



Create new volumes based on snapshot backups at the disaster recovery site

NetApp Solutions SAP

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Create new volumes based on snapshot backups at the disaster recovery site

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Depending on the disaster recovery setup (with or without log backup replication), two or three new volumes based on snapshot backups must be created. In both cases, a new volume of the data and the HANA shared volume must be created. A new volume of the log backup volume must be created if the log backup data is also replicated. In our example, data and the log backup volume have been replicated to the disaster recovery site. The following steps use the Azure Portal.

1. One of the application-consistent snapshot backups is selected as a source for the new volume of the HANA data volume. Restore to New Volume is selected to create a new volume based on the snapshot backup.

PR1-data-mnt00001-sm-dest (dr-saponanf/dr-sap-pool1/PR1-data-mnt00001-sm-dest) | Snapshots

Search (Ctrl+/) Add snapshot Refresh

Search snapshots

Name	Location	Created
azacsnap__2021-02-16T134021-9431230Z	West US	02/16/2021, 02:40:27 PM
azacsnap__2021-02-16T134917-6284160Z	West US	02/16/2021, 02:49:20 PM
azacsnap__2021-02-16T135737-3778546Z	West US	02/16/2021, 02:57:41 PM
azacsnap__2021-02-16T160002-1354654Z	West US	02/16/2021, 05:00:05 PM
azacsnap__2021-02-16T200002-0790339Z	West US	02/16/2021, 09:00:08 PM
azacsnap__2021-02-17T000002-1753859Z	West US	02/17/2021, 01:00:06 AM
azacsnap__2021-02-17T040001-5454808Z	West US	02/17/2021, 05:00:05 AM
azacsnap__2021-02-17T080002-2933611Z	West US	02/17/2021, 09:00:18 AM
snapmirror.b1e8e48d-7114-11eb-b147-d039ea...	West US	02/17/2021, 12:46:22 PM
azacsnap__2021-02-17T120001-9196266Z	West US	02/17/2021, 01:00:08 PM
azacsnap__2021-02-17T160002-2801612Z	West US	02/17/2021, 05:00:06 PM
azacsnap__2021-02-17T200001-9149055Z	West US	02/17/2021, 09:00:05 PM
azacsnap__2021-02-18T000001-7955243Z	West US	02/18/2021, 01:00:07 AM
snapmirror.b1e8e48d-7114-11eb-b147-d039ea...	West US	02/18/2021, 01:10:00 AM

Restore to new volume
Revert volume
Delete

2. The new volume name and quota must be provided in the user interface.

Create a volume

Basics Protocol Tags Review + create

This page will help you create an Azure NetApp Files volume in your subscription and enable you to access the volume from within your virtual network. [Learn more about Azure NetApp Files](#)

Volume details

Volume name *	<input type="text" value="PR1-data-mnt00001-sm-dest-clone"/> ✓
Restoring from snapshot ⓘ	<input type="text" value="azacsnap_2021-02-18T000001-7955243Z"/>
Available quota (GiB) ⓘ	<input type="text" value="2096"/> 2.05 TiB
Quota (GiB) * ⓘ	<input type="text" value="500"/> ✓ 500 GiB
Virtual network ⓘ	<input type="text" value="dr-vnet (10.2.0.0/16,10.0.2.0/24)"/> ▼
Delegated subnet ⓘ	<input type="text" value="default (10.0.2.0/28)"/> ▼
Show advanced section	<input type="checkbox"/>

3. Within the protocol tab, the file path and export policy are configured.

Create a volume

Basics Protocol Tags Review + create

Configure access to your volume.

Access

Protocol type

NFS SMB Dual-protocol (NFSv3 and SMB)

Configuration

File path * ⓘ

PR1-data-mnt00001-sm-dest-clone

Versions

NFSv4.1

Kerberos

Enabled Disabled

Export policy

Configure the volume's export policy. This can be edited later. [Learn more](#)

↑ Move up ↓ Move down ↕ Move to top ⏴ Move to bottom 🗑 Delete

<input checked="" type="checkbox"/>	Index	Allowed clients	Access	Root Access	
<input checked="" type="checkbox"/>	1	0.0.0.0/0	Read & Write	On	⋮

4. The Create and Review screen summarizes the configuration.

Create a volume

✔ Validation passed

Basics Protocol Tags Review + create

Basics

Subscription	Pay-As-You-Go
Resource group	dr-rg-sap
Region	West US
Volume name	PR1-data-mnt00001-sm-dest-clone
Capacity pool	dr-sap-pool1
Service level	Standard
Quota	500 GiB

Networking

Virtual network	dr-vnet (10.2.0.0/16,10.0.2.0/24)
Delegated subnet	default (10.0.2.0/28)

Protocol

Protocol	NFSv4.1
File path	PR1-data-mnt00001-sm-dest-clone

5. A new volume has now been created based on the HANA snapshot backup.

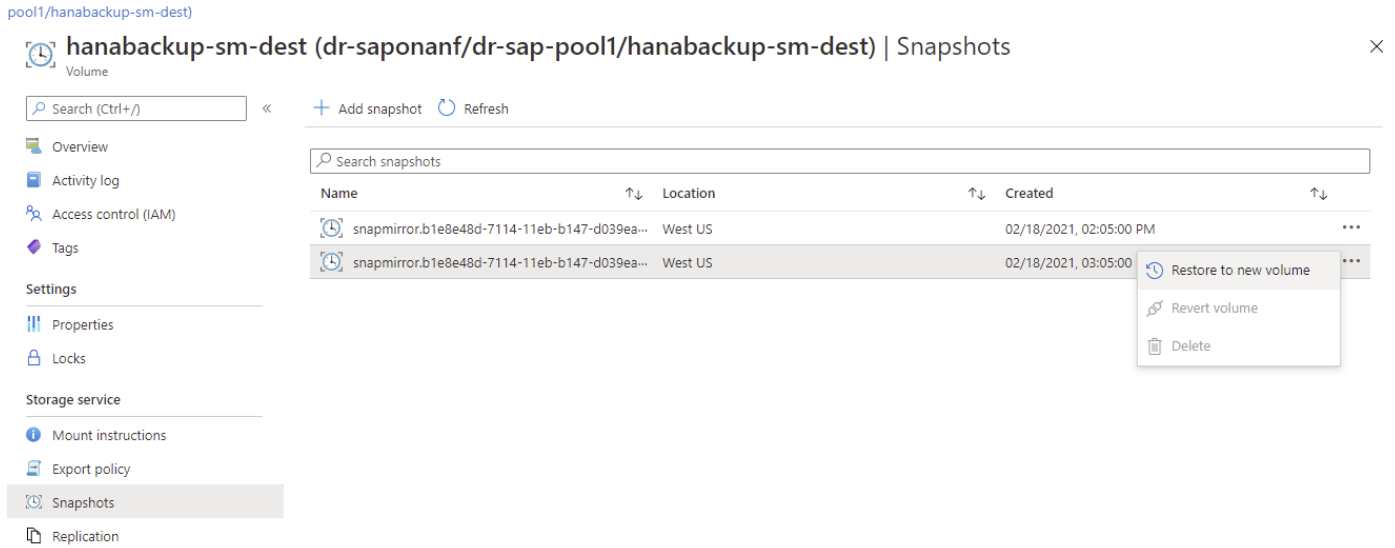
dr-saponanf | Volumes

Search (Ctrl+/) « + Add volume + Add data replication Refresh

Name	Quota	Protocol type	Mount path	Service level	Capacity pool
hanabackup-sm-dest	1000 GiB	NFSv3	10.0.2.4/hanabackup-sm-dest	Standard	dr-sap-pool1
PR1-data-mnt00001-sm-dest	500 GiB	NFSv4.1	10.0.2.4/PR1-data-mnt00001-s	Standard	dr-sap-pool1
PR1-data-mnt00001-sm-dest-clone	500 GiB	NFSv4.1	10.0.2.4/PR1-data-mnt00001-s	Standard	dr-sap-pool1
PR1-log-mnt00001-dr	250 GiB	NFSv4.1	10.0.2.4/PR1-log-mnt00001-dr	Standard	dr-sap-pool1
PR1-shared-sm-dest	250 GiB	NFSv4.1	10.0.2.4/PR1-shared-sm-dest	Standard	dr-sap-pool1

The same steps must now be performed for the HANA shared and the log backup volume as shown in the following two screenshots. Since no additional snapshots have been created for the HANA shared and log backup volume, the newest SnapMirror Snapshot copy must be selected as the source for the new volume. This is unstructured data, and the SnapMirror Snapshot copy can be used for this use case.

pool1/hanabackup-sm-dest



hanabackup-sm-dest (dr-saponanf/dr-sap-pool1/hanabackup-sm-dest) | Snapshots

Search (Ctrl+/) << + Add snapshot Refresh

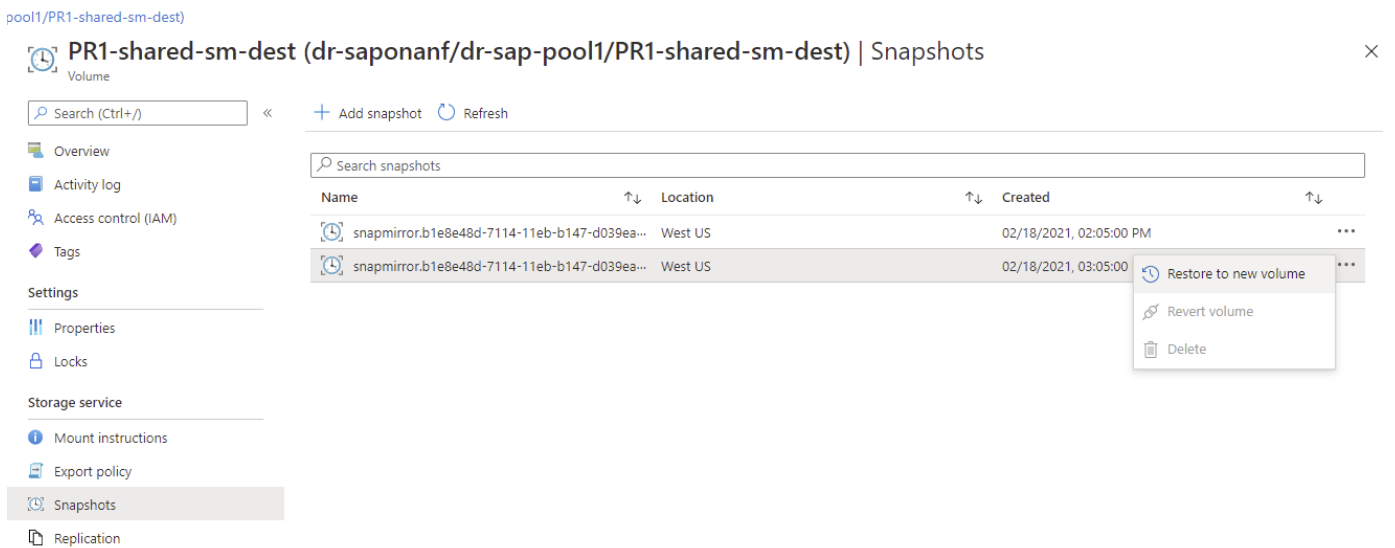
Search snapshots

Name	Location	Created	
snapmirror.b1e8e48d-7114-11eb-b147-d039ea...	West US	02/18/2021, 02:05:00 PM	...
snapmirror.b1e8e48d-7114-11eb-b147-d039ea...	West US	02/18/2021, 03:05:00	Restore to new volume Revert volume Delete

Overview
Activity log
Access control (IAM)
Tags
Settings
Properties
Locks
Storage service
Mount instructions
Export policy
Snapshots
Replication

The following screenshot shows the HANA shared volume restored to new volume.

pool1/PR1-shared-sm-dest



PR1-shared-sm-dest (dr-saponanf/dr-sap-pool1/PR1-shared-sm-dest) | Snapshots

Search (Ctrl+/) << + Add snapshot Refresh

Search snapshots

Name	Location	Created	
snapmirror.b1e8e48d-7114-11eb-b147-d039ea...	West US	02/18/2021, 02:05:00 PM	...
snapmirror.b1e8e48d-7114-11eb-b147-d039ea...	West US	02/18/2021, 03:05:00	Restore to new volume Revert volume Delete

Overview
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If a capacity pool with a low performance tier has been used, the volumes must now be moved to a capacity pool that provides the required performance.

All three new volumes are now available and can be mounted at the target host.

Next: [Mount the new volumes at the target host.](#)

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