

Azure NetApp Files documentation

Azure NetApp Files

NetApp May 03, 2022

This PDF was generated from https://docs.netapp.com/us-en/cloud-manager-azure-netapp-files/index.html on May 03, 2022. Always check docs.netapp.com for the latest.

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Azure NetApp Files documentation

What's new

Learn what's new with Azure NetApp Files in Cloud Manager.

11 April 2021

Support for volume templates

A new Application Templates service enables you to set up a volume template for Azure NetApp Files. The template should make your job easier because certain volume parameters will already be defined in the template, such as capacity pool, size, protocol, VNet and subnet where the volume should reside, and more. When a parameter is already predefined, you can just skip to the next volume parameter.

- · Learn about Application Templates and how you can use them in your environment
- · Learn how to create an Azure NetApp Files volume from a template

8 March 2021

Dynamically change service levels

You can now dynamically change the service level for a volume to meet workload needs and optimize your costs. The volume is moved to the other capacity pool with no impact to the volume.

Learn how to change a volume's service level.

3 August 2020

Azure NetApp Files set up and management

Set up and manage Azure NetApp Files directly from Cloud Manager. After you create an Azure NetApp Files working environment, you can complete the following tasks:

- · Create NFS and SMB volumes.
- · Manage capacity pools and volume snapshots

Cloud Manager enables you to create, delete, and restore volume snapshots. You can also create new capacity pools and specify their service levels.

• Edit a volume by changing its size and managing tags.

The ability to create and manage Azure NetApp Files directly from Cloud Manager replaces the previous data migration functionality.

5 April 2020

Data migration to Azure NetApp Files

You can now migrate NFS or SMB data to Azure NetApp Files directly from Cloud Manager. Data syncs are powered by NetApp's Cloud Sync service.

Get started

Learn about Azure NetApp Files

Azure NetApp Files enables enterprises to migrate and run their performance-intensive and latency-sensitive core, business-critical applications in Azure with no need to refactor for the cloud

Features

- Support for multiple protocols enables "lift & shift" of both Linux & Windows applications to run seamlessly in Azure.
- Multiple performance tiers allow for close alignment with workload performance requirements.
- Leading certifications including SAP HANA, GDPR, and HIPAA enables migration of the most demanding workloads to Azure.

Additional features in Cloud Manager

 Migrate NFS or SMB data to Azure NetApp Files directly from Cloud Manager. Data migrations are powered by NetApp's Cloud Sync service.

Learn more about Cloud Sync

 Using Artificial Intelligence (AI) driven technology, Cloud Data Sense can help you understand data context and identify sensitive data that resides in your Azure NetApp Files accounts.

Learn more about Cloud Data Sense

Cost

View Azure NetApp Files pricing

Note that your subscription and charging are maintained by the Azure NetApp Files service and not by Cloud Manager.

Supported regions

View supported Azure regions

Getting help

For technical support issues associated with Azure NetApp Files, use the Azure portal to log a support request to Microsoft. Select your associated Microsoft subscription and select the **Azure NetApp Files** service name under **Storage**. Provide the remaining information required to create your Microsoft support request.

Related links

- NetApp Cloud Central: Azure NetApp Files
- Azure NetApp Files documentation

Cloud Sync documentation

Quick start for Azure NetApp Files

Get started quickly by following these steps or follow the links for full details.



Set up an Azure AD application

From Azure, grant permissions to an Azure AD application and copy the application (client) ID, the directory (tenant) ID, and the value of a client secret.

Learn how to set up an Azure AD application.



Create an Azure NetApp Files working environment

In Cloud Manager, click **Add Working Environment > Microsoft Azure > Azure NetApp Files** and then provide details about the AD application.

Learn how to create a working environment.

Set up an Azure AD application

Cloud Manager needs permissions to set up and manage Azure NetApp Files. You can grant the required permissions to an Azure account by creating and setting up an Azure Active Directory (AD) application and by obtaining the Azure credentials that Cloud Manager needs.

Create the AD application

Create an Azure AD application and service principal that Cloud Manager can use for role-based access control.

Before you begin

You must have the right permissions in Azure to create an Active Directory application and to assign the application to a role. For details, refer to Microsoft Azure Documentation: Required permissions.

Steps

1. From the Azure portal, open the **Azure Active Directory** service.



- 2. In the menu, click App registrations.
- 3. Create the application:
 - a. Click New registration.
 - b. Specify details about the application:
 - Name: Enter a name for the application.
 - Account type: Select an account type (any will work with Cloud Manager).
 - Redirect URI: You can leave this blank.
 - c. Click Register.
- 4. Copy the Application (client) ID and the Directory (tenant) ID.



When you create the Azure NetApp Files working environment in Cloud Manager, you need to provide the application (client) ID and the directory (tenant) ID for the application. Cloud Manager uses the IDs to programmatically sign in.

- 5. Create a client secret for the application so Cloud Manager can use it to authenticate with Azure AD:
 - a. Click Certificates & secrets > New client secret.
 - b. Provide a description of the secret and a duration.
 - c. Click Add.
 - d. Copy the value of the client secret.



Result

Your AD application is now setup and you should have copied the application (client) ID, the directory (tenant) ID, and the value of the client secret. You need to enter this information in Cloud Manager when you add an Azure NetApp Files working environment.

Assign the app to a role

You must bind the service principal to your Azure subscription and assign it a custom role that has the required permissions.

Steps

1. Create a custom role in Azure.

The following steps describe how to create the role from the Azure portal.

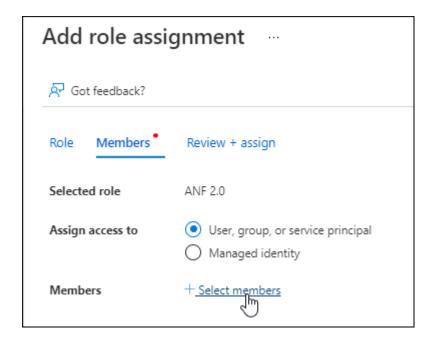
- a. Open the subscription and click Access control (IAM).
- b. Click Add > Add custom role.



- c. In the **Basics** tab, enter a name and description for the role.
- d. Click JSON and click Edit which appears at the top right of the JSON format.
- e. Add the following permission under *actions*:

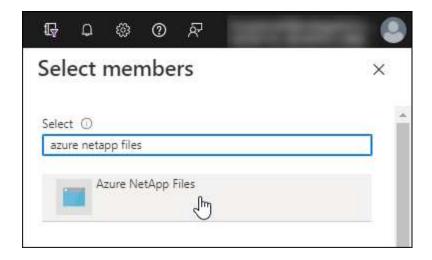
```
"actions": [
    "Microsoft.NetApp/*",
],
```

- f. Click Save, click Next, and then click Create.
- 2. Now assign the application to the role that you just created:
 - a. From the Azure portal, open the Subscriptions service.
 - b. Select the subscription.
 - c. Click Access control (IAM) > Add > Add role assignment.
 - d. In the Role tab, select the custom role that you created and click Next.
 - e. In the **Members** tab, complete the following steps:
 - Keep User, group, or service principal selected.
 - Click Select members.



Search for the name of the application.

Here's an example:



- Select the application and click Select.
- Click Next.
- f. Click Review + assign.

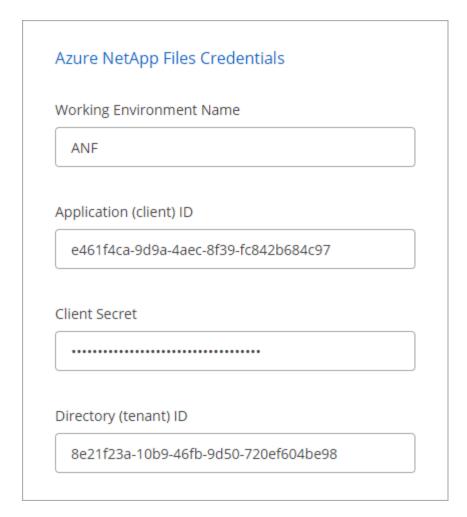
The service principal for Cloud Manager now has the required Azure permissions for that subscription.

Create an Azure NetApp Files working environment

After you set up an Azure Active Directory application, create an Azure NetApp Files working environment in Cloud Manager so that you can start creating the volumes that you need.

Steps

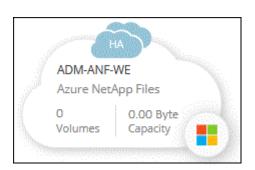
- 1. From the Canvas page, click **Add Working Environment**.
- 2. Select Microsoft Azure and then Azure NetApp Files.
- 3. Provide details about the AD application that you previously set up.



4. Click Add.

Result

You should now have an Azure NetApp Files working environment.



What's next?

Start creating and managing volumes.

Use Azure NetApp Files

Create and mount volumes for Azure NetApp Files

After you set up your working environment, you can create Azure NetApp Files accounts, capacity pools, and volumes.

Create volumes

You can create NFS or SMB volumes in a new or existing Azure NetApp Files account.

A Cloud Manager feature called "templates" enables you to create volumes that are optimized for the workload requirements for certain applications; such as databases or streaming services. If your organization has created volume templates that you should use, follow these steps.

Before you begin

- If you want to use SMB, you must have set up DNS and Active Directory.
- When planning to create an SMB volume, you must have a Windows Active Directory server available to which you can connect. You will enter this information when creating the volume.

Steps

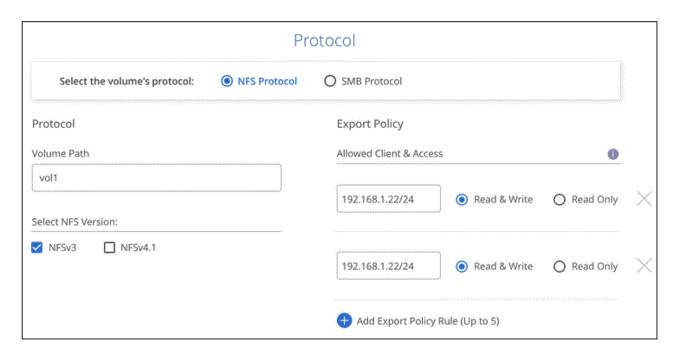
- 1. Open the Azure NetApp Files working environment.
- 2. Click Add New Volume.
- 3. Provide the required information on each page:
 - Azure NetApp Files Account: Choose an existing Azure NetApp Files account or create a new account. When creating a new account you can also choose the Resource Group that you want to use.
 - Capacity Pool: Select an existing capacity pool or create a new capacity pool.

If you create a new capacity pool, you need to specify a size and select a service level.

The minimum size for the capacity pool is 4 TB. You can specify a size in multiples of 4 TB.

- Details & Tags: Enter a volume name and size, the VNet and subnet where the volume should reside, and optionally specify tags for the volume.
- **Protocol**: Choose the NFS or SMB protocol and enter the required information.

Here's an example of details for NFS.



Here's an example of details for SMB. You'll need to provide Active Directory information on the next page when you set up your first SMB volume.



- 4. If you want this volume to be created based on a snapshot of an existing volume, select the snapshot from the Snapshot Name drop-down list.
- 5. Click Add Volume.

Result

The new volume is added to the working environment.

Continue with mounting the cloud volume.

Create volumes from templates

If your organization has created Azure NetApp Files volume templates so that you can deploy volumes that are optimized for the workload requirements for certain applications, follow the steps in this section.

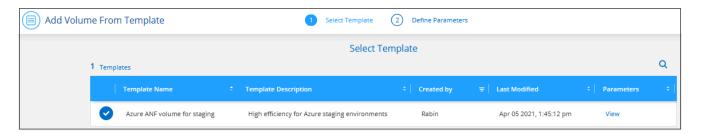
The template should make your job easier because certain volume parameters will already be defined in the template, such as capacity pool, size, protocol, VNet and subnet where the volume should reside, and more. When a parameter is already predefined, you can just skip to the next volume parameter.

Steps

- 1. On the Canvas page, click the Azure NetApp Files working environment on which you want to provision a volume.
- 2. Click > Add Volume From Template.



3. In the Select Template page, select the template that you want to use to create the volume and click Next.



The Define Parameters page is displayed.



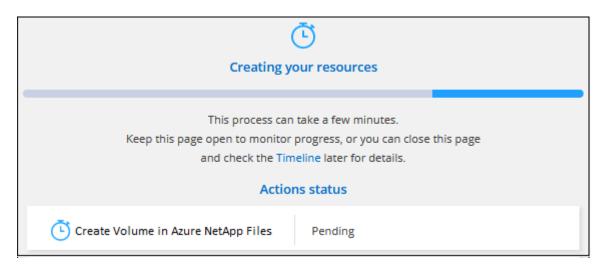
Note: You can click the checkbox **Show read-only parameters** to show all the fields that have been locked by the template if you want to see the values for those parameters. By default these predefined

fields are hidden and only the fields you need to complete are shown.

- 4. Add values for all of the parameters that are not hard-coded from the template. See creating volumes for details about all the parameters you need to complete to deploy an Azure NetApp Files volume.
- 5. Click **Run Template** after you have defined all the parameters needed for this volume.

Result

Cloud Manager provisions the volume and displays a page so that you can see the progress.



Then the new volume is added to the working environment.

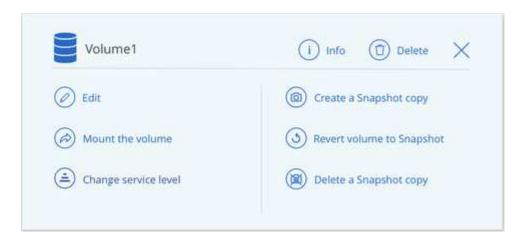
Continue with mounting the cloud volume.

Mount volumes

Access mounting instructions from within Cloud Manager so you can mount the volume to a host.

Steps

- 1. Open the working environment.
- 2. Hover over the volume and select **Mount the volume**.



3. Follow the instructions to mount the volume.

Manage volumes for Azure NetApp Files

You can manage existing volumes as your storage needs change. You can edit volumes, change a volume's service level, manage Snapshot copies, and delete volumes.

Edit a volume's size and tags

After you create a volume, you can modify its size and tags at any time.

Steps

- 1. Open the working environment.
- 2. Hover over the volume and select **Edit**.
- 3. Modify the size and tags as needed.
- Click Apply.

Change the volume's service level

After you create a volume, you can change the service level at any time as long as the destination capacity pool already exists.

Steps

- 1. Open the working environment.
- 2. Hover over the volume and select **Change service level**.
- 3. Select the capacity pool that provides the service level that you want.
- 4. Click Change.

Result

The volume is moved to the other capacity pool with no impact to the volume.

Manage Snapshot copies

Snapshot copies provide a point-in-time copy of your volume. Create Snapshot copies, restore the data to a new volume, and delete Snapshot copies.

Steps

- 1. Open the working environment.
- 2. Hover over the volume and choose one of the available options to manage Snapshot copies:
 - Create a Snapshot copy
 - Revert volume to Snapshot
 - Delete a Snapshot copy
- 3. Follow the prompts to complete the selected action.

Delete volumes

Delete the volumes that you no longer need.

Steps

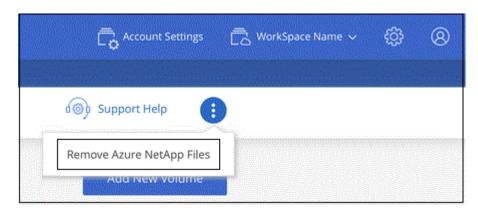
- 1. Open the working environment.
- 2. Hover over the volume and click **Delete**.
- 3. Confirm that you want to delete the volume.

Remove Azure NetApp Files

This action removes Azure NetApp Files from Cloud Manager. It doesn't delete your Azure NetApp Files account or volumes. You can add Azure NetApp Files back to Cloud Manager at any time.

Steps

- 1. Open the Azure NetApp Files working environment.
- 2. At the top right of the page, select the actions menu and click **Remove Azure NetApp Files**.



Click Remove to confirm.

Knowledge and support

Register for support

Before you can open a support case with NetApp technical support, you need to add a NetApp Support Site account to Cloud Manager and then register for support.

Add an NSS account

The Support Dashboard enables you to add and manage all of your NetApp Support Site accounts from a single location.

Steps

- 1. If you don't have a NetApp Support Site account yet, register for one.
- 2. In the upper right of the Cloud Manager console, click the Help icon, and select Support.



- 3. Click NSS Management > Add NSS Account.
- 4. When you're prompted, click Continue to be redirected to a Microsoft login page.

NetApp uses Microsoft Azure Active Directory as the identity provider for authentication services specific to support and licensing.

5. At the login page, provide your NetApp Support Site registered email address and password to perform the authentication process.

This action enables Cloud Manager to use your NSS account.

Note the account must be a customer-level account (not a guest or temp account).

Register your account for support

Support registration is available from Cloud Manager in the Support Dashboard.

Steps

In the upper right of the Cloud Manager console, click the Help icon, and select Support.



- 2. In the Resources tab, click Register for Support.
- 3. Select the NSS credentials that you want to register and then click **Register**.

Get help

NetApp provides support for Cloud Manager and its cloud services in a variety of ways. Extensive free self-support options are available 24x7, such as knowledgebase (KB) articles and a community forum. Your support registration includes remote technical support via web ticketing.

Self support

These options are available for free, 24 hours a day, 7 days a week:

· Knowledge base

Search through the Cloud Manager knowledge base to find helpful articles to troubleshoot issues.

Communities

Join the Cloud Manager community to follow ongoing discussions or create new ones.

Documentation

The Cloud Manager documentation that you're currently viewing.

Feedback email

We value your input. Submit feedback to help us improve Cloud Manager.

NetApp support

In addition to the self-support options above, you can work with a NetApp Support Engineer to resolve any issues after you activate support.

Steps

- 1. In Cloud Manager, click **Help > Support**.
- 2. Choose one of the available options under Technical Support:
 - a. Click Call Us to find phone numbers for NetApp technical support.
 - b. Click **Open an Issue**, select one the options, and then click **Send**.

A NetApp representative will review your case and get back to you soon.

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Notice for Cloud Manager 3.9

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