# Restore applications data

## Cloud Backup

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# Restore applications data

## Restore Oracle database

You can only restore the Oracle database to the same SnapCenter Server host, same SVM, or to the same database host. For a RAC database, the data will be restored to the on-premises node where the backup was created.

Only full database with control file restore is supported. If the archive logs are not present in the AFS, you should specify the location that contains the archive logs required for recovery.

**Steps**

1. In Cloud Manager UI, click **Backup & Restore** > **Applications**.
2. In the **Filter By** field, select the filter **Type** and from the drop-down select **Oracle**.
3. Click **View Details** corresponding to the database that you want to restore and click **Restore**.
4. On the Restore Type page, perform the following actions:
   a. Select **Control files** if you want to restore control file along with full database.
   b. Select **Change database state if needed for restore and recovery** to change the state of the database to the state required to perform restore and recovery operations.

      The various states of a database from higher to lower are open, mounted, started, and shutdown. You must select this check box if the database is in a higher state but the state must be changed to a lower state to perform a restore operation. If the database is in a lower state but the state must be changed to a higher state to perform the restore operation, the database state is changed automatically even if you do not select the check box.

      If a database is in the open state, and for restore the database needs to be in the mounted state, then the database state is changed only if you select this check box.
5. On the Recovery Scope page, perform the following actions:
   a. Specify the recovery scope.

| If you… | Do this… |
| --- | --- |
| Want to recover to the last transaction | Select **All Logs**. |
| Want to recover to a specific System Change Number (SCN) | Select **Until SCN (System Change Number)**. |
| Want to recover to a specific data and time | Select **Date and Time**.<br><br>You must specify the date and time of the database host's time zone. |
| Do not want to recover | Select **No recovery**. |

| If you… | Do this… |
| --- | --- |
| Want to specify any external archive log locations | If the archive logs are not present in the AFS, you should specify the location that contains the archive logs required for recovery. |

b. Select the check box if you want to open the database after recovery.

In a RAC setup, only the RAC instance that is used for recovery is opened after recovery.

6. Review the details and click **Restore**.

# Restore SQL Server database

You can restore SQL Server database either to the same host or to the alternate host. Recovery of log backups and reseed of availability groups are not supported.

**Steps**

1. In Cloud Manager UI, click **Backup & Restore** > **Applications**.
2. In the **Filter By** field, select the filter **Type** and from the drop-down select **SQL**.
3. Click **View Details** to view all the available backups.
4. Select the backup and click **Restore**.
5. Select the location where you want to restore the database files.

| 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 | 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.<br><br>Select a host name, provide a database name (optional), select an instance, and specify the restore paths.<br><br>The file extension provided in the alternate path must be same as the file extension of the original database file.<br><br>If the **Restore the database to an alternate host** option is not displayed in the Restore Scope page, clear the browser cache. |

6. 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.

7. On the **Post Restore Options** page, to specify the database state for restoring additional transactional logs, select one of the following options:
   - Select **Operational, but unavailable** 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** 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, and available** 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.

8. Review the details and click **Restore**.

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