Rolling back a copy-free transition project

ONTAP 7-Mode Transition

NetApp
October 09, 2025

This PDF was generated from https://docs.netapp.com/us-en/ontap-7mode-transition/copy-free/task_running_manual_steps_for_rolling_back_transition.html on October 09, 2025. Always check docs.netapp.com for the latest.

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Rolling back a copy-free transition project

You can roll back a transition if you want to revert to 7-Mode at any stage of the copy-free transition before the transitioned aggregates are committed. Rollback is a manual operation. You can use the 7-Mode Transition Tool to generate the manual steps that you have to perform for a rollback.

- You must ensure that no volume or aggregate transition operations are running on the cluster.

  You can use the `job show -jobtype transition` command.

- None of the 7-Mode aggregates must be committed.

  You cannot perform the rollback if even one 7-Mode aggregate is committed.

- The target cluster nodes must not be in takeover mode.

Steps

1. Click **Rollback Prechecks** to verify that the project is eligible for a rollback.

   If the precheck reports issues, you must fix them manually and rerun the precheck operation. For example, if you have created any new volumes or LUNs during preproduction testing, you must delete them manually.

2. Click **Generate Rollback Steps** to generate the list of manual steps that you have to perform for a successful rollback.
3. Click **Save As CSV** to save the manual steps in a file.

   You can copy the rollback commands from the file and run them.

4. Depending on the transition phase from which you decide to roll back, perform the required manual steps:

   - **Import or preproduction testing phase**
     i. Run the rollback commands on the cluster and click **Confirm**.
     ii. Connect the 7-Mode disk shelves to the 7-Mode controllers, verify the cabling manually, and click **Confirm**.
     iii. Run the rollback commands on the 7-Mode controllers and click **Confirm**.
     iv. View the configurations that are applied on the SVMs from the Operations History tab.
     v. Manually remove all configurations that were applied by the tool from the SVMs.
   - **Cabling phase**
     i. Connect the 7-Mode disk shelves to the 7-Mode controllers, verify the cabling manually, and click **Confirm**.

     You must ensure that the 7-Mode cabling matches the way it was at the start of the project.

     You should use Config Advisor to verify the cabling.

     ii. Run the rollback commands on the 7-Mode controllers and click **Confirm**.

iii. Manually remove all configurations that were applied by the tool from the SVMs.

You can view the configurations that are applied on the SVMs from the Operations History tab.

- **Export phase**
  i. Run the rollback commands on the 7-Mode controllers and click **Confirm**.
  ii. Manually remove all configurations that were applied by the tool from the SVMs.

  You can view the configurations that are applied on the SVMs from the Operations History tab.

- **SVM provision phase**

  Manually remove all configurations that were applied by the tool from the SVMs.

  You can view the configurations that are applied on the SVMs from the Operations History tab.

Manual steps for rolling back the transition

5. After completing all the manual steps, click **Verify 7-Mode** from the 7-Mode Transition Tool to verify that the 7-Mode controllers are ready to serve data.

Manually rolling back the transition

You must perform some manual steps on the cluster and 7-Mode systems if you decide to roll back the transition. The list of manual rollback steps is generated by the 7-Mode Transition Tool.

The rollback steps vary depending on the stage at which you decide to roll back. You must perform all steps in this task if you decide to roll back after a successful import operation. If you decide to roll back at an earlier stage, you have to perform a subset of these steps.

Steps

1. Log in to the cluster.
2. If any transitioned volume is in a SnapMirror relationship, choose one of the following actions:
   - If a transitioned volume is the destination of a SnapMirror relationship, delete the SnapMirror relationship:
     `snapmirror delete -destination-path` *`destination-path`* `-source-path` *`source-path`*
   - If a transitioned volume is the source of a SnapMirror relationship, release the SnapMirror relationship:
     `snapmirror release -destination-path destination-path -source-path source-path`
3. From the cluster, verify that the following operations are not running on the transitioned volumes:
   a. Volume move operation:
      `volume move show`
   b. LUN move operation:
      `lun move show`
   c. LUN copy operation:
      `lun copy show`

4. Perform the rollback for all of the 7-Mode aggregates:

   a. Log in to the diagnostic privilege level:
   set -privilege diagnostic

   b. Revert the aggregates to the 7-Mode state by using the `storage transition revert start` command.

   This command requires additional parameters, such as the transition project ID and aggregate attributes. You should use the complete command with the parameters and its values, as generated by the 7-Mode Transition Tool.

   c. Verify that the rollback is successful for all of the transitioned aggregates:
   storage transition revert show-status

   The `status-code` field for an aggregate is displayed as `revert_complete` when the rollback is successful.

5. Reassign the disk ownerships from the target cluster nodes to the 7-Mode controllers:

   a. Assign disk ownership to the 7-Mode controllers:
   disk assign –disk *disk_id* –s *system_id* -force true

   b. Verify that the disk ownership is assigned to the 7-Mode controllers:

   storage disk show -fields owner-id

6. Remove the 7-Mode LIFs from the SVMs:

   network interface delete -vserver *svm_name* -lif *lif_name*

7. Remove the copy-free transition restrictions on the target cluster nodes from the diagnostic privilege level:

   storage transition pre-commit end -session-id *transition_project_id*

   You can also perform this step after the rollback operation is completed and the 7-Mode controllers are operational.

8. Delete the transition project information about the target cluster nodes by using the following diagnostic privilege level command:

   storage transition purge-info -session-id *transition_project_id*

   You can also perform this step after the rollback operation is completed and the 7-Mode controllers are operational.

9. If disk ownership autoassigment was disabled on the cluster nodes during the export and halt operation, enable it:

   storage disk assign -auto true

10. Manually remove all of the configurations that the tool has transitioned to the target SVMs.

    You can view the results of the SVM provision and import operations for information about the configurations transitioned by the tool.

11. Remove the disk shelves from the target cluster nodes, and then reconnect them to the 7-Mode controllers.

    You should use the Config Advisor tool to verify the cabling.

12. If any 7-Mode disk shelf IDs were changed to resolve the conflicts with the disk shelf IDs of the target cluster nodes, manually change them to the old IDs and power-cycle the disk shelves for the new IDs to take effect.
13. Boot the source 7-Mode controllers in to the normal mode.
14. From one of the source 7-Mode controllers, enable the takeover capability:

    `cf enable`

15. If automatic deletion of aggregate Snapshot copies was disabled during the export and halt operation, enable it:

    `options snap autodelete *aggr_name* on`

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