



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

## **SnapCenter software**

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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**.

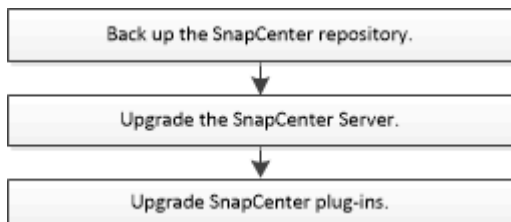
The Available Software page displays the available plug-in packages, versions available, and their installation status.

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 lists the tasks you must complete to upgrade SnapCenter Server and Plug-in packages.



## Supported upgrade paths

This section shows which SnapCenter versions you can upgrade from and which plug-in versions are supported.



If you upgrade SnapCenter Server to 6.2, also upgrade the plug-ins to 6.2.

If you are on SnapCenter Server version...	You can directly upgrade SnapCenter Server to...	Supported plug-in versions
6.0	6.0.1	<ul style="list-style-type: none"> <li>• 6.0</li> <li>• 6.0.1</li> </ul>
	6.1	<ul style="list-style-type: none"> <li>• 6.1</li> </ul>
	6.2	<ul style="list-style-type: none"> <li>• 6.2</li> </ul>
6.0.1	6.1	<ul style="list-style-type: none"> <li>• 6.1</li> </ul>
	6.2	<ul style="list-style-type: none"> <li>• 6.2</li> </ul>
6.1	6.2	<ul style="list-style-type: none"> <li>• 6.2</li> </ul>

To learn how to upgrade 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

- Update the SnapCenter Server host with the latest Windows updates and ensure there are no pending system restarts.
- Ensure no other operations are running before you start the upgrade.
- Install ASP.NET Core Runtime 8.0.12 (and all subsequent 8.0.x patches) Hosting Bundle and PowerShell 7.4.2 or later.
- 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 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.

- 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 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. You can ignore warnings and continue with the installation, but you must fix any errors.



SnapCenter continues 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. It will not rollback the SnapCenter Server to 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 earlier version of SnapCenter, and restore the NSM database to the state it was in before.
- 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- (e18/e19/sles15).bin -i silent -DUPGRADE=&lt;value&gt; -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 <i>/var/opt/snapcenter/logs</i>.</p> <p>Parameters to be passed for upgrade:</p> <ul style="list-style-type: none"><li>• <b>DINSTALL_LOG_NAME</b>: Log file name where installation logs will be stored.</li><li>• <b>DUPGRADE</b>: The default value is 0. Specify this parameter and it's value as any integer other than 0 to upgrade the SnapCenter Server.</li></ul>
Interactive installation	<pre>./snapcenter-linux-server- (e18/e19/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 the SnapCenter plug-in packages

The plug-in packages are distributed as part of the SnapCenter upgrade. The upgrade procedure automatically places your Windows, Linux, or AIX plug-in hosts into maintenance mode. The maintenance mode prevents the plug-in host from executing any scheduled jobs during the upgrade.

The system selects all the plug-ins in the package, but upgrades only the plug-ins that you installed with the earlier version of SnapCenter. The system does not install the remaining plug-ins. Use the **Add plug-ins** option to install any new plug-in.

### 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.
- Ensure that PowerShell Core 7.4.2 is installed on the Windows plug-in host.
- Ensure that Java 11 Oracle Java and OpenJDK are installed on Windows and Linux plug-in hosts.
- 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.

- Back up all modified SnapCenter configuration files (such as `SnapDriveService.exe.config`, `SMCoreServiceHost.exe.config`, and so on) on the SnapCenter Server host or plug-in host.

### 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.



If you do not select **Skip prechecks**, SnapCenter checks if the plug-in host meets the requirements. If requirements are not met, error or warning messages appear. 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.

- c. Click **Upgrade**.

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

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



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