



HP-UX Host Utilities

ONTAP SAN Host Utilities

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HP-UX Host Utilities

HP-UX Host Utilities Release Notes

The release notes describe new features and enhancements, fixed issues, known issues, limitations, and important cautions related to configuring and managing your specific HP-UX host with your ONTAP storage system.

What's new in HP-UX Host Utilities 6.0

There are no new features and enhancements.

HP-UX Host Utilities 6.0 supports the following HP-UX OS versions:

- HP-UX 11iv2
- HP-UX 11iv3

Known issues and limitations

There are no known issues or limitations.

What's next?

[Learn about installing HP-UX Host Utilities](#)

Install HP-UX Host Utilities 6.0 for ONTAP storage

The HP-UX Host Utilities help you manage ONTAP storage attached to an HP-UX host. NetApp strongly recommends installing the HP-UX Host Utilities, but it isn't mandatory. The utilities improve management and assist NetApp customer support in gathering information about your configuration.

The HP-UX Host Utilities support the following environments:

- Native Microsoft Multipath I/O (MPIO)
- Veritas Dynamic Multipathing (DMP)

Before you begin

For reliable operation, use the [Interoperability Matrix Tool](#) to verify that your iSCSI, FC, or FCoE configuration is supported.

Steps

1. Log in to your HP-UX host host.
2. Download the HP-UX Host Utilities file `netapp_hpux_host_utilities_6.0_ia_pa.depot.gz` from the [NetApp Support Site](#) to your HP-UX host.
3. Decompress the `netapp_hpux_host_utilities_6.0_ia_pa.depot.gz` file:

```
gunzip netapp_hpux_host_utilities_6.0_ia_pa.depot.gz
```

The system places the extracted software in the directory where you uncompressed the depot file.

4. Install the software:

```
swinstall -s /depot_path
```

`depot_path` provides the path and name of the depot file.

The `swinstall` command runs an installation script that verifies the status of your HP-UX setup. If your system meets the requirements, this script installs the `sanlun` utility and diagnostic scripts in the `/opt/NetApp/santools/bin` directory.

5. Verify the installation:

```
sanlun version
```

What's next?

[Learn about the SAN Toolkit.](#)

Learn about the SAN Toolkit for ONTAP storage

HP-UX Host Utilities is a NetApp host software that provides a command line toolkit on your HP-UX host. The toolkit is installed when you install the NetApp Host Utilities package. This kit provides the `sanlun` utility, which helps you manage ONTAP LUNs and host bus adapters. The `sanlun` command returns information about the LUNs mapped to your host, multipathing, and information necessary to create initiator groups.

In the following example, the `sanlun lun show` command returns ONTAP LUN information.

```
# sanlun lun show all
```

```
controller(7mode)/ device host lun
vserver(Cmode)      lun-pathname      filename
adapter  protocol  size  mode
-----
sanboot_unix      /vol/hpux_boot/boot_hpux_lun      /dev/rdisk/c34t0d0
fclp1      FCP      150g  C
sanboot_unix      /vol/hpux_boot/boot_hpux_lun      /dev/rdisk/c23t0d0
fclp1      FCP      150g  C
sanboot_unix      /vol/hpux_boot/boot_hpux_lun      /dev/rdisk/c12t0d0
fclp0      FCP      150g  C
sanboot_unix      /vol/hpux_boot/boot_hpux_lun      /dev/rdisk/c81t0d0
fclp0      FCP      150g  C
```



This SAN toolkit is common across all Host Utilities configurations and protocols. As a result, all of the components don't apply to every configuration. Unused components don't affect your system performance.

The SAN Toolkit is supported on AIX and PowerVM/VIOS OS versions.

What's next?

[Learn about using the HP-UX Host Utilities tool.](#)

Use HP-UX Host Utilities commands to verify ONTAP storage configuration

Use the HP-UX Host Utilities 6.0 sample command reference for an end-to-end validation of the ONTAP storage configuration using the Host Utilities tool.

List all host initiators mapped to host

Retrieve a list of all host initiators mapped to a host.

```
sanlun fcp show adapter -v
```

Show example output

```
adapter name:      fclp2
WWPN:              10000000c985ef92
WWNN:              20000000c985ef92
driver name:       fclp
model:             AJ763-63001
model description: HP 8Gb Dual Channel PCI-e 2.0 FC HBA
serial number:     MY19034N9U
hardware version:  3
driver version:    @(#) FCLP: PCIe Fibre Channel driver (FibrChanl-02),
B.11.31.1805, Feb 5 2018, FCLP_IFC (3,2)
firmware version:  2.02X2 SLI-3 (U3D2.02X2)
Number of ports:   1 of 2
port type:         Unknown
port state:        Link Down
supported speed:   8 GBit/sec
negotiated speed:  Speed not established
OS device name:    /dev/fclp2

adapter name:      fclp3
WWPN:              10000000c985ef93
WWNN:              20000000c985ef93
driver name:       fclp
model:             AJ763-63001
model description: HP 8Gb Dual Channel PCI-e 2.0 FC HBA
serial number:     MY19034N9U
hardware version:  3
driver version:    @(#) FCLP: PCIe Fibre Channel driver (FibrChanl-02),
B.11.31.1805, Feb 5 2018, FCLP_IFC (3,2)
firmware version:  2.02X2 SLI-3 (U3D2.02X2)
Number of ports:   2 of 2
port type:         Unknown
port state:        Link Down
supported speed:   8 GBit/sec
negotiated speed:  Speed not established
OS device name:    /dev/fclp3
```

List all LUNs mapped to host

Retrieve a list of all LUNs mapped to a host.

```
sanlun lun show -p -v all
```

Show example output

```
\
                                ONTAP Path:
vs_hp_cluster:/vol/chathpux_217_vol_en_1_10/hp_en_217_lun
                                LUN: 55
                                LUN Size: 15g
                                Host Device: /dev/rdisk/disk718
                                Mode: C
                                VG: /dev/vg_data
                                Multipath Policy: A/A
                                Multipath Provider: Native
```

```
-----
-----
host      vsserver    /dev/dsk
HP A/A
path      path          filename          host      vsserver
path failover
state     type          or hardware path  adapter  LIF
priority
-----
-----
up        primary    /dev/dsk/c37t6d7  fclp0    hpux_7
0
up        primary    /dev/dsk/c22t6d7  fclp1    hpux_8
0
up        secondary /dev/dsk/c36t6d7  fclp0    hpux_5
1
up        secondary /dev/dsk/c44t6d7  fclp1    hpux_6
1
```

List all LUNs mapped to host from a given SVM

Retrieve a list of all LUNs mapped to a host from a specific SVM.

```
sanlun lun show -p -v vs_hp_cluster
```

Show example output

```
ONTAP Path:
vs_hp_cluster:/vol/chathpux_217_vol_en_1_10/hp_en_217_lun
  LUN: 55
  LUN Size: 15g
  Host Device: /dev/rdisk/disk718
  Mode: C
  VG: /dev/vg_data
  Multipath Policy: A/A
  Multipath Provider: Native
```

```
-----
-----
host      vservers  /dev/dsk
HP A/A
path      path      filename      host      vservers
path failover
state     type      or hardware path  adapter LIF
priority
-----
-----
up        primary   /dev/dsk/c37t6d7  fclp0    hpux_7
0
up        primary   /dev/dsk/c22t6d7  fclp1    hpux_8
0
up        secondary /dev/dsk/c36t6d7  fclp0    hpux_5
1
up        secondary /dev/dsk/c44t6d7  fclp1    hpux_6
1
```

List all attributes of a given LUN mapped to host

Retrieve a list of all attributes of a specified LUN mapped to a host.

```
sanlun lun show -p -v
vs_hp_cluster:/vol/chathpux_217_vol_en_1_5/hp_en_217_lun
```


Show example output

```
ONTAP Path:
vs_hp_cluster:/vol/chathpux_217_vol_en_1_5/hp_en_217_lun
  LUN: 49
  LUN Size: 15g
  Host Device: /dev/rdisk/disk712
  Mode: C
  VG: /dev/vg_data
  Multipath Policy: A/A
  Multipath Provider: Native
```

```
-----
-----
host      vserver    /dev/dsk
HP A/A
path      path      filename      host      vserver
path failover
state     type      or hardware path  adapter LIF
priority
-----
-----
up        primary   /dev/dsk/c37t6d1  fclp0    hpux_7
0
up        primary   /dev/dsk/c22t6d1  fclp1    hpux_8
0
up        secondary /dev/dsk/c36t6d1  fclp0    hpux_5
1
up        secondary /dev/dsk/c44t6d1  fclp1    hpux_6
1
```

List ONTAP LUN attributes by host device filename

Retrieve a list of ONTAP LUN attributes by a specified host device filename.

```
sanlun lun show -dv /dev/rdisk/disk716
```

Show example output

```

                                                                    device
host          lun
vserver       lun-pathname
filename      adapter  protocol  size    mode
-----
-----
vs_hp_cluster /vol/chathpux_217_vol_en_1_14/hp_en_217_lun
/dev/rdisk/disk716 0          FCP      15g    C
    LUN Serial number: 80D71?NiNP5U
    Controller Model Name: AFF-A800
    Vserver FCP nodename: 208400a098ba7afe
    Vserver FCP portname: 207e00a098ba7afe
    Vserver LIF name: hpux_5
    Vserver IP address: 10.141.54.30
                        10.141.54.35
                        10.141.54.37
                        10.141.54.33
                        10.141.54.31
    Vserver volume name: chathpux_217_vol_en_1_14
MSID::0x00000000000000000000000000000000080915935
    Vserver snapshot name:
```

List all SVM target LIF WWPNS attached to host

Retrieve a list of all SVM target LIF WWPNS attached to a host.

```
sanlun lun show -wwpn
```

Show example output

```
controller(7mode)/
vserver(Cmode)      target wwpn          lun-pathname
device filename
-----
-----
vs_hp_cluster      208300a098ba7afe
/vol/chathpux_217_vol_en_1_10/hp_en_217_lun  /dev/rdisk/c22t6d7
vs_hp_cluster      208100a098ba7afe
/vol/chathpux_217_vol_en_1_10/hp_en_217_lun  /dev/rdisk/c44t6d7
vs_hp_cluster      208200a098ba7afe
/vol/chathpux_217_vol_en_1_10/hp_en_217_lun  /dev/rdisk/c37t6d7
vs_hp_cluster      207e00a098ba7afe
/vol/chathpux_217_vol_en_1_10/hp_en_217_lun  /dev/rdisk/c36t6d7
vs_hp_cluster      207d00a098ba7afe  /vol/chathpux_217_os/hp_217_os
/dev/rdisk/c18t7d4
vs_hp_cluster      207f00a098ba7afe  /vol/chathpux_217_os/hp_217_os
/dev/rdisk/c42t7d4

host adapter      lun size      mode
-----
fclp1             15g           C
fclp1             15g           C
fclp0             15g           C
fclp0             15g           C
fclp1             30g           C
fclp0             30g           C
```

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