

Uploading Data to Azure Storage (Gen2) Using Azure Storage Explorer

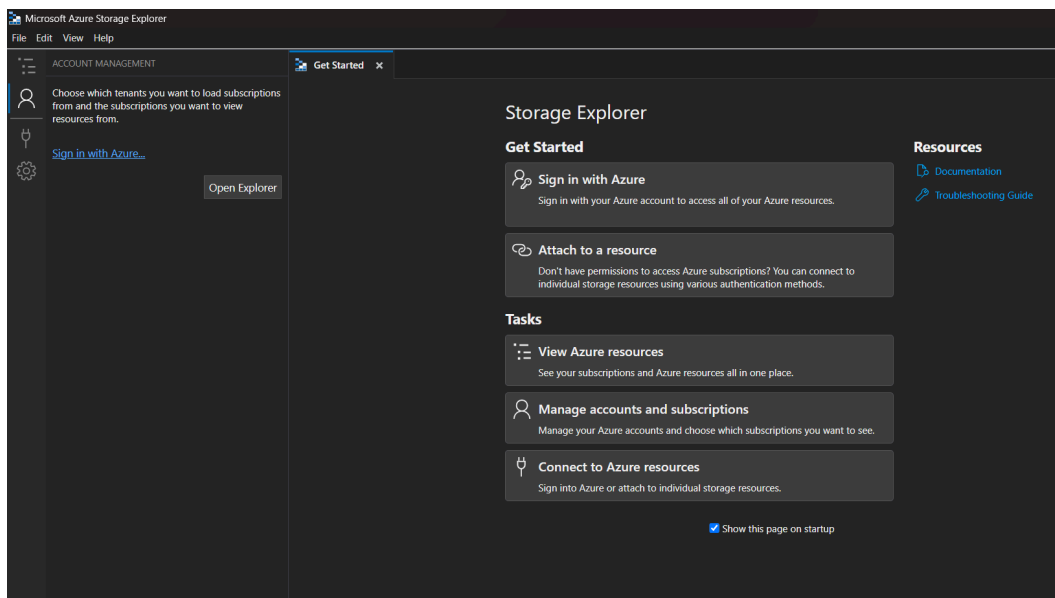
This guide explains how to connect Azure Storage Explorer to your Azure Storage account using a SAS (Shared Access Signature) URL, and upload files to a Data Lake Gen2 container.

Prerequisites

- Azure subscription with **Storage Account (Gen2)** already created.
 - **Azure Storage Explorer** installed on your local system.
 - Storage account container access (via **SAS URL**).
-

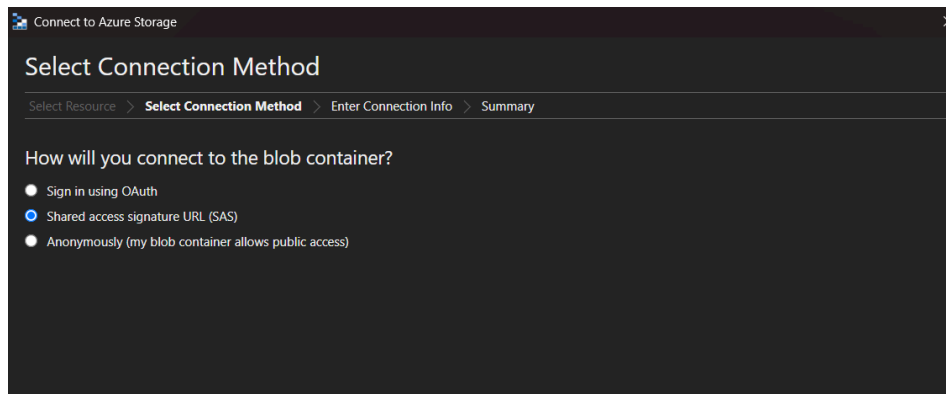
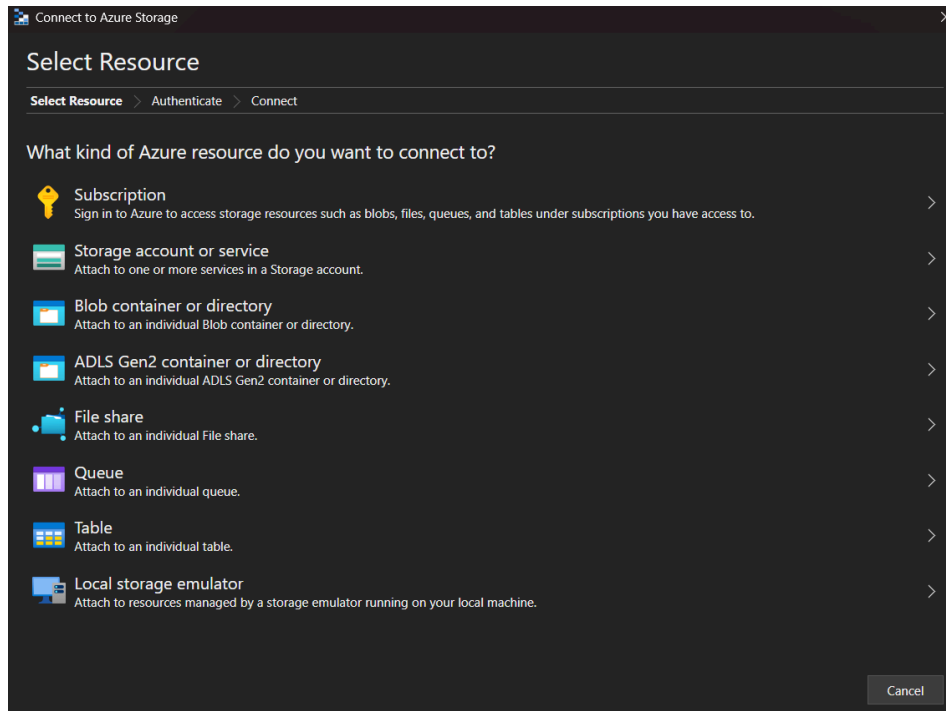
Step 1: Launch Azure Storage Explorer and Connect to Azure Resources

1. Open Azure Storage Explorer.
2. On the left sidebar, click the Account Management button.
3. Click “Connect to Azure resources”.



4. In the connection options, choose:

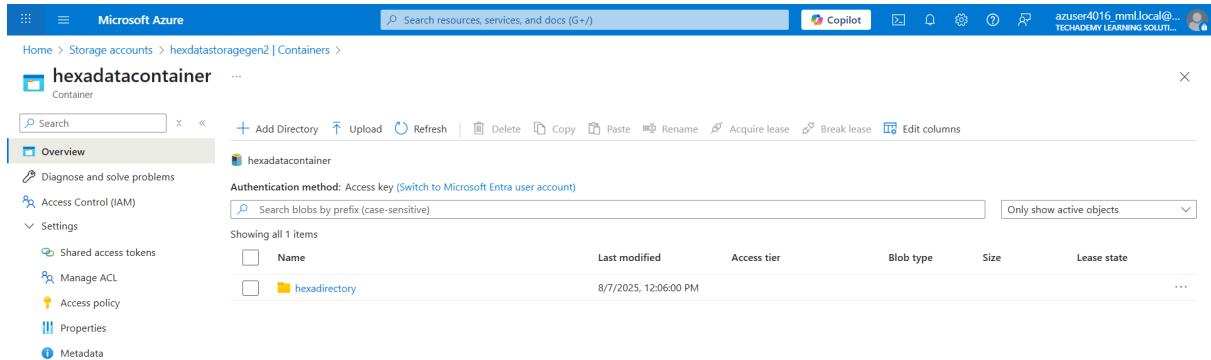
- "Blob container or directory"
- Then select "Shared access signature (SAS) URL"



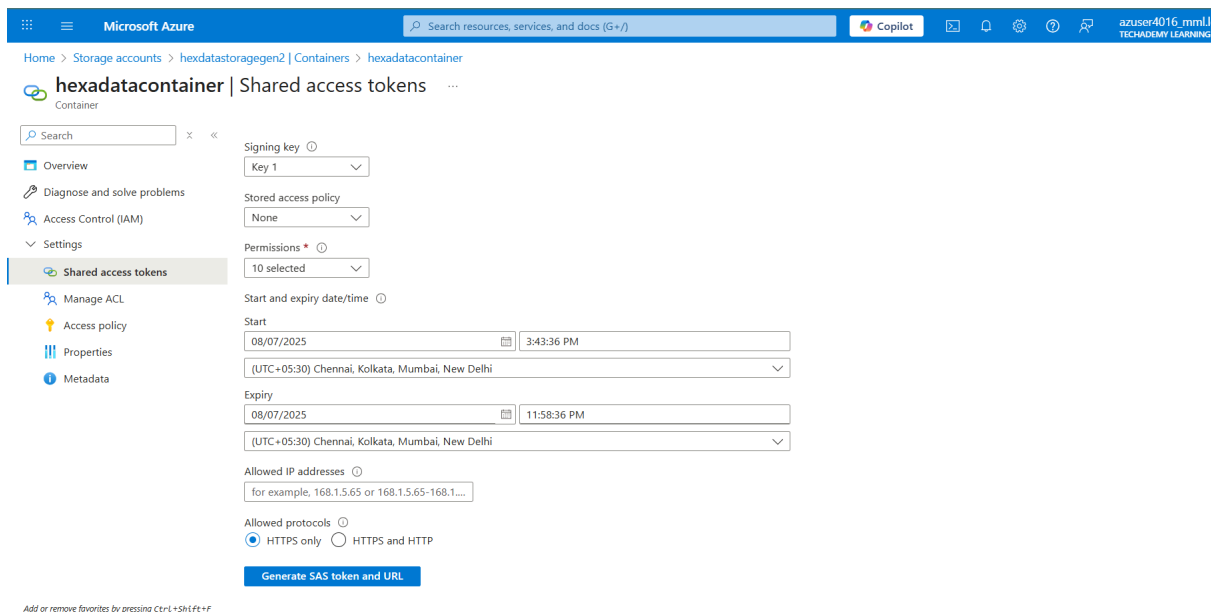
5. Click Next.

Step 2: Generate a SAS URL from Azure Portal

1. Go to <https://portal.azure.com> and log in.
2. Navigate to:
 - Storage Account → Containers
3. Select the target container where you want to upload files.



4. In the left panel, click “Shared access tokens” under Settings.
5. Under Permissions, check all options (Read, Write, Delete, etc.).
6. Click “Generate SAS token and URL”.



7. Copy the Blob SAS URL.

Generate SAS token and URL

Blob SAS token

sp=racwdlmeop&st=2025-08-07T10:13:36Z&se=2025-08-07T18:28:36Z&spr=https&sv=2024-11-04&sr=c&sig=xKGtbP692J5bcks1gSTkbPICKGSc7RMeVbhUzZ6zda0%3D

Blob SAS URL

https://hexdatastoragegen2.blob.core.windows.net/hexadatacontainer?sp=racwdlmeop&st=2025-08-07T10:13:36Z&se=2025-08-07T18:28:36Z&spr=https&sv=2024-11-04&sr=c&sig=xKGtbP692J5bcks1g...

Step 3: Connect to the Container in Storage Explorer

1. Return to Azure Storage Explorer.
2. Paste the Blob SAS URL into the field.
3. Click Next, then Connect.

Connect to Azure Storage

Enter Connection Info

Select Resource > Select Connection Method > Enter Connection Info > Summary

Display name:
hexadatacontainer-1

* Blob container or directory SAS URL:
https://hexdatastoragegen2.blob.core.windows.net/hexadatacontainer?sp=racwdlmeop&st=2025-08-07T10:13:36Z&se=2025-08-07T18:28:36Z&spr=https&sv=2024-11-04&sr=c&sig=xKGtbP692J5bcks1gSTkbPICKGSc7RMeVbhUzZ6zda0%3D

Connect to Azure Storage

Summary

Select Resource > Select Connection Method > Enter Connection Info > Summary

The following settings will be used to connect to your resource:

Display name:

hexadatacontainer-1

Resource name:

hexadatacontainer

Blob endpoint:

https://hexdatastoragegen2.blob.core.windows.net

SAS:

sp=racwdlmeop&st=2025-08-07T10:13:36Z&se=2025-08-07T18:28:36Z&spr=https&sv=2024-11-04&sr=c&sig=xKGtbP692J5bcks1gSTkbPICKGSc7RMeVbhUzZ6zda0%3D

Resource type:

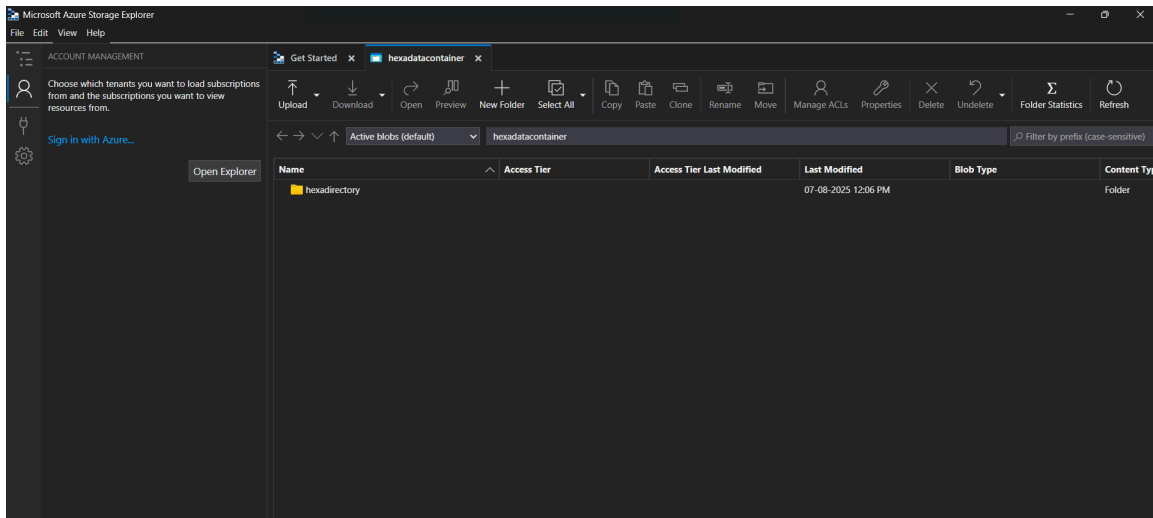
Container

Permissions:

Read, Add, Create, Write, Delete, List, Move, Execute, Ownership, Permissions

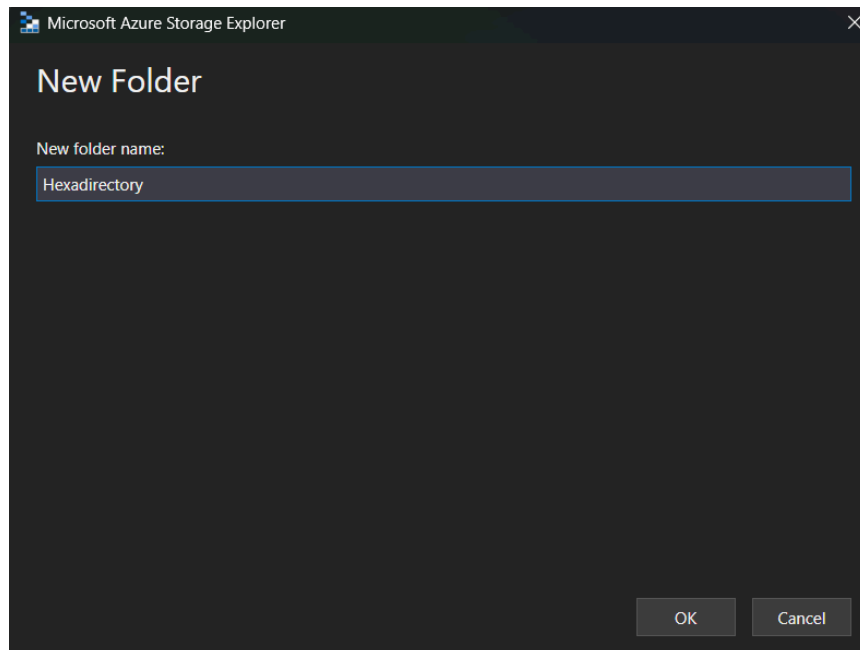
Make sure you only connect to resources you trust.

4. The container will now appear in the Explorer panel on the left.

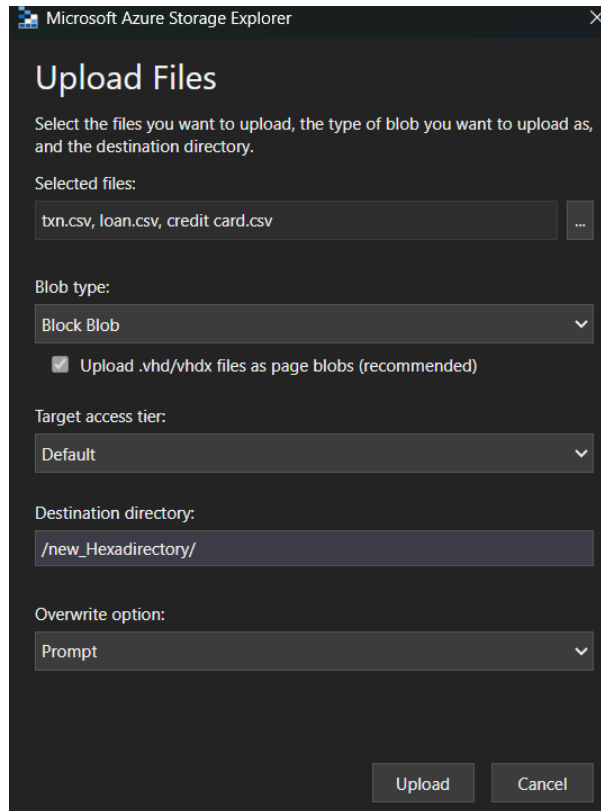


Step 4: Create a Folder and Upload Files

1. Right-click the container or directory where you want to upload.
2. Select "New Folder", name it appropriately.

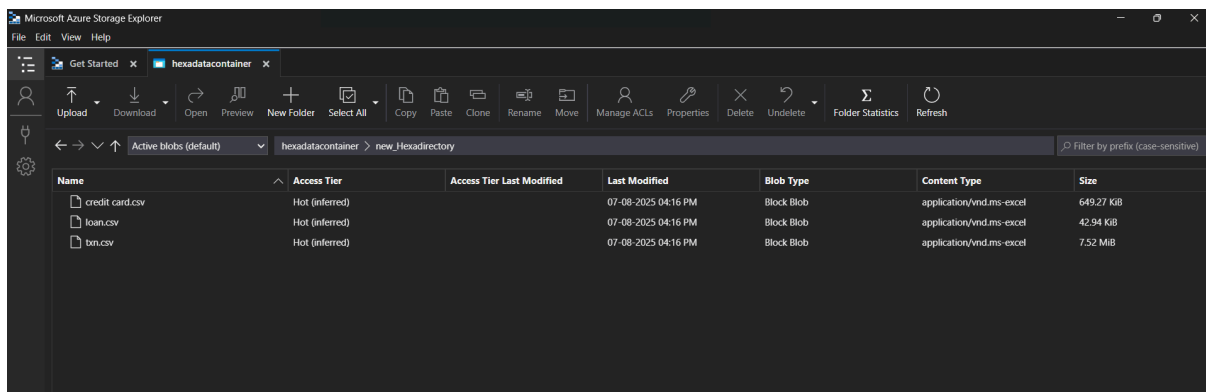


3. Open the folder and click the “Upload” button (top bar or right-click).
4. Choose "Upload Files" or "Upload Folder".
5. Select files from your local machine and click Upload.



Step 5: Verify Upload

- The files will appear inside the new folder in Storage Explorer.



- To cross-check, go back to the Azure Portal → Containers, refresh, and you'll see the uploaded files there as well.

Microsoft Azure

Home > Storage accounts > hexadatastoragegen2 | Containers >

hexadatacontainer

Container

Search

+ Add Directory Upload Refresh Delete Copy Paste Rename Acquire lease Break lease Edit columns

Overview

Diagnose and solve problems

Access Control (IAM)

Settings

Shared access tokens

Manage ACL

Access policy

Properties

Metadata

hexadatacontainer

Authentication method: Access key (Switch to Microsoft Entra user account)

Search blobs by prefix (case-sensitive)

Only show active objects

Showing all 2 items

Name	Last modified	Access tier	Blob type	Size	Lease state
hexadirectory	8/7/2025, 12:06:00 PM				...
new_Hexadirectory	8/7/2025, 4:13:20 PM				...

Microsoft Azure

Home > Storage accounts > hexadatastoragegen2 | Containers >

hexadatacontainer

Container

Search

+ Add Directory Upload Refresh Delete Copy Paste Rename Acquire lease Break lease Edit columns

Overview

Diagnose and solve problems

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hexadatacontainer > new_Hexadirectory

Authentication method: Access key (Switch to Microsoft Entra user account)

Search blobs by prefix (case-sensitive)

Only show active objects

Showing all 3 items

Name	Last modified	Access tier	Blob type	Size	Lease state
[-]					...
credit card.csv	8/7/2025, 4:16:15 PM	Hot (Inferred)	Block blob	649.27 KiB	Available
loan.csv	8/7/2025, 4:16:15 PM	Hot (Inferred)	Block blob	42.94 KiB	Available
txn.csv	8/7/2025, 4:16:17 PM	Hot (Inferred)	Block blob	7.52 MiB	Available

Notes

- **SAS tokens** allow secure access to containers without giving full account keys.
- Make sure the **token is not expired** and includes necessary permissions (read, write, list, etc.).
- Uploaded files will be stored in Azure Data Lake Gen2 and can be accessed by Azure Databricks or other Azure services.