



Restore and recover Unix file systems

SnapCenter software

NetApp
January 09, 2026

This PDF was generated from https://docs.netapp.com/us-en/snapcenter/protect-scu/task_restore_unix_file_systems.html on January 09, 2026. Always check docs.netapp.com for the latest.

Table of Contents

- Restore and recover Unix file systems 1
 - Restore Unix file systems 1
 - Monitor Unix file systems restore operations 2

Restore and recover Unix file systems

Restore Unix file systems

In the event of data loss, you can use SnapCenter to restore Unix file systems.

About this task

- You should execute the following commands to establish the connection with the SnapCenter Server, list the backups and retrieve its information, and restore the backup.

The information regarding the parameters that can be used with the command and their descriptions can be obtained by running Get-Help *command_name*. Alternatively, you can also refer to the [SnapCenter Software Command Reference Guide](#).


- For SnapMirror active sync restore operation, you must select the backup from the primary location.

Steps

1. In the left navigation pane, click **Resources**, and then select the appropriate plug-in from the list.
2. In the Resources page, select either **Path** or **Resource Group** from the **View** list.
3. Select the file system from either the details view or the resource group details view.

The topology page is displayed.

4. From the Manage Copies view, select **Backups** from either the primary or the secondary (mirrored or replicated) storage systems.

5. Select the backup from the table, and then click .

6. In the Restore Scope page:
 - For NFS file systems, by default **Connect and Copy** restore is selected. You can also select **Volume Revert** or **Fast Restore**.
 - For non NFS file systems, the restore scope is selected depending on the layout.

The new files created after backup may not be available after restore depending on the file system type and layout.

7. In the PreOps page, enter pre restore commands to run before performing a restore job.
8. In the PostOps page, enter post restore commands to run after performing a restore job.



You should check if the commands exist in the command list available on the plug-in host at location `/opt/NetApp/snapcenter/scc/etc/allowed_commands.config` path.

9. In the Notification page, from the **Email preference** drop-down list, select the scenarios in which you want to send the email notifications.

You must also specify the sender and receiver email addresses, and the subject of the email. If you want to attach the report of the restore operation performed, you must select **Attach Job Report**.



For email notification, you must have specified the SMTP server details by using either the GUI or the PowerShell command `Set-SmSntpServer`.

10. Review the summary, and then click **Finish**.



If restore operation fails, rollback is not supported.



In case of restore of a filesystem residing on volume group, the old contents on the filesystem are not deleted. Only the content from the cloned filesystem will be copied to the source filesystem. This is applicable when there are multiple filesystems on the volume group and default NFS filesystem restores.

11. Monitor the operation progress by clicking **Monitor > Jobs**.







Monitor Unix file systems restore operations

You can monitor the progress of different SnapCenter restore operations by using the Jobs page. You might want to check the progress of an operation to determine when it is complete or if there is an issue.


About this task

Post-restore states describe the conditions of the resource after a restore operation and any further restore actions that you can take.

The following icons appear on the Jobs page, and indicate the state of the operation:

-  In progress
-  Completed successfully
-  Failed
-  Completed with warnings or could not start due to warnings
-  Queued
-  Canceled

Steps

1. In the left navigation pane, click **Monitor**.
2. In the **Monitor** page, click **Jobs**.
3. In the **Jobs** page, perform the following steps:
 - a. Click  to filter the list so that only restore operations are listed.
 - b. Specify the start and end dates.
 - c. From the **Type** drop-down list, select **Restore**.
 - d. From the **Status** drop-down list, select the restore status.
 - e. Click **Apply** to view the operations that have been completed successfully.
4. Select the restore job, and then click **Details** to view the job details.

5. In the **Job Details** page, click **View logs**.

The **View logs** button displays the detailed logs for the selected operation.

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