



# **Examples of consolidating NFS export rules and Snapshot schedules for transition**

## **ONTAP 7-Mode Transition**

Ivana Devine, Megan Bock  
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# Examples of consolidating NFS export rules and Snapshot schedules for transition

You might want to review examples of how similar 7-Mode export rules and 7-Mode Snapshot schedules are consolidated to a single NFS export policy and a single Snapshot policy in ONTAP. You might also want to understand how the consolidated policies are assigned to the transitioned volumes or qtrees with or without reusing a matching existing policy on the target SVM.

## Example of consolidating NFS export rules for transition

### NFS export rules in 7-Mode and ONTAP before transition

#### 7-Mode export rules

```
/vol/vol1      -sec=sys,rw,nosuid
/vol/vol2      -sec=sys,rw,nosuid
/vol/vol3      -sec=sys,rw,nosuid
```

#### Export policies existing in ONTAP

```
cluster-2::> vserver export-policy show -vserver vs1
Vserver          Policy Name
-----
vs1              default
vs1              export_policy_1
```

The existing export policy `export_policy_1` has the following export rule:

```
cluster-2::> vserver export-policy rule show -vserver vs1 -policyname
export_policy_1
Vserver          Policy          Rule          Access   Client          RO
Name            Index          Protocol Match
-----
vs1              export_policy_1 1          nfs        0.0.0.0/0      sys
```

#### Export policies in ONTAP after transition with consolidation (no reuse)

Volumes `vol1`, `vol2`, and `vol3` have similar export rules in 7-Mode; therefore, a new consolidated export policy, `transition_export_policy_1`, is assigned to these volumes after transition:

```
cluster-2::> vserver export-policy show -vserver vs1
Vserver          Policy Name
-----
vs1              default
vs1              export_policy_1
vs1              transition_export_policy_1
3 entries were displayed.
```

```
cluster-2::> vserver export-policy rule show -vserver vs1 -policyname
transition_export_policy_1
Vserver          Policy          Rule      Access  Client      RO
Name            Index      Protocol Match      Rule
-----
vs1              transition_export_policy_1
                  1          nfs        0.0.0.0/0      sys
```

```
cluster-2::> volume show -vserver vs1 -volume vol1,vol2,vol3 -fields
policy
vserver volume policy
-----
vs1      vol1      transition_export_policy_1
vs1      vol2      transition_export_policy_1
vs1      vol3      transition_export_policy_1
3 entries were displayed.
```

## Export policies in ONTAP after transition with consolidation and reuse

Volumes vol1, vol2, and vol3 have similar export rules in 7-Mode; therefore, a consolidated export policy is assigned to these volumes after transition. The export policy, export\_policy\_1, which matches the 7-Mode export rules, already exists on the SVM. Therefore, the policy is applied to these volumes:

```
cluster-2::> vserver export-policy show -vserver vs1
Vserver          Policy Name
-----
vs1              default
vs1              export_policy_1
2 entries were displayed.
```

```
cluster-2::> vserver export-policy rule show -vserver vs1 -policyname
export_policy_1
Policy                Rule    Access  Client  RO
Vserver              Name    Index   Protocol Match  Rule
-----
vs1                  export_policy_1 1      nfs     0.0.0.0/0  sys
```

```
cluster-2::> volume show -vserver vs1 -volume vol1,vol2,vol3 -fields
policy
vserver volume policy
-----
vs1      vol1    export_policy_1
vs1      vol2    export_policy_1
vs1      vol3    export_policy_1
3 entries were displayed.
```

## Example of consolidating Snapshot policies for transition

### Snapshot schedules in 7-Mode and ONTAP before transition

#### 7-Mode schedule

7-Mode volume	7-Mode Snapshot schedule
vol1	0 2 4@8,12,16,20 (weekly Snapshot copies: 0, daily Snapshot copies: 2, hourly Snapshot copies: 6 at 2, 4, 8, 12, 16, 20 hours)
vol2	0 2 4@8,12,16,20
vol3	0 2 4@8,12,16,20
vol4	1 2 3@8,12,16 (weekly Snapshot copies: 1, daily Snapshot copies: 2, hourly Snapshot copies: 3 at 8,12,16 hours)
vol5	2 2 3@8,12,16 (weekly Snapshot copies: 2, daily Snapshot copies: 2, hourly Snapshot copies: 3 at 8,12,16 hours)

#### Snapshot policies existing in ONTAP

Snapshot policy name	Policy details
ScheduleWeekly	Weekly, count: 1
ScheduleDailyHourly4	<b>Schedule details</b> <ul style="list-style-type: none"> <li>• Schedule1: daily, count1: 2</li> <li>• Schedule2: hourly, count2: 4 every 8, 12, 16, 20 hours</li> </ul>
ScheduleHourly1	Hourly at 8, 12, 16, 20 hours, count: 4

**Snapshot policy in ONTAP after transition with consolidation (no reuse)**

7-Mode volume	7-Mode Snapshot schedule	Snapshot policy in ONTAP
vol1	0 2 4@8,12,16,20 (weekly Snapshot copies: 0, daily Snapshot copies: 2, hourly Snapshot copies: 4 at 8, 12, 16, 20 hours)	<b>Consolidated policy for vol1, vol2, and vol3</b> <ul style="list-style-type: none"> <li>• Name: transition_snapshot_policy_0</li> <li>• Schedule details <ul style="list-style-type: none"> <li>◦ Schedule1: daily, count1: 2</li> <li>◦ Schedule2: hourly, count2: 4 every 8, 12, 16, 20 hours</li> </ul> </li> </ul>
vol2	0 2 4@8,12,16,20	vol3
0 2 4@8,12,16,20	vol4	1 2 3@8,12,16 (weekly Snapshot copies: 1, daily Snapshot copies: 2, hourly Snapshot copies: 3 at 8,12,16 hours)
<ul style="list-style-type: none"> <li>• Name: transition_snapshot_policy_1</li> <li>• Schedule details <ul style="list-style-type: none"> <li>◦ Schedule1: weekly, count1: 1</li> <li>◦ Schedule2: daily, count2: 2</li> <li>◦ Schedule3: hourly, count3: 3 every 8,12,16 hours</li> </ul> </li> </ul>	vol5	2 2 3@8,12,16 (weekly Snapshot copies: 2, daily Snapshot copies: 2, hourly Snapshot copies: 3 at 8,12,16 hours)

**Snapshot policy in ONTAP after transition with consolidation and reuse**

7-Mode volume	7-Mode Snapshot schedule	Snapshot policy in ONTAP
vol1	0 2 4@8,12,16,20 (weekly Snapshot copies: 0, daily Snapshot copies: 2, hourly Snapshot copies: 4 at 2, 4, 8, 12, 16, 20 hours)	Consolidated policy for vol1, vol2, and vol3 for which the existing ONTAP policy is reused  Name: ScheduleDailyHourly4
vol2	0 2 4@8,12,16,20	vol3
0 2 4@8,12,16,20	vol4	1 2 3@8,12,16 (weekly Snapshot copies: 1, daily Snapshot copies: 2, hourly Snapshot copies: 3 at 8,12,16 hours)
<ul style="list-style-type: none"> <li>• Name: transition_snapshot_policy_1</li> <li>• Schedule details <ul style="list-style-type: none"> <li>◦ Schedule1: weekly, count1: 1</li> <li>◦ Schedule2: daily, count2: 2</li> <li>◦ Schedule3: hourly, count3: 3 every 8,12,16 hours</li> </ul> </li> </ul>	vol5	2 2 3@8,12,16 (weekly Snapshot copies: 2, daily Snapshot copies: 2, hourly Snapshot copies: 3 at 8,12,16 hours)

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