Migration of On-prem SharePoint and SharePoint Online site content with nested file structure to Azure Blob Storage

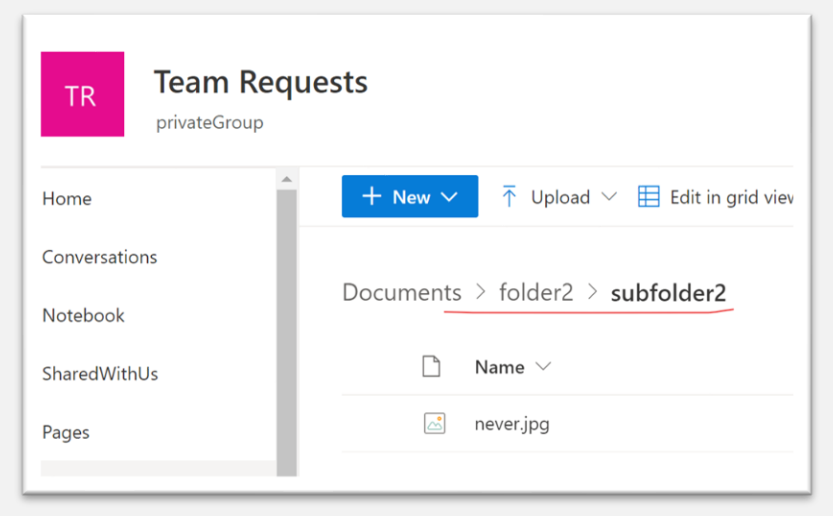
Description

There are limitations encountered with Power Platform and Logic Apps to move nested folders. Also, limitations and more complexity around using Azure file share.

This PowerShell solution will move content, including subfolders and the contents of the subfolders to Azure Blob Storage. This is a common request that we get from customers for archiving content from SharePoint. This solution does this and moves the content to Azure Blob Storage which helps the customer with their document lifecycle management, and manage storage in SharePoint Online, and Microsoft also wins because the customer is now having those files reside in Azure Blob storage driving their Azure consumption.

This powershell solution utilizing CSV file as a source input for list of site collections their associated libraries name and container name it should migrate to. Container can be used for multiple site collections.

Sample document library with nested folders

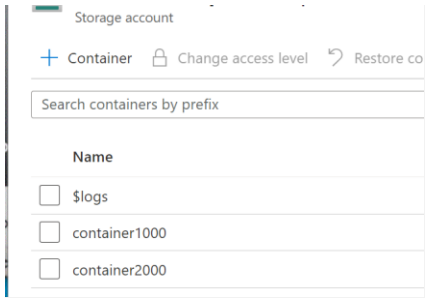


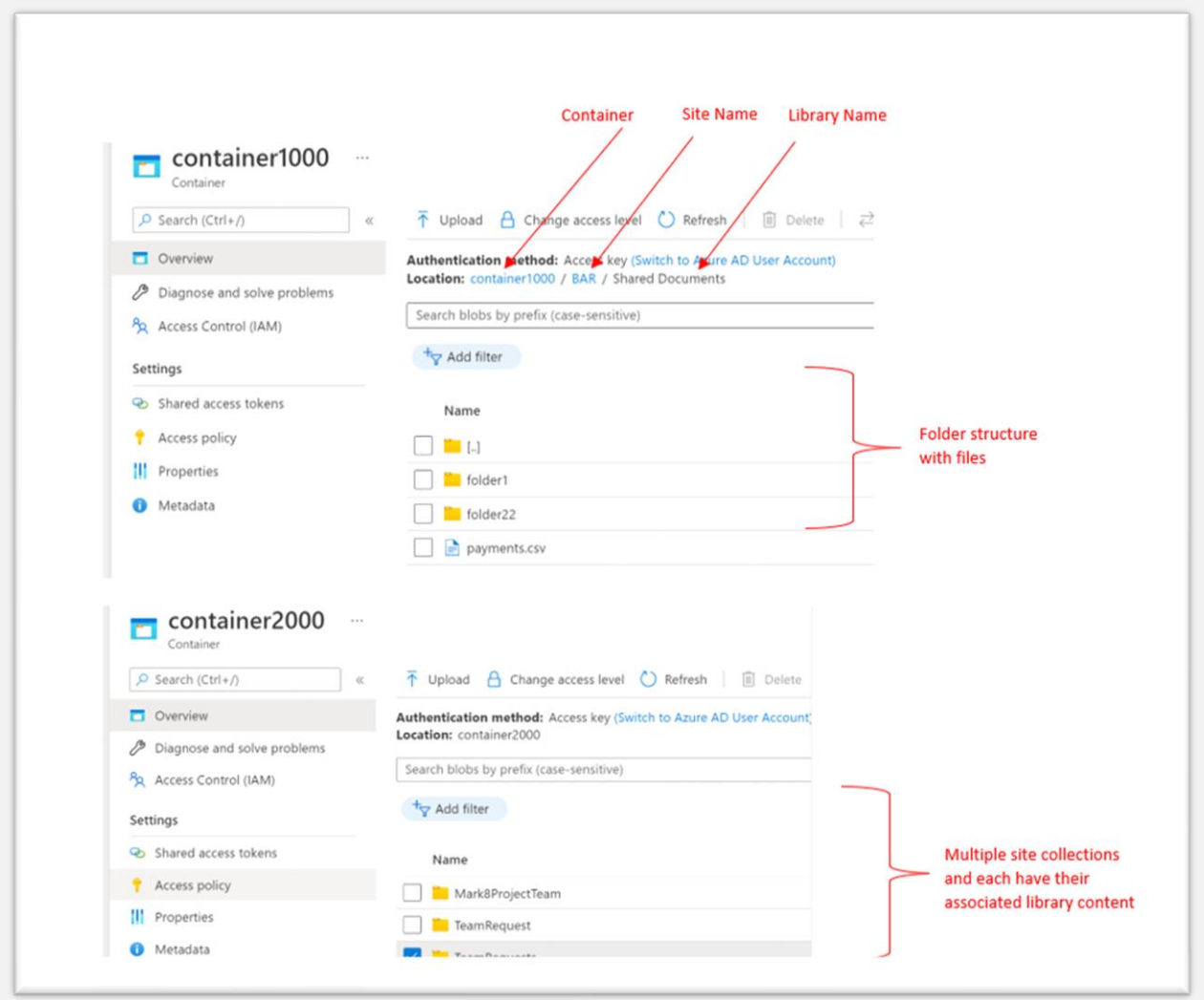
Sample CSV File

Title	SiteUrl	LibraryName	Container
Team requests	https://m365x.sharepoint.com/sites/TeamRequests	Documents	container2000
BAR	https://m365x.sharepoint.com/sites/BAR	Documents	container1000
Mark	https://m365x.sharepoint.com/sites/TeamRequest	Documents	container2000

Azure Storage account after migration

*Containers from CSV file are created in advance manually in **Azure Portal.** Containers associated with each site collection will get the associated content from the site.*

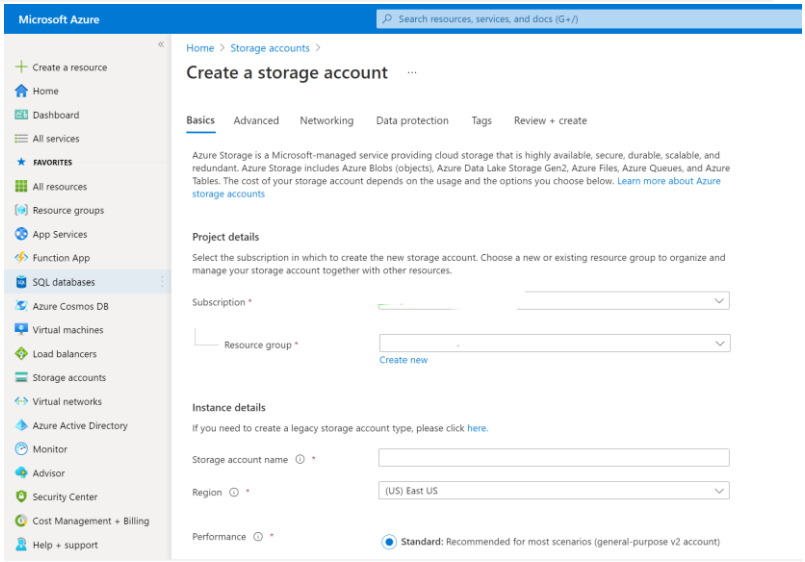




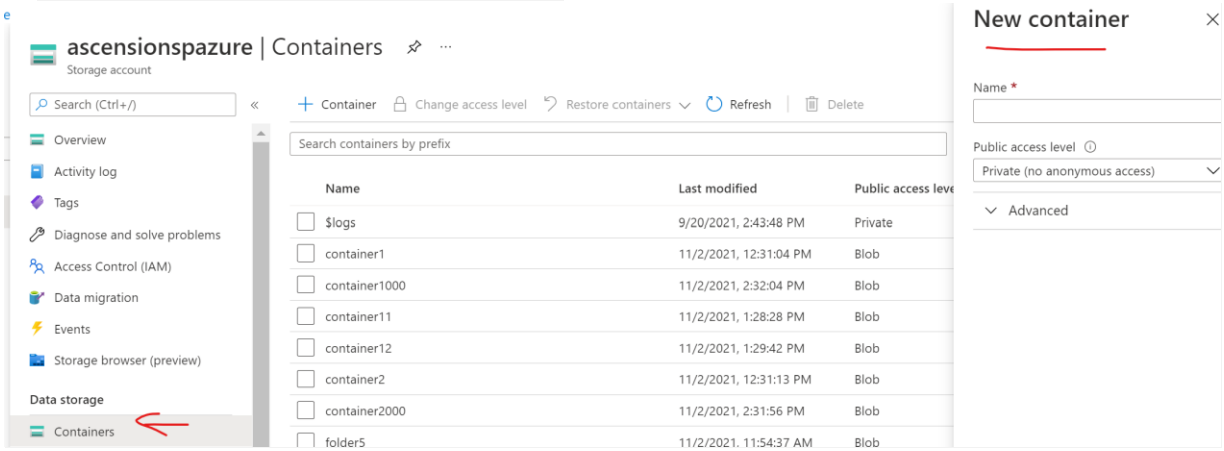
Prerequisites

1. **Create Azure Storage Account**

https://docs.microsoft.com/en-us/azure/storage/common/storage-account-create?tabs=azure-portal

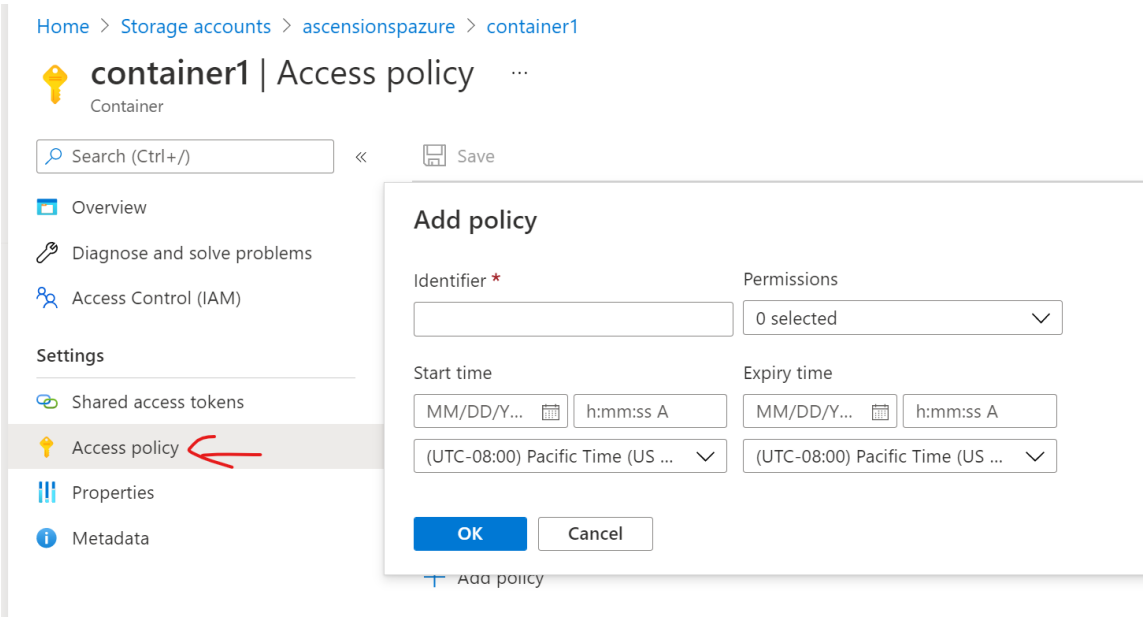


2. **Create containers to store files from Site collection**



- Create Multiple containers to store files for each site collection.

3. **Set Access policy on each container for retention**



4. **Install M365 Cli**

- Search for PowerShell from windows start.
- Select run as Administrator

The CLI for Microsoft 365 is distributed as an NPM package. To use it, install it globally using:

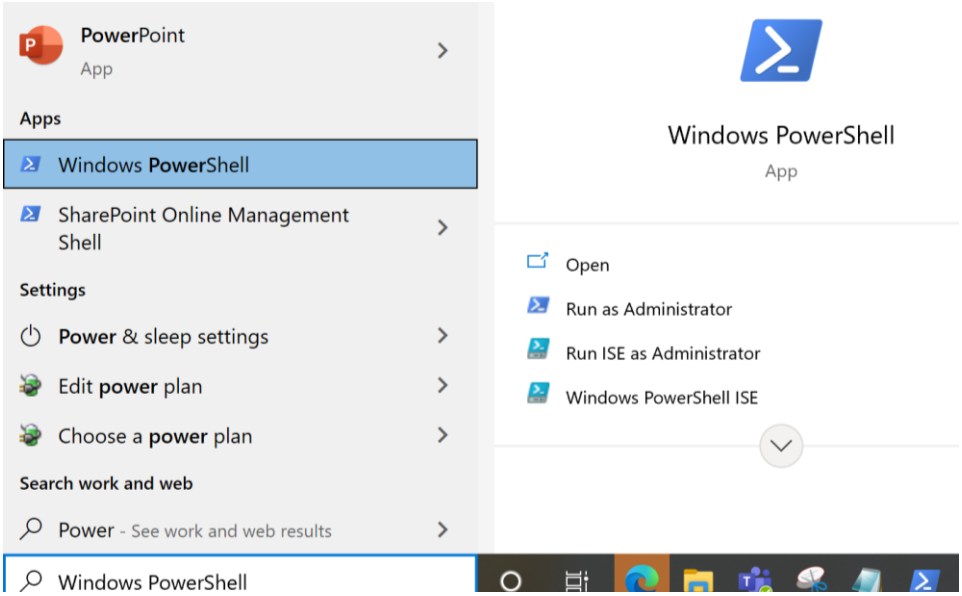
npm i -g @pnp/cli-microsoft365

Run PowerShell script

Start managing the settings of your Microsoft 365 tenant by logging in to it, using the login command, for example:

m365 login

- PowerShell's to get source tenant site inventory and move to Azure Blob storage
- Search for powershell from windows start.
- Select run as Administrator



Go to the folder where your PowerShell's scripts exists

```
PS C:\WINDOWS\system32> cd..
PS C:\WINDOWS> cd..
PS C:\> cd mydocs
PS C:\mydocs> Set-ExecutionPolicy -Scope Process -ExecutionPolicy Bypass

Execution Policy Change
The execution policy helps protect you from scripts that you do not trust. Changing the execution policy might expose
you to the security risks described in the about_Execution_Policies help topic at
https:/go.microsoft.com/fwlink/?LinkID=135170. Do you want to change the execution policy?
[Y] Yes  [A] Yes to All  [N] No  [L] No to All  [S] Suspend  [?] Help (default is "N"): A
PS C:\mydocs>
```

Copy below command and paste into powershell window. Select A after enter

Set-ExecutionPolicy -Scope Process -ExecutionPolicy Bypass

Then run the script as shown below (Replace with your parameters)

```
.\azcopy-sharepoint-azurestorage.ps1  -spoHostName https://sourcetenant.sharepoint.com -azStorageAccountKey DSaFSDFu7P1QMNXQCxoVX+ZDFmYd3MqvGMemOn6h4htu0hvIm8/DFHM24hp0/YGF26B2A -azStorageAccountName ascensionspazure -FilesCollectionOutput "C:\sourcetenantinventory\sourcefilesdetails.csv -localBaseFolderName C:\Users\username\spazuremigration
```