

This step is continuation of Phase 1, in Phase 1 we have done everything as public we are doing everything as private:

### 1.Created Vnet and Three subnets

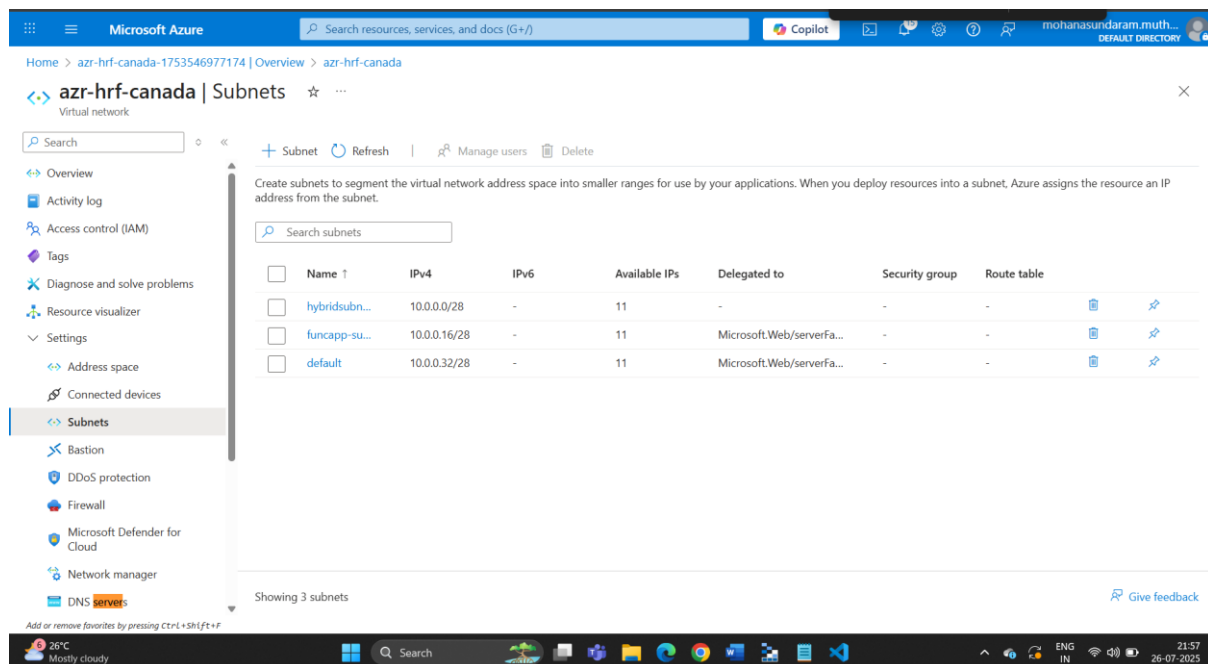
Hybridsubnet-Private endpoints

Function-appsubnet- delegated to Function app(Vnet integration)

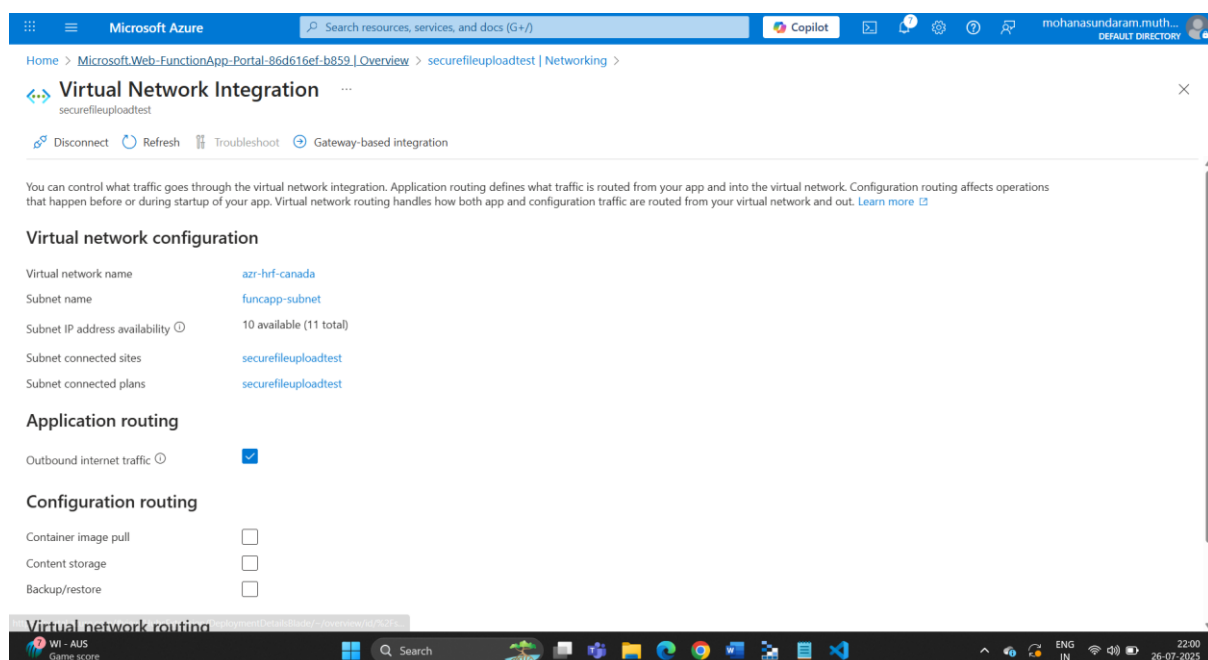
Default-delegated to web app(Vnet integration)

Note: Delegated subnets cannot be used by other resources,

If it delegated for function app it cannot be used by web app also



### Enabled Vnet integration for my web app



To enable private access, disabling public access in function app by below image

Microsoft Azure

Search resources, services, and docs (G+)

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mohanasundaram.muth...  
DEFAULT DIRECTORY

Home > Microsoft.Web-FunctionApp-Portal-86d616ef-b859 | Overview > securefileuploadtest | Networking >

## Access Restrictions

Save Refresh

**Update Access Restrictions**  
Successfully updated Access restrictions

**App access**  
Public access is applied to both main site and advanced tool site. Deny public network access will block all incoming traffic except that comes from private endpoints. [Learn more](#)

Public network access

- ☐ Enabled from all networks (This will clear all current access restrictions)
- ☐ Enabled from select virtual networks and IP addresses
- ☒ Disabled

WI - AUS  
Game score

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## Craeted PE for functionapp by hybridsubnet

Microsoft Azure

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Home > Microsoft.PrivateEndpoint-20250726220150 | Overview >

## securefileuploadtest-pe

Private endpoint

Search Delete Refresh

**Overview**

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Resource visualizer
- Settings
- Monitoring
- Automation
- Help

**Essentials**

Resource group (move) : [azr-hrf](#)

Location : Canada Central

Subscription (move) : [My subscription](#)

Subscription ID : ba75d55e-2004-4452-92f2-e8b0db008762

Provisioning state : Succeeded

Tags (edit) : [Add tags](#)

Virtual network/subnet : [azr-hrf-canada/hybridsubnet-1](#)

Network interface : [securefileuploadtest-pe-nic](#)

Private link resource : [securefileuploadtest](#)

Target sub-resource : sites

Connection status : Approved

Request/Response : -

[JSON View](#)

Add or remove favorites by pressing Ctrl+Shift+F

25°C  
Mostly cloudy

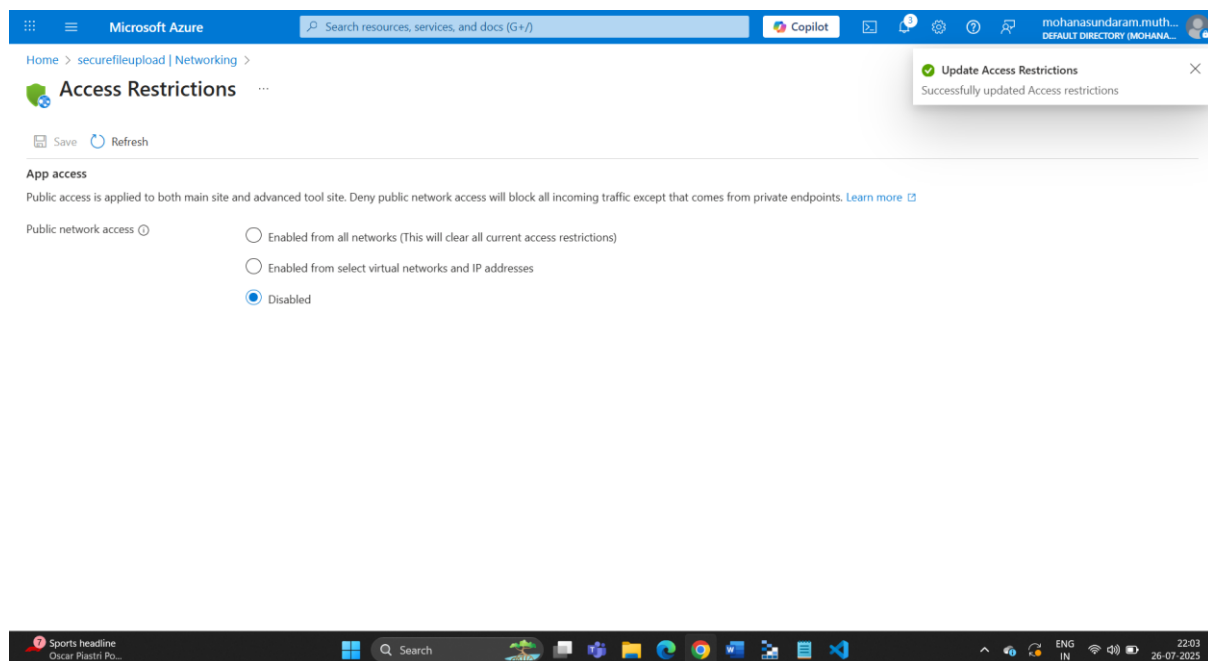
Search

ENG IN 22:09  
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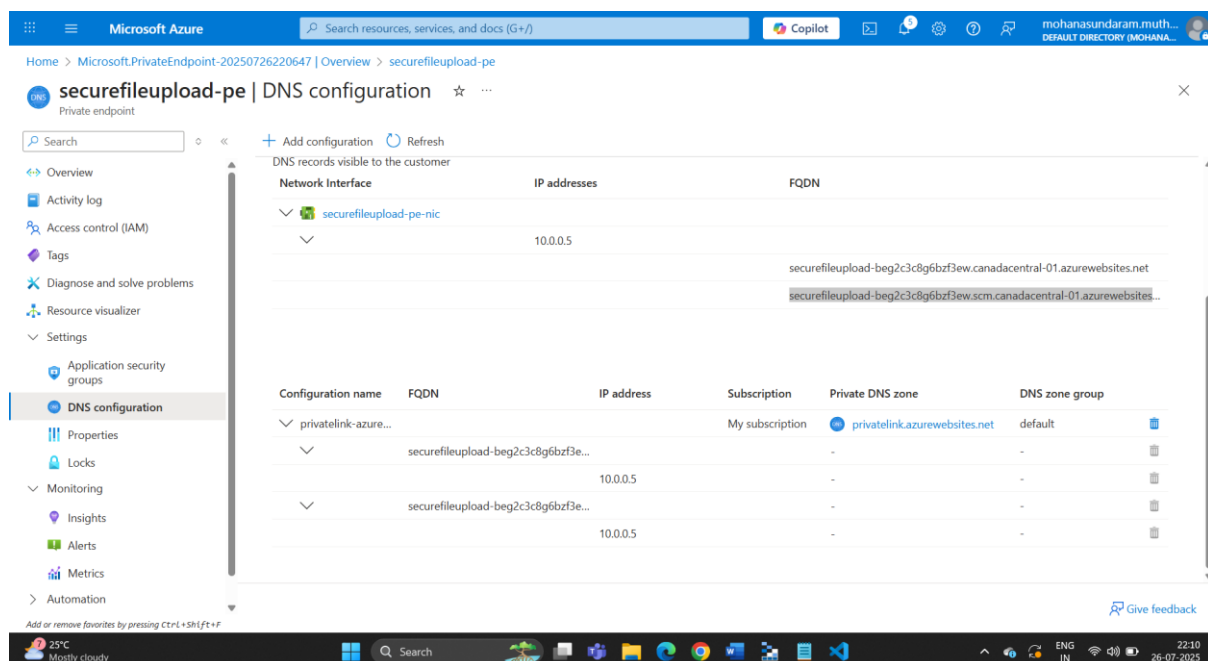
[Give feedback](#)

## Web app:

Public access disabled for web app and created Vnet Integration:



Created PE for web app



Created PE for storage Table,Blob, function app,web app, and computer vision service and Private DNS and Vnet is linked automatically during pe creation itself

Microsoft Azure

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Home > Microsoft.PrivateEndpoint-20250726221131 | Overview > securefileuploadblob-pe >

azr-hrf  
Resource group

Search

+ Create Manage view Delete resource group Refresh Export to CSV Open query Assign tags Move Group by none

Overview

Activity log

Access control (IAM)

Tags

Resource visualizer

Events

Settings

Deployments

Security

Deployment stacks

Policies

Properties

Locks

Cost Management

Cost analysis

Cost alerts (preview)

Essentials

Resources Recommendations

Filter for any field... Type equals 2 selected Location equals all Add filter

Name	Type	Location
computervision-pe	Private endpoint	Canada Central
privatelink.azurewebsites.net	Private DNS zone	Global
privatelink.blob.core.windows.net	Private DNS zone	Global
privatelink.cognitiveservices.azure.com	Private DNS zone	Global
privatelink.table.core.windows.net	Private DNS zone	Global
securefileupload-pe	Private endpoint	Canada Central
securefileuploadblob-pe	Private endpoint	Canada Central
securefileuploadtest-pe	Private endpoint	Canada Central
securefileuploadtesttable-pe	Private endpoint	Canada Central

Showing 1 - 9 of 9. Display count: auto

Give feedback

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Search

ENG IN

22:20 26-07-2023

Sign in faster with your face, finger

https://account.live.com/interrupt/passkey?mkt=EN-US&uiflavor=web&client\_id=1E00004417ACAE&cobrandid=ed5d1924-9524-4e70-8f68-5ee5e...

Administrator: Command Prompt

```
Microsoft Windows [Version 10.0.17763.7558]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\mohan32702>nslookup securefileupload.cognitiveservices.azure.com
Server: UnKnown
Address: 168.63.129.16

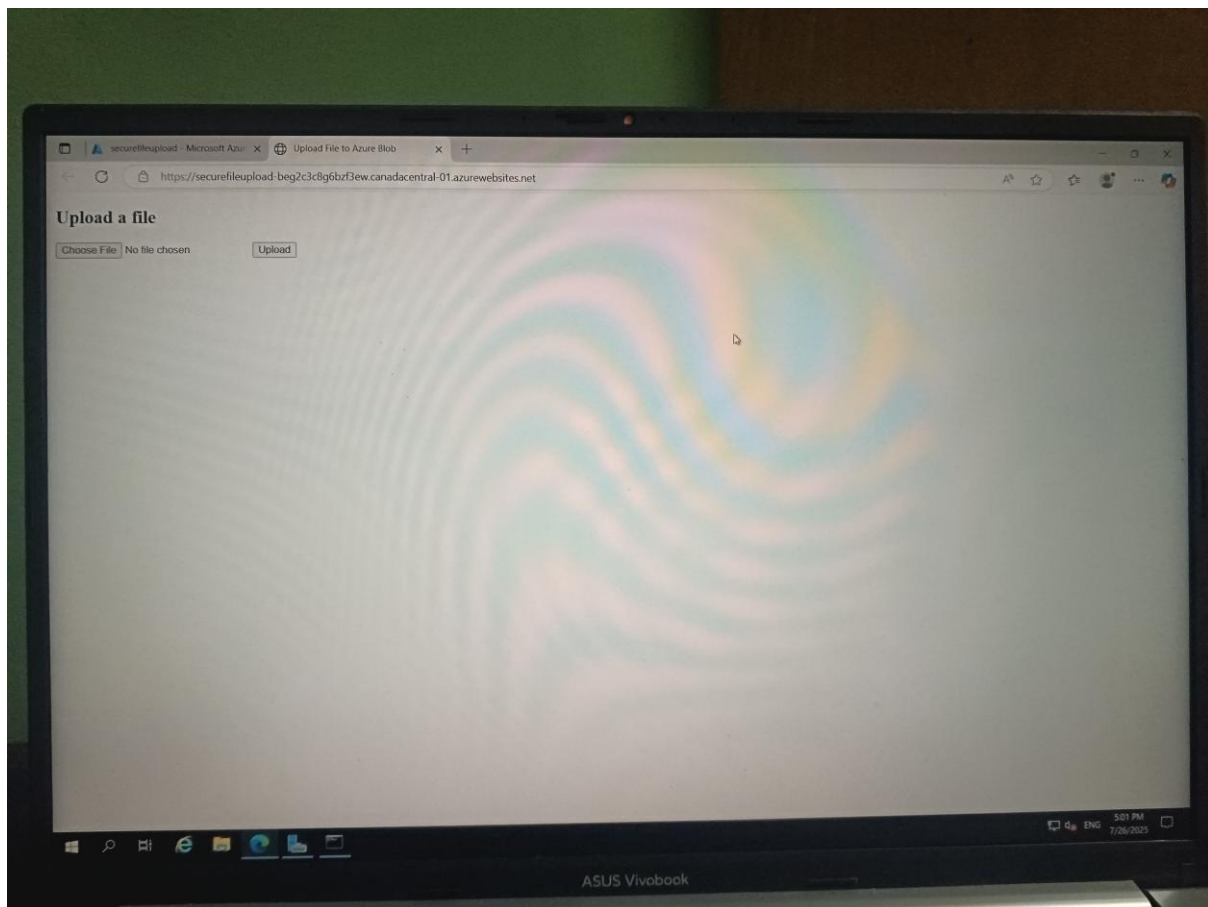
Non-authoritative answer:
Name:   securefileupload.privatelink.cognitiveservices.azure.com
Address: 10.0.0.8
Aliases: securefileupload.cognitiveservices.azure.com

C:\Users\mohan32702>
```

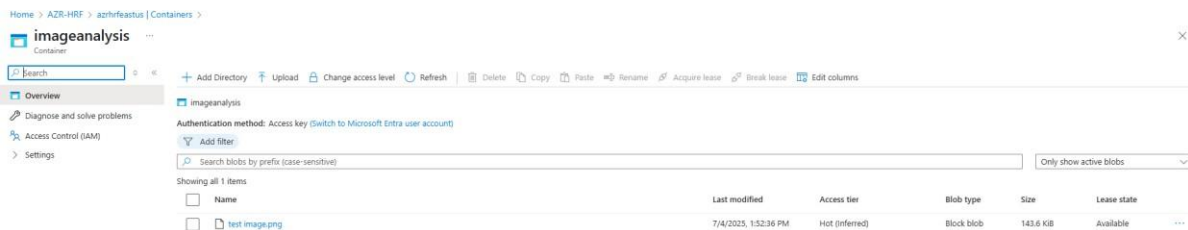
passwords, apps, or codes needed.

Next

Skip for now



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



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

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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