Install AIX Host Utilities

ONTAP SAN Host Utilities

NetApp
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Install AIX Host Utilities

Install AIX Host Utilities 8.0 for ONTAP storage

The AIX Host Utilities help you manage ONTAP storage attached to an AIX host. NetApp strongly recommends installing the AIX Host Utilities to improve ONTAP storage management and assist NetApp support in gathering information about your configuration.

AIX Host Utilities 8.0 supports the following transport protocols and AIX environments:

- FC, FCoE, and iSCSI
- AIX Multipath I/O (MPIO)
- PowerVM

  For information about PowerVM, see the IBM PowerVM Live Partition Mobility Red Book.

About this task

- You need to install the AIX Host Utilities SAN Toolkit with AIX MPIO to manage ONTAP storage attached to an AIX host.
- When you install AIX Host Utilities, they don't change any settings on your AIX host.

Before you begin

- Use the Interoperability Matrix Tool to verify that your AIX OS, protocol, and ONTAP version support SAN booting.
- Enable dynamic tracking for all FC and FCoE initiators by running the `chdev -l <fscsi_device> -a dyntrk=ye` command on the AIX host.

Steps

1. Log in to your host:

   AIX

   On an AIX host, log in as **root**.

   PowerVM

   On a PowerVM host:

   a. Log in as **padmin**.

   b. Become a root user:

   ```
   oem_setup_env
   ```

2. Go to the NetApp Support Site and download the compressed file containing the Host Utilities to a directory on your host.

3. Go to the directory containing the download.
4. Decompress the file and extract the SAN Toolkit software package:

```
tar -xvf ntap_aix_host_utilities_8.0.tar.gz
```

The `ntap_aix_host_utilities_8.0.` directory is created when you decompress the file. This directory contains one of the following subdirectories: MPIO, NON_MPIO, or SAN_Tool_Kit.

5. Install AIX MPIO:

```
installp -aXYd /var/tmp/ntap_aix_host_utilities_8.0/MPIO
NetApp.MPIO_Host_Utilities_Kit
```

6. Install the SAN Toolkit:

```
installp -aXYd /var/tmp/ntap_aix_host_utilities_8.0/ NetApp.SAN_toolkit
```

7. Reboot the host.
8. Verify the installation:

```
lslpp -l |grep -i netapp
```

Show example output

```
NetApp.MPIO_Host_Utilities_Kit.config
                             8.0.0.0  COMMITTED  NetApp MPIO PCM
Host Utilities
  NetApp.MPIO_Host_Utilities_Kit.fcp
                             8.0.0.0  COMMITTED  NetApp MPIO PCM
Host Utilities
  NetApp.MPIO_Host_Utilities_Kit.iscsi
                             8.0.0.0  COMMITTED  NetApp MPIO PCM
Host Utilities
  NetApp.MPIO_Host_Utilities_Kit.pcmodm
                             8.0.0.0 COMMITTED  NetApp MPIO PCM Host
Utilities
NetApp.SAN_toolkit.sanlun  8.0.0.0 COMMITTED NetApp SAN Toolkit
sanlun
```

9. Confirm that the software version is 8.0.1f0fc74c:

```
sanlun version
```

10. Verify that the SCSI UNMAP `lbp_enabled` parameter has been added to the ODM:

```
odmget -q "uniquetype=disk/fcp/NetAppMPIO" PdAt |grep  "lbp_enabled"
```

Example ouptut

```
attribute = "lbp_enabled"
```

```
odmget -q "uniquetype=disk/fcp/NetAppMPIO and attribute=lbp_enabled"
PdAt`
```

Show example output

```
PdAt:
        uniquetype = "disk/fcp/NetAppMPIO"
        attribute = "lbp_enabled"
        deflt = "true"
        values = "true,false"
        width = ""
        type = "R"
        generic = ""
        rep = "s"
        nls_index = 18
```

What's next?

Learn about the AIX SAN Toolkit.

Install AIX Host Utilities 7.0 for ONTAP storage

The AIX Host Utilities help you manage ONTAP storage attached to an AIX host. NetApp strongly recommends installing the AIX Host Utilities to improve ONTAP storage management and assist NetApp support in gathering information about your configuration.

AIX Host Utilities 7.0 support the following transport protocols and AIX environments:

- FC, FCoE, and iSCSI

- AIX Microsoft Multipath I/O (MPIO)
- PowerVM

  For information about PowerVM, see the IBM PowerVM Live Partition Mobility Red Book.

About this task

- You need to install the AIX Host Utilities SAN Toolkit with AIX MPIO to manage ONTAP storage attached to an AIX host.
- When you install AIX Host Utilities, they don't change any settings on your AIX host.

Before you begin

- Use the Interoperability Matrix Tool to verify that your AIX OS, protocol, and ONTAP version support SAN booting.
- Enable dynamic tracking for all FC and FCoE initiators by running the `chdev -l <fscsi_device> -a dyntrk=ye` command on the AIX host.

Steps

1. Log in to your host.

   AIX

   On an AIX host, log in as **root**.

   PowerVM

   On a PowerVM host:

   a. Log in as **padmin**.

   b. Become a root user:

   ```
   oem_setup_env
   ```

2. Go to the NetApp Support Site and download the compressed file containing the Host Utilities to a directory on your host.
3. Go to the directory containing the download.
4. Decompress the file and extract the SAN Toolkit software package:

   ```
   tar -xvf ntap_aix_host_utilities_7.0.tar.gz
   ```

   The following directory is created when you decompress the file: `ntap_aix_host_utilities_7.0`. This directory contains one of the following subdirectories: MPIO, NON_MPIO, or SAN_Tool_Kit.

5. Install the AIX MPIO:

```
installp -aXYd /var/tmp/ntap_aix_host_utilities_7.0/MPIO
NetApp.MPIO_Host_Utilities_Kit
```

6. Install the SAN Toolkit:

```
installp -aXYd
/var/tmp/ntap_aix_host_utilities_7.0/SAN_Tool_Kit/NetApp.SAN_toolkit
```

7. Reboot the host.
8. Verify the installation:

```
lslpp -l |grep -i netapp
```

```
NetApp.MPIO_Host_Utilities_Kit.config
                             7.0.0.0  COMMITTED  NetApp MPIO PCM Host
Utilities
  NetApp.MPIO_Host_Utilities_Kit.fcp
                             7.0.0.0  COMMITTED  NetApp MPIO PCM Host
Utilities
  NetApp.MPIO_Host_Utilities_Kit.iscsi
                             7.0.0.0  COMMITTED  NetApp MPIO PCM Host
Utilities
  NetApp.MPIO_Host_Utilities_Kit.pcmodm
                             7.0.0.0  COMMITTED  NetApp MPIO PCM Host
Utilities
NetApp.SAN_toolkit.sanlun  7.0.0.0  COMMITTED  NetApp SAN Toolkit sanlun
```

9. Confirm the software version:

```
sanlun version
```

```
7.0.725.3521
```

10. Verify that the SCSI UNMAP `lbp_enabled` parameter is added to the ODM:

```
odmget -q "uniquetype=disk/fcp/NetAppMPIO" PdAt |grep  "lbp_enabled"
```

```
attribute = "lbp_enabled"
```

```
odmget -q "uniquetype=disk/fcp/NetAppMPIO and attribute=lbp_enabled"
PdAt`
```

```
PdAt:
        uniquetype = "disk/fcp/NetAppMPIO"
        attribute = "lbp_enabled"
        deflt = "true"
        values = "true,false"
        width = ""
        type = "R"
        generic = ""
        rep = "s"
        nls_index = 18
```

What's next?

Learn about the AIX SAN Toolkit.

Install AIX Host Utilities 6.1 for ONTAP storage

The AIX Host Utilities help you manage ONTAP storage attached to an AIX host. NetApp strongly recommends installing the AIX Host Utilities to improve ONTAP storage management and assist NetApp support in gathering information about your configuration.

AIX Host Utilities 6.1 support the following transport protocols and AIX environments:

- FC, FCoE, and iSCSI
- AIX Microsoft Multipath I/O (MPIO)
- PowerVM

  For more information about PowerVM, see the IBM PowerVM Live Partition Mobility Red Book.

About this task

- You need to install the AIX Host Utilities SAN Toolkit with AIX MPIO to manage ONTAP storage attached to an AIX host.
- When you install AIX Host Utilities, they don't change any settings on your AIX host.

Before you begin

- Use the Interoperability Matrix Tool to verify that your AIX OS, protocol, and ONTAP version support SAN booting.

- Enable dynamic tracking for all FC and FCoE initiators by running the `chdev -l <fscsi_device> -a dyntrk=ye` command on the AIX host.

Steps

1. Log in to your host.

   AIX

   On an AIX host, log in as **root**.

   PowerVM

   On a PowerVM host:

   a. Log in as **padmin**.

   b. Become a root user:

   ```
   oem_setup_env
   ```

2. Go to the NetApp Support Site and download the compressed file containing the Host Utilities to a directory on your host.
3. Go to the directory containing the download.
4. Decompress the file and extract the SAN Toolkit software package.

   ```
   tar -xvf ntap_aix_host_utilities_6.1.tar.gz
   ```

   The following directory is created when you decompress the file: `ntap_aix_host_utilities_6.1`. This directory will have one of the following subdirectories: MPIO, NON_MPIO, or SAN_Tool_Kit.

5. Install the AIX MPIO:

   ```
   installp -aXYd /var/tmp/ntap_aix_host_utilities_6.1/MPIO
   NetApp.MPIO_Host_Utilities_Kit
   ```

6. Install the SAN Toolkit:

   ```
   installp -aXYd /var/tmp/ntap_aix_host_utilities_6.1/SAN_Tool_Kit
   NetApp.SAN_toolkit
   ```

7. Reboot the host.
8. Verify the installation:

```
sanlun version
```

What's next?

Learn about the AIX SAN Toolkit.

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