



# **Configure Disaster recovery**

## **SnapCenter Software 4.9**

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# Configure Disaster recovery

## Disaster recovery of SnapCenter Plug-in for SQL Server

When the SnapCenter Plug-in for SQL Server is down, use the following steps to switch to a different SQL host and recover the data.

### Before you begin

- The secondary host should have the same operating system, application, and host name as the primary host.
- Push the SnapCenter Plug-in for SQL Server to an alternative host using **Add host** or **Modify host** page. See [Manage hosts](#) for more information.

### Steps

1. Select the host from the **Hosts** page to modify and install the SnapCenter Plug-in for SQL Server.
2. (Optional) Replace the SnapCenter Plug-in for SQL Server configuration files from disaster recovery (DR) backup to the new machine.
3. Import Windows and SQL schedules from the SnapCenter Plug-in for SQL Server folder from the DR backup.

### Related information

See the [Disaster Recovery APIs](#) video.

## Storage disaster recovery (DR) for SnapCenter Plug-in for SQL Server

You can recover the SnapCenter Plug-in for SQL Server storage by enabling the DR Mode for Storage in the Global Settings page.

### Before you begin

- Ensure that the plug-ins are in maintenance mode.
- Break the SnapMirror/SnapVault relationship. [Breaking SnapMirror relationships](#)
- Attach the LUN from secondary to the host machine with same drive letter.
- Ensure that all the disks are connected using the same drive letters that were used prior to DR.
- Restart MSSQL server service.
- Ensure that the SQL resources are back online.

### About this task

Disaster recovery (DR) is not supported on VMDK and RDM configurations.

### Steps

1. In the Settings page, navigate to **Settings > Global Settings > Disaster Recovery**.
2. Select **Enable Disaster Recovery**.
3. Click **Apply**.

4. Verify whether the DR job is enabled or not by clicking **Monitor > Jobs**.

### After you finish

- If new databases are created after the failover, the databases will be in non-DR mode.

The new databases will continue to operate like they did before the failover.

- The new backups that were created in DR mode will be listed under SnapMirror or SnapVault (secondary) in the Topology page.

An "i" icon is displayed next to the new backups to indicate that these backups were created during DR mode.

- You can delete the SnapCenter Plug-in for SQL Server backups that were created during failover either by using the UI or the following cmdlet: `Remove-SmBackup`
- After failover, if you want some of the resources to be in non-DR mode, use the following cmdlet: `Remove-SmResourceDRMode`

For more information refer to the [SnapCenter Software Cmdlet Reference Guide](#).

- SnapCenter Server will manage the individual storage resources (SQL databases) that are in DR or non-DR mode but not the resource group with storage resources that are in DR mode or non-DR mode.

## Failback from SnapCenter Plug-in for SQL Server secondary storage to primary storage

After the SnapCenter Plug-in for SQL Server primary storage is back online, you should failback to the primary storage.

### Before you begin

- Place the SnapCenter Plug-in for SQL Server in **Maintenance** mode from the Managed Hosts page.
- Disconnect the secondary storage from the host and connect from the primary storage.
- To failback to the primary storage, ensure that the relationship direction remains the same as it was before the failover by performing the reverse resync operation.

To retain the roles of primary and secondary storage after the reverse resync operation, perform the reverse resync operation once again.

For more information see [Reverse resynchronizing mirror relationships](#)

- Restart MSSQL server service.
- Ensure that the SQL resources are back online.



During failover or failback of the plug-in, the plug-in overall status is not refreshed immediately. The host and plug-in overall status is updated during the subsequent host refresh operation.

### Steps

1. In the Settings page, navigate to **Settings > Global Settings > Disaster Recovery**.
2. Unselect **Enable Disaster Recovery**.

3. Click **Apply**.
4. Verify whether the DR job is enabled or not by clicking **Monitor > Jobs**.

**After you finish**

You can delete the SnapCenter Plug-in for SQL Server backups that were created during failover either by using the UI or the following cmdlet: `Remove-SmDRFailoverBackups`

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