂载点残留导致UIS主机暂停共享存储失败

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#### 问题描述

UIS E0716版本离线升级，其中一个节点暂停共享存储失败，提示共享存储卷被占用。

## 过程分析

1. 登陆此主机后台，通过命令 `lsdf +d /vms/share01` 及 `fuser /vms/share01` 查看此共享存储卷没有进程占用。

2. 通过 `df -h` 命令查看挂载状态，发现在 `/vms/share01` 目录下多了一个 `nbd` 挂载项：

```
tmpfs          252G  4.0G  248G   2% /run
tmpfs          252G   0     252G   0% /sys/fs/cgroup
/dev/sda2      104G  15G   85G   15% /
/dev/sda1     512M  9.8M  502M   2% /boot/efi
/dev/sda5     382G  1.8G  361G   1% /vms
/dev/sda3      32G   7.4G  23G   25% /var/log
tmpfs         51G   0     51G   0% /run/user/0
/dev/sdii      94M   5.5M  89M   6% /var/lib/ceph/osd/ceph-36
/dev/sdj1     94M   5.5M  89M   6% /var/lib/ceph/osd/ceph-48
/dev/sdh1     94M   5.5M  89M   6% /var/lib/ceph/osd/ceph-24
/dev/sdg1     94M   5.5M  89M   6% /var/lib/ceph/osd/ceph-12
/dev/sdu1     94M   5.5M  89M   6% /var/lib/ceph/osd/ceph-180
/dev/sdf1     94M   5.5M  89M   6% /var/lib/ceph/osd/ceph-8
/dev/sdv1     94M   5.5M  89M   6% /var/lib/ceph/osd/ceph-192
/dev/sds1     94M   5.5M  89M   6% /var/lib/ceph/osd/ceph-156
/dev/sdr1     94M   5.5M  89M   6% /var/lib/ceph/osd/ceph-144
/dev/sdt1     94M   5.5M  89M   6% /var/lib/ceph/osd/ceph-168
/dev/sdl1     94M   5.5M  89M   6% /var/lib/ceph/osd/ceph-72
/dev/sdp1     94M   5.5M  89M   6% /var/lib/ceph/osd/ceph-120
/dev/sdm1     94M   5.5M  89M   6% /var/lib/ceph/osd/ceph-84
/dev/sdw1     94M   5.5M  89M   6% /var/lib/ceph/osd/ceph-110
/dev/dm-8     30T   8.7T  22T   29% /vms/share01
/dev/sdo1     94M   5.5M  89M   6% /var/lib/ceph/osd/ceph-108
/dev/sdn1     94M   5.5M  89M   6% /var/lib/ceph/osd/ceph-96
/dev/sdk1     94M   5.5M  89M   6% /var/lib/ceph/osd/ceph-60
/dev/sdc2     94M   5.5M  89M   6% /var/lib/ceph/osd/ceph-132
dev/mapper/nbd15p1 63M   76K   63M   1% /vms/share01/vfat-124a1b97-aca6-471e-8608-0718c730bb78_tmpdir
root@z7zb050000uric12 ~#
```

怀疑是之前环境出现问题时，通过 `nbd` 方式挂载处理问题后未卸载，导致残留的挂载点。

## 解决方法

卸载nbd挂载点:

1. 执行umount命令: `umount /vms/share01/vfat-124a1b97-aca6-471e-8608-0718c730bb78_tmpdir`
2. 执行kpartx命令: `kpartx -d /dev/mapper/nbd15p1`
3. 执行qemu-nbd命令: `qemu-nbd -d /dev/mapper/nbd15p1`

