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PowerPath Powermt Commands - EMC



0 comments

There are 10 major command to check the POWER PATH config on HP UX servers. Please follow the below commands

- 1.powermt display ====>Display High Level HBA I/O Paths
- 2.powermt display dev=emcpowera ====>Display for specific LUN
- 3.powermt display dev=all ====> Display All Attached LUNs
- 4.powermt check_registration ====> Display PowerPath Registration Key / Status
- 5.powermt display options ====> Display EMC PowerPath Options
- 6.powermt display hba_mode ====> Display PowerPath HBA Mode
- 7.powermt display paths - Display available I/O Paths.
- 8.powermt displays port_mode ====>Display Port Status
- 9.powermt version ====> Display EMC PowerPath Version
- 10.powermt check ====>Check the I/O Paths

1. #powermt display ====>Display High Level HBA I/O Paths

Ex. o/p:

```
Symmetrix logical device count=212
CLARiiON logical device count=0
Hitachi logical device count=0
Invista logical device count=0
HP xp logical device count=0
Ess logical device count=0
HP HSx logical device count=0
```

```
=====
----- Host Bus Adapters ----- I/O Paths ----- Stats -----
### HW Path                Summary Total Dead IO/Sec Q-IOs Errors
=====
 3 0/4/0/0/0/1             optimal  424   0   -   0  848
 5 0/5/0/0/0/1             optimal  424   0   -   0  848
```

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2. #powermt display dev=emcpowera ===> Display specific LUN

When there are multiple LUNs connected to a server, you might want to view information about a specific LUN by providing the logical name of the LUN as shown below.

3.#powermt display dev=all ===> Display All Attached LUNs

Mostly we used to run this command powermt, which will display all the attached logical devices to the server.

Pseudo name=disk915

Symmetrix ID=000290103691

Logical device ID=06B8

state=alive; policy=SymmOpt; priority=0; queued-I/Os=0;

```
=====
----- Host ----- - Stor - -- I/O Path -- -- Stats ---
### HW Path          I/O Paths  Interf.  Mode  State  Q-I/Os  Errors
=====
  3 0/4/0/0/1.0x5006048c52a862e7.0x40a6000000000000 c14t4d6  FA  8cB
active alive      0    2
  3 0/4/0/0/1.0x5006048c52a862f7.0x40a6000000000000 c15t4d6  FA  8dB
active alive      0    2
  5 0/5/0/0/1.0x5006048c52a862e8.0x40a6000000000000 c16t4d6  FA  9cB
active alive      0    2
  5 0/5/0/0/1.0x5006048c52a862f8.0x40a6000000000000 c17t4d6  FA  9dB
active alive      0    2
```

Pseudo name=disk988

Symmetrix ID=000290103691

Logical device ID=074B

state=alive; policy=SymmOpt; priority=0; queued-I/Os=0;

```
=====
----- Host ----- - Stor - -- I/O Path -- -- Stats ---
### HW Path          I/O Paths  Interf.  Mode  State  Q-I/Os  Errors
=====
  5 0/5/0/0/1.0x5006048c52a862e8.0x40dc000000000000 c16t11d4  FA  9cB
active alive      0    2
  3 0/4/0/0/1.0x5006048c52a862e7.0x40dc000000000000 c14t11d4  FA  8cB
active alive      0    2
  3 0/4/0/0/1.0x5006048c52a862f7.0x40ce000000000000 c15t9d6   FA  8dB
active alive      0    2
  5 0/5/0/0/1.0x5006048c52a862f8.0x40ce000000000000 c17t9d6   FA  9dB
active alive      0    2
```

Details:

a. Pseudo name=emcpowera - The device name that can be used by the server. For example, /dev/emcpowera.

b. CLARiiON ID=AAA0000000000 [dev-server] - EMC CLARiiON CX3 serial number and the server name.

c. Logical device ID=11111111 [LUN 1] - LUN number. For example, LUN 1.

d. state=alive; policy=CLAROpt; - This displays that this particular LUN is valid and using the CLAROpt policy.

e. Owner: default=SP B, current=SP B - This indicates that the default (and

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current) owner for
this LUN is storage processor SP B.

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4. powermt check_registration – Display PowerPath Registration Key / Status

If you've lost the PowerPath registration key that you've used during the EMC PowerPath installation, you can retrieve it using the following command.

```
# powermt check_registration
Key AAAA-BBBB-CCCC-DDDD-EEEE-FFFF
Product: PowerPath
Capabilities: All
```

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5. #powermt display options ==> Display EMC PowerPath Options

Displays the high level EMC SAN array options as shown below.

6.#powermt display hba_mode ==> Display PowerPath HBA Mode

This is similar to #1, but displays whether hba is enabled or not, as shown in the last column of the output.

Examble output:

```
Symmetrix logical device count=212
CLARiiON logical device count=0
Hitachi logical device count=0
Invista logical device count=0
HP xp logical device count=0
Ess logical device count=0
HP HSx logical device count=0
```

```
=====
----- Host Bus Adapters ----- I/O Paths ----- Stats
### HW Path          Summary Total  Dead  Q-I/Os Mode
=====
  3 0/4/0/0/0/1      optimal  424   0   0 Enabled
  5 0/5/0/0/0/1      optimal  424   0   0 Enabled
```

7.powermt display paths ==> Display available I/O Paths.

This displays all available path for your SAN device.

8.powermt displays port_mode ==>Display Port Status

Displays the status of the individual ports on the HBA. i.e Whether the port is enabled or not.

9.powermt version ==> Display EMC PowerPath Version

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10.powermt check ==>Check the I/O Paths

If we made changes to the HBA's, or I/O paths, then run the powermt check, to take appropriate action. For example, if you manually removed an I/O path, check command will detect a dead path and remove it from the EMC path list.



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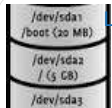
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