

知 HP-UX 11.31 使用pvcreate创建pv报错physical volume is already recorded in the lvmtab file

HP-UX系统安装 高成良 2022-09-25 发表

组网及说明

系统: HP-UX 11.31

存储: Primera 600 通过FC 映射卷给HP-UX

## 问题描述

用户变更配置，映射新的primera存储的卷到HP-UX后pvcreate命令报错

```
root@p1fabdb2: [/]# pvcreate /dev/rdisk/disk1139
pvcreate: The physical volume "/dev/disk/disk1139" is already recorded in the "/etc/lvmtab" file.
root@p1fabdb2: [/]# pvcreate -f /dev/rdisk/disk1139
pvcreate: The physical volume "/dev/disk/disk1139" is already recorded in the "/etc/lvmtab" file.
root@p1fabdb2: [/]# █
```

## 过程分析

HP-UX系统下通过ioscan 可以看到存储侧映射的卷，卷的状态是claimed正常

```
disk 1139 64000/0xfa00/0x86 esdisk CLAIMED DEVICE online 3PARdataVV
      /dev/disk/disk1139 /dev/disk/disk1139
      0/0/0/7/0/0/0.0x20310002ac028deb.0x4004000000000000
      0/0/0/7/0/0/0.0x23310002ac028deb.0x4004000000000000
      0/0/0/7/0/0/0.0x21310002ac028deb.0x4004000000000000
      0/0/0/7/0/0/0.0x22310002ac028deb.0x4004000000000000
      0/0/0/7/0/0/1.0x20320002ac028deb.0x4004000000000000
      0/0/0/7/0/0/1.0x21320002ac028deb.0x4004000000000000
      0/0/0/7/0/0/1.0x23320002ac028deb.0x4004000000000000
      0/0/0/7/0/0/1.0x22320002ac028deb.0x4004000000000000
      /dev/disk/disk1139 /dev/rdisk/disk1139
```

这是一个新映射的卷，之前系统也并未使用disk1139设备文件名，当使用pvcreate创建pv时候报错，使用-f参数强制操作也无效

```
root@p1fabdb2: [/]# pvcreate /dev/rdisk/disk1139
pvcreate: The physical volume "/dev/disk/disk1139" is already recorded in the "/etc/lvmtab" file.
root@p1fabdb2: [/]# pvcreate -f /dev/rdisk/disk1139
pvcreate: The physical volume "/dev/disk/disk1139" is already recorded in the "/etc/lvmtab" file.
root@p1fabdb2: [/]#
```

根据报错提示，检查/etc/lvmtab文件，但并未发现disk1139记录在此文件中，如下是lvmtab中记录的硬盘信息

```
--- Physical volumes ---
PV Name           /dev/disk/disk73_p2
PV Status         available
Total PE          4455
Free PE           183
Autoswitch        On
Proactive Polling On
```

syslog中也未见disk1139磁盘或者路径相关的报错

## 解决方法

- 1、备份/etc/lvmtab文件
- 2、#vgscan -N 重新创建一个lvmtab文件后，再执行pvcreate可以正常创建pv

