



Installing or upgrading SnapDrive for UNIX

Snapdrive for Unix

NetApp
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Installing or upgrading SnapDrive for UNIX

To install SnapDrive for UNIX on your host systems, you must perform certain tasks. Before you begin the installation, you should be aware of various system requirements and configuration considerations.

Decompressing the downloaded software

After you download the SnapDrive for UNIX software package from the NetApp Support Site, you should decompress the file to extract the software for installation.

Steps

1. At the command-line interface (CLI) prompt, enter the following command:

```
uncompress NetApp.snapdrive_aix_5_2.Z
```

For downloading the software, see the NetApp Support Site.

Related information

[NetApp Support](#)

[NetApp Interoperability](#)

Installing SnapDrive for UNIX on an AIX host

You can use the System Management Interface Tool (SMIT) to install SnapDrive for UNIX on the AIX host.

You must ensure that you are logged in as a root user.



You should not delete the directory where SnapDrive for UNIX is installed. If you delete the directory, there can be problems with starting and stopping the daemon.

Steps

1. Download the software from the NetApp Support Site.
2. Change to the directory on which you placed the uncompressed `NetApp.snapdrive_aix_5_2.z` file.
3. Start SMIT by running the following command:

```
smit
```

4. Select the **Software Installation and Maintenance** option.
5. At the next screen, select the **Install and Update Software** menu option.
6. At the Install Software screen, specify the location of the software in one of the following ways:
 - Manually enter the path of the location of the software.
 - Press F4 to display a list of options.

If you want to use the F4 method, complete the following steps:

- a. Press F4.
- b. At the prompt asking which software you want to install, enter:

NetApp.snapdrive.

- c. At the prompt asking whether you want to continue or cancel, press Enter to complete the installation.
7. Verify the software package installation by using the `lspp -l NetApp.snapdrive` command.
8. Complete the setup by configuring SnapDrive for UNIX for the system.

Most of this information is set by default; however, you need to specify the following information:

- a. Login information for the storage system
- b. AutoSupport settings
- c. Set the correct configuration value for the following options, SnapDrive for UNIX based on whether you are using the FC protocol or the iSCSI protocol:

- `default-transport`

Select `FCP` or `iscsi` depending on the protocol.

- `multipathing-type`

For FC, set it to any one of the following values:

- `NativeMPIO`
- `DMP`

For iSCSI, set this to `NativeMPIO` or `DMP`.

Uninstalling SnapDrive for UNIX from an AIX host

You can use System Management Interface Tool (SMIT) to uninstall SnapDrive for UNIX from an AIX system.

Steps

1. Start SMIT by entering the following command:

smit

2. Select the **Software Installation and Maintenance** menu option.
3. On the screen that appears, select the **Software Maintenance and Utilities** menu option.
4. On the next screen, select the **Remove Installed Software** menu option.
5. Remove the software in one of the following ways:
 - Enter the package name `NetApp.snapdrive`. Ensure that the `Preview only` option is set to `no`.
 - Press F4 to display a list of names.

- i. Scroll down the list of names until you reach `NetApp.snapdrive`.
- ii. Select `NetApp.snapdrive` and press Enter.

A prompt message is displayed.

- iii. Select `continue` or `cancel`.
- iv. Press Enter to complete the uninstallation.

The uninstall process places the log file at the following location: `/tmp/snapdrive_uninstall`.

Performing post-installation checks

After the installation is complete, you must perform a few tasks to ensure that SnapDrive for UNIX is installed successfully.

Steps

1. Verify that the installation program has installed all the necessary files on your host.
2. Confirm that the configuration variables in the `snapdrive.conf` file have the correct settings.

For the majority of these variables, the default values should be applicable.

3. Supply SnapDrive for UNIX with the current storage system login information.

When you set up your storage system, you supplied a user login for it. SnapDrive for UNIX needs this login information to work with the storage system.

4. To use role-based access control (RBAC), set the `rbac-method=dfm` variable in the `snapdrive.conf` file.

By default, SnapDrive 4.0 for UNIX and later accesses the storage systems using the root credentials. The RBAC functionality is not turned on.

5. To use HTTPS for a secure connection with the storage system and daemon service, set the `use-https-to-sdu-daemon=on` in the `snapdrive.conf` file.



SnapDrive 5.0 for UNIX and later versions support HTTPS for daemon communication. By default, the option is set to `off`.

6. Install the server certificate that is used by SnapDrive for UNIX in the

`sdu-daemon-certificate-path=/opt/NetApp/snapdrive/snapdrive.pem` path as specified in the `snapdrive.conf` file.

7. Change the default password for the SnapDrive for UNIX daemon service by running the following command:

```
snapdrived passwd
```

8. Check the details of the installed configuration components in `/var/log/sdconfcheck.out`.

Files installed by SnapDrive for UNIX

SnapDrive for UNIX installs multiple files, such as executable files, configuration files, uninstall files, diagnostic files, and man pages, on the host. Through these files you can detect problems, store configuration information for the current version of the product, and so on, in SnapDrive for UNIX.

Related information

[Types of logs](#)

Executables installed by SnapDrive for UNIX

SnapDrive for UNIX installs executables for AIX operating system.

These executables are installed at `/opt/NetApp/snapdrive/bin/snapdrive`.

Configuration files installed by SnapDrive for UNIX

SnapDrive for UNIX installs the `snapdrive.conf` file, which stores configuration information for the current version of the product.

You should modify the `snapdrive.conf` file for your system. If you upgrade your version of SnapDrive for UNIX, it maintains your current `snapdrive.conf` file. The configuration file is available at the following location:

`/opt/NetApp/snapdrive/snapdrive.conf`

Diagnostic files installed by SnapDrive for UNIX

SnapDrive for UNIX installs diagnostic files that help detect problems in SnapDrive for UNIX.

- `/opt/NetApp/snapdrive/diag/snapdrive.dc`
- `/opt/NetApp/snapdrive/diag/filer_info`
- `/opt/NetApp/snapdrive/diag/brocade_info`
- `/opt/NetApp/snapdrive/diag/cisco_info`
- `/opt/NetApp/snapdrive/diag/mcdata_info`
- `/opt/NetApp/snapdrive/diag/SHsupport.pm`
- `/opt/NetApp/snapdrive/diag/Telnet.pm`
- `/opt/NetApp/snapdrive/diag/aix_info`

Man pages installed by SnapDrive for UNIX

SnapDrive for UNIX provides man pages in several formats.

The man pages are available at the following location:

- `/opt/NetApp/snapdrive/docs/snapdrive.dc.1`
- `/opt/NetApp/snapdrive/docs/snapdrive.1`
- `/opt/NetApp/snapdrive/docs/snapdrive.1.html`
- `/opt/NetApp/snapdrive/docs/brocade_info.1`
- `/opt/NetApp/snapdrive/docs/mcdata_info.1`
- `/opt/NetApp/snapdrive/docs/cisco_info.1`
- `/opt/NetApp/snapdrive/docs/filer_info.1`
- `/opt/NetApp/snapdrive/docs/aix_info.1`

Upgrade SnapDrive for UNIX to current version

You can easily upgrade SnapDrive for UNIX to the latest version. As part of the upgrade process, few variables change in the `snapdrive.conf` file. To ensure that SnapDrive for UNIX is functioning correctly, check the various default values in the `snapdrive.conf` file.

To upgrade your current version of SnapDrive for UNIX, you do not have to uninstall it. Instead, you should install the latest version of the software on top of the current version.

When you install a new version, SnapDrive for UNIX checks if you already have a version installed. If you do, it preserves the current `snapdrive.conf` file and renames the version of the file it is installing to `snapdrive.conf.x`. In this way, it avoids overwriting your `snapdrive.conf` file, so you do not lose any customized settings in the file.

By default, SnapDrive for UNIX comments out the variables in the `snapdrive.conf` file. This means it automatically uses the default values for all variables except the ones you customize. If you want to change these values, you must add the variables to your current `snapdrive.conf` file and specify the values you want.



When you perform a patch upgrade, the SnapDrive version in the `snapdrive.conf` file does not change. However, the `snapdrive version` command provides the appropriate version.

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