

Checking HBA status on AIX

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Checking HBA status on AIX

By [Emerson Takahashi](#) on March 2, 2018

Storage team checked and it was not showing light on the fiber

```
Index Slot Port Address Media Speed State Proto
```

```
=====
```

```
=====
```

```
298 3 42 28a280 id N4 In_Sync FC
```

```
314 4 42 28b280 id N4 In_Sync FC
```

```
298 3/42 28a280 Online F 4 G AN A_S4_VIT_aix_HBA5C93
```

```
Emulex HBA 10:00:00:00:c9:86:5c:93
```

```
314 4/42 28b280 Online F 4 G AN A_S4_VIT_aix_HBA5C92
```

```
Emulex HBA 10:00:00:00:c9:86:5c:92
```

Listing HBA cards on AIX

```
root@aix:/ # lsdev -Cc adapter |grep fcs
```

fcs0 Available 01-00 4Gb FC PCI Express Adapter (df1000fe)
fcs1 Available 01-01 4Gb FC PCI Express Adapter (df1000fe)
fcs2 Available 06-00 4Gb FC PCI Express Adapter (df1000fe)
fcs3 Available 06-01 4Gb FC PCI Express Adapter (df1000fe)
fcs4 Available 0B-00 4Gb FC PCI Express Adapter (df1000fe)
fcs5 Available 0B-01 4Gb FC PCI Express Adapter (df1000fe)
fcs6 Available 0I-00 4Gb FC PCI Express Adapter (df1000fe)
fcs7 Available 0I-01 4Gb FC PCI Express Adapter (df1000fe)
fcs8 Available 0K-00 4Gb FC PCI Express Adapter (df1000fe)
fcs9 Available 0K-01 4Gb FC PCI Express Adapter (df1000fe)

Listing the WWPN of the HBA cards

```
root@aix:/ # lsdev -Cc adapter | grep fcs | awk '{print "echo \"$1"
`lscfg -vl \"$1" | grep "Network Address""}' | sh
fcs0 Network Address.....10000000C986EF2E
fcs1 Network Address.....10000000C986EF2F
fcs2 Network Address.....10000000C9865C92
fcs3 Network Address.....10000000C9865C93
fcs4 Network Address.....10000000C986ECDC
fcs5 Network Address.....10000000C986ECDD
fcs6 Network Address.....10000000C986F158
fcs7 Network Address.....10000000C986F159
fcs8 Network Address.....10000000C9865B8C
fcs9 Network Address.....10000000C9865B8D
```


Invalid CRC Count: 0

IP over FC Adapter Driver Information

No DMA Resource Count: 0

No Adapter Elements Count: 0

FC SCSI Adapter Driver Information

No DMA Resource Count: 0

No Adapter Elements Count: 0

No Command Resource Count: 0

IP over FC Traffic Statistics

Input Requests: 0

Output Requests: 0

Control Requests: 0

Input Bytes: 0

Output Bytes: 0

FC SCSI Traffic Statistics

Input Requests: 143103337

Output Requests: 57507565

Control Requests: 1604694

Input Bytes: 2879322009348

Output Bytes: 387479621632

root@aix:/ # fcstat fcs3

Frames: 4294967295 4294967295

Words: 1099511627520 1099511627520

LIP Count: 0

NOS Count: 305070

Error Frames: 0

Dumped Frames: 0

Link Failure Count: 3

Loss of Sync Count: 310

Loss of Signal: 2

Primitive Seq Protocol Error Count: 0

Invalid Tx Word Count: 633

Invalid CRC Count: 0

IP over FC Adapter Driver Information

No DMA Resource Count: 0

No Adapter Elements Count: 0

FC SCSI Adapter Driver Information

No DMA Resource Count: 0

No Adapter Elements Count: 0

No Command Resource Count: 0

IP over FC Traffic Statistics

Input Requests: 0

Output Requests: 0
Control Requests: 0
Input Bytes: 0
Output Bytes: 0

FC SCSI Traffic Statistics

Input Requests: 262598606
Output Requests: 731955157
Control Requests: 736433
Input Bytes: 68507685800533
Output Bytes: 191832750846466

root@aix:/ # lsattr -El fscsi2

attach switch How this adapter is CONNECTED False
dyntrk no Dynamic Tracking of FC Devices True+
fc_err_recov delayed_fail FC Fabric Event Error RECOVERY
Policy True+
scsi_id 0x28b280 Adapter SCSI ID False
sw_fc_class 3 FC Class for Fabric True

#####

errptlmore

lsdev -Cc adapter |grep fcs*

fcs0 Available 11-T1 Virtual Fibre Channel Client Adapter
fcs1 Available 21-T1 Virtual Fibre Channel Client Adapter


```
lscfg -vpl fcs0
```

```
lscfg -vpl fcs1
```

```
lspath | sort -rn | grep hdisk25
```

```
lsattr -El fscsi0 |grep attach
```

```
attach switch How this adapter is CONNECTED False
```

```
lsattr -El fscsi1 |grep attach
```

```
attach switch How this adapter is CONNECTED False
```

```
lsattr -El fcs0
```

```
intr_priority 3 Interrupt priority False
```

```
lg_term_dma 0x800000 Long term DMA True
```

```
max_xfer_size 0x100000 Maximum Transfer Size True
```

```
num_cmd_elems 200 Maximum Number of COMMAND  
Elements True
```

```
sw_fc_class 2 FC Class for Fabric True
```

```
lsattr -El fcs1
```

```
for i in `ls /usr/sbin/lspath |grep scsilawk '{print $2}' |sort |uniq`; do  
echo "$i `ls /usr/sbin/lspath |awk '/'$i' / {'print $2}' |wc -l`;done
```

```
fcstat fcs0
```

```
fcstat fcs1
```

```
ksh check_hba.sh
```

```
ksh check_depth.sh
```

```
ksh check_attr.sh
```

```
for i in `ls /usr/sbin/ | grep scsilawk '{print $2}' | sort | uniq`; do  
echo "$i `ls /usr/sbin/ | grep lawk '/'$i' / {print $2}' | wc -l`"; done
```

```
fcstat fcs0
```

```
fcstat fcs1
```

```
ksh check_hba.sh
```

```
ksh check_depth.sh
```

```
ksh check_attr.sh
```

```
pm_rdev.sh
```

```
lsdev -Cc fcs
```

```
lsdev -Cc disk
```

```
lsdev -Cc fsc
```

```
lspath | sort -rn
```

```
rmdev -Rdl fcs1
```

```
pm_rdev.sh
```

```
cfgmgr
```

```
pm_rdev.sh
```

```
lspath | more
```

```
lspv
cfgmgr -vv
lspv
errpt | more
lspath
lspath | sort -r -n
```

```
for i in `ls -l /usr/sbin | grep scsilawk | sort -k 2 | sort -n | uniq`; do
echo "$i `ls -l /usr/sbin | grep scsilawk | sort -k 2 | sort -n | uniq`";done
```

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