* How to check HBA host and its corresponding WWPN?
* How do I lookup WWN of installed HBAs?
* How do I locate the world wide number of an hba WWPN (world wide port name)?
* How do I locate the world wide name of an hba?
* How to find out which Port Name is being used by an HBA Fibre Channel port?
* I need to associated my HBA ports WWPN within the Fibre Channel switch. How can I found out the correct name?

**Solution:**

The wwpn (world wide port name) and companion wwnn (world wide node name) of an hba within the current configuration are available within the sysfs tree, can be found using a find command and viewed either via systool command from sysfsutils package (#yum install sysfsutils), or via simple grep command:

$ find /sys/class/fc\_host/\*/ -name 'port\_name' << retrieve path to wwpn entry

$ find /sys/class/fc\_host/\*/ -name 'node\_name' << retrieve path to wwnn entry

$ grep -v "zZzZ" -H /sys/class/fc\_host/host\*/\*\_name

/sys/class/fc\_host/host6/fabric\_name:0x100000051e900105 << switch port name, wwpn

/sys/class/fc\_host/host6/node\_name:0x200000e08b87de9a << HBA node name, wwnn

/sys/class/fc\_host/host6/port\_name:0x210000e08b87de9a << HBA port name, wwpn

/sys/class/fc\_host/host6/symbolic\_name:QLE2462 FW:v7.03.00 DVR:v8.07.00.18.07.2-k

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In the case where it is insufficient to know just the WWNN/WWPN that exists for a scsi host and it is desired

To know the actual pci address assigned to a particular scsi host -- then the following can be used:

$ find ./sys/devices -type d -name 'host\*' | egrep -v "host\_busy|fc\_host|scsi\_host" | sort

./sys/devices/pci0000:00/0000:00:01.0/0000:04:00.0/host4

./sys/devices/pci0000:00/0000:00:04.0/0000:08:00.0/host10

./sys/devices/pci0000:00/0000:00:05.0/0000:0b:00.0/host5

./sys/devices/pci0000:00/0000:00:07.0/0000:0e:00.0/host8

./sys/devices/pci0000:00/0000:00:07.0/0000:0e:00.1/host9

./sys/devices/pci0000:00/0000:00:0a.0/0000:14:00.0/host6 << card pci address for host6/scsi6

./sys/devices/pci0000:00/0000:00:0a.0/0000:14:00.1/host7

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$ systool -c fc\_host -v

Class = "fc\_host"

Class Device = "host6"

Class Device path = "/sys/devices/pci0000:00/0000:00:0a.0/0000:14:00.0/host6/fc\_host/host6"

dev\_loss\_tmo = "45"

fabric\_name = "0x100000051e900105" << switch port name, wwpn

issue\_lip =

max\_npiv\_vports = "127"

node\_name = "0x200000e08b87de9a" << HBA node name, wwnn

npiv\_vports\_inuse = "0"

port\_id = "0x010300"

port\_name = "0x210000e08b87de9a" << HBA port name, wwpn

port\_state = "Online"

port\_type = "NPort (fabric via point-to-point)"

speed = "4 Gbit"

supported\_classes = "Class 3"

supported\_speeds = "1 Gbit, 2 Gbit, 4 Gbit"

symbolic\_name = "QLE2462 FW:v7.03.00 DVR:v8.07.00.18.07.2-k"

system\_hostname = ""

tgtid\_bind\_type = "wwpn (World Wide Port Name)"

uevent =

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How do I find the port\_name(WWPN) and node\_name(WWNN) of a configured HBA in Red Hat Enterprise Linux ?

**For port\_name:**

$ cat /sys/class/fc\_host/host2/port\_name

0x21000024ff2d1234

**For node\_name:**

cat /sys/class/fc\_host/host2/node\_name

0x20000024ff2d1234

Or use

systool -c fc\_host -v

**Summary:**

HBA : Host Bus Adapter

To access SAN Storage Devices using Fibre Channel

Two HBA cards are redundancy

Use Multiple SAN Switches

lspci | grephba

What configuration files are mapped for these HBA devices

cd /sys/class/fc\_host

ls -ltr

host0 and host1

cd host0 and ls -l to chek all attributes of HBA

ls -l /sys/class/fc\_host/host\*/port\_name

What is port ID:

To check port ID:

#systools -c fc\_host -A "port\_id"

ex:- 0x740f00

if it print all zero's then it is not connected to SAN

#systool -cc fc\_transport -v

Port Name: is wwwn number of HBA

check for device path

#lspci | grep -i hba

To know WWWN of HBA

systool -c fc\_host -A "port\_name"

You may need to provide wwwn of HBA to storage team to map LUNs

systool -c fc\_host -A "port\_state"