

# Setting up Azure Data Lake Gen2 with Storage Explorer

## Step 1: Set Up Azure Storage Account with Data Lake Gen2

1. Login to Azure Portal.
2. Click “Create a Resource” → “Storage” → “Storage Account”.
3. Fill in the Basics:
  - o Subscription: Choose your subscription.
  - o Resource Group: Create or select one.
  - o Storage Account Name: e.g., hexastorageaz
  - o Region: Choose closest region to you.(Central India)
  - o Performance: Standard
  - o Redundancy: LRS (Locally Redundant Storage)
4. Click on the Advanced tab.
5. Enable Hierarchical Namespace (This turns it into Data Lake Gen2).

The screenshot shows the 'Create a storage account' wizard in the Microsoft Azure portal. The 'Project details' section is visible, showing the selected subscription ('MML Learners') and resource group ('rg-azuser4021\_mml.local-f1NgE'). The 'Instance details' section is also visible, showing the storage account name ('hexastorageaz'), region ('(Asia Pacific) Central India'), and redundancy ('Locally-redundant storage (LRS)'). The 'Performance' section shows 'Standard' selected as the primary service. At the bottom, there are navigation buttons for 'Previous', 'Next', 'Review + create', and a search bar.

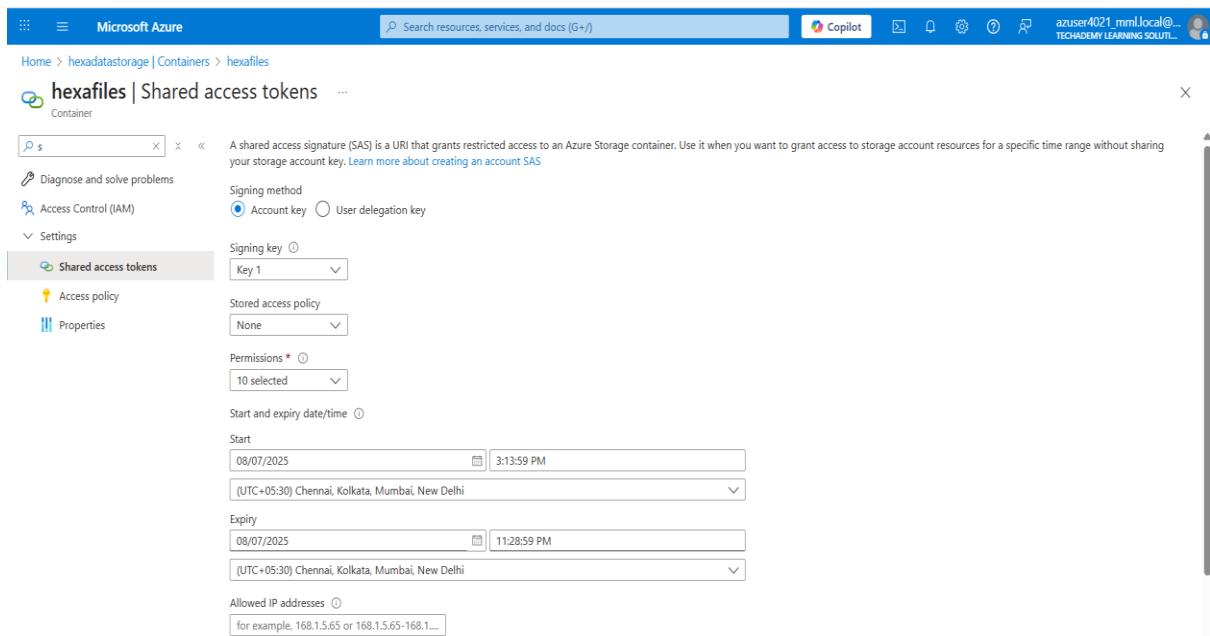
6. Review and hit Create.

## Step 2: Download & Install Azure Storage Explorer

1. Go to: <https://azure.microsoft.com/en-us/features/storage-explorer/>
2. Download and install it based on your OS (Windows, macOS, Linux).
3. Launch the app.

## Step 3: Connect Azure Storage Explorer to Your Azure Account

1. Open Azure Storage Explorer.
2. Click the plug icon (Manage Accounts) on the left.
3. Choose: "Add an Account" → Sign in to your Azure account.
4. Select the subscription where your storage account was created.
5. Now your storage account will appear in the Explorer view.



## Step 4: Create a File System (Blob Container)

1. In the left pane:
  - o Expand: Subscriptions > Storage Accounts > Blob Containers.
2. Right-click Blob Containers → "Create Blob Container".
3. Name it hexafiles → Press Enter.
4. Double-click on hexafiles to open it.

Home > hexadatastorage | Containers > hexafiles

### hexafiles | Shared access tokens

Container

s

Signing key: Key 1

Diagnose and solve problems

Access Control (IAM)

Settings

Shared access tokens

Access policy

Properties

Permissions: 10 selected

Start and expiry date/time

Start: 08/07/2025 3:13:59 PM (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi

Expiry: 08/07/2025 11:28:59 PM (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi

Allowed IP addresses: for example, 168.1.5.65 or 168.1.5.65-168.1...

Allowed protocols:  HTTPS only  HTTPS and HTTP

Generate SAS token and URL

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Generate SAS token and URL

Blob SAS token: sp=racwdlmeop&st=2025-08-07T09:43:59Z&se=2025-08-07T17:58:59Z&spr=https&sv=2024-11-04&sr=c&sig=clyaz25etilMnglnQ32StE3JN5DnWMQpW2BxraDy0B%zB30%3D

Blob SAS URL: https://hexadatastorage.blob.core.windows.net/hexafiles?sp=racwdlmeop&st=2025-08-07T09:43:59Z&se=2025-08-07T17:58:59Z&spr=https&sv=2024-11-04&sr=c&sig=clyaz25etilMnglnQ32StE3JN5DnW...

## Step 5: Create Folders Inside the Blob Container

1. Inside hexafiles, click "New Folder" from the top menu.
2. Name the folder sample.
3. Double-click into sample.
4. Again, click "New Folder" → name it data.

Final structure: hexafiles /sample/data

Microsoft Azure Storage Explorer

File Edit View Help

EXPLORER

Get Started hexadatastorage hexafiles

Sign in with Azure

Attach to a resource

View Azure resources

Manage accounts and subscriptions

Connect to Azure resources

Resources

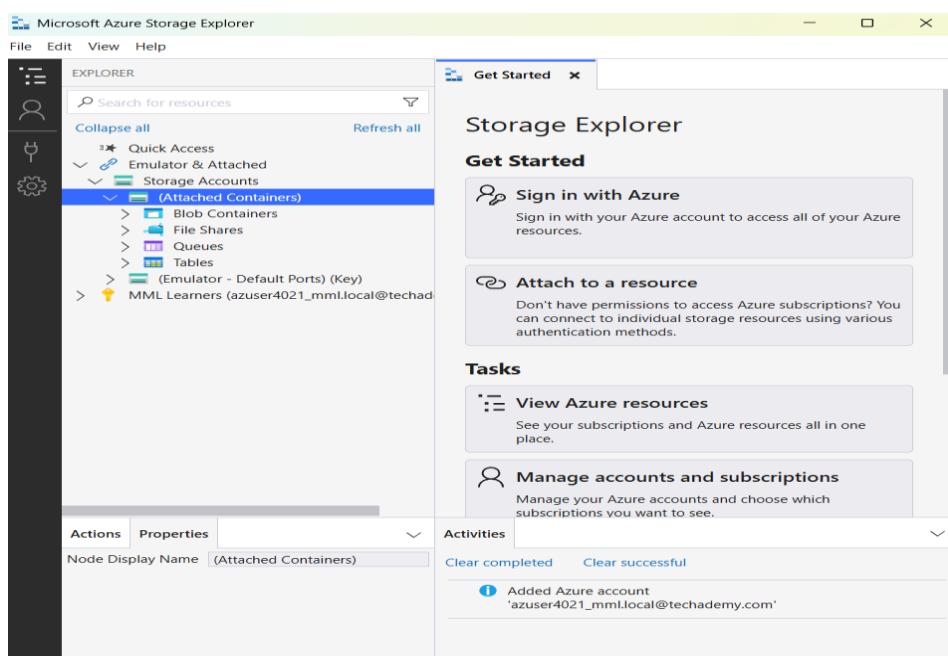
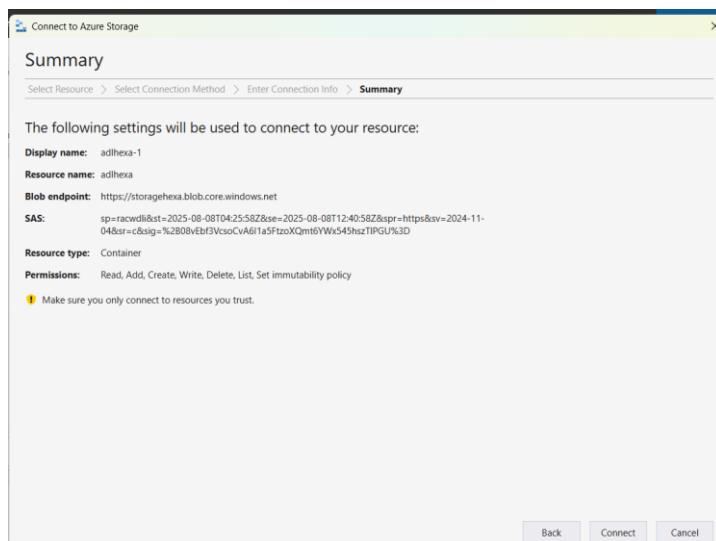
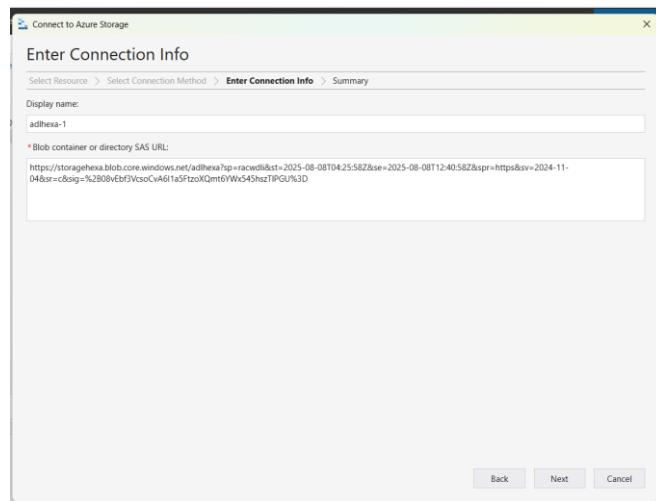
Documentation

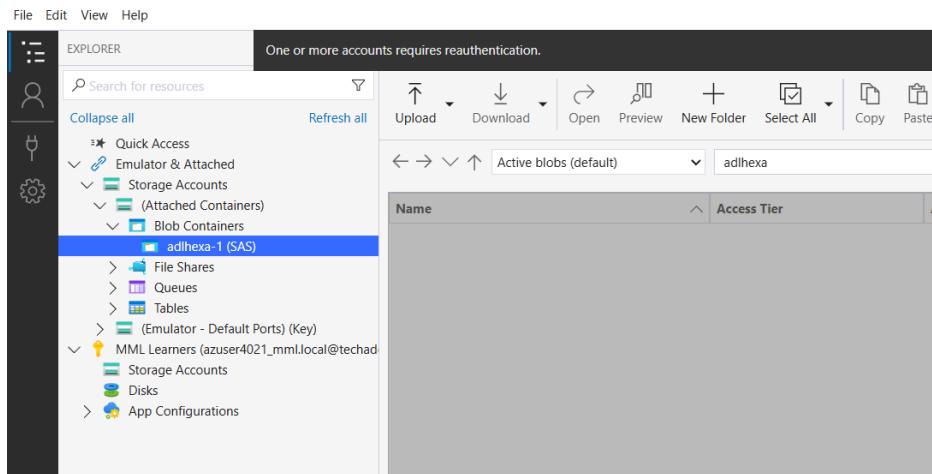
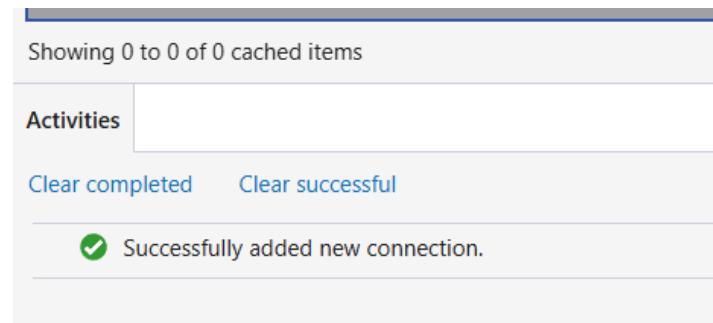
Troubleshooting Guide

Tasks

Show this page on startup

Actions Properties Activities





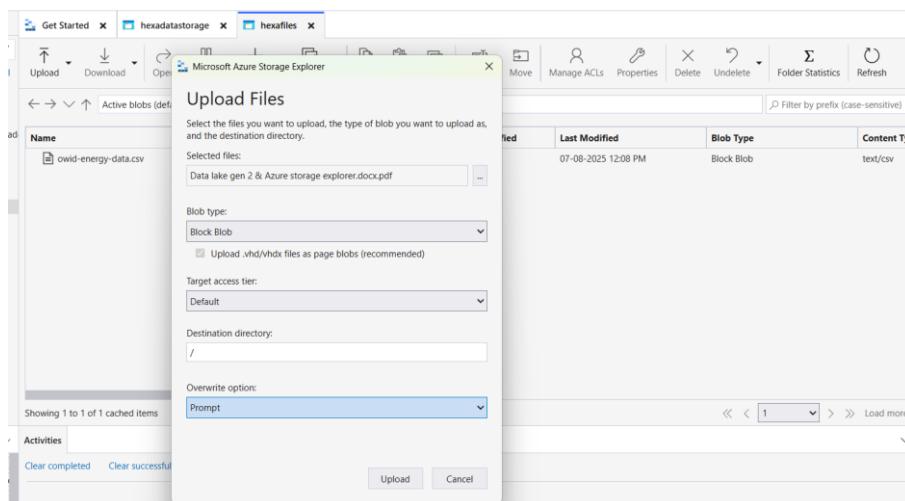
## Step 6: Prepare a Sample File to Upload

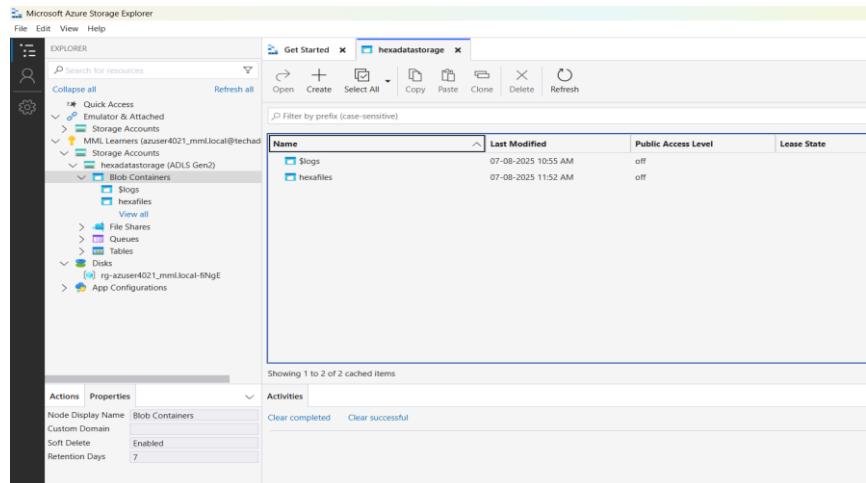
1. On your local machine, open any files that wanted to be uploaded.

## Step 7: Upload the File to Azure Data Lake (Using Storage Explorer)

1. In Storage Explorer, go to: hexafiles /sample/data.
2. Click Upload > Upload Files.
3. Browse and select the file.
4. Click Upload.

Your file will appear in the data folder.





## Step 8: Download File from Azure to Local Machine

1. Right-click on the file inside Storage Explorer.
2. Click Download.
3. Choose a location on your computer to save the file.

## Tasks completed:

- Created a Data Lake Gen2 account.
- Connected it using Azure Storage Explorer.
- Built a folder structure.
- Uploaded and downloaded files.