HP-UX Host Utilities

ONTAP SAN Host Utilities

NetApp
January 30, 2026

Table of Contents

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/rdsk/c34t0d0
fclp1      FCP        150g    C
sanboot_unix         /vol/hpux_boot/boot_hpux_lun      /dev/rdsk/c23t0d0
fclp1      FCP        150g    C
sanboot_unix         /vol/hpux_boot/boot_hpux_lun      /dev/rdsk/c12t0d0
fclp0      FCP        150g    C
sanboot_unix         /vol/hpux_boot/boot_hpux_lun      /dev/rdsk/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     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/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     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/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: 80D7l?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::0x00000000000000000000000080915935
         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/rdsk/c22t6d7
vs_hp_cluster        208100a098ba7afe
/vol/chathpux_217_vol_en_1_10/hp_en_217_lun   /dev/rdsk/c44t6d7
vs_hp_cluster        208200a098ba7afe
/vol/chathpux_217_vol_en_1_10/hp_en_217_lun   /dev/rdsk/c37t6d7
vs_hp_cluster        207e00a098ba7afe
/vol/chathpux_217_vol_en_1_10/hp_en_217_lun   /dev/rdsk/c36t6d7
vs_hp_cluster        207d00a098ba7afe   /vol/chathpux_217_os/hp_217_os
/dev/rdsk/c18t7d4
vs_hp_cluster        207f00a098ba7afe   /vol/chathpux_217_os/hp_217_os
/dev/rdsk/c42t7d4

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

Copyright information

Trademark information