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CLeaner des paths FAILED

```
scsimgr lun_map | grep disk | awk '{print $7}' > /tmp/disk.txt
for i in `cat /tmp/disk.txt`; do scsimgr -p lun_map -D $i | grep FAILED | cut -d: -f3 | xargs -i -t rmsf -H {} ; done
vxdctl enable
```

Lister les cartes fibres

```
root@parc2899:/$ ioscan -fnkCfc
Class     I  H/W Path        Driver   S/W State   H/W Type     Description
============================================================================
fc  0  1/0/10/1/0/4/0  fcd      CLAIMED INTERFACE    HP A9784-60002 PCI/PCI-X Fibre Channel
                           /dev/fcd0
fc  1  1/0/11/1/0/4/0  fcd      CLAIMED INTERFACE    HP A9784-60002 PCI/PCI-X Fibre Channel
                           /dev/fcd1
```

Afficher les infos

On utilise la commande *fcmsutil* avec le nom du device en paramètre (cf. ci-dessus).

```
/opt/fcms/bin/fcmsutil /dev/fcd0
```

On peut voir d'autres infos avec :

```
/opt/fcms/bin/fcmsutil /dev/fcd0 vpd
```

N_Port Port World Wide Name

PowerPath & PVlink

Le nombre d'alternate PV est effectivement différent selon les VG. Ils sont utilisés lorsque PVlink est en charge du failover. Dans le cas de PowerPath, ils n'ont pas d'utilité car le driver PowerPath agit à une couche inférieur du LVM HP-UX. Quelquesoit le chemin utilisé par LVM, PowerPath redirigera les I/Os vers le chemin actif du disque. En clair, la définition d'alternate PV dans LVM n'est pas utilisé dans la gestion du failover par PowerPath.

Divers

```
ioscan -fuNC disk
ioscan -fnClunpath
scsimgr lun_map
```

scsimgr

- Serial number

```
[root@ivm15 - /var/adm/syslog ] # scsimgr get_attr -D /dev/rdisk/disk640 -a wwid -a serial_number

        SCSI ATTRIBUTES FOR LUN : /dev/rdisk/disk640

name = wwid
current = 0x6000097000029260069533030314346
default =
saved =

name = serial_number
current = "6006961CF000"
default =
saved =
```

```
[root@ivm15 - /var/adm/syslog ] # /opt/emcgrab/tools/bin/inq.HPUXIA64 -nodots -sym_wwn -showvol |grep disk640
/dev/rdisk/disk640     000292600696   001CF     6000097000029260069533030314346
```

```
[root@ivm15 - /var/adm/syslog ] # scsimgr lun_map -D /dev/rdisk/disk150

       LUN PATH INFORMATION FOR LUN : /dev/rdisk/disk150

Total number of LUN paths     = 4
World Wide Identifier(WWID)    = 0x600009700002926006965330303731 39

LUN path : lunpath119
Class                         = lunpath
Instance                      = 119
Hardware path                 = 0/0/0/7/0/0/1.0x50000974080ae165.0x40f2000000000000
SCSI transport protocol       = fibre_channel
State                         = UNOPEN
Last Open or Close state      = ACTIVE

LUN path : lunpath120
Class                         = lunpath
Instance                      = 120
Hardware path                 = 0/0/0/7/0/0/1.0x50000974080ae161.0x40f2000000000000
SCSI transport protocol       = fibre_channel
State                         = UNOPEN
Last Open or Close state      = ACTIVE

LUN path : lunpath121
Class                         = lunpath
Instance                      = 121
Hardware path                 = 0/0/0/7/0/0/0.0x50000974080ae159.0x40f2000000000000
SCSI transport protocol       = fibre_channel
State                         = UNOPEN
Last Open or Close state      = ACTIVE

LUN path : lunpath122
Class                         = lunpath
Instance                      = 122
Hardware path                 = 0/0/0/7/0/0/0.0x50000974080ae15d.0x40f2000000000000
SCSI transport protocol       = fibre_channel
State                         = UNOPEN
Last Open or Close state      = ACTIVE
```

```
[root@ivm07 - /var/adm/syslog ] #  scsimgr get_info -C lunpath -I 47

       STATUS INFORMATION FOR LUN PATH : lunpath47

Generic Status Information

SCSI services internal state                 = UNOPEN
Open close state                             = ACTIVE
Protocol                                     = fibre_channel
EVPD page 0x83 description code              = 1
EVPD page 0x83 description association       = 0
EVPD page 0x83 description type              = 3
World Wide Identifier (WWID)                 = 0x600009700002926006965330313333032
Total number of Outstanding I/Os             = 0
Maximum I/O timeout in seconds               = 30
Maximum I/O size allowed                     = 2097152
Maximum number of active I/Os allowed        = 8
Maximum queue depth                          = 8
Queue full delay count                       = 0
Asymmetric state                             = NA
Device preferred path                        = No
Relative target port identifier              = 147
Target port group identifier                 = NA
```

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