



# **Monitoring ANF Cross-Region Replication**

## **NetApp Solutions**

Dorian Henderson, Ivana Devine  
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# Monitoring ANF Cross-Region Replication

[Previous: Configuration steps for ANF Cross-Region Replication.](#)

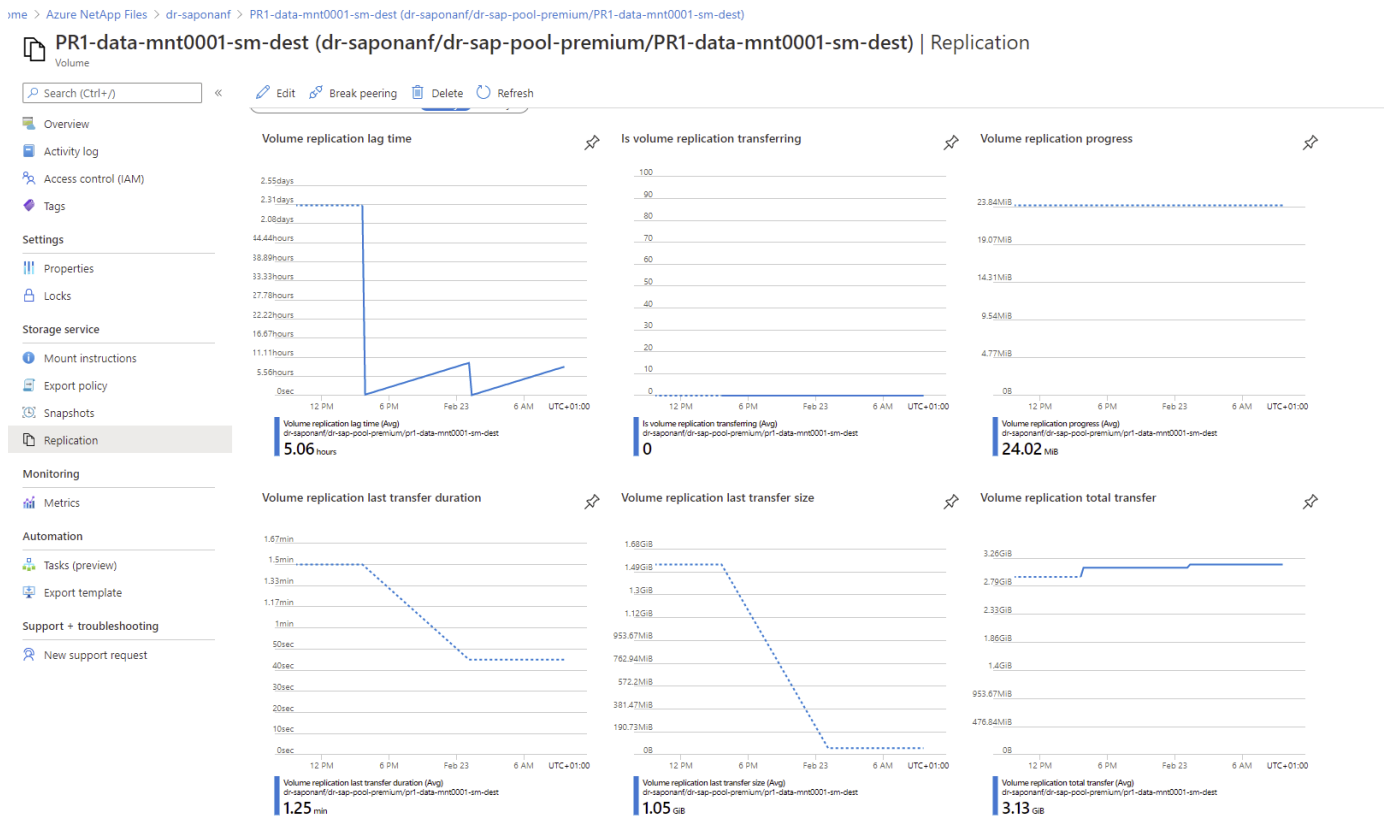
## Replication status

The following three screenshots show the replication status for the data, log backup, and shared volumes.

The volume replication lag time is a useful value to understand RPO expectations. For example, the log backup volume replication shows a maximum lag time of 58 minutes, which means that the maximum RPO has the same value.

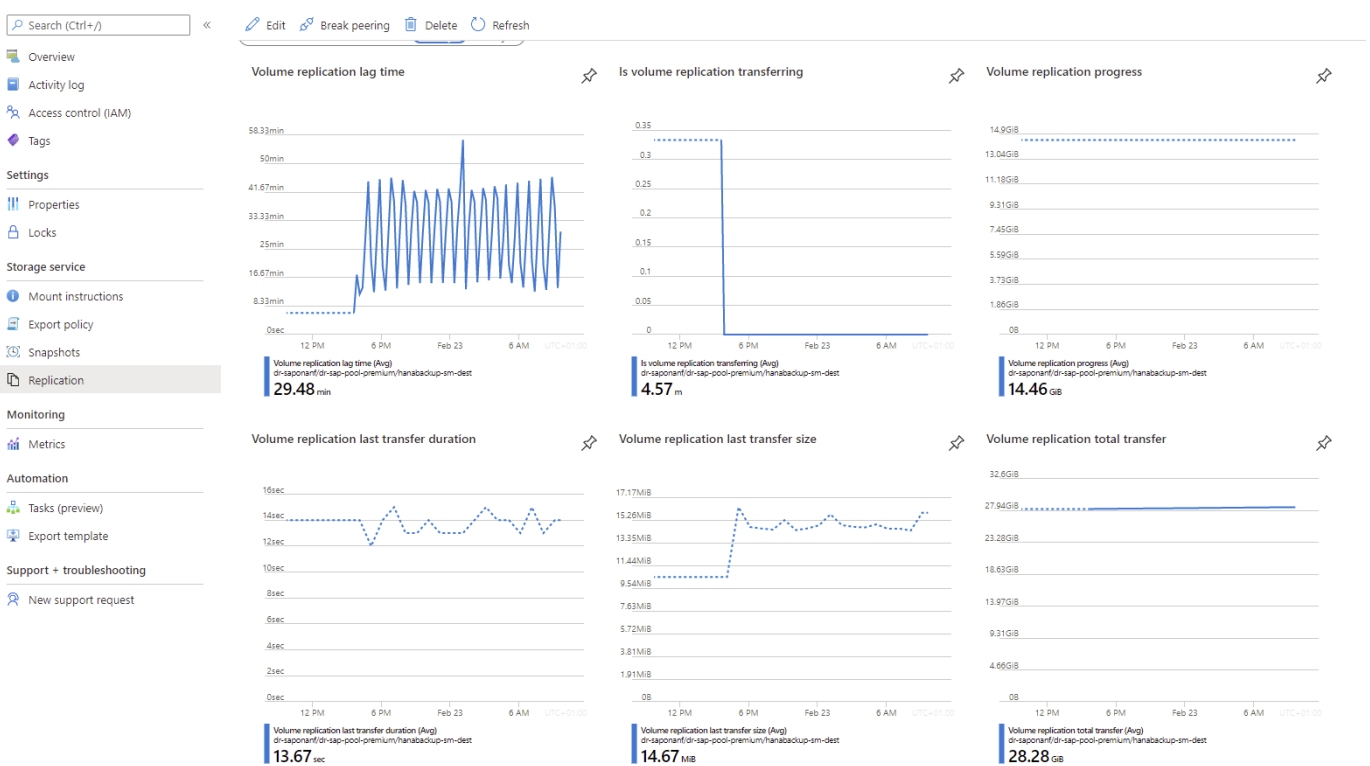
The transfer duration and transfer size provide valuable information on bandwidth requirements and change the rate of the replicated volume.

The following screenshot shows the replication status of HANA data volume.



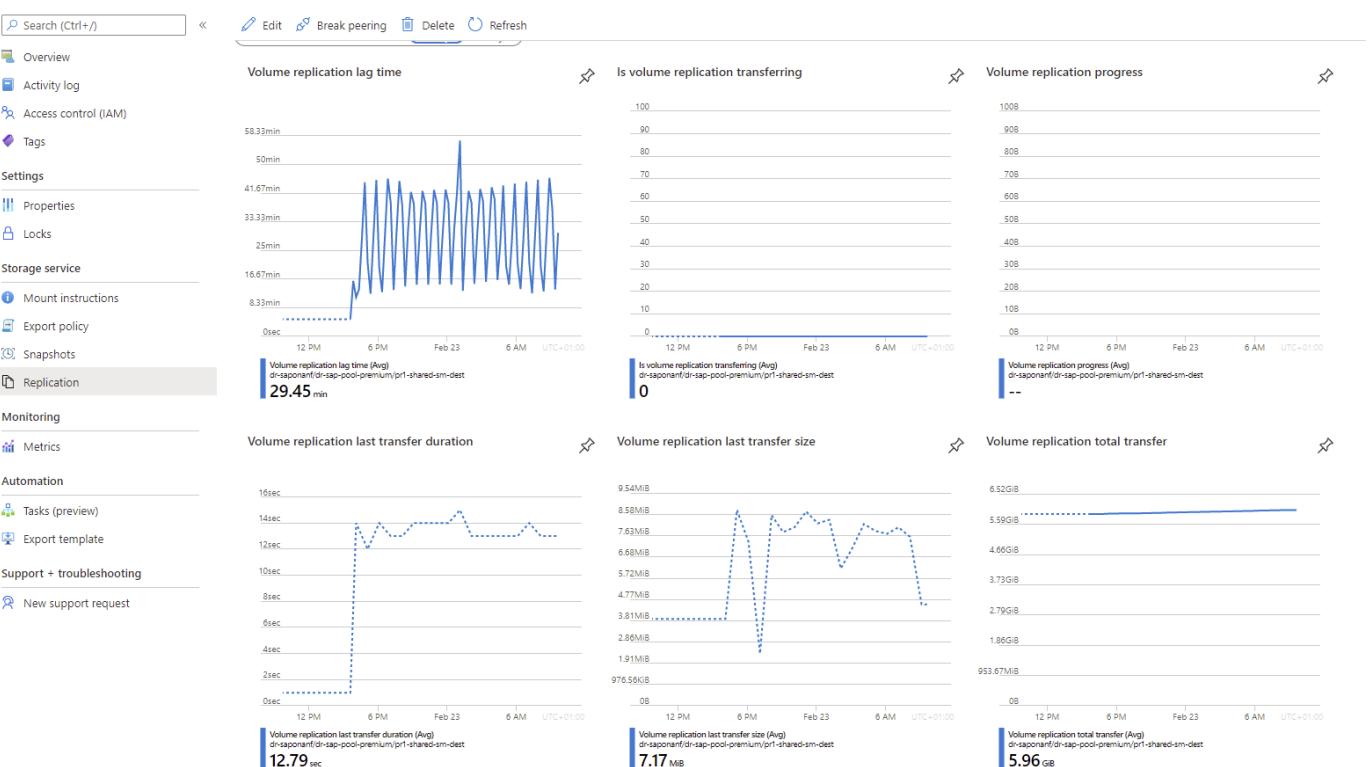
The following screenshot shows the replication status of HANA log backup volume.

## hanabackup-sm-dest (dr-saponanf/dr-sap-pool-premium/hanabackup-sm-dest) | Replication



The following screenshot shows the replication status of HANA shared volume.

## PR1-shared-sm-dest (dr-saponanf/dr-sap-pool-premium/PR1-shared-sm-dest) | Replication



# Replicated snapshot backups

With each replication update from the source to the target volume, all block changes that happened between the last and the current update are replicated to the target volume. This also includes the snapshots, which have been created at the source volume. The following screenshot shows the snapshots available at the target volume. As already discussed, each of the snapshots created by the AzAcSnap tool are application-consistent images of the HANA database that can be used to execute either a savepoint or a forward recovery.



Within the source and the target volume, SnapMirror Snapshot copies are created as well, which are used for resync and replication update operations. These Snapshot copies are not application consistent from the HANA database perspective; only the application-consistent snapshots created via AzaCSnap can be used for HANA recovery operations.

me > Azure NetApp Files > dr-sapnanf > PR1-data-mnt0001-sm-dest (dr-sapnanf/dr-sap-pool-premium/PR1-data-mnt0001-sm-dest)

PR1-data-mnt0001-sm-dest (dr-sapnanf/dr-sap-pool-premium/PR1-data-mnt0001-sm-dest) | Snapshots

Volume

Search (Ctrl+/) « + Add snapshot Refresh

Overview

Activity log

Access control (IAM)

Tags

Settings

Properties

Locks

Storage service

Mount instructions

Export policy

Snapshots

Replication

Monitoring

Metrics

Automation

Tasks (preview)

Export template

Support + troubleshooting

New support request

Name	Location	Created
azacsnap_2021-02-18T120002-2150721Z	West US	02/18/2021, 01:00:05 PM
azacsnap_2021-02-18T160002-1442691Z	West US	02/18/2021, 05:00:49 PM
azacsnap_2021-02-18T200002-0758687Z	West US	02/18/2021, 09:00:05 PM
azacsnap_2021-02-19T000002-0039686Z	West US	02/19/2021, 01:00:05 AM
azacsnap_2021-02-19T040001-8773748Z	West US	02/19/2021, 05:00:06 AM
azacsnap_2021-02-19T080001-5198653Z	West US	02/19/2021, 09:00:05 AM
azacsnap_2021-02-19T120002-1495322Z	West US	02/19/2021, 01:00:06 PM
azacsnap_2021-02-19T160002-3698678Z	West US	02/19/2021, 05:00:05 PM
azacsnap_2021-02-22T120002-3145398Z	West US	02/22/2021, 01:00:06 PM
snapmirror.b1e8e48d-7114-11eb-b147-d039ea1e211e_2155791247.2021-02-22_143159	West US	02/22/2021, 03:32:00 PM
azacsnap_2021-02-22T160002-0144647Z	West US	02/22/2021, 05:00:05 PM
azacsnap_2021-02-22T200002-0649581Z	West US	02/22/2021, 09:00:05 PM
azacsnap_2021-02-23T000002-0311379Z	West US	02/23/2021, 01:00:05 AM
snapmirror.b1e8e48d-7114-11eb-b147-d039ea1e211e_2155791247.2021-02-23_001000	West US	02/23/2021, 01:10:00 AM

Next: Disaster recovery testing.

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