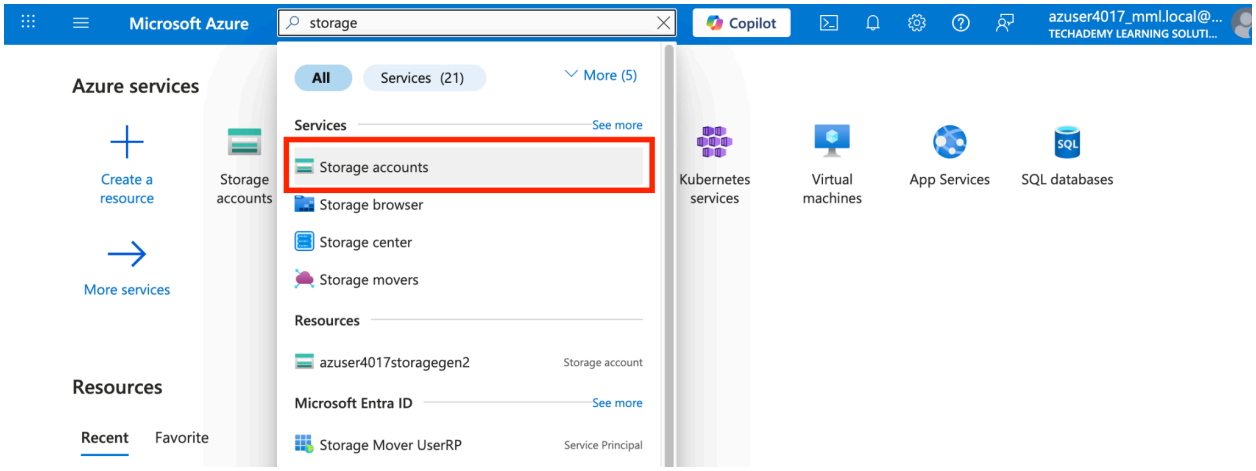
Azure Databricks Assignment:

Data Lake Gen2 and Azure Storage Explorer

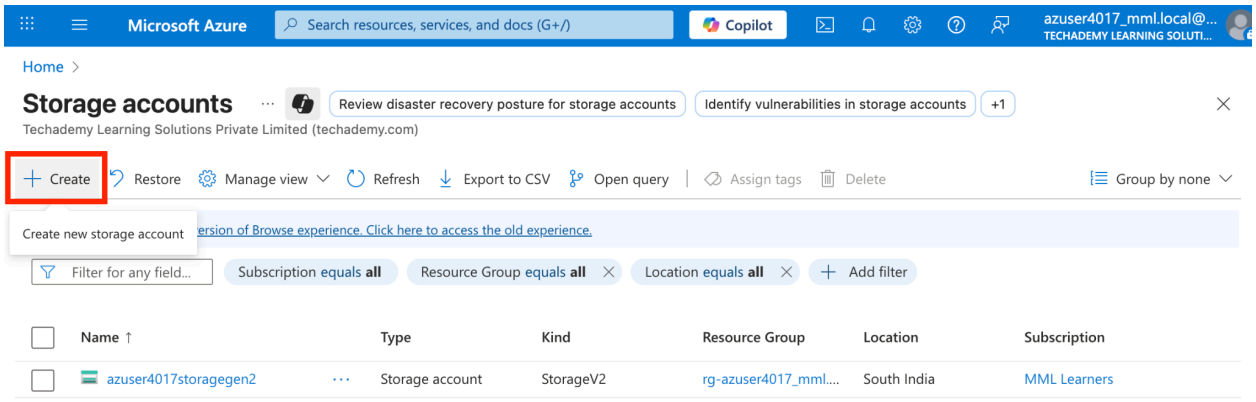
By Esaq

I. Azure Storage Accounts Set Up:

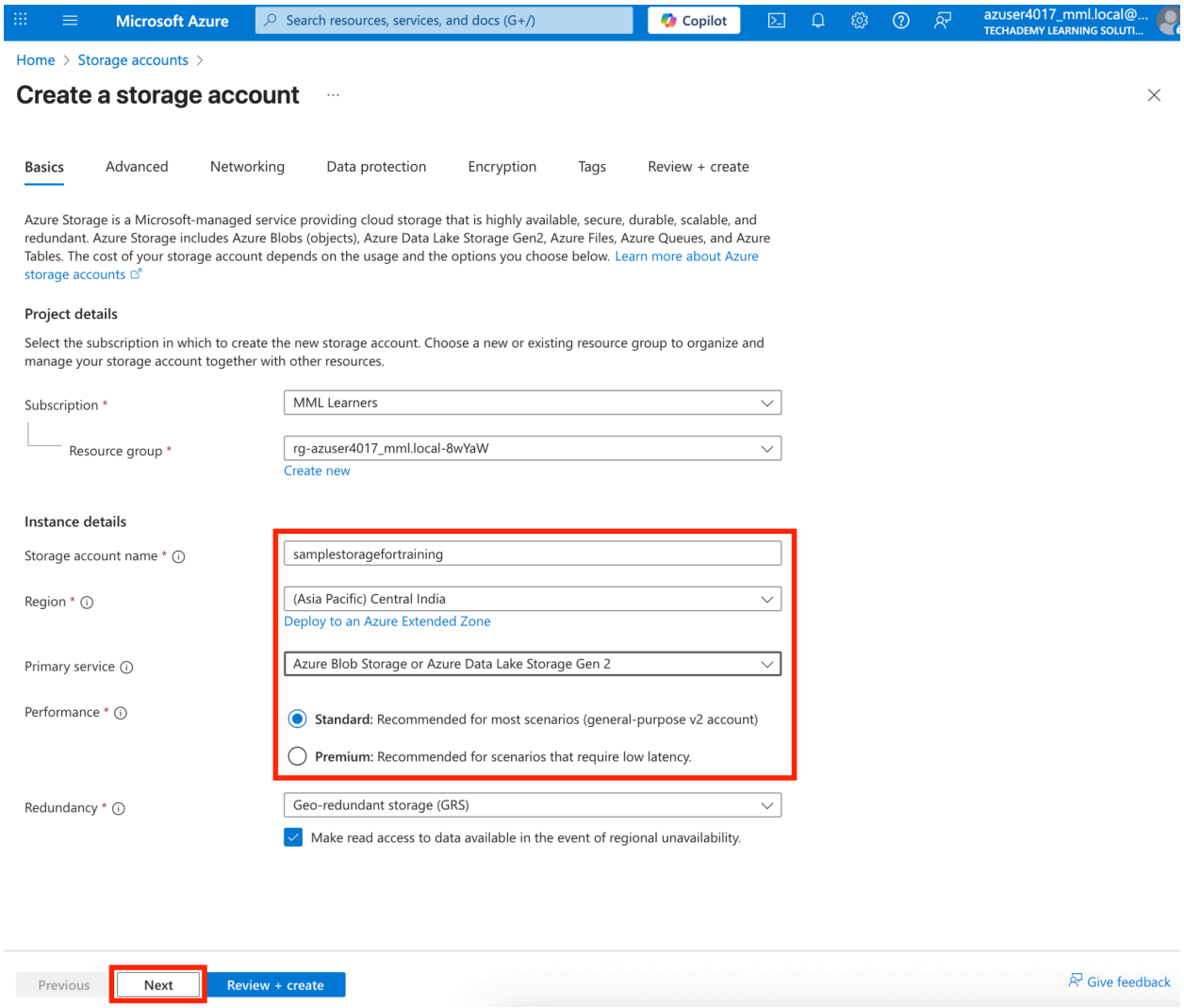
- Login to Azure Portal and search for Storage Accounts and select.



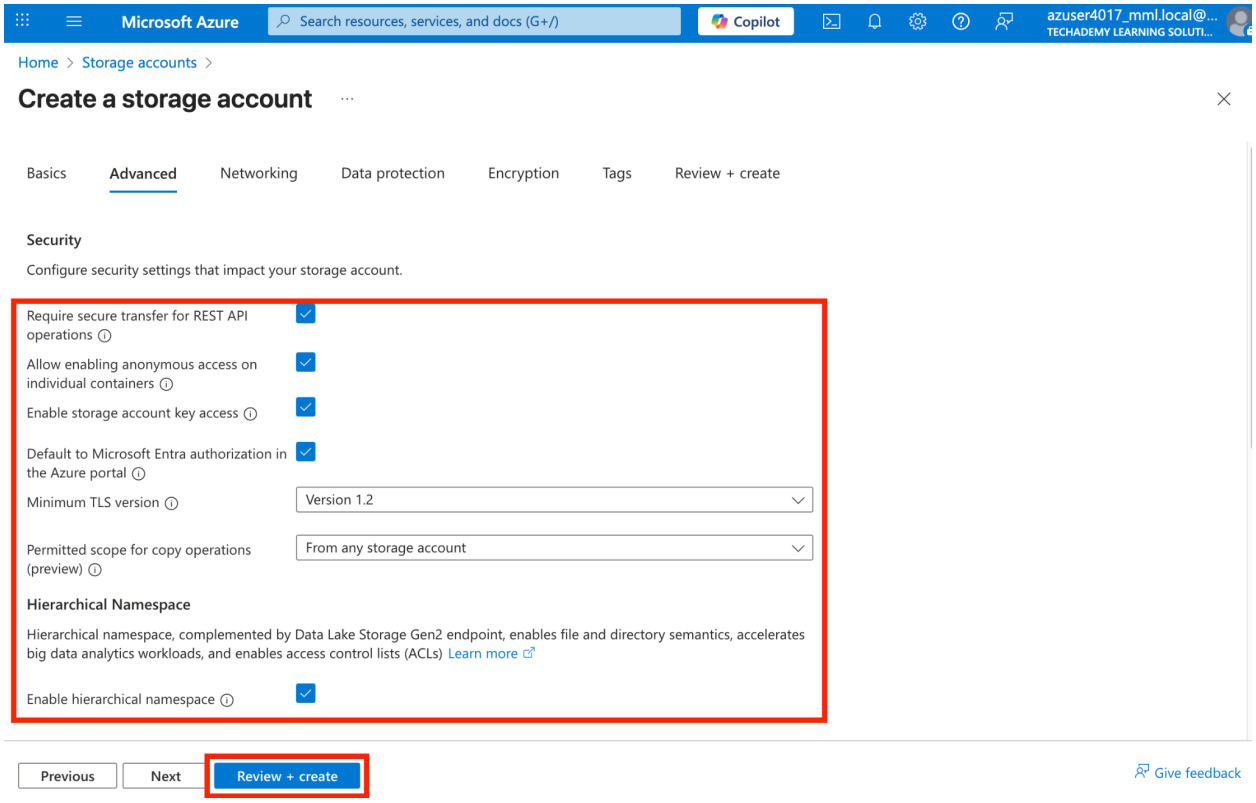
- Click on Create option

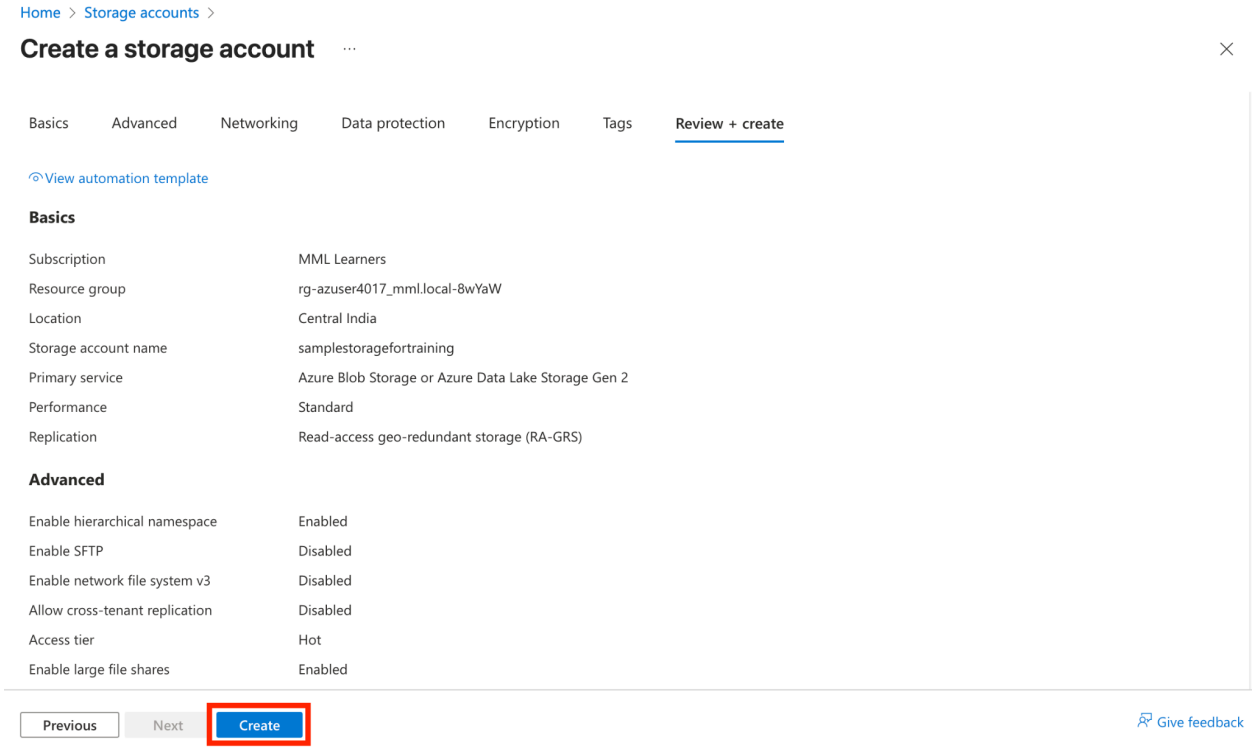


- Only change the Name, Region, and Performance and click Next

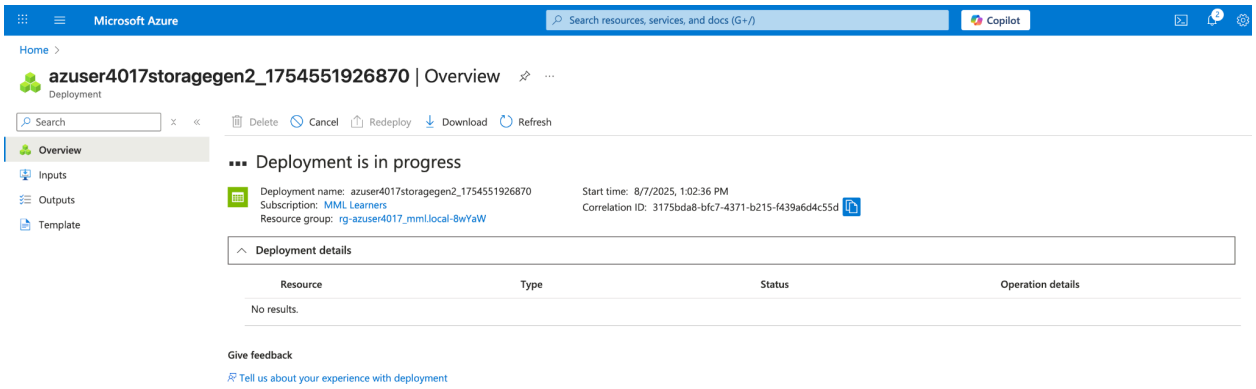


- In the Advanced Section, let all the 5 checkboxes be checked. Especially, the Hierarchical Namespaces checkbox which allows us to have advanced file system capabilities like directory-level security and atomic operations, essential for big data analytics.

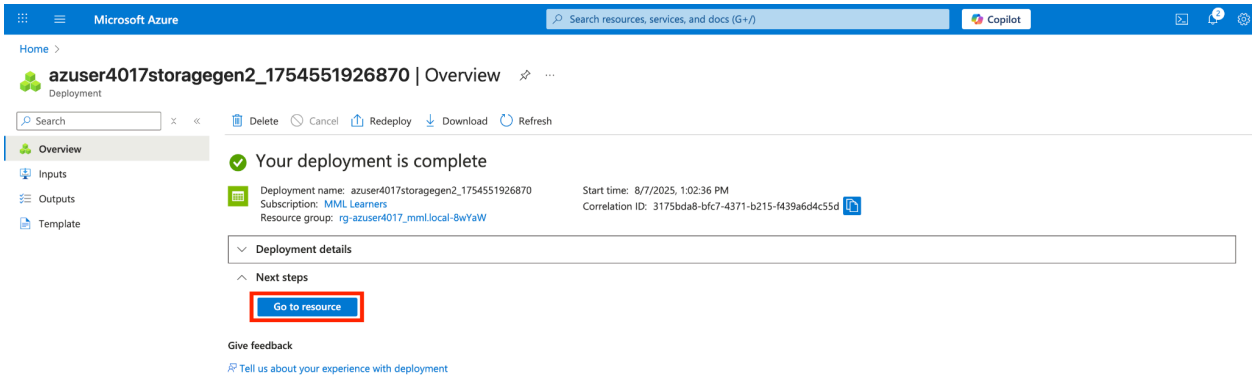

Microsoft Azure
Search resources, services, and docs (G+/)
Copilot
azuser4017_mml.local@...
TECHADEMY LEARNING SOLUTI...
Home > Storage accounts >
Create a storage account
Basics
Advanced
Networking
Data protection
Encryption
Tags
Review + create
Security
Configure security settings that impact your storage account.
Require secure transfer for REST API operations
Allow enabling anonymous access on individual containers
Enable storage account key access
Default to Microsoft Entra authorization in the Azure portal
Minimum TLS version
Version 1.2
Permitted scope for copy operations (preview)
From any storage account
Hierarchical Namespace
Hierarchical namespace, complemented by Data Lake Storage Gen2 endpoint, enables file and directory semantics, accelerates big data analytics workloads, and enables access control lists (ACLs) Learn more
Enable hierarchical namespace
Previous
Next
Review + create
Give feedback


Home > Storage accounts >
Create a storage account
Basics
Advanced
Networking
Data protection
Encryption
Tags
Review + create
View automation template
Basics
Subscription
MML Learners
Resource group
rg-azuser4017_mml.local-8wYaW
Location
Central India
Storage account name
samplestoragefortraining
Primary service
Azure Blob Storage or Azure Data Lake Storage Gen 2
Performance
Standard
Replication
Read-access geo-redundant storage (RA-GRS)
Advanced
Enable hierarchical namespace
Enabled
Enable SFTP
Disabled
Enable network file system v3
Disabled
Allow cross-tenant replication
Disabled
Access tier
Hot
Enable large file shares
Enabled
Previous
Next
Create
Give feedback

- Now that all the necessary changes in the setting has been done, click on Create.

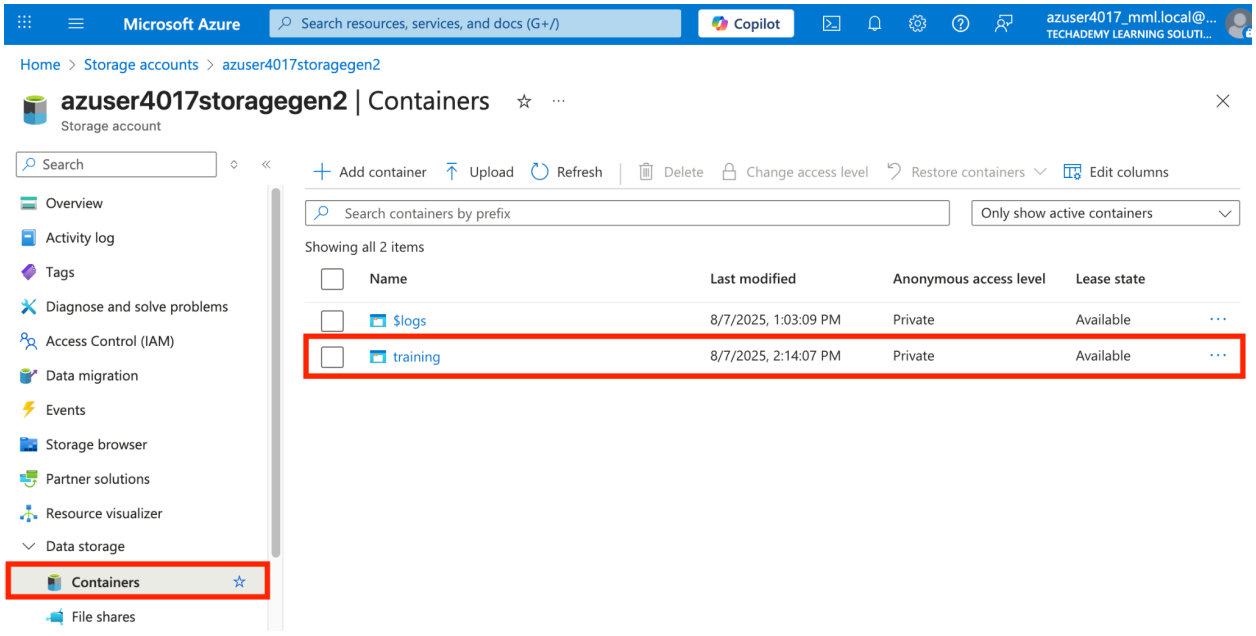


- Wait for the deployment to be completed, once completed click on Go to resource

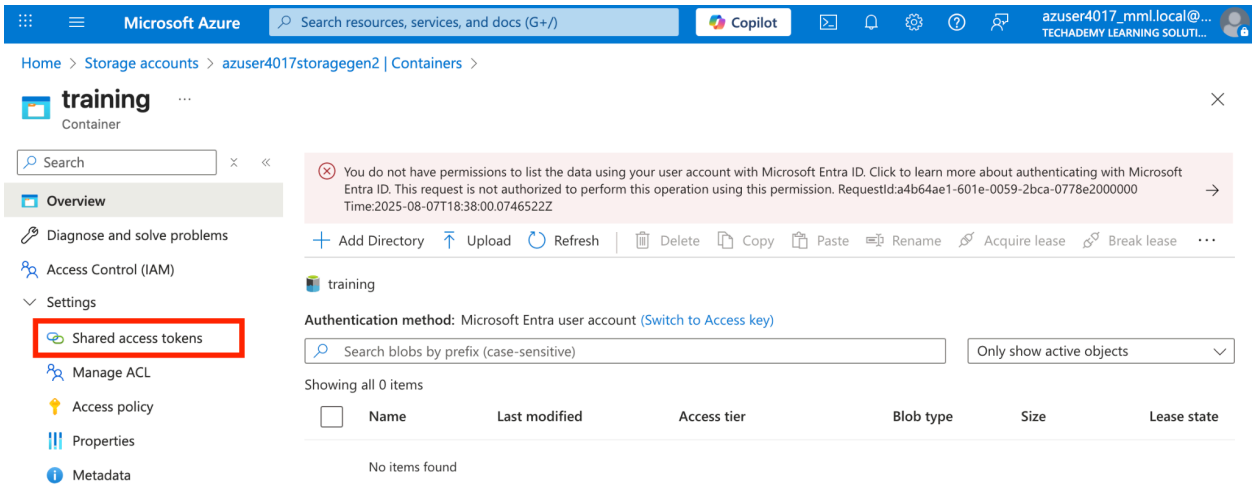


II. Connection to Azure Storage Explorer:

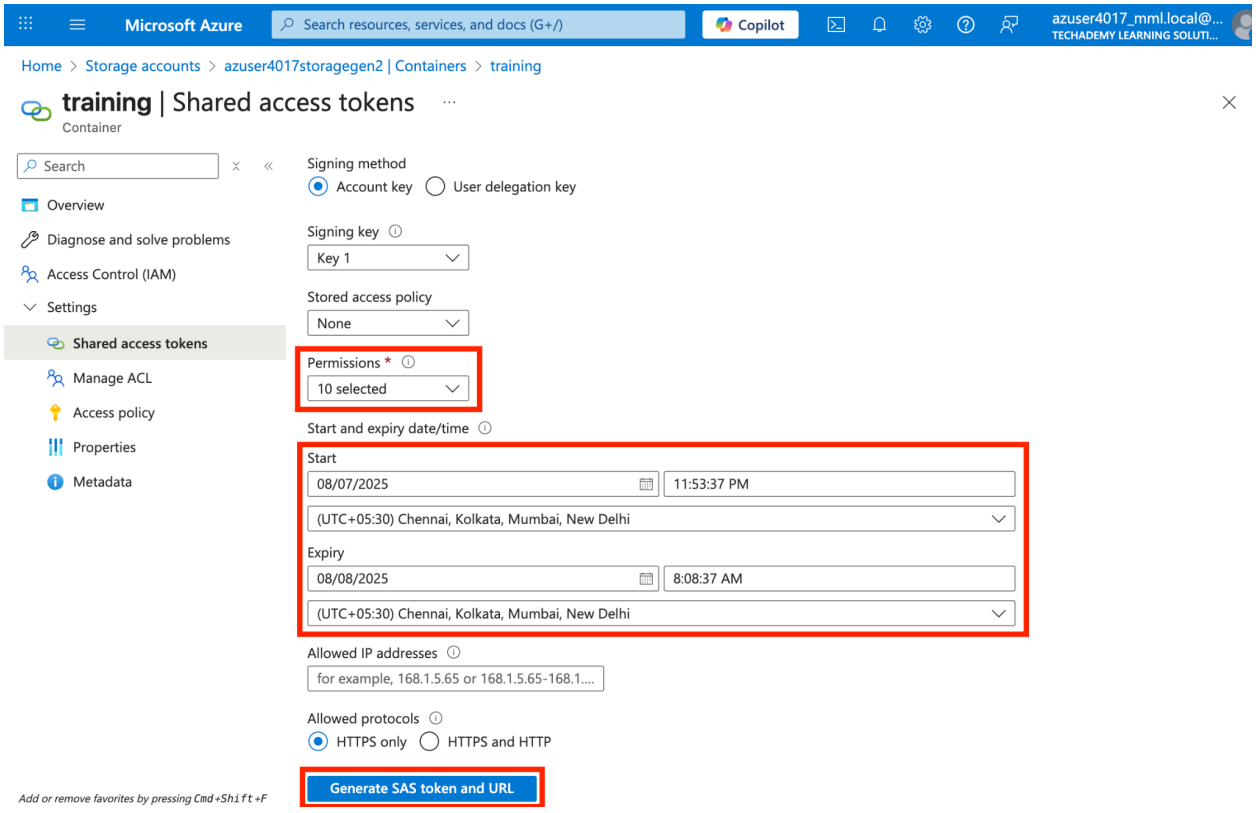
- Now click on Containers from the left side bar. And select your Container.



- Now click on the Shared access tokens.

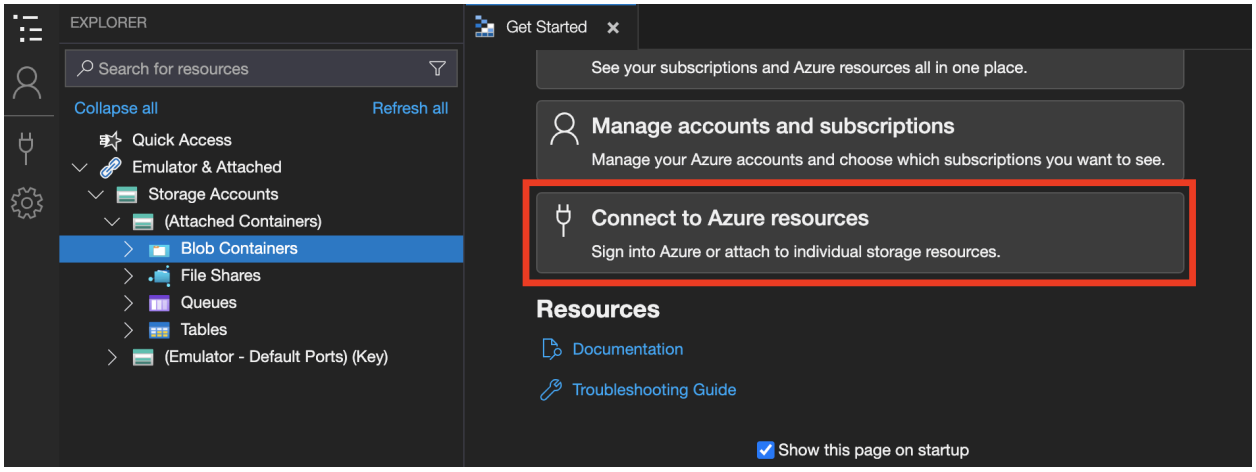


- In Permissions dropdown, select all the permissions and choose your expiry date.

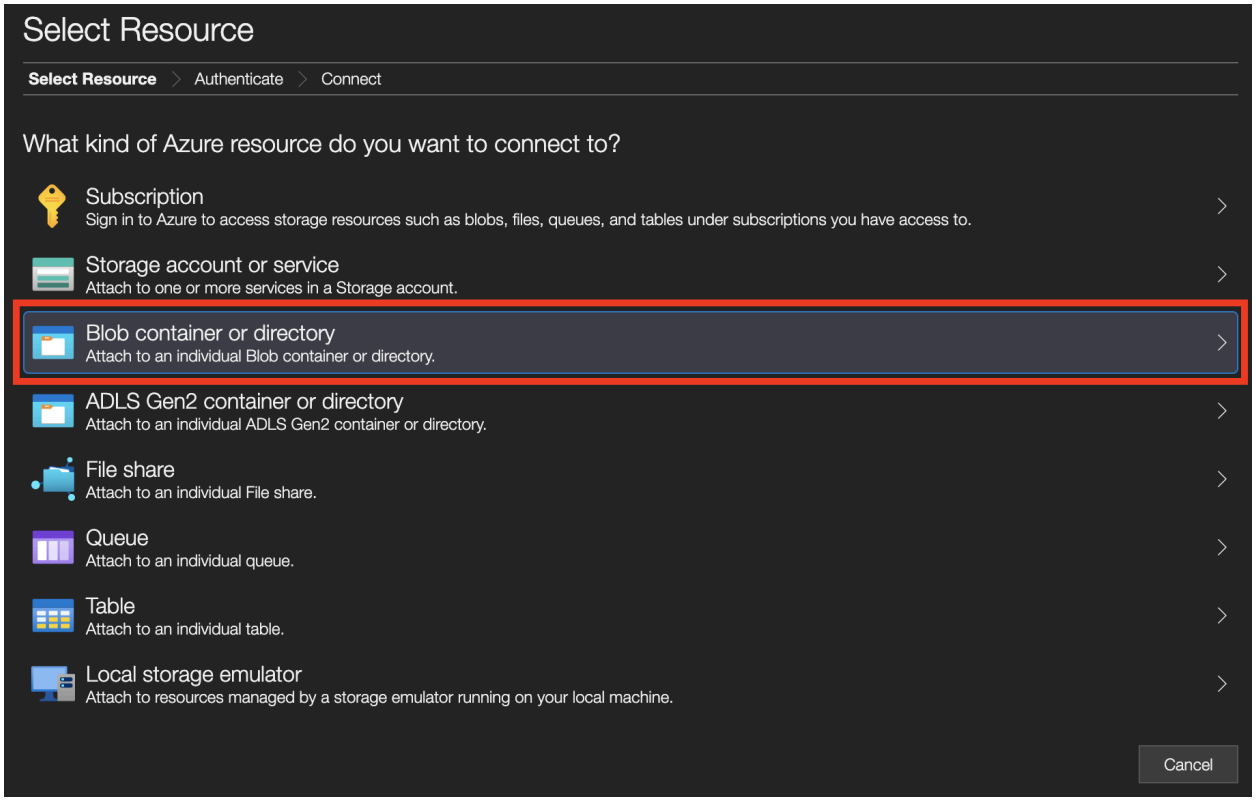


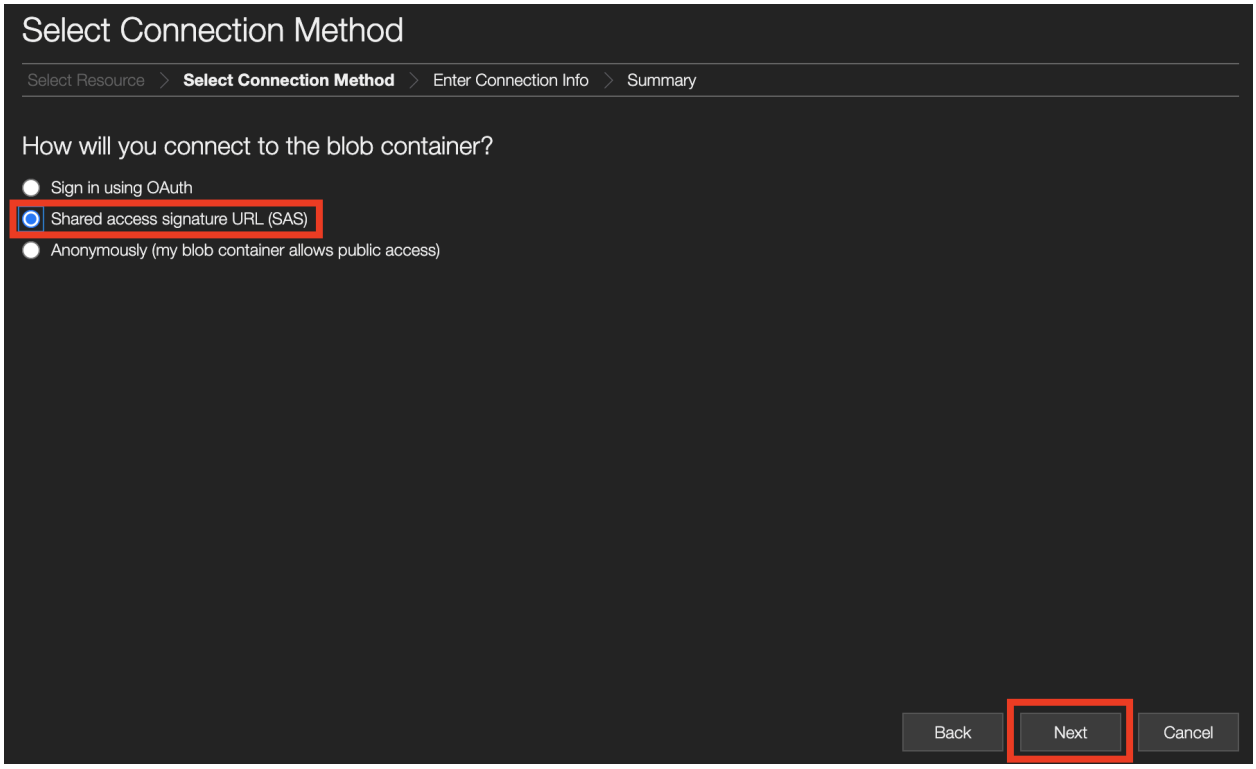
- After setting up, click on Generate SAS token and URL. Copy your SAS URL

- Open Azure Storage Explorer, and click on Connect to Azure Resources:

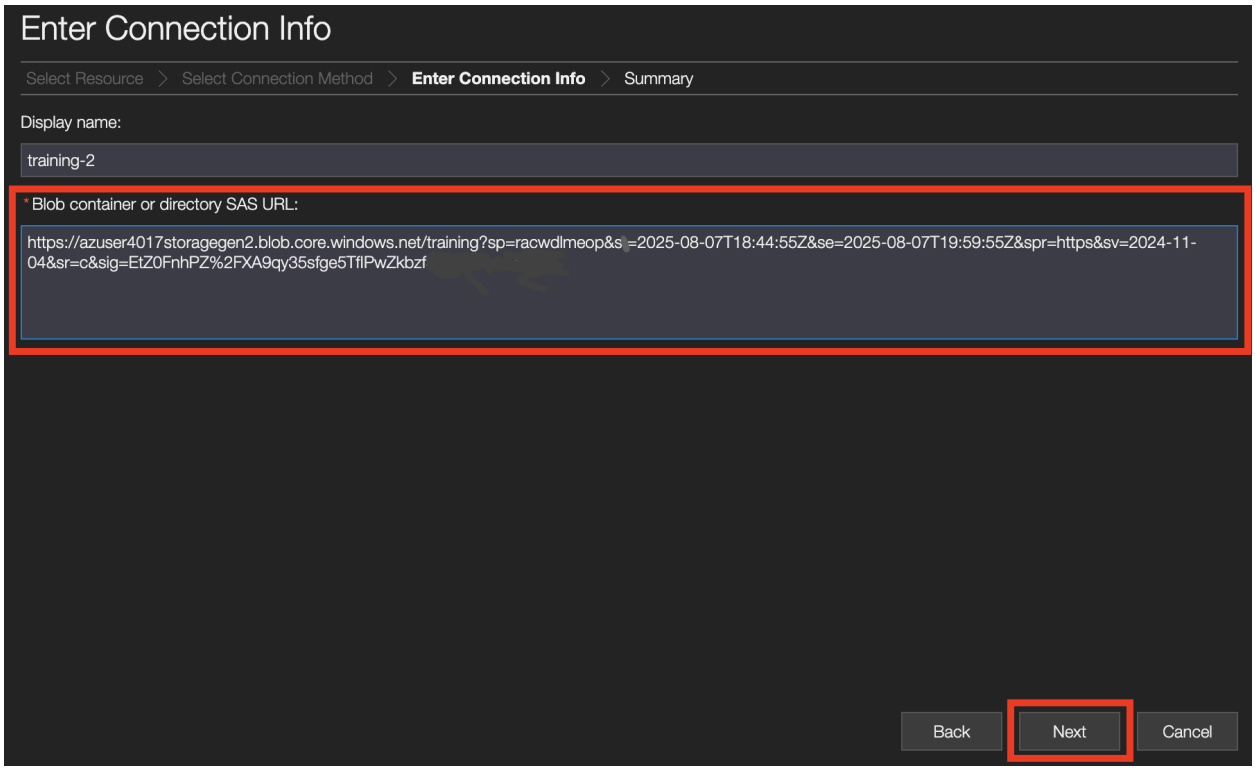


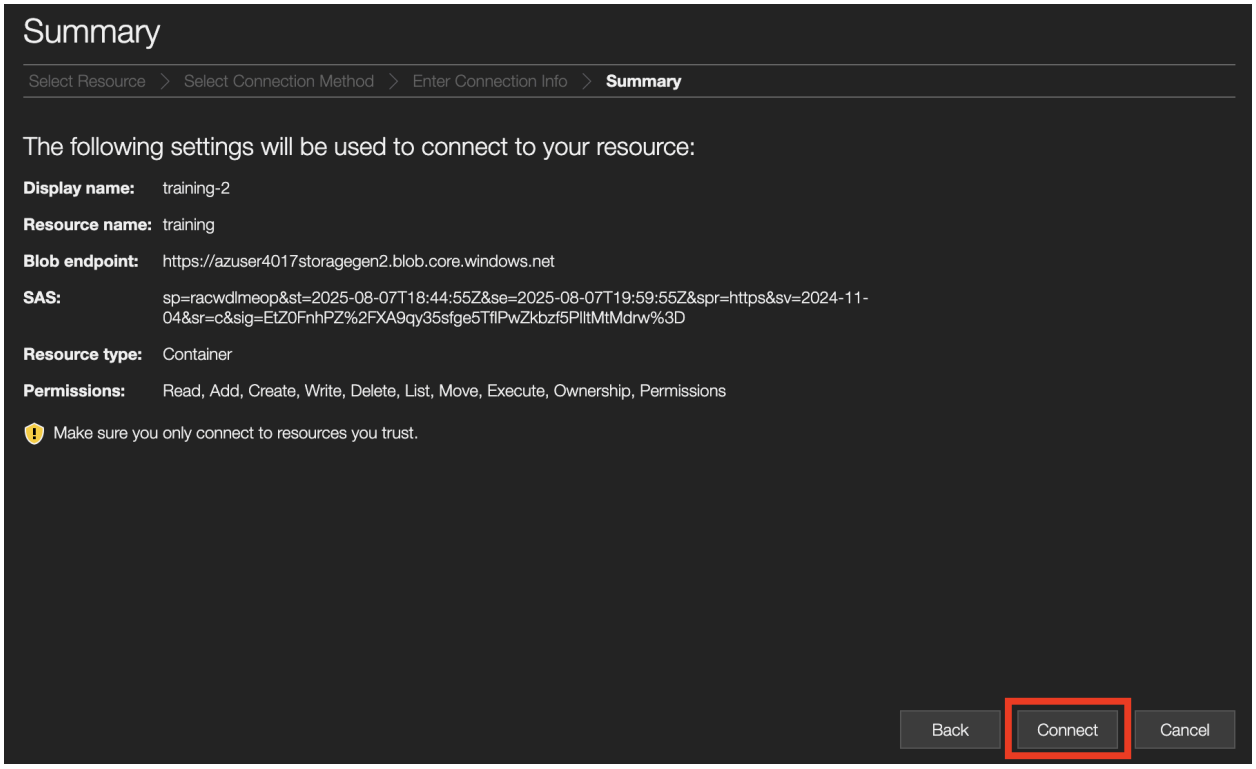
- Here, select Blob container or directory, choose Shared access sign URL choice



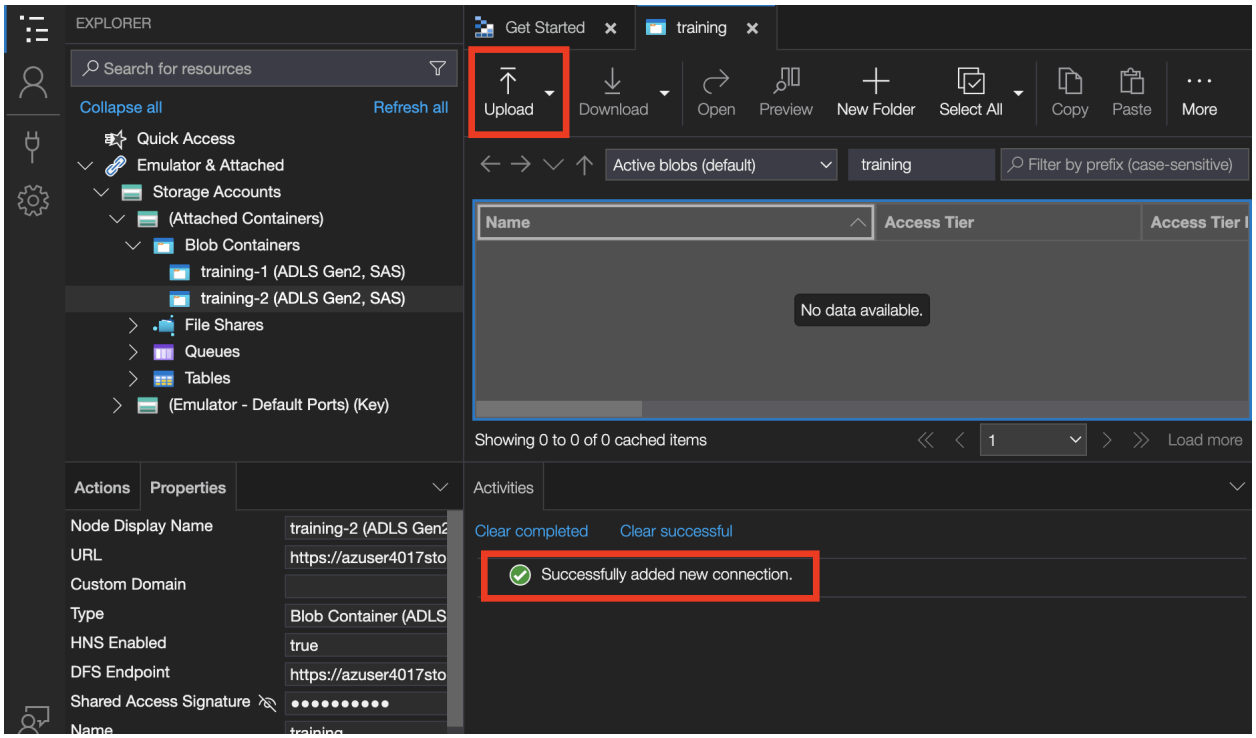


- Click next, paste the Access URL from the Portal. And click Next and Connect.

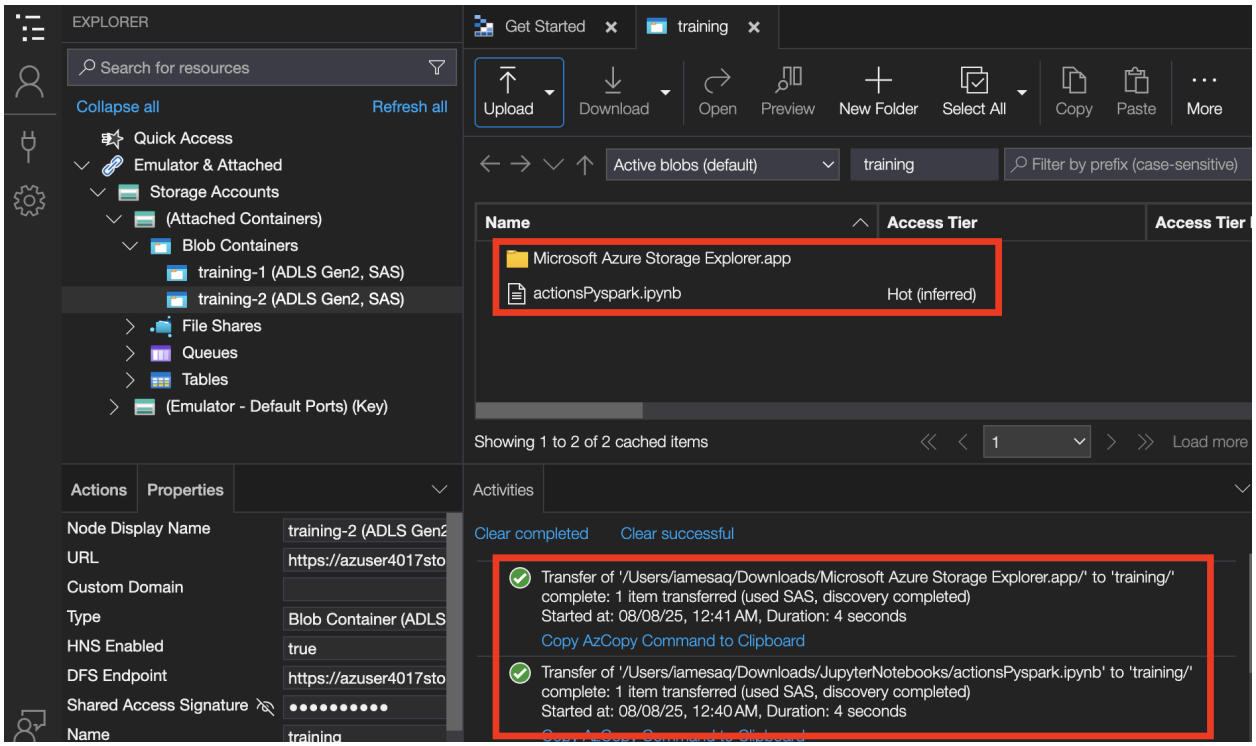




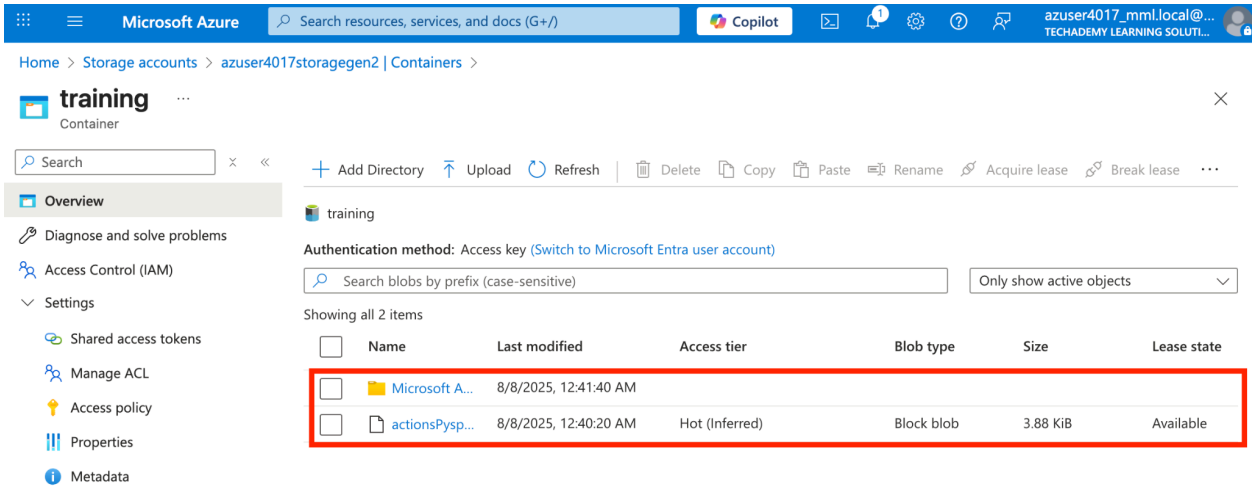
- Now our connection was successful, we can test if the connection worked by uploading a file from the system.



- The both selected files upload was successful.



- To verify if connection work, go to storage account and check if any files are there in the Container:



- Hence, the connection of Storage account's container to Azure Storage Explorer was successful.