Install Solaris Host Utilities

ONTAP SAN Host Utilities

NetApp
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Install Solaris Host Utilities

Install Solaris Host Utilities 8.0 for ONTAP storage

The Solaris Host Utilities help you manage ONTAP storage attached to a Solaris host and assist technical support with gathering configuration data.

The Solaris Host Utilities support the following Solaris environments and transport protocols. These are the primary supported environments:

- The native OS with Oracle Solaris I/O Multipathing (MPxIO) and either the FC or iSCSI protocol on a system using either a SPARC or x86/64 processor.
- Veritas Dynamic Multipathing (DMP) with the FC or iSCSI protocol on a system using a SPARC processor.

Solaris Host Utilities 8.0 support the Solaris 11.4 series.

Before you begin

Verify that your iSCSI, FC, or FCoE configuration is supported. You can use the Interoperability Matrix Tool to verify your configuration.

Steps

1. Log in to your host as root.
2. Download a copy of the compressed file containing the Host Utilities from the NetApp Support Site to a directory on your host.

   SPARC CPU

   ```
   netapp_solaris_host_utilities_8_0_sparc.tar.gz
   ```

   x86/x64 CPU

   ```
   netapp_solaris_host_utilities_8_0_amd.tar.gz
   ```

3. Go to the directory on your host containing the download.
4. Unzip the file using the `gunzip` command, and then extract the file using `tar -xvf`:

   ```
   gunzip netapp_solaris_host_utilities_8_0_sparc.tar.gz
   ```

   ```
   tar -xvf netapp_solaris_host_utilities_8_0_sparc.tar
   ```

5. Add the packages that you extracted from the tar file to your host:

```
pkgadd
```

The packages are added to the `/opt/NTAP/SANToolkit/bin` directory.

The following example uses the `pkgadd` command to install the Solaris installation package:

```
pkgadd -d ./NTAPSANTool.pkg
```

6. Confirm that the toolkit was successfully installed by using the following command to the installed path:

```
pkgchk
```

Show example output

```
# pkgchk -l -p /opt/NTAP/SANToolkit

Pathname: /opt/NTAP/SANToolkit
Type: directory
Expected mode: 0755
Expected owner: root
Expected group: sys
Referenced by the following packages: NTAPSANTool
Current status: installed

# ls -alR /opt/NTAP/SANToolkit
/opt/NTAP/SANToolkit:
total 1038
drwxr-xr-x   3 root     sys            4 Mar  7 13:11 .
drwxr-xr-x   3 root     sys            3 Mar  7 13:11 ..
drwxr-xr-x   2 root     sys            6 Mar 17 18:32 bin
-r-xr-xr-x   1 root     sys       432666 Dec 31 13:23 NOTICES.PDF

/opt/NTAP/SANToolkit/bin:
total 3350
drwxr-xr-x   2 root     sys            6 Mar 17 18:32 .
drwxr-xr-x   3 root     sys            4 Mar  7 13:11 ..
-r-xr-xr-x   1 root     sys      1297000 Feb  7 22:22 host_config
-r-xr-xr-x   1 root     root         996 Mar 17 18:32 san_version
-r-xr-xr-x   1 root     sys       309700 Feb  7 22:22 sanlun
-r-xr-xr-x   1 root     sys          677 Feb  7 22:22 vidpid.dat

# cd /usr/share/man/man1; ls -al host_config.1 sanlun.1
-r-xr-xr-x   1 root     sys        12266 Feb  7 22:22 host_config.1
-r-xr-xr-x   1 root     sys         9044 Feb  7 22:22 sanlun.1
```

7. Configure the host parameters for your "MPxIO" or "Veritas DMP" environment by using the `/opt/NTAP/SANToolkit/bin/host_config` command with the multipath stack from the command reference:

   ```
   /opt/NTAP/SANToolkit/bin/host_config -setup -protocol fcp|iscsi|mixed
   -multipath mpxio|dmp|non [-noalua] [-mcc 60|90|120]
   ```

For example, if your setup is…	Use the command…
FCP with multipath as MPxIO	`#/opt/NTAP/SANToolkit/bin/host_config -setup -protocol fcp -multipath mpxio` For information on the configuration changes for SnapMirror active sync, see the Knowledge Base article Solaris Host support recommended settings in SnapMirror active sync (formerly SM-BC) configuration.
FCP with multipath as DMP	`#/opt/NTAP/SANToolkit/bin/host_config -setup -protocol fcp -multipath dmp`
FCP on MetroCluster with multipath as MPxIO, and the All Paths Down value is set to 120s. (This is the recommended setting for MetroCluster configurations).	`#/opt/NTAP/SANToolkit/bin/host_config -setup -protocol fcp -multipath mpxio -mcc 120` For more information, see the Knowledge Base article Solaris host support considerations in a MetroCluster configuration.

8. Reboot the host.

   The Host Utilities load the following NetApp recommended timeout parameter settings for ONTAP LUNs.

   Show example

```
#prtconf -v |grep NETAPP
   value='NETAPP  LUN' +
   physical-block-size:4096,
   retries-busy:30,
   retries-reset:30,
   retries-notready:300,
   retries-timeout:10,
   throttle-max:64,
   throttle-min:8,
   disksort:false,
   cache-nonvolatile:true'
```

9. Verify the Host Utilities installation:

```
sanlun version
```

What's next?

Learn about the SAN Toolkit.

Install Solaris Host Utilities 6.2 for ONTAP storage

The Solaris Host Utilities help you manage ONTAP storage attached to a Solaris host and assist technical support with gathering configuration data.

The Solaris Host Utilities support several Solaris environments and multiple transport protocols. These are the primary Solaris Host Utilities environments:

- The native OS with MPxIO and either the Fibre Channel (FC) or iSCSI protocol on a system using either a SPARC processor or an x86/64 processor.
- Veritas Dynamic Multipathing (DMP) with either the FC or iSCSI protocol on a system using a SPARC processor, or the iSCSI protocol on a system using an x86/64 processor.

The Solaris Host Utilities 6.2 support the following Solaris series:

- Solaris 11.x
- Solaris 10.x

Before you begin

Verify that your iSCSI, FC, or FCoE configuration is supported. You can use the Interoperability Matrix Tool to verify your configuration.

Steps

1. Log in to your host as root.
2. Download a copy of the compressed file containing the Host Utilities from the NetApp Support Site to a directory on your Solaris host:

   SPARC CPU

   ```
   netapp_solaris_host_utilities_6_2_sparc.tar.gz
   ```

   x86/x64 CPU

   ```
   netapp_solaris_host_utilities_6_2_amd.tar.gz
   ```

3. Go to the directory on your Solaris host containing the download.
4. Unzip the file using the `gunzip` command:

   ```
   gunzip netapp_solaris_host_utilities_6_2_sparc.tar.gz
   ```

5. Extract the file using the `tar xvf` command:

```
tar xvf netapp_solaris_host_utilities_6_2_sparc.tar
```

6. Add the packages that you extracted from tar file to your host

```
pkgadd
```

The packages are added to the `/opt/NTAP/SANToolkit/bin` directory.

The following example uses the `pkgadd` command to install the Solaris installation package:

```
pkgadd -d ./NTAPSANTool.pkg
```

7. Confirm that the toolkit was successfully installed by using one of the following commands:

```
pkginfo
```

```
ls - al
```

Show example outputs

```
# ls -alR /opt/NTAP/SANToolkit
/opt/NTAP/SANToolkit:
total 1038
drwxr-xr-x   3 root     sys            4 Jul 22  2019 .
drwxr-xr-x   3 root     sys            3 Jul 22  2019 ..
drwxr-xr-x   2 root     sys            6 Jul 22  2019 bin
-r-xr-xr-x   1 root     sys       432666 Sep 13  2017 NOTICES.PDF

/opt/NTAP/SANToolkit/bin:
total 7962
drwxr-xr-x   2 root     sys            6 Jul 22  2019 .
drwxr-xr-x   3 root     sys            4 Jul 22  2019 ..
-r-xr-xr-x   1 root     sys      2308252 Sep 13  2017 host_config
-r-xr-xr-x   1 root     sys          995 Sep 13  2017 san_version
-r-xr-xr-x   1 root     sys      1669204 Sep 13  2017 sanlun
-r-xr-xr-x   1 root     sys          677 Sep 13  2017 vidpid.dat

# (cd /usr/share/man/man1; ls -al host_config.1 sanlun.1)
-r-xr-xr-x   1 root     sys        12266 Sep 13  2017 host_config.1
-r-xr-xr-x   1 root     sys         9044 Sep 13  2017 sanlun.1
```

8. Configure the host parameters for your MPxIO or Veritas DMP environment:

```
/opt/NTAP/SANToolkit/bin/host_config
```

9. Verify the installation:

```
sanlun version
```

What's next?

Learn about the SAN Toolkit.

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