



Restore SQL Server database backups

SnapCenter Software

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You can use SnapCenter to restore backed-up SQL Server databases. Database restoration is a multiphase process that copies all of the data and log pages from a specified SQL Server backup to a specified database.

About this task

- You can restore the backed-up SQL Server databases to a different SQL Server instance on the same host where the backup was created.

You can use SnapCenter to restore the backed-up SQL Server databases to an alternate path so that you do not replace a production version.

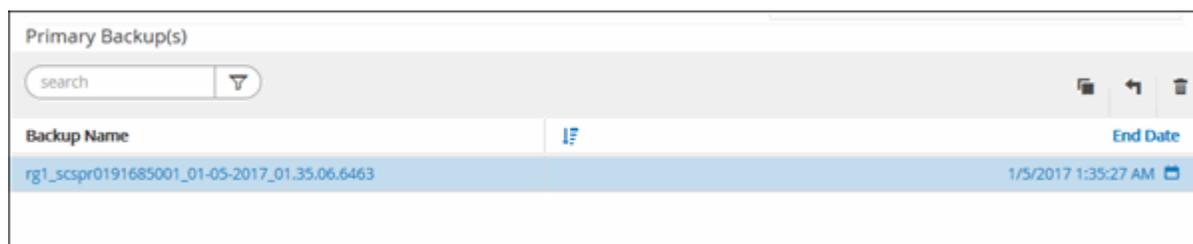
- SnapCenter can restore databases in a Windows cluster without taking the SQL Server cluster group offline.
- If a cluster failure (a cluster group move operation) occurs during a restore operation (for example, if the node that owns the resources goes down), you must reconnect to the SQL Server instance, and then restart the restore operation.
- You cannot restore the database when the users or the SQL Server Agent jobs are accessing the database.
- You cannot restore system databases to an alternate path.
- Most of the fields on the Restore wizard pages are self-explanatory. The following information describes fields for which you might need guidance.

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 **Database** or **Resource Group** from the **View** list.
3. Select the database or the resource group from the list.

The topology page is displayed.

4. From the **Manage Copies** view, select **Backups** from the storage system.
5. Select the backup from the table, and then click the  icon.



Backup Name	End Date
rg1_scspr0191685001_01-05-2017_01.35.06.6463	1/5/2017 1:35:27 AM

6. On the **Restore Scope** page, select one of the following options:

Option	Description
Restore the database to the same host where the backup was created	Select this option if you want to restore the database to the same SQL server where the backups are taken.
Restore the database to an alternate host	<p>Select this option if you want the database to be restored to a different SQL server in the same or different host where backups are taken.</p> <p>Select a host name, provide a database name (optional), select an instance, and specify the restore paths.</p> <div style="border: 1px solid gray; padding: 5px; margin: 10px 0;">  <p>The file extension provided in the alternate path must be same as the file extension of the original database file.</p> </div> <p>If the Restore the database to an alternate host option is not displayed in the Restore Scope page, clear the browser cache.</p>
Restore the database using existing database files	<p>Select this option if you want the database to be restored to an alternate SQL Server in the same or different host where backups are taken.</p> <p>Database files should be already present on the given existing file paths. Select a host name, provide a database name (optional), select an instance, and specify the restore paths.</p>

7. On the **Recovery Scope** page, select one of the following options:

Option	Description
None	Select None when you need to restore only the full backup without any logs.
All log backups	Select All log backups up-to-the-minute backup restore operation to restore all of the available log backups after the full backup.
By log backups until	Select By log backups to perform a point-in-time restore operation, which restores the database based on backup logs until the backup log with the selected date.

Option	Description
By specific date until	<p>Select By specific date until to specify the date and time after which transaction logs are not applied to the restored database.</p> <p>This point-in-time restore operation halts the restoration of transaction log entries that were recorded after the specified date and time.</p>
Use custom log directory	<p>If you have selected All log backups, By log backups, or By specific date until and the logs are located at a custom location, select Use custom log directory, and then specify the log location.</p> <div style="display: flex; align-items: center; margin-top: 10px;">  <p>The custom log directory is not supported for availability group database.</p> </div>

8. On the **Pre Ops** page, perform the following steps:

a. On the **Pre Restore Options** page, select one of the following options:

- Select **Overwrite the database with same name during restore** to restore the database with the same name.
- Select **Retain SQL database replication settings** to restore the database and retain the existing replication settings.
- Select **Create transaction log backup before restore** to create a transaction log before the restore operation begins.
- Select **Quit restore if transaction log backup before restore fails** to abort the restore operation if the transaction log backup fails.

b. Specify optional scripts to run before performing a restore job.

For example, you can run a script to update SNMP traps, automate alerts, send logs, and so on.

9. On the **Post Ops** page, perform the following steps:

a. In the Choose database state after restore completes section, select one of the following options:

- Select **Operational, but unavailable for restoring additional transaction logs** if you are restoring all of the necessary backups now.

This is the default behavior, which leaves the database ready for use by rolling back the uncommitted transactions. You cannot restore additional transaction logs until you create a backup.

- Select **Non-operational, but available for restoring additional transactional logs** to leave the database non-operational without rolling back the uncommitted transactions.

Additional transaction logs can be restored. You cannot use the database until it is recovered.

- Select **Read-only mode, available for restoring additional transactional logs** to leave the database in read-only mode.

This option undoes uncommitted transactions, but saves the undone actions in a standby file so that recovery effects can be reverted.

If the Undo directory option is enabled, more transaction logs are restored. If the restore operation for the transaction log is unsuccessful, the changes can be rolled back. The SQL Server documentation contains more information.

- b. Specify optional scripts to run after performing a restore job.

For example, you can run a script to update SNMP traps, automate alerts, send logs, and so on.

10. On the **Notification** page, from the **Email preference** drop-down list, select the scenarios in which you want to send the emails.

You must also specify the sender and receiver email addresses, and the subject of the email.

11. Review the summary, and then click **Finish**.
12. Monitor the restore process by using the **Monitor > Jobs** page.

Find more information

[Restore and recover resources using PowerShell cmdlets](#)

[Restore an SQL Server database from secondary storage](#)

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