



# **Upgrade SnapCenter Server and plug-ins**

## SnapCenter Software 6.0

NetApp  
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# Upgrade SnapCenter Server and plug-ins

## Configure SnapCenter to check for available updates

SnapCenter periodically communicates with the NetApp Support Site to notify you of available software updates. You can also create a schedule to specify the interval in which you want to receive information about available updates.

### Steps

1. In the left navigation pane, click **Settings**.
2. In the **Settings** page, click **Software**.

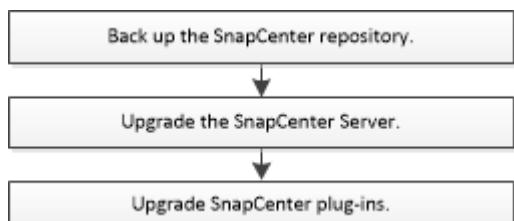
The Available Software page displays the available plug-in packages, versions available, and their installation status.

3. Click **Check for updates** to see if any newer versions of plug-in packages are available.
4. Click **Schedule Updates** to create a schedule to specify the interval in which you want to receive information about available updates:
  - a. Select the interval in **Check for updates**.
  - b. Select the SnapCenter Server Admin Windows credential and click **OK**.

## Upgrade workflow

Each release of SnapCenter contains an updated SnapCenter Server and plug-in package. Plug-in package updates are distributed with the SnapCenter installer. You can configure SnapCenter to check for available updates.

The workflow shows the different tasks required to upgrade the SnapCenter Server and the Plug-in packages.



## Supported upgrade paths

| If you are on SnapCenter Server version... | You can directly upgrade SnapCenter Server to... | Supported plug-in versions  |
|--|--|---|
| 4.9  | 5.0  | <ul style="list-style-type: none"><li>• 4.9</li><li>• 5.0</li></ul> |
|  | 6.0  | <ul style="list-style-type: none"><li>• 6.0</li></ul>               |

| If you are on SnapCenter Server version... | You can directly upgrade SnapCenter Server to... | Supported plug-in versions   |
|--|--|--|
| 5.0  | 6.0  | <ul style="list-style-type: none"> <li>• 5.0</li> <li>• 6.0</li> </ul>   |
|  | 6.0.1  | • 6.0.1  |
| 6.0  | 6.0.1  | <ul style="list-style-type: none"> <li>• 6.0</li> <li>• 6.0.1</li> </ul> |



For example, if you are on SnapCenter version 4.9 and want to upgrade to 6.0.1, you should first upgrade to 5.0 and then do a rolling upgrade to 6.0.



For information about upgrading the SnapCenter Plug-in for VMware vSphere, see [Upgrade SnapCenter Plug-in for VMware vSphere](#).

## Upgrade the SnapCenter Server on Windows host

You should upgrade the SnapCenter Server to access the latest features and enhancements provided in the newest version.

### Before you begin

- The SnapCenter Server host must be up to date with Windows updates, with no pending system restarts.
- Ensure no other operations are running before you start the upgrade.
- Back up the SnapCenter repository (MySQL) database after ensuring that no jobs are running. This is recommended before upgrading SnapCenter Server and the Exchange plug-in.

For information, see [Back up the SnapCenter repository](#).

- Back up all the modified SnapCenter configuration files either on the SnapCenter Server host or the plug-in host.

Examples of SnapCenter configuration files: SnapDriveService.exe.config, SMCoreServiceHost.exe.config, and so on.

- If you have installed multiple versions of custom plug-in in SnapCenter 5.0, before upgrading to 6.0 or later, you should run the powershell cmdlets to remove all the earlier versions of the custom plug-in (except the latest one) from the SnapCenter repository (NSM database).
  - Run `Open-SmConnection` and login using the `SnapCenterAdmin` role credentials
  - Run `Remove-SmPluginPackage -PluginName M<plug-in name> -PluginVersion <version number>`

For more information, refer to [Upgrade to SnapCenter 6.0 or later fails](#).

### About this task

- During upgrade, SnapCenter executes a SQL script to update the Exchange data in the NSM database, converting the DAG and host shortname to FQDN. This applies only if you use SnapCenter Server with the Exchange plug-in.
- If you have manually placed the server host in maintenance mode, after the upgrade select **Hosts > Activate Schedule** to bring the server host out of maintenance mode.
- For SnapCenter Plug-in for Microsoft SQL Server, SnapCenter Plug-in for Microsoft Exchange Server, and SnapCenter Plug-in for Microsoft Windows, it is recommended to upgrade both the server and the plug-in hosts to 4.7 version for the **SCRIPTS\_PATH** to run.

For the existing backup and verification schedules with prescripts and postscripts enabled in the policy, the backup operations will continue to work after upgrade.

In the **Job details** page, a warning message recommends that the customer should copy the scripts to the **SCRIPTS\_PATH** and edit the policy to provide a path that is relative to the **SCRIPTS\_PATH**. For the clone lifecycle job, the warning message appears at the sub-job level.

## Steps

1. Download the SnapCenter Server installation package from the NetApp Support Site.

<https://mysupport.netapp.com/site/products/all/details/snapcenter/downloads-tab>

2. Create a copy of the web.config located at C:\Program Files\NetApp\SnapCenter WebApp.
3. Export the SnapCenter plug-in host schedules from the Windows Task Scheduler to restore them if the upgrade fails.

```
md d:\\SCBackup``schtasks /query /xml /TN taskname >>
"D:\\SCBackup\\taskname.xml"
```

4. Create the SnapCenter MySQL database dump if the repository backup is not configured.

```
md d:\\SCBackup``mysqldump --all-databases --single-transaction --add-drop
-database --triggers --routines --events -u root -p >
D:\\SCBackup\\SCRepoBackup.dmp
```

When prompted, enter the password.

5. Double-click the downloaded .exe file to initiate the SnapCenter Server upgrade.

After you start the upgrade, SnapCenter runs prechecks. If the system does not meet the minimum requirements, SnapCenter shows error or warning messages. Fix any errors before continuing. You can ignore warnings and proceed.



SnapCenter will continue to use the existing MySQL Server repository database password provided during installation of the earlier version of SnapCenter Server.

6. Select **Upgrade**.

If you select **Cancel** at any stage, SnapCenter stops the upgrade. The SnapCenter Server does not roll back to its previous state.

**Best Practice:** Log out and log in again, or open a new browser to access the SnapCenter User Interface.

## After you finish

- If the plug-in is installed using a sudo user, you should copy the sha224 keys available at `C:\ProgramData\NetApp\SnapCenter\Package Repository\sc_unix_plugins_checksum.txt` to update the `/etc/sudoers` file.
- You should perform a fresh discovery of resources on the server host.

If SnapCenter displays the server host status as stopped, wait for some time and perform a fresh discovery. You can also change the value of **HostRefreshInterval** parameter (default value is 3600 seconds) to any value more than 10 minutes.

- If the upgrade fails, clean up the failed installation, reinstall the previous SnapCenter version, and restore the NSM database to its previous state.
- After upgrading the server host, you must also upgrade the plug-ins before adding any storage system.

## Upgrade the SnapCenter Server on Linux host

You can use the SnapCenter Server installer file to upgrade the SnapCenter Server.

### Steps

1. Perform one of the actions to upgrade SnapCenter Server.

| If you want to perform... | Do this...   |
|---------------------------|--|
| Non interactive upgrade   | <pre>sudo ./snapcenter-linux-server-<br/>(el8/el9/sles15).bin -i silent<br/>-DUPGRADE=&lt;value&gt;<br/>-DINSTALL_LOG_NAME=&lt;filename&gt;</pre> <p>Example: <code>sudo ./snapcenter_linux_server.bin -i silent -DUPGRADE=1 -DINSTALL_LOG_NAME=InstallerLog.log</code></p> <p>Logs will be stored at <code>/var/opt/snapcenter/logs</code>.</p> <p>Parameters to be passed for upgrade:</p> <ul style="list-style-type: none"><li>• <code>DINSTALL_LOG_NAME</code>: Log file name where installation logs will be stored.</li><li>• <code>DUPGRADE</code>: The default value is 0. Specify this parameter and its value as any integer other than 0 to upgrade the SnapCenter Server.</li></ul> |
| Interactive installation  | <pre>./snapcenter-linux-server-<br/>(el8/el9/sles15).bin</pre> <p>You will be prompted for upgrade confirmation. Enter any value other than 0 to confirm SnapCenter Server upgrade.</p>  |



You should either log out and then log into SnapCenter, or close and then open a new browser to access SnapCenter GUI.

## Upgrade your plug-in packages

The plug-in packages are distributed as part of the SnapCenter upgrade.

You do not have to manually put each plug-in host that you want to upgrade into maintenance mode because the upgrade procedure places your Windows, Linux, or AIX plug-in hosts into maintenance mode. The maintenance mode prevents any scheduled jobs to be executed on the plug-in host during the upgrade.

### Before you begin

- If you are a non-root user with access to the Linux machines, you should update the `/etc/sudoers` file with the latest checksum values before performing the upgrade operation.
- By default SnapCenter detects `JAVA_HOME` from the environment. If you want to use a fixed `JAVA_HOME` and if you are upgrading the plug-ins on a Linux host, you should manually add the `SKIP_JAVAHOME_UPDATE` parameter in the `spl.properties` file located at `/var/opt/snapcenter/spl/etc/` and set the value to `TRUE`.

The value of `JAVA_HOME` gets updated when the plug-in is upgraded or when the SnapCenter plug-in loader (SPL) service restarts. Before upgrading or restarting the SPL, if you add the `SKIP_JAVAHOME_UPDATE` parameter and set the value to `TRUE`, the value of `JAVA_HOME` is not updated.

- You should have backed up all the SnapCenter configuration files that you have modified either on the SnapCenter Server host or the plug-in host.

Examples of SnapCenter configuration files: `SnapDriveService.exe.config`, `SMCoreServiceHost.exe.config`, and so on.

### About this task

- For SnapCenter Plug-in for Microsoft SQL Server, SnapCenter Plug-in for Microsoft Exchange Server, and SnapCenter Plug-in for Microsoft Windows, it is recommended to upgrade both the server and the plug-in hosts to the latest version for the `SCRIPTS_PATH` to run.

For the existing backup and verification schedules with prescripts and postscripts enabled in the policy, the backup operations will continue to work after upgrade.

In the **Job details** page, a warning message recommends that the customer should copy the scripts to the `SCRIPTS_PATH` and edit the policy to provide a path that is relative to the `SCRIPTS_PATH`. For the clone lifecycle job, the warning message appears at the sub-job level.

### Steps

1. In the left navigation pane, click **Hosts > Managed Hosts**.
2. Upgrade the hosts by performing one of the following tasks:
  - If the Overall Status column displays "Upgrade available" for one of the plug-in hosts, click the plug-in host name and perform the following:
    - a. Click **More Options**.
    - b. Select **Skip prechecks** if you do not want to validate whether the plug-in host meets the

requirements to upgrade the plug-in.

c. Click **Upgrade**.

- If you want to upgrade multiple plug-in hosts, select all the hosts, click  , and then click **Upgrade** > **OK**.

All the related services are restarted during the plug-in upgrade.



All the plug-ins in the package gets selected, but only the plug-ins that were installed with the earlier version of SnapCenter are upgraded, and the remaining plug-ins are not installed. You must use the **Add plug-ins** option to install any new plug-in.

If you have not selected the **Skip prechecks** check box, the plug-in host is validated to see if it meets the requirements to install the plug-in. If the minimum requirements are not met, appropriate error or warning messages are displayed. After fixing the issue, click **Upgrade**.



If the error is related to disk space or RAM, you can update either the web.config located at C:\Program Files\NetApp\SnapCenter WebApp, or the PowerShell config files located at C:\Windows\System32\WindowsPowerShell\v1.0\Modules\SnapCenter\ to modify the default values. If the error is related to remaining parameters then you must fix the issue, and then validate the requirements again.

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