

Phase 1: web app and storage

1.Created web app by below configurations:

The screenshot shows the 'Create Web App' configuration page in the Microsoft Azure portal. The page is titled 'Create Web App' and includes a search bar at the top. The configuration is organized into several sections:

- Project Details:** Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.
- Subscription:** My subscription (dropdown)
- Resource Group:** AZR-HRF (dropdown)
- Instance Details:**
 - Name:** securefileupload (text input)
 - Secure unique default hostname on:** ☒ Code ☐ Container
 - Runtime stack:** Python 3.10 (dropdown)
 - Operating System:** Linux ☒ Windows ☐
 - Region:** Canada Central (dropdown)
- Pricing plans:** App Service plan pricing tier determines the location, features, cost and compute resources associated with your app.
 - Linux Plan (Canada Central):** (New) aspfileupload (dropdown)
 - Pricing plan:** Basic B1 (100 total ACU, 1.75 GB memory, 1 vCPU) (dropdown)
- Zone redundancy:** An App Service plan can be deployed as a zone redundant service in the regions that support it. Your initial instance

At the bottom, there are buttons for 'Review + create', '< Previous', and 'Next: Database >'. The Windows taskbar at the bottom shows the date as 19-07-2025 and the time as 15:16.

2.Created LRS storage with public:

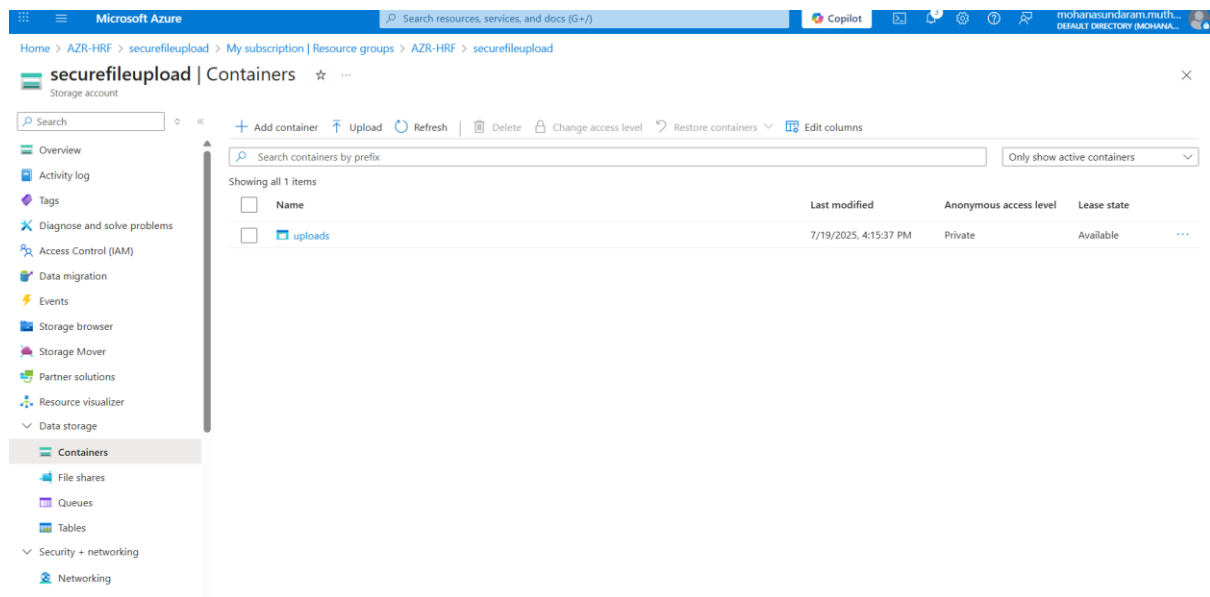
The screenshot shows the 'securefileupload' storage account overview page in the Microsoft Azure portal. The page is titled 'securefileupload' and includes a search bar at the top. The configuration is organized into several sections:

- Overview:** Activity log, Tags, Diagnose and solve problems, Access Control (IAM), Data migration, Events, Storage browser, Storage Mover, Partner solutions, Resource visualizer, Data storage, Containers, File shares, Queues, Tables, Security + networking, Networking, Front Door and CDN.
- Essentials:**
 - Resource group:** AZR-HRF
 - Location:** canadacentral
 - Subscription:** My subscription
 - Subscription ID:** ba75d55e-2004-4452-92f2-e8b0db008762
 - Disk state:** Available
 - Tags:** Add tags
- Properties:**
 - Performance:** Standard
 - Replication:** Locally-redundant storage (LRS)
 - Account kind:** StorageV2 (general purpose v2)
 - Provisioning state:** Succeeded
 - Created:** 7/19/2025, 4:44:01 PM
- Blob service:**
 - Hierarchical namespace:** Disabled
 - Default access tier:** Hot
 - Blob anonymous access:** Disabled
 - Blob soft delete:** Disabled
 - Container soft delete:** Disabled
 - Versioning:** Disabled
 - Change feed:** Disabled
 - NFS v3:** Disabled
 - Allow cross-tenant replication:** Disabled
 - Storage tasks assignments:** None
- Security:**
 - Require secure transfer for REST API operations:** Enabled
 - Storage account key access:** Enabled
 - Minimum TLS version:** Version 1.2
 - Infrastructure encryption:** Disabled
- Networking:**
 - Allow access from:** All networks
 - Private endpoint connections:** 0
 - Network routing:** Microsoft network routing
 - Access for trusted Microsoft services:** Yes

At the bottom, there are buttons for 'Upload', 'Open in Explorer', 'Delete', 'Move', 'Refresh', 'Open in mobile', 'CLI / PS', and 'Feedback'. The Windows taskbar at the bottom shows the date as 19-07-2025 and the time as 16:48.

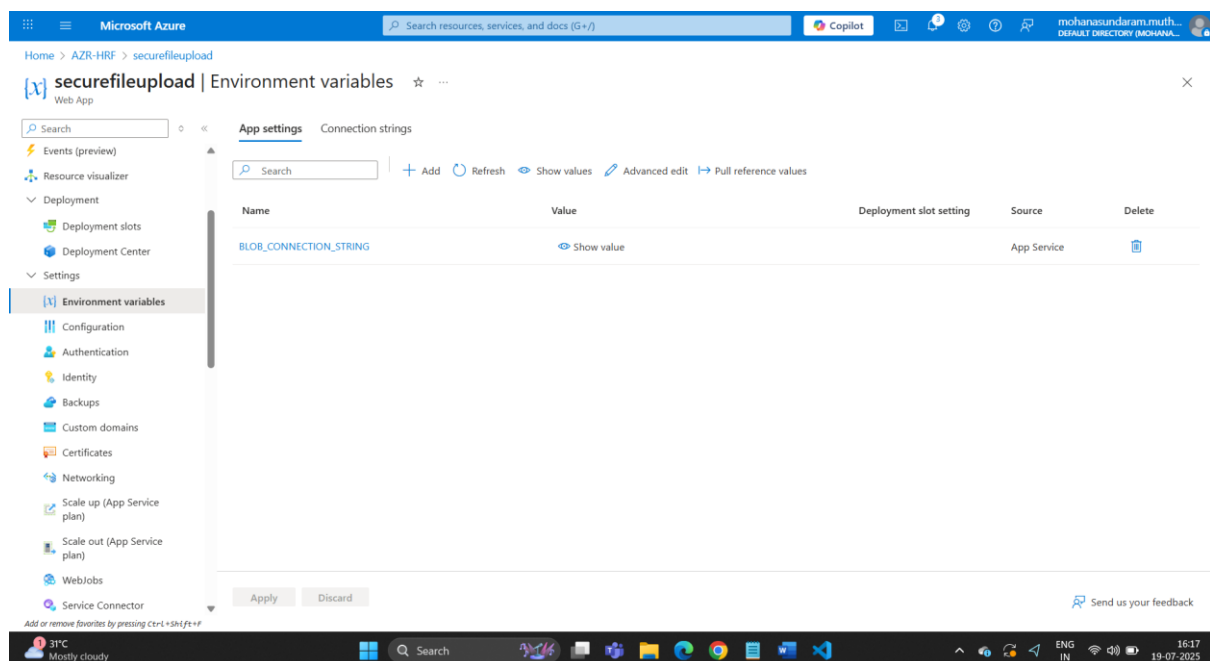
3.

Create a blob container name “uploads”

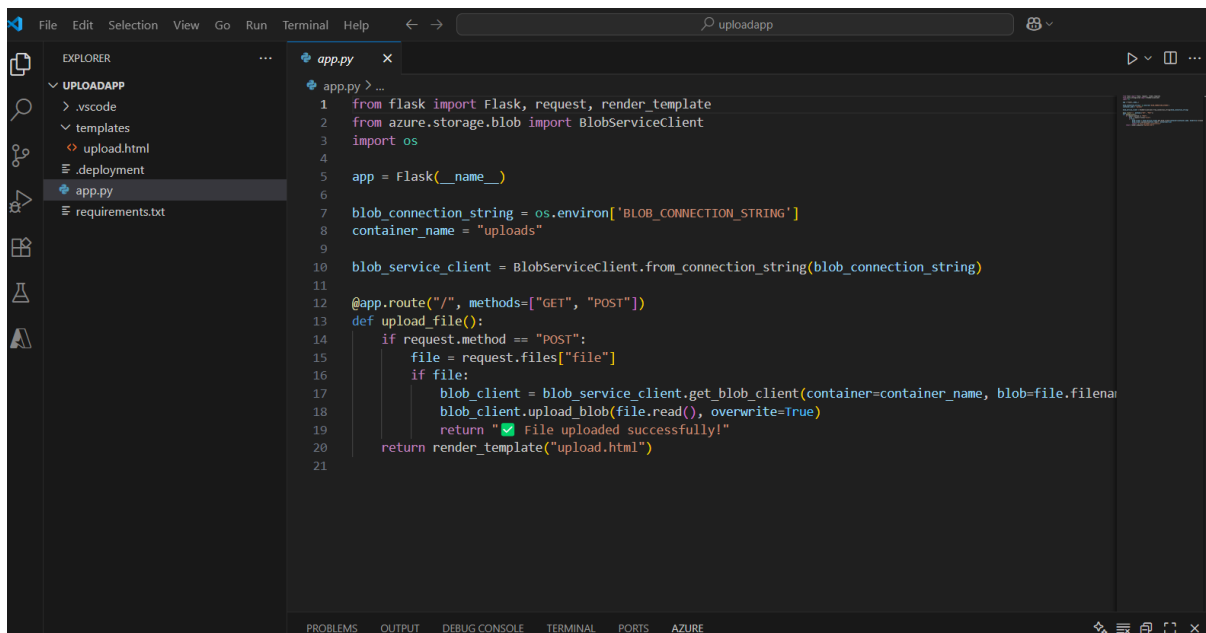


3. Noted down the connection string for storage “securefileupload”

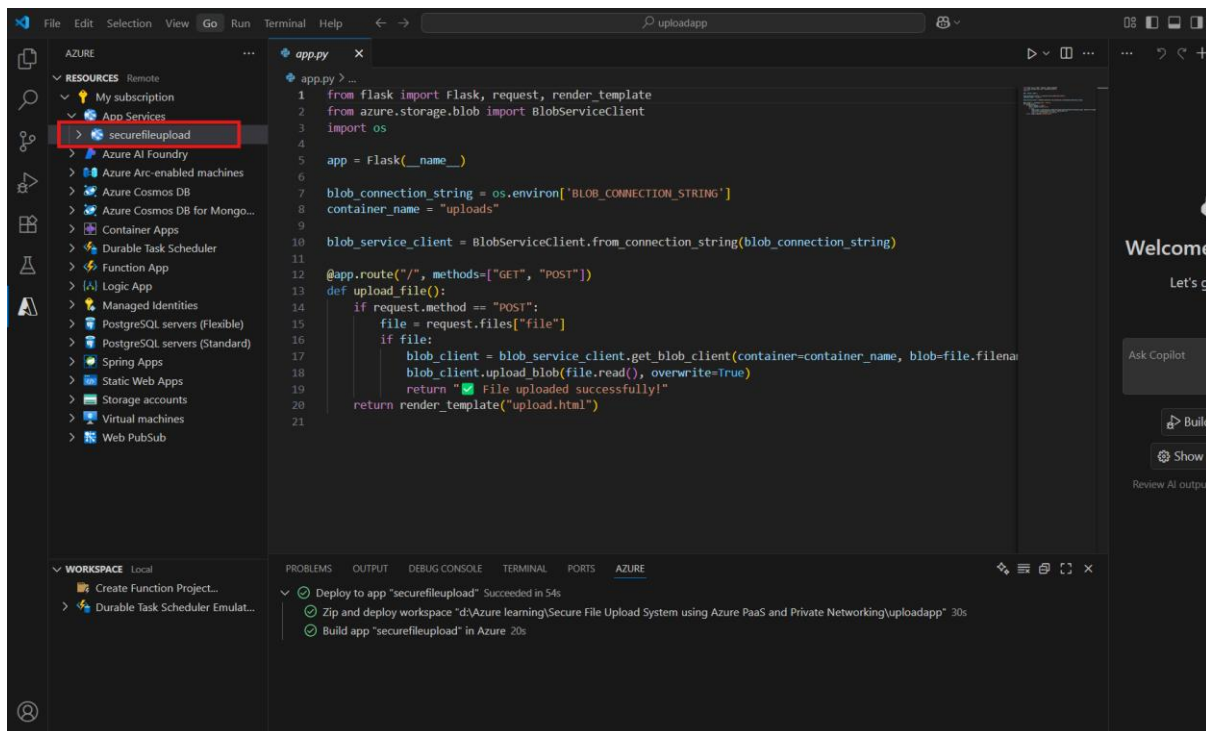
4. Created the environment variables connection string name as “BLOB_CONNECTION_STRING” and Value as connection string



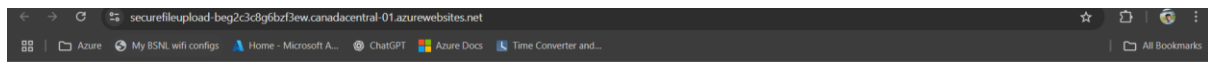
5. Open the Zip folder of web app project



6. Next go to bottom tools and open Azure tools and expand our Azure subscription and deploy to web app.



7. Next upload any pdf file from local machine

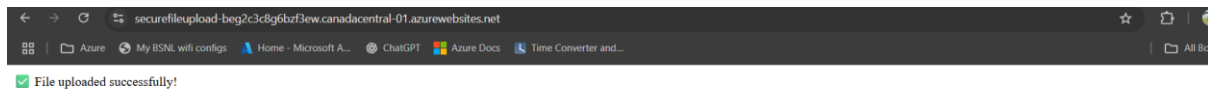


Upload a file

No file chosen



8. After successfully uploaded it will receive in our blob storage under “uploads” container:



Phase 2:


Function app+Azure Table storage+computer vision:


1. Create func app with below config:

Home > AZR-HRF > securefileupload > AZR-HRF > Marketplace > Create Function App >

Create Function App (Consumption) ...


Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription *  My subscription


Resource Group *  AZR-HRF
[Create new](#)

Instance Details

Function App name * blob-process-func ✓
-g9cggjd5c5dpaxed.canadacentral-01.azurewebsites.net

☒ Secure unique default hostname (preview) on. [More about this update](#) 

Operating System * ☒ Linux (legacy) ☐ Windows

 For Linux we recommend using Flex Consumption. [Learn more.](#)

Runtime stack * Python

Version * 3.10

Region * Canada Central

[Review + create](#) [< Previous](#) [Next : Storage >](#)

For storage give your existing storage:


Microsoft Azure Search resources, services, and docs (G+/) Copilot mohanasundaram DEFAULT DIRECTORY (P)

Home > AZR-HRF > Marketplace > Create Function App >


Create Function App (Consumption) ...


Basics **Storage** Networking Monitoring Deployment Authentication Tags Review + create

Storage


When creating a function app, you must create or link to a general-purpose Azure Storage account that supports Blobs, Queue, and Table storage. [Learn more](#) 

Storage account * securefileupload (v2) ✓
[Create new](#)

 If you don't see a storage account, it may not be supported. [Storage account requirements](#)

Add an Azure Files connection ☒  Azure Files is used to enable certain features but you can create an app without one if you don't want to add another connection to your storage account. [What is Azure Files used for?](#)

Diagnostic Settings

The storage account associated with the function app stores important app data. You may wish to enable monitoring for the account. You can quickly configure basic diagnostic settings as you create the function app, or you can fully customize the diagnostics settings on the storage account resource after creation. [Learn more](#) 

Blob service diagnostic settings ☒ Don't configure diagnostic settings now You can configure diagnostic settings later from the storage account resource. Choose this if you want full control over log destinations, retention policies, and which logs and metrics are configured.

☐ Configure basic diagnostic settings now Configure Azure Log Analytics with StorageWrite logs and Transaction metrics for the blob

[Review + create](#) [< Previous](#) [Next : Networking >](#)

2. Create computer vision service with Below configuration:

Microsoft Azure

Home > My subscription | Resource groups > AZR-HRF > Marketplace >

Create Computer Vision

Basics Network Identity Tags **Review + create**

[View automation template](#)

Basics

Subscription	My subscription
Resource group	AZR-HRF
Region	Canada Central
Name	cogvis-ocr
Pricing tier	Free F0 (20 Calls per minute, 5K Calls per month)

Network

Type	All networks, including the internet, can access this resource.
------	---

Identity

Identity type	None
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Previous Next Create

3. After computer vision service provisioned note down the Key and endpoint:

Microsoft Azure

Home > Microsoft.CognitiveServicesComputerVision-20250719165725 | Overview > AZR-HRF > cogvis-ocr

cogvis-ocr | Keys and Endpoint

Computer vision

Search Regenerate Key1 Regenerate Key2

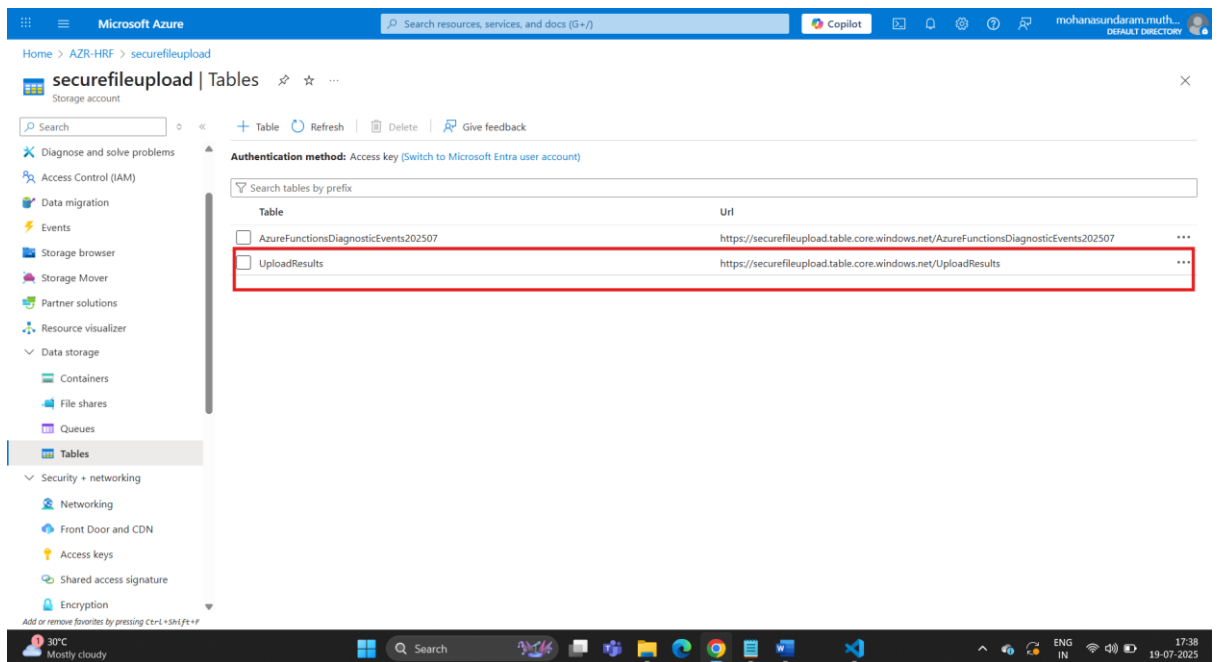
Overview Activity log Access control (IAM) Tags Diagnose and solve problems Resource visualizer Resource Management **Keys and Endpoint** Pricing tier Networking Identity Cost analysis Properties Security Microsoft Defender for Cloud Monitoring Alerts Metrics

These keys are used to access your Azure AI Foundry API. Do not share your keys. Store them securely- for example, using Azure Key Vault. We also recommend regenerating these keys regularly. Only one key is necessary to make an API call. When regenerating the first key, you can use the second key for continued access to the service.

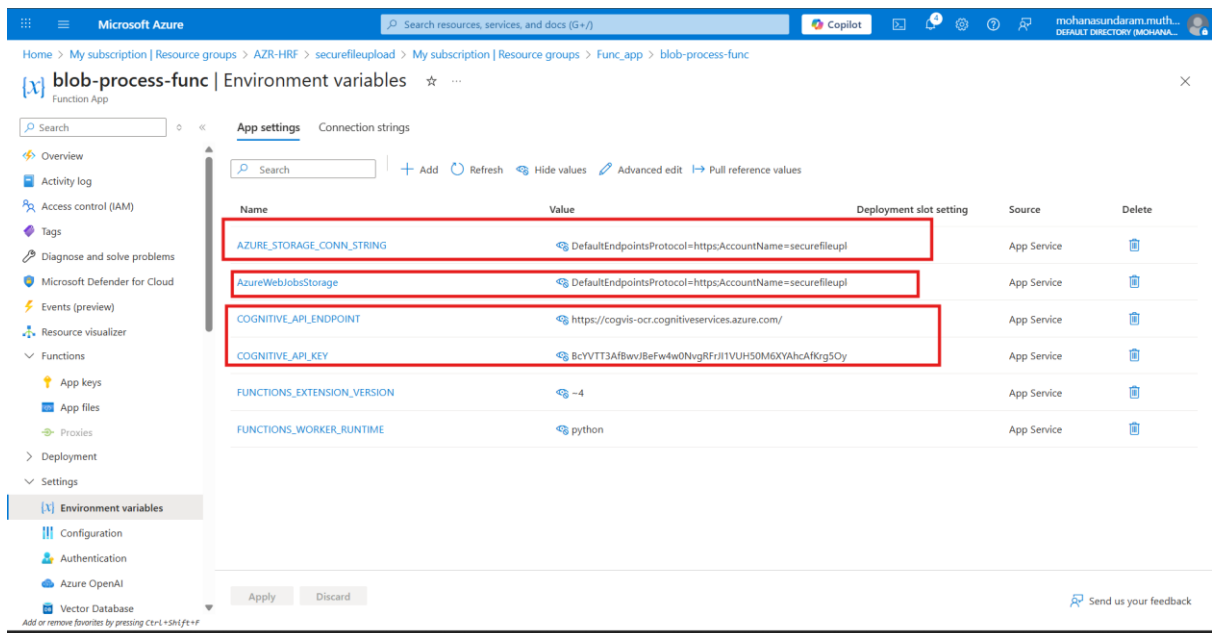
Show Keys

KEY 1
KEY 2
Location/Region	canadacentral
Endpoint	https://cogvis-ocr.cognitiveservices.azure.com/

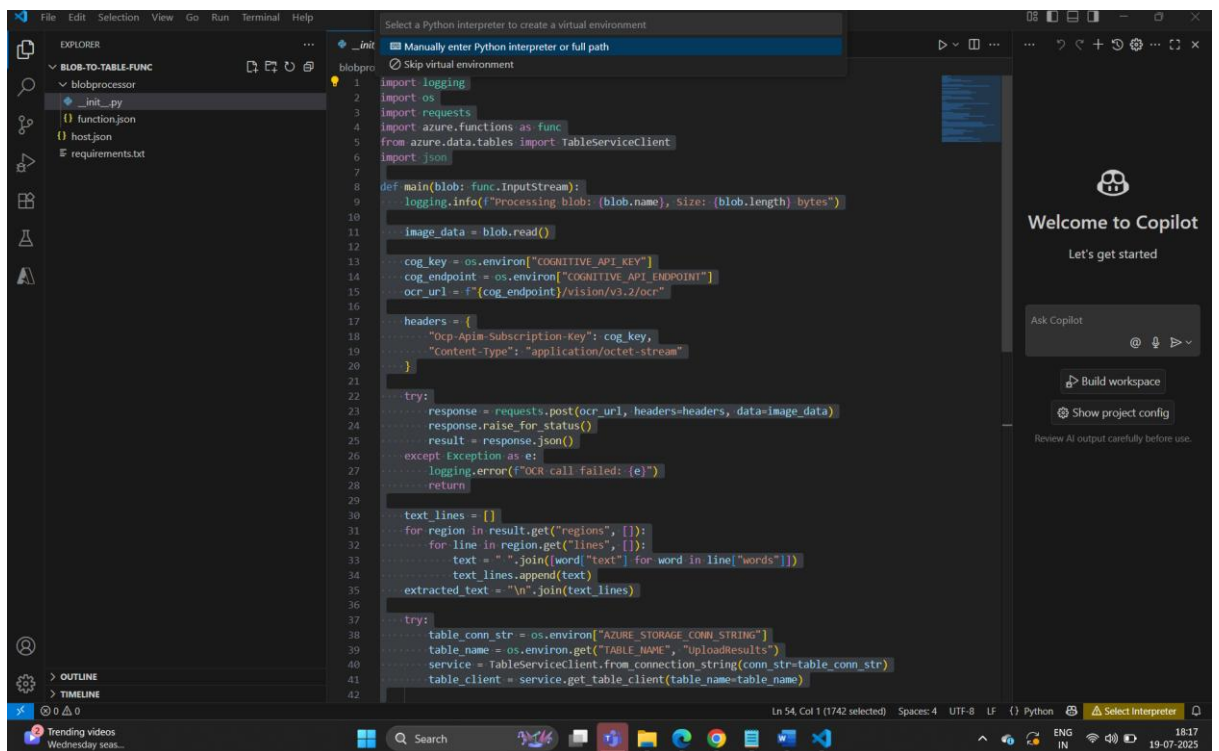
4. Create the Azure Table storage in our existing storage acc “securefileupload “



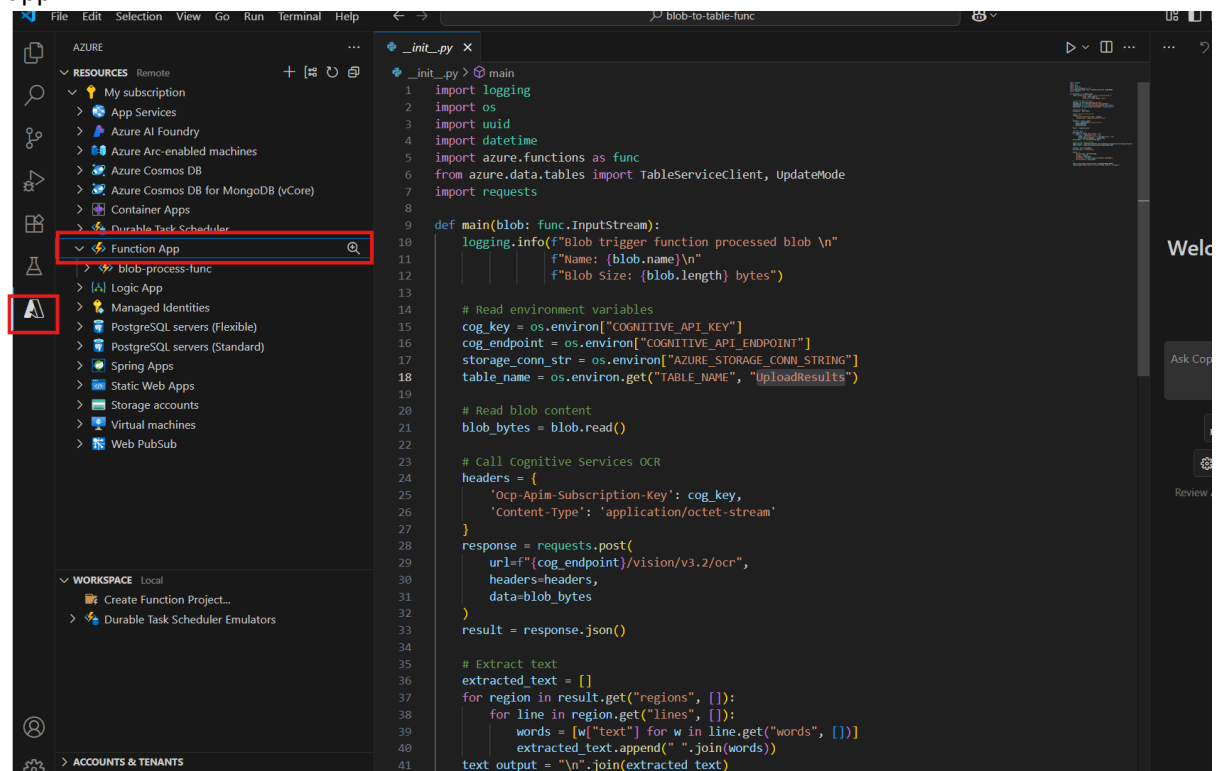
5. ``COGNITIVE_API_KEY`` - key of cognitive
``COGNITIVE_API_ENDPOINT`` - endpoint of cognitive
``AZURE_STORAGE_CONN_STRING`` - connection string of storage where table storage output need to be place
 AzureWebJobsStorage- where blob trigger can be known by this storage connection string
 Every function app will created by storage as default we are using same storage for all input and output



6. Next open folder of our function app code in VS code:



- Go to Azure tools and right click on Azure function and deploy the code into Azure function app:



Once I have upload the file in web app ui, then the image is stored in Blob container

Home > AZR-HRF > azrhrfeastui | Containers

imageanalysis

Container

Search

+ Add Directory

Upload

Change access level

Refresh

Delete

Copy

Paste

Rename

Acquire lease

Break lease

Edit columns

Overview

Diagnose and solve problems

Access Control (IAM)

Settings

imageanalysis

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

Add filter

Search blobs by prefix (case-sensitive)

Only show active blobs

Showing all 1 items

<input type="checkbox"/>	Name	Last modified	Access tier	Blob type	Size	Lease state	
<input type="checkbox"/>	test image.png	7/4/2025, 1:52:36 PM	Hot (inferred)	Block blob	143.6 KiB	Available	...

I have uploaded the below image as input

7. Next, let's repeat this process for the endpoint of our Computer Vision service, using the following values:

- **Name:** Enter a value of *ComputerVisionEndpoint*.
- **Value:** Paste in the endpoint URL you saved from earlier.

8. Repeat this step again for the storage account connection, using the following values:

- **Name:** Enter a value of *StorageConnection*.
- **Value:** Paste in the connection string you saved from earlier.

9. Finally, repeat this process one more time for the storage account name, using the following values:

- **Name:** Enter a value of *StorageAccountName*.
- **Value:** Enter in the name of the storage account you created.

10. After you have added these application settings, make sure to select **Save** at the top of the configuration page. When the save completes, you can hit **Refresh** as well to make sure the settings are picked up.

All of the required environment variables to connect our Azure function to different services are now in place.

Upload an image to Blob Storage

You are now ready to test out our application! You can upload a blob to the container, and then verify that the text in the image was saved to Table Storage.

1. First, at the top of the Azure portal, search for *Storage* and select **storage account**. On the

Prerequisites

Create the stor

Create the Com

Download and

Deploy the cod

Connect the ser

Upload an image

Clean up resour

Was this page he

Yes

No

- ❓ The Function is triggered automatically via a **Blob Trigger** when an image is uploaded to the container imageanalysis.
- ❓ Inside the Function (ProcessImageUpload.cs):
 - Reads environment variables:
 - StorageConnection
 - StorageAccountName
 - ComputerVisionKey
 - ComputerVisionEndpoint
 - Constructs the full image URL
 - Sends it to the Computer Vision API
 - Receives extracted text response
 - Saves it to Azure Table Storage (ImageText)

Get the SAS Token of storage and open MS Storage explorer and table storage you can able to see image is converted to text and stored.

PartitionKey	RowKey	Timestamp	Text
Images	3b11737b-09d2-4575-b4cf-5da6...	2025-07-04T08:22:48.3546214Z	7. Next, let's repeat this process f...

Output text stored in table:

7. Next, let's repeat this process for the endpoint of our Computer Vision service, using thePrerequisitesfollowing values:Create the storName: Enter a value of ComputerVisionEndpoint.Create the ComValue: Paste in the endpoint URL you saved from earlier.Download andDeploy the cod8. Repeat this step again for the storage account connection, using the following values:Connect the se| Upload an ima· Name: Enter a value of StorageConnection.. Value: Paste in the connection string you saved from earlier.Clean up resou9.

Finally, repeat this process one more time for the storage account name, using the followingWas this page hevalues:Yes· Name: Enter a value of StorageAccountName.Value: Enter in the name of the storage account you created.10. After you have added these application settings, make sure to select Save at the top of theconfiguration page. When the save completes, you can hit Refresh as well to make sure thesettings are picked up.All of the required environment variables to connect our Azure function to different services are nowin place.Upload an image to Blob StorageYou are now ready to test out our application! You can upload a blob to the container, and thenverify that the text in the image was saved to Table Storage.1. First, at the top of the Azure portal, search for Storage and select storage account. On the