

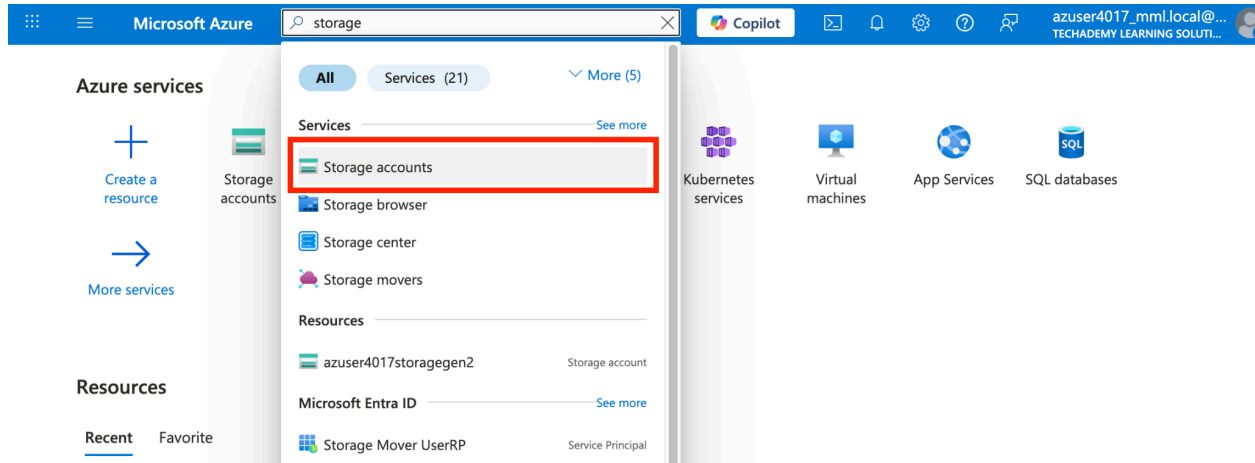
Azure Databricks Assignment:

Data Lake Gen2 and Azure Storage Explorer

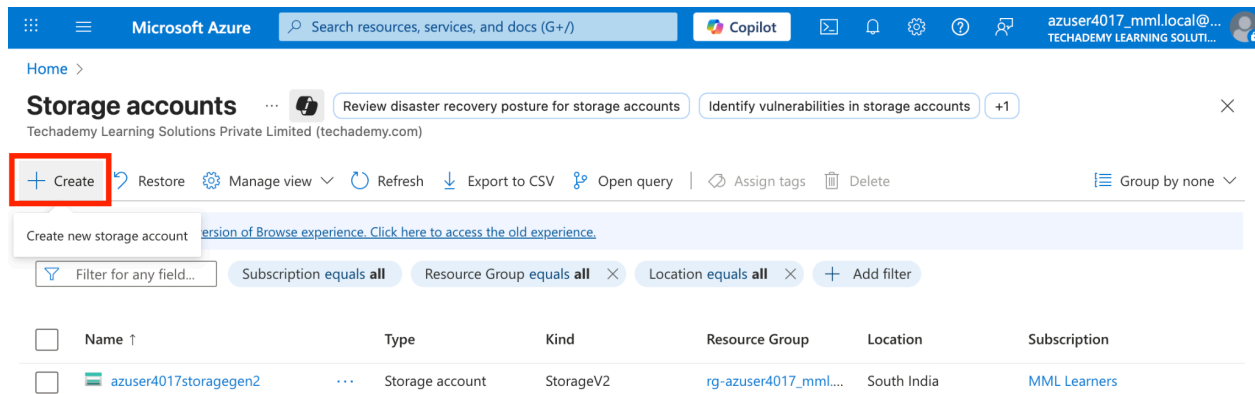
By Esaq

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

Microsoft Azure

Search resources, services, and docs (G+/)

Copilot

azuser4017_mml.local@...
TECHADEMY LEARNING SOLUTI...

Home > Storage accounts >

Create a storage account

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Azure Storage is a Microsoft-managed service providing cloud storage that is highly available, secure, durable, scalable, and redundant. Azure Storage includes Azure Blobs (objects), Azure Data Lake Storage Gen2, Azure Files, Azure Queues, and Azure Tables. The cost of your storage account depends on the usage and the options you choose below. [Learn more about Azure storage accounts](#)

Project details

Select the subscription in which to create the new storage account. Choose a new or existing resource group to organize and manage your storage account together with other resources.

Subscription * MML Learners

Resource group * rg-azuser4017_mml.local-8wYaW
[Create new](#)

Instance details

Storage account name * ① samplestoragefortraining

Region * ① (Asia Pacific) Central India
[Deploy to an Azure Extended Zone](#)

Primary service ① Azure Blob Storage or Azure Data Lake Storage Gen 2

Performance * ①

☒ Standard: Recommended for most scenarios (general-purpose v2 account)

☐ Premium: Recommended for scenarios that require low latency.

Redundancy * ① Geo-redundant storage (GRS)

☒ Make read access to data available in the event of regional unavailability.

Previous **Next** Review + create

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- 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.

Home > Storage accounts >

Create a storage account

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Security

Configure security settings that impact your storage account.

Require secure transfer for REST API operations ⓘ	<input checked="" type="checkbox"/>
Allow enabling anonymous access on individual containers ⓘ	<input checked="" type="checkbox"/>
Enable storage account key access ⓘ	<input checked="" type="checkbox"/>
Default to Microsoft Entra authorization in the Azure portal ⓘ	<input checked="" type="checkbox"/>
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

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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

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

The screenshot shows the Azure portal interface for a deployment. The top navigation bar includes the Microsoft Azure logo, a search bar, and the Copilot icon. The main header displays the deployment name 'azuser4017storageegen2_1754551926870' and the 'Overview' tab. The left sidebar contains links for Overview, Inputs, Outputs, and Template. The main content area shows a status message: 'Deployment is in progress'. Below this, deployment details are listed: Deployment name: azuser4017storageegen2_1754551926870, Subscription: MML Learners, Resource group: rg-azuser4017_mml.local-8wYwW. The start time is 8/7/2025, 1:02:36 PM, and the correlation ID is 3175bda8-bfc7-4371-b215-f439a6d4c55d. A table titled 'Deployment details' is shown with columns: Resource, Type, Status, and Operation details. The table currently has no results. At the bottom, there is a 'Give feedback' link and a prompt to 'Tell us about your experience with deployment'.

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

The screenshot shows the Azure portal interface for the same deployment. The status message now reads: 'Your deployment is complete'. The deployment details remain the same. The 'Deployment details' table is still empty. Below the table, there is a 'Next steps' section with a button labeled 'Go to resource' highlighted with a red box. The 'Give feedback' link and the prompt to 'Tell us about your experience with deployment' are still present at the bottom.

II. Connection to Azure Storage Explorer:

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

The screenshot shows the Azure portal interface for the 'Containers' view of the storage account 'azuser4017storageegen2'. The left sidebar contains links for Overview, Activity log, Tags, Diagnose and solve problems, Access Control (IAM), Data migration, Events, Storage browser, Partner solutions, Resource visualizer, Data storage, Containers (highlighted with a red box), and File shares. The main content area shows a table of containers. The table has columns: Name, Last modified, Anonymous access level, and Lease state. There are two containers listed: '\$logs' and 'training'. The 'training' container is highlighted with a red box. The table also includes a checkbox for each container and a three-dot menu icon for each row.

	Name	Last modified	Anonymous access level	Lease state
<input type="checkbox"/>	\$logs	8/7/2025, 1:03:09 PM	Private	Available
<input type="checkbox"/>	training	8/7/2025, 2:14:07 PM	Private	Available

- Now click on the Shared access tokens.

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft Azure logo, a search bar, and the user profile 'azuser4017_mml.local@...'. The breadcrumb trail indicates the path: Home > Storage accounts > azuser4017storagegen2 | Containers >. The left sidebar shows the 'training' container selected, with the 'Shared access tokens' option highlighted in a red box. The main content area displays a message about permissions and a table for blobs, which is currently empty.

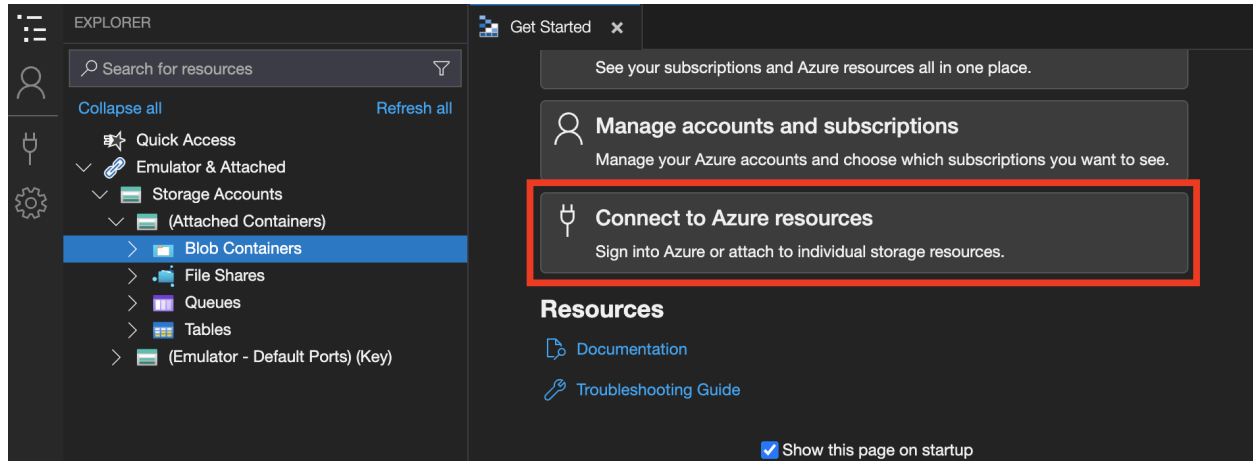
- In Permissions dropdown, select all the permissions and choose your expiry date.

The screenshot shows the 'Shared access tokens' configuration page in the Microsoft Azure portal. The left sidebar shows the 'training' container selected, with the 'Shared access tokens' option highlighted in a red box. The main content area displays the configuration options for a shared access token. The 'Permissions' dropdown is highlighted in a red box, showing '10 selected'. The 'Start and expiry date/time' section is also highlighted in a red box, showing the start date as 08/07/2025 at 11:53:37 PM and the expiry date as 08/08/2025 at 8:08:37 AM. The 'Generate SAS token and URL' button is highlighted in a red box.

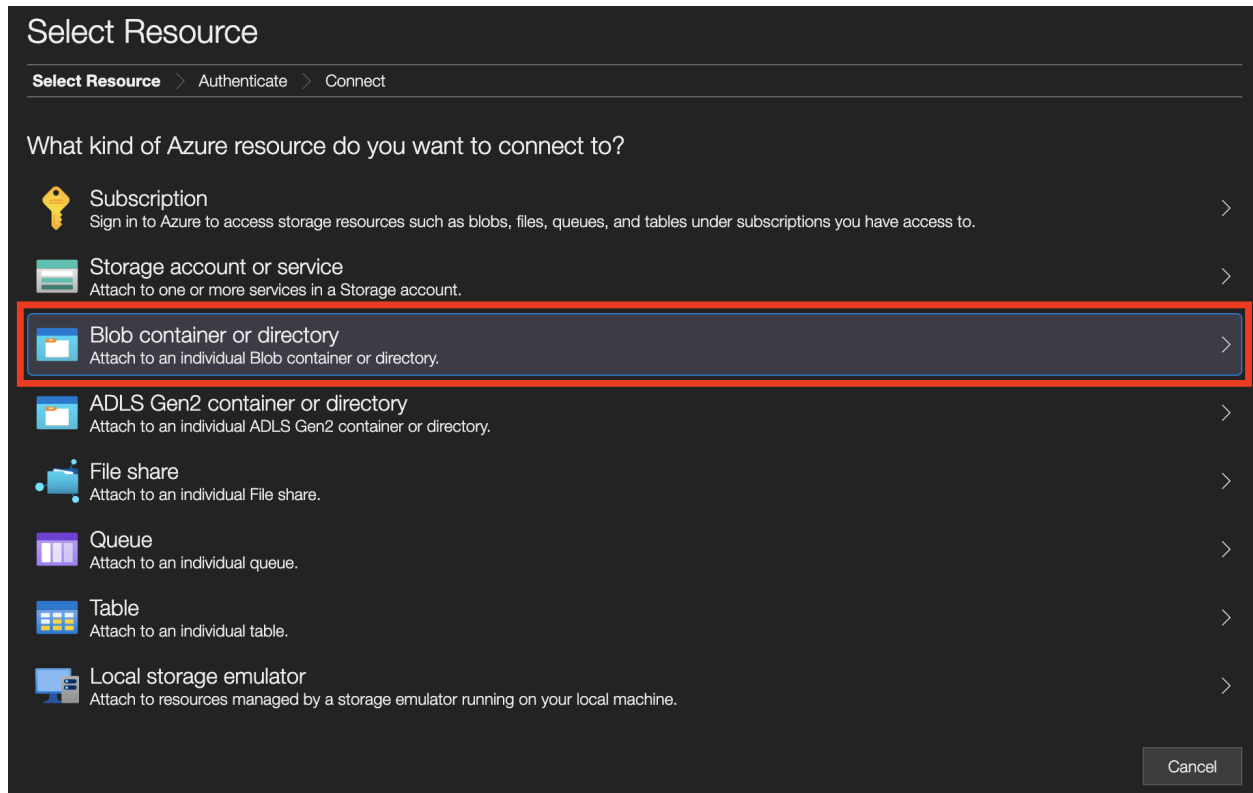
- After setting up, click on Generate SAS token and URL. Copy your SAS URL



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



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



Select Connection Method

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

How will you connect to the blob container?

- ☐ Sign in using OAuth
- ☒ Shared access signature URL (SAS)
- ☐ Anonymously (my blob container allows public access)

Back

Next

Cancel

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

Enter Connection Info

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

Display name:

training-2

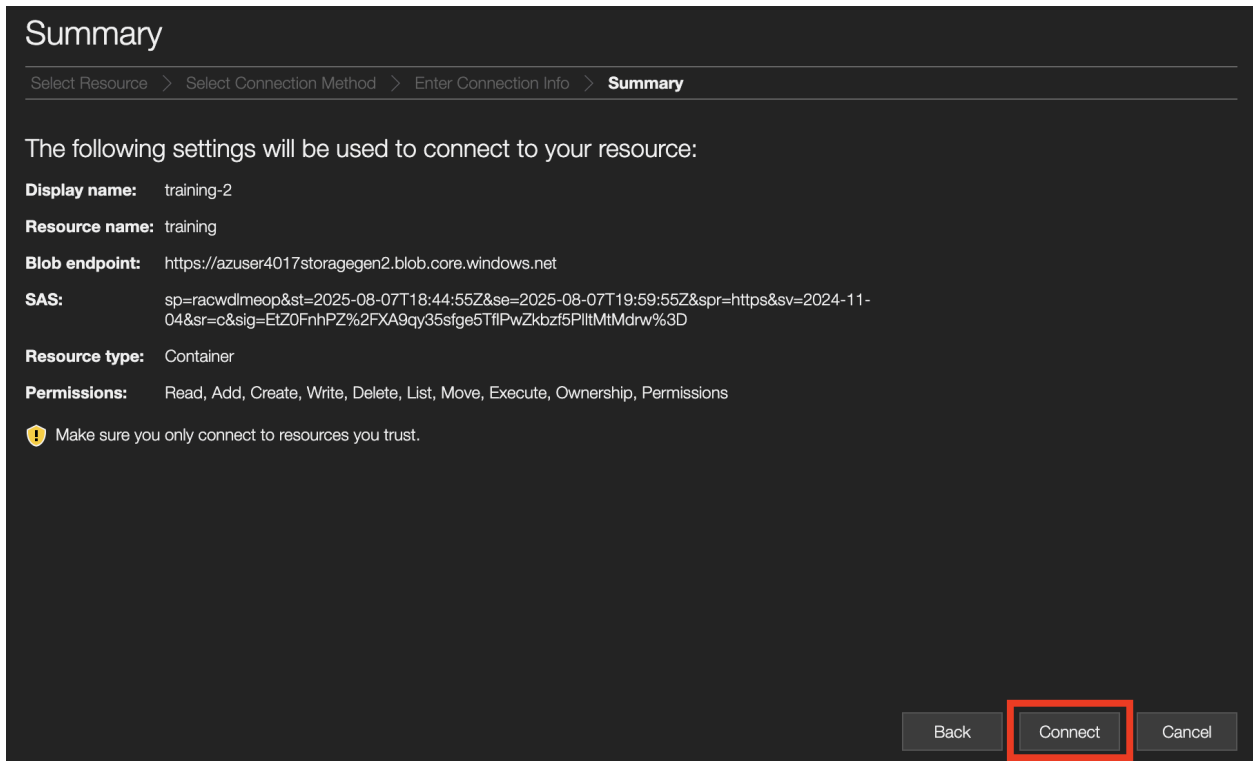
* Blob container or directory SAS URL:

https://azuser4017storagegen2.blob.core.windows.net/training?sp=racwdlmeop&si_=2025-08-07T18:44:55Z&se=2025-08-07T19:59:55Z&spr=https&sv=2024-11-04&sr=c&sig=EtZ0FnHPZ%2FXA9qy35sfge5TfIPwZkbzf

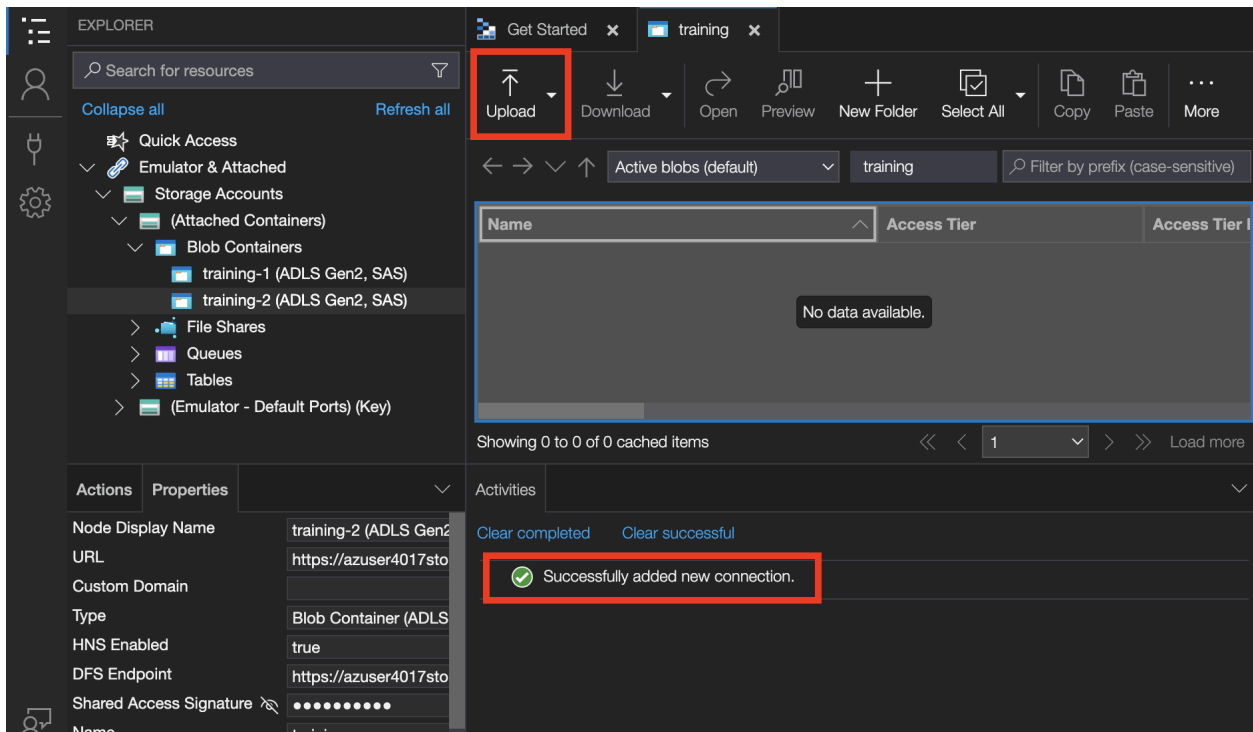
Back

Next

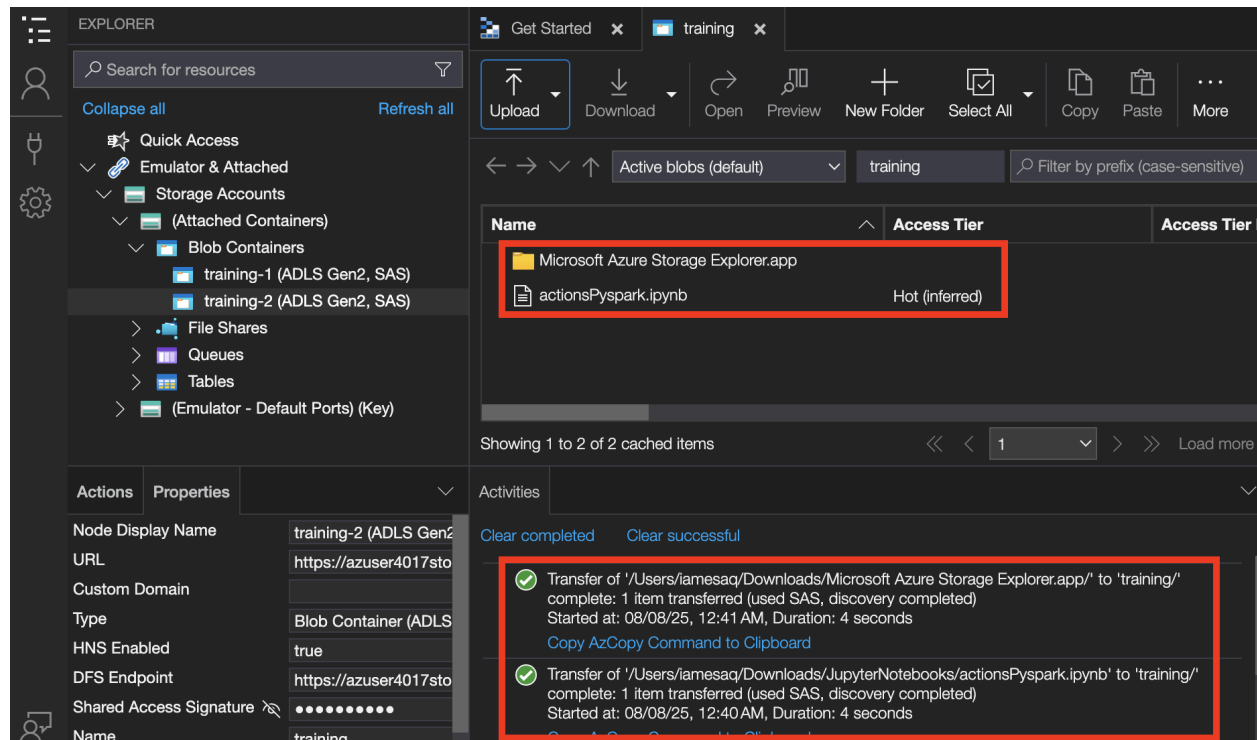
Cancel



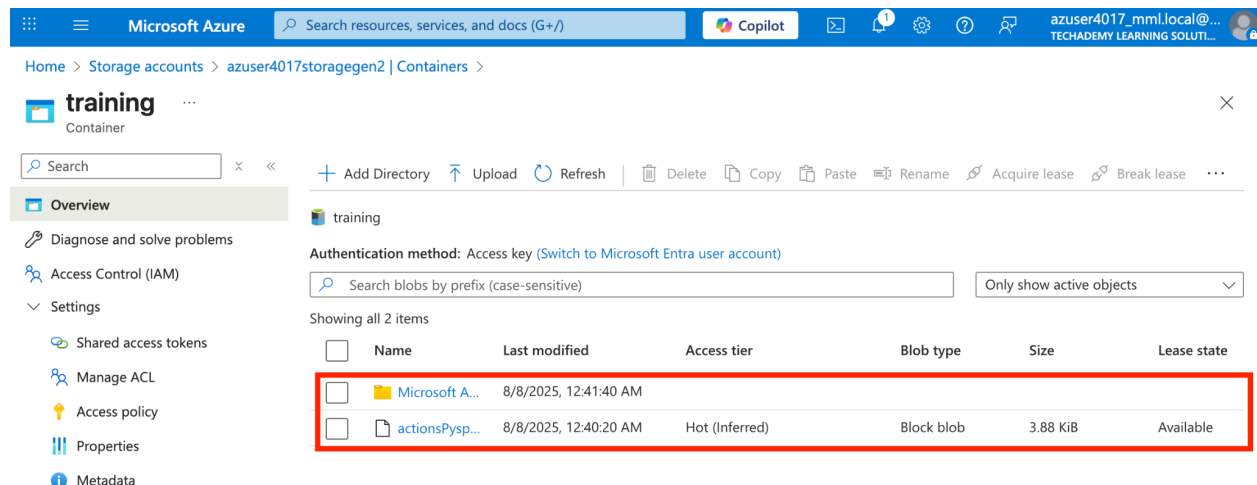
- Now our connection was successful, we can test if the connection worked by uploading a file from the system.



- 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.