



# Restoring and recovering SAP HANA databases

## Snap Creator Framework

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You use SAP HANA Studio and Snap Creator to restore and recover SAP HANA databases.

1. Within SAP HANA Studio:
  - a. Select Recover for the SAP HANA system.
  - b. SAP HANA system is shut down.
  - c. Select the recovery type.
  - d. Provide log backup locations.
  - e. List of data backups is shown
  - f. Select backup to see the external backup ID.
2. For a storage system running clustered Data ONTAP only:
  - a. Only required if any other backup than the latest has been used for the restore.
  - b. Only required for "Volume SnapRestore" from primary storage.
  - c. Deactivate SnapVault relationships
3. Within Snap Creator:
  - a. Select "Restore" for the SAP HANA system.
  - b. Select restore from primary or secondary storage, depending on the availability of the backup at the primary storage.
  - c. Select storage controller, volume name, and Snapshot copy name. Snapshot copy name correlates with the backup ID earlier.
  - d. For multinode SAP HANA systems, multiple volumes need to be restored:
    - i. Choose **Add more restore items**.
    - ii. Select storage controller, volume name, and Snapshot copy name.
    - iii. Repeat this process for all required volumes.
  - e. For multitenant database containers (MDC) single tenant database systems, both the SYSTEM and TENANT databases are restored.
  - f. Restore process is started
  - g. Restore finished for all volumes.
4. At the database nodes, unmount and mount all data volumes to clean "Stale NFS Handles."
5. Within SAP HANA Studio:
  - a. Select **Refresh** on backup list.
  - b. Select available backup for recovery (green item).
  - c. Start recovery process.
  - d. For multitenant database containers (MDC) single tenant database systems, start the recovery process first for the SYSTEM database, and then for the TENANT database.
  - e. The SAP HANA system is started.
6. (Optional) Resume SnapVault relationships for all restored volumes.



At the storage systems, this step is only required if a backup other than the latest one has been used for the restore.

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