

Changement carte HBA APHRODITE

La carte HBA ayant été changée sur APHRODITE, il a fallu la faire prendre en compte au niveau du /kernel/drv/lpfc.conf et au niveau du fichier /kernel/drv/sd.conf, pour les lun's.

1 Fichier /kernel/drv/lpfc.conf

Dans le fichier /kernel/drv/lpfc.conf, on avait les valeurs suivantes :

```
# BEGIN: LPUTIL-managed Persistent Bindings
fcplib-WWPN="5006016b3ce03682:lpfc1t22",
            "500601633ce03682:lpfc0t23";
```

La carte en adapter 0 avant changement était en lpfc0 target 23.

La carte en adapter 0 après changement est en lpfc3 target 0.

Ceci est fait par la commande /usr/sbin/lpfc/lputil, options 5 (Persistent Bindings) et 5 (Bind Automapped Targets).

On a alors dans le fichier /kernel/drv/lpfc.conf les valeurs suivantes :

```
# BEGIN: LPUTIL-managed Persistent Bindings
fcplib-WWPN="5006016b3ce03682:lpfc1t22",
            "500601633ce03682:lpfc3t0";
```

Commande /usr/sbin/lpfc/lputil :

```
aphrodite# /usr/sbin/lpfc/lputil
LightPulse Common Utility for Solaris/SPARC. Version 2.0a9 (8/03/2005).
Copyright (c) 2005, Emulex Corporation
```

```
Emulex Fibre Channel Host Adapters Detected: 2
Host Adapter 0 (lpfc3) is an LP9K (Ready Mode)
Host Adapter 1 (lpfc1) is an LP9K (Ready Mode)
```

MAIN MENU

1. List Adapters
2. Adapter Information
3. Firmware Maintenance
4. Reset Adapter
5. Persistent Bindings

0. Exit

Enter choice => 5

PERSISTENT BINDINGS MENU

1. Display Current Bindings
2. Display All Nodes
3. Duplicate Adapter Bindings
4. Bind Target Manually
5. Bind Automapped Targets
6. Delete Binding(s)

0. Return to Main Menu

Enter choice => 1

Persistent Bindings:

1. Adapter: 1, Target: 22, WWPN: 50-06-01-6b-3c-e0-36-82
2. Adapter: 0, Target: 23, WWPN: 50-06-01-63-3c-e0-36-82

PERSISTENT BINDINGS MENU

1. Display Current Bindings
2. Display All Nodes
3. Duplicate Adapter Bindings
4. Bind Target Manually
5. Bind Automapped Targets
6. Delete Binding(s)

0. Return to Main Menu

Enter choice => 2

0. lpfc3
1. lpfc1

Select an adapter => 0

Visible Nodes:

Node	Target	WWPN	WWNN
----	-----	-----	-----
Automapped FCP Node	0	50-06-01-63-3c-e0-36-82	50-06-01-60-bc-e0-36-82

Press the Enter or Return key to continue:

PERSISTENT BINDINGS MENU

1. Display Current Bindings
2. Display All Nodes
3. Duplicate Adapter Bindings
4. Bind Target Manually
5. Bind Automapped Targets
6. Delete Binding(s)

0. Return to Main Menu

Enter choice => 2

0. lpfc3
1. lpfc1

Select an adapter => 1

Visible Nodes:

Node	Target	WWPN	WWNN
-----	-----	-----	-----
Mapped FCP Node	22	50-06-01-6b-3c-e0-36-82	50-06-01-60-bc-e0-36-82

Press the Enter or Return key to continue:

PERSISTENT BINDINGS MENU

1. Display Current Bindings
2. Display All Nodes
3. Duplicate Adapter Bindings
4. Bind Target Manually
5. Bind Automapped Targets
6. Delete Binding(s)

0. Return to Main Menu

Enter choice =>

New binding

```
fcv-bind-WWPN="5006016b3ce03682:lpfc1t22",
              "500601633ce03682:lpfc3t0";
```

2 Fichier /kernel/drv/sd.conf

Il a fallu ensuite ajouter des lun's dans le fichier sd.conf pour prendre en compte tous les disques sur la target 0 :

```
name="sd" class="scsi" class_prop="atapi"
      target=0 lun=0;
```

Modification du 250714 pour prendre en compte la nouvelle carte HBA

```
name="sd" class="scsi" target=0 lun=1;
name="sd" class="scsi" target=0 lun=2;
name="sd" class="scsi" target=0 lun=3;
name="sd" class="scsi" target=0 lun=4;
name="sd" class="scsi" target=0 lun=5;
name="sd" class="scsi" target=0 lun=6;
name="sd" class="scsi" target=0 lun=7;
name="sd" class="scsi" target=0 lun=8;
name="sd" class="scsi" target=0 lun=9;
name="sd" class="scsi" target=0 lun=10;
name="sd" class="scsi" target=0 lun=11;
name="sd" class="scsi" target=0 lun=12;
name="sd" class="scsi" target=0 lun=13;
name="sd" class="scsi" target=0 lun=14;
name="sd" class="scsi" target=0 lun=15;
name="sd" class="scsi" target=0 lun=16;
name="sd" class="scsi" target=0 lun=17;
name="sd" class="scsi" target=0 lun=18;
name="sd" class="scsi" target=0 lun=19;
```

Fin modification

3 Zoning côté NS120

Il faut aussi refaire le zoning côté NS120 en fonction du nouveau WWN de la carte HBA.

4 Reboot et visualisation par powermt display

Pour prendre en compte les modifications, il a fallu faire un : reboot -- -r car on est en solaris 8.

La commande : powermt display dev=all rend :

```
Pseudo name=emcpower1a
CLARiiON ID=CKM00092400246 [aphrodite]
Logical device ID=60060160367025000275BE055C92E311 [LUN 61]
state=alive; policy=CLAROpt; priority=0; queued-IOs=0
Owner: default=SP A, current=SP B   Array failover mode: 1
=====
=
----- Host ----- - Stor - -- I/O Path - -- Stats --
-
### HW Path          I/O Paths   Interf.   Mode     State   Q-IOs
Errors
=====
=
2305 pci@8,700000/fibre-channel@3 c3t22d8s0 SP B3      active  alive    0
0
2307 pci@8,700000/lpfc@2          c4t0d8s0  SP A3      active  alive    0
0

Pseudo name=emcpower11a
CLARiiON ID=CKM00092400246 [aphrodite]
Logical device ID=600601603670250008A37C77BAACDE11 [LUN 32]
state=alive; policy=CLAROpt; priority=0; queued-IOs=0
Owner: default=SP A, current=SP B   Array failover mode: 1
=====
=
----- Host ----- - Stor - -- I/O Path - -- Stats --
-
### HW Path          I/O Paths   Interf.   Mode     State   Q-IOs
Errors
=====
=
2305 pci@8,700000/fibre-channel@3 c3t22d0s0 SP B3      active  alive    0
0
2307 pci@8,700000/lpfc@2          c4t0d0s0  SP A3      active  alive    0
0

Pseudo name=emcpower13a
CLARiiON ID=CKM00092400246 [aphrodite]
Logical device ID=60060160367025003A7252B9BAACDE11 [LUN 35]
state=alive; policy=CLAROpt; priority=0; queued-IOs=0
Owner: default=SP B, current=SP B   Array failover mode: 1
=====
=
```

```

----- Host ----- - Stor - -- I/O Path - -- Stats --
-
### HW Path          I/O Paths   Interf.   Mode    State   Q-IOs
Errors
=====

```

```

=
2305 pci@8,700000/fibre-channel@3 c3t22d3s0 SP B3      active  alive    0
0
2307 pci@8,700000/lpfc@2          c4t0d3s0  SP A3      active  alive    0
0

```

```

Pseudo name=emcpower14a
CLARiiON ID=CKM00092400246 [aphrodite]
Logical device ID=60060160367025003C924FEFBAACDE11 [LUN 37]
state=alive; policy=CLAROpt; priority=0; queued-IOs=0
Owner: default=SP B, current=SP B   Array failover mode: 1
=====

```

```

----- Host ----- - Stor - -- I/O Path - -- Stats --
-
### HW Path          I/O Paths   Interf.   Mode    State   Q-IOs
Errors
=====

```

```

=
2305 pci@8,700000/fibre-channel@3 c3t22d5s0 SP B3      active  alive    0
0
2307 pci@8,700000/lpfc@2          c4t0d5s0  SP A3      active  alive    0
0

```

```

Pseudo name=emcpower15a
CLARiiON ID=CKM00092400246 [aphrodite]
Logical device ID=6006016036702500B090649ABAACDE11 [LUN 34]
state=alive; policy=CLAROpt; priority=0; queued-IOs=0
Owner: default=SP A, current=SP B   Array failover mode: 1
=====

```

```

----- Host ----- - Stor - -- I/O Path - -- Stats --
-
### HW Path          I/O Paths   Interf.   Mode    State   Q-IOs
Errors
=====

```

```

=
2305 pci@8,700000/fibre-channel@3 c3t22d2s0 SP B3      active  alive    0
0
2307 pci@8,700000/lpfc@2          c4t0d2s0  SP A3      active  alive    0
0

```

```

Pseudo name=emcpower16a
CLARiiON ID=CKM00092400246 [aphrodite]
Logical device ID=6006016036702500B2451CDBBAACDE11 [LUN 36]
state=alive; policy=CLAROpt; priority=0; queued-IOs=0
Owner: default=SP A, current=SP B   Array failover mode: 1
=====

```

```

----- Host ----- - Stor - -- I/O Path - -- Stats --
-

```

```

### HW Path I/O Paths Interf. Mode State Q-IOs
Errors
=====
=
2305 pci@8,700000/fibre-channel@3 c3t22d4s0 SP B3 active alive 0
0
2307 pci@8,700000/lpfc@2 c4t0d4s0 SP A3 active alive 0
0

Pseudo name=emcpower12a
CLARiION ID=CKM00092400246 [aphrodite]
Logical device ID=6006016036702500B4A76E84BAACDE11 [LUN 33]
state=alive; policy=CLAROpt; priority=0; queued-IOs=0
Owner: default=SP A, current=SP B Array failover mode: 1
=====
=
----- Host ----- - Stor - -- I/O Path - -- Stats --
-
### HW Path I/O Paths Interf. Mode State Q-IOs
Errors
=====
=
2305 pci@8,700000/fibre-channel@3 c3t22d1s0 SP B3 active alive 0
0
2307 pci@8,700000/lpfc@2 c4t0d1s0 SP A3 active alive 0
0

Pseudo name=emcpower0a
CLARiION ID=CKM00092400246 [aphrodite]
Logical device ID=6006016036702500BC4BA1672030E311 [LUN 59]
state=alive; policy=CLAROpt; priority=0; queued-IOs=0
Owner: default=SP A, current=SP B Array failover mode: 1
=====
=
----- Host ----- - Stor - -- I/O Path - -- Stats --
-
### HW Path I/O Paths Interf. Mode State Q-IOs
Errors
=====
=
2305 pci@8,700000/fibre-channel@3 c3t22d7s0 SP B3 active alive 0
0
2307 pci@8,700000/lpfc@2 c4t0d7s0 SP A3 active alive 0
0

Pseudo name=emcpower17a
CLARiION ID=CKM00092400246 [aphrodite]
Logical device ID=6006016036702500F01840FBBAACDE11 [LUN 38]
state=alive; policy=CLAROpt; priority=0; queued-IOs=0
Owner: default=SP B, current=SP B Array failover mode: 1
=====
=
----- Host ----- - Stor - -- I/O Path - -- Stats --
-
### HW Path I/O Paths Interf. Mode State Q-IOs
Errors

```

```
=====
=
2305 pci@8,700000/fibre-channel@3 c3t22d6s0 SP B3      active  alive      0
0
2307 pci@8,700000/lpfc@2          c4t0d6s0  SP A3      active  alive      0
0
```

Remarque : contrôler aussi le fichier /etc/powermt.custom.