

# Azure Function EventHub triggered

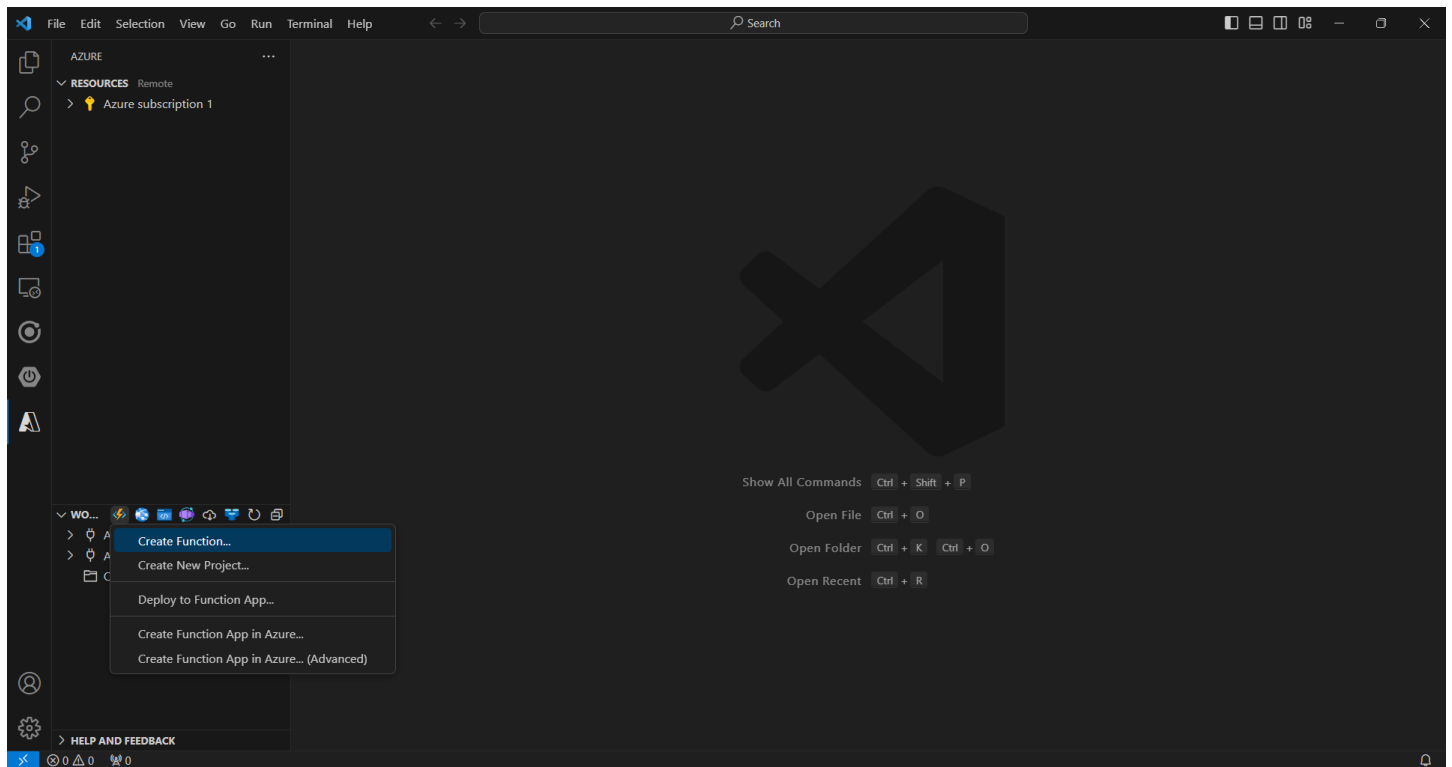
Console C#  
application in  
Visual Studio for  
Sending messages  
to Azure EventHub

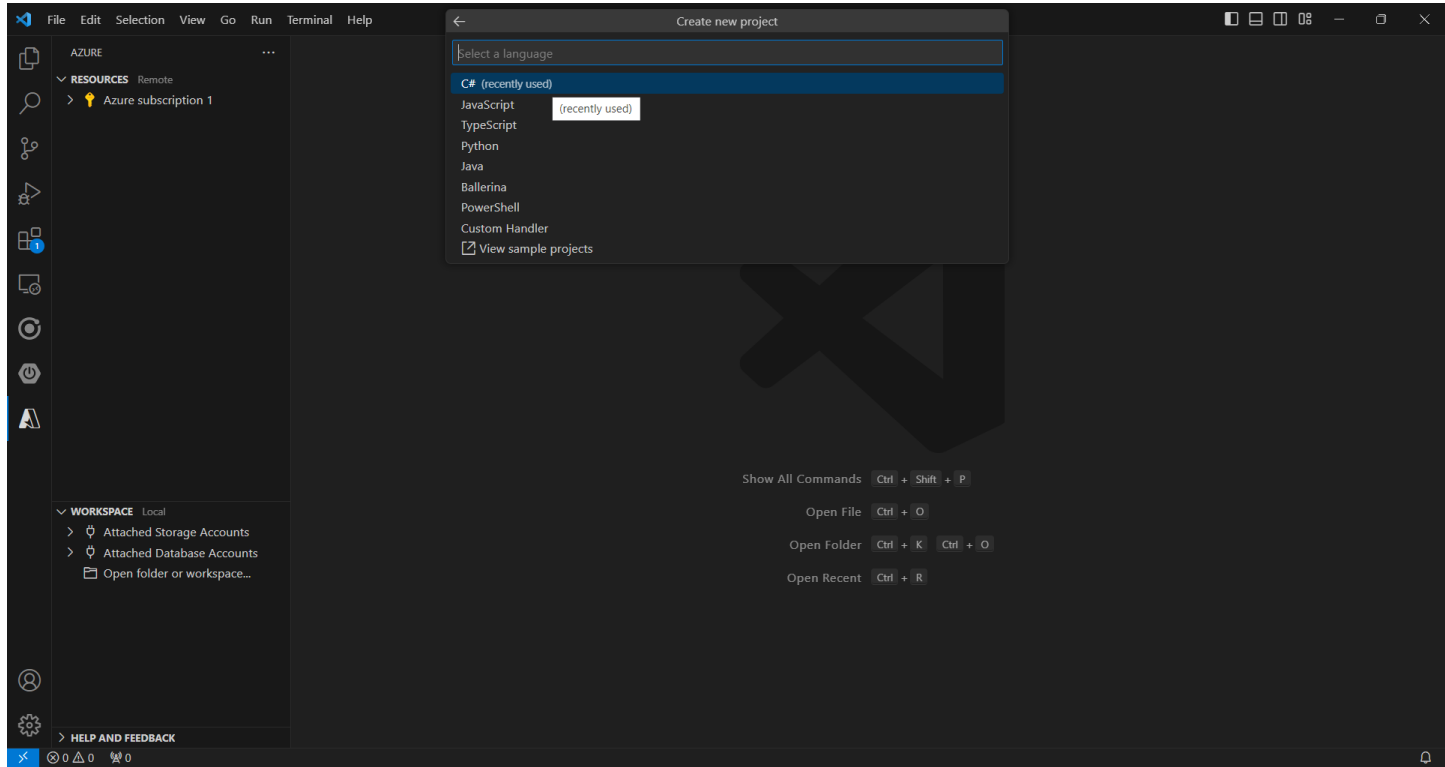
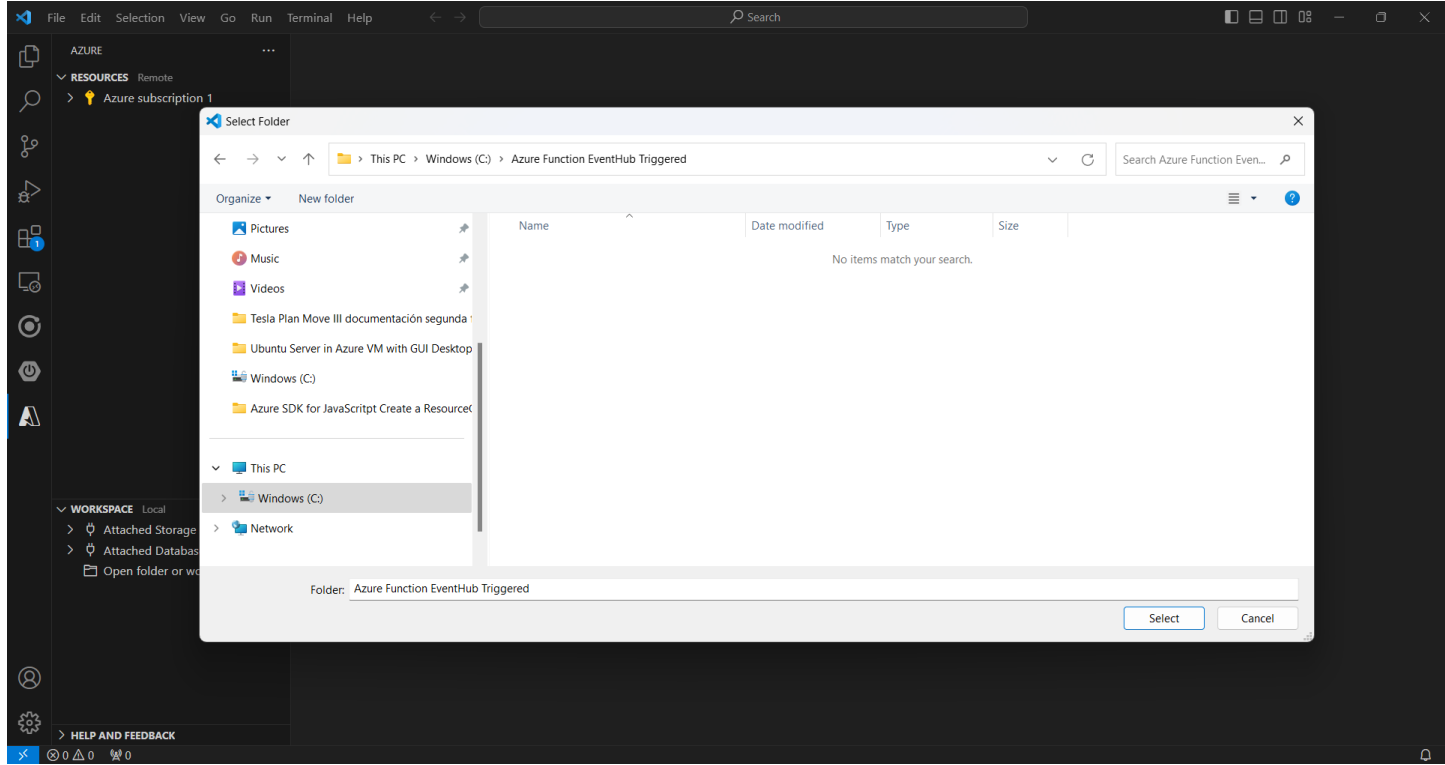


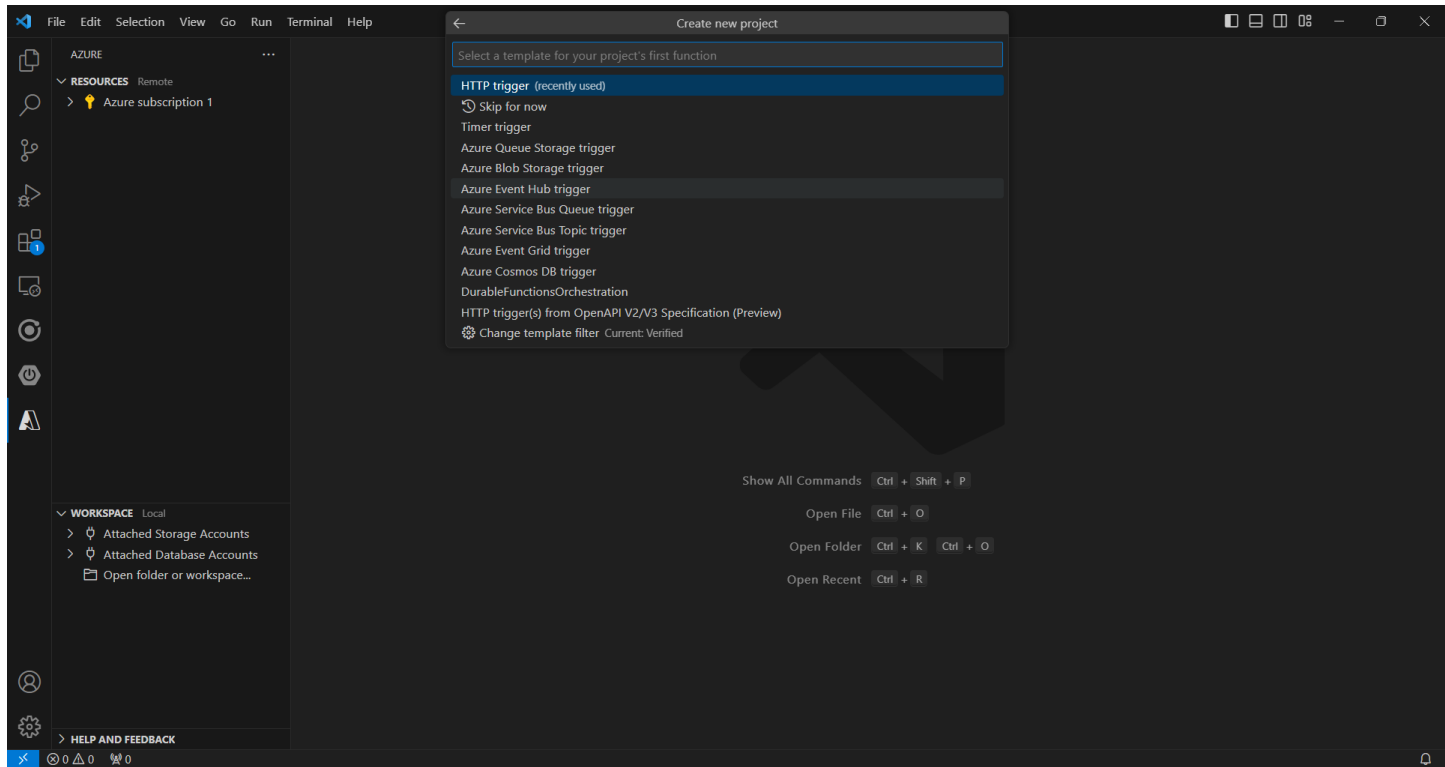
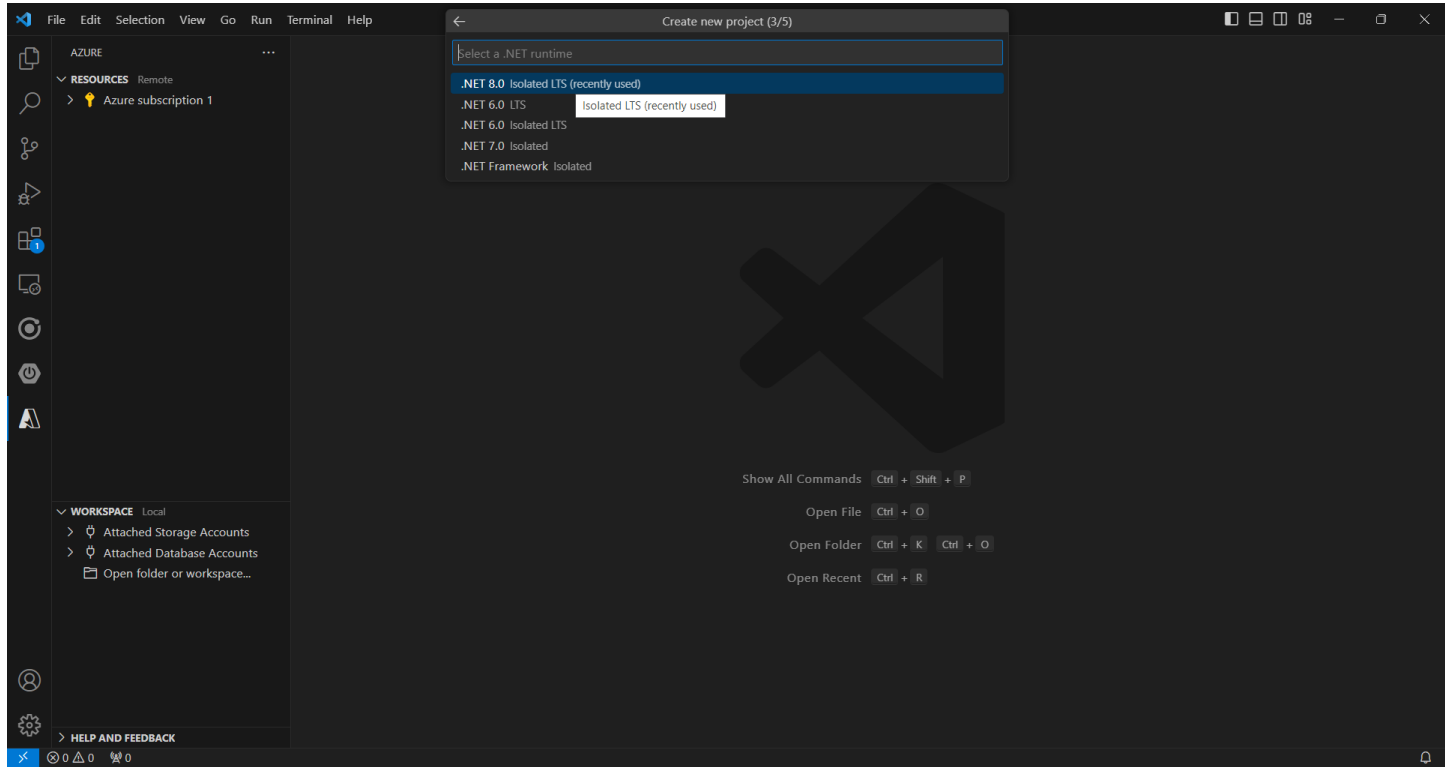
Monitor  
Azure Function  
in Azure Portal

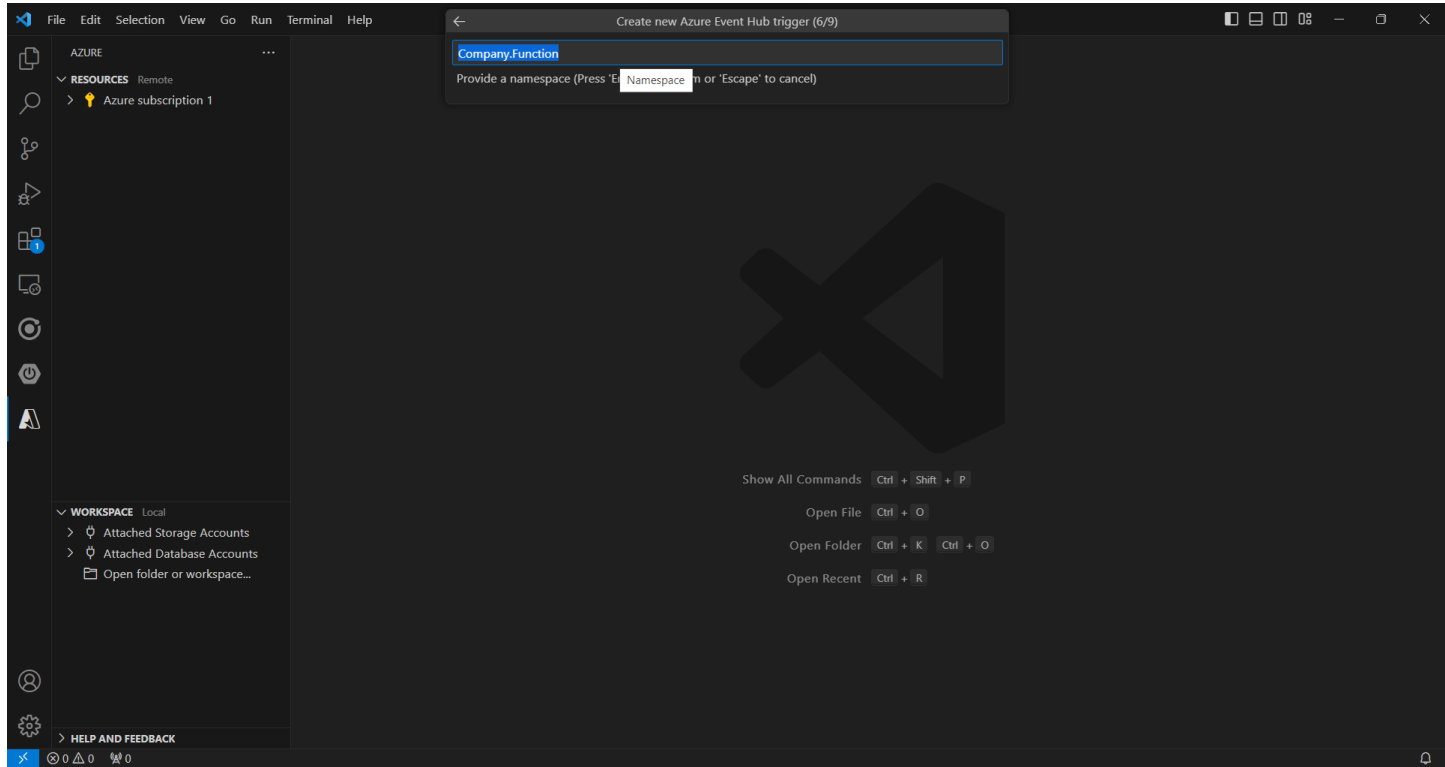
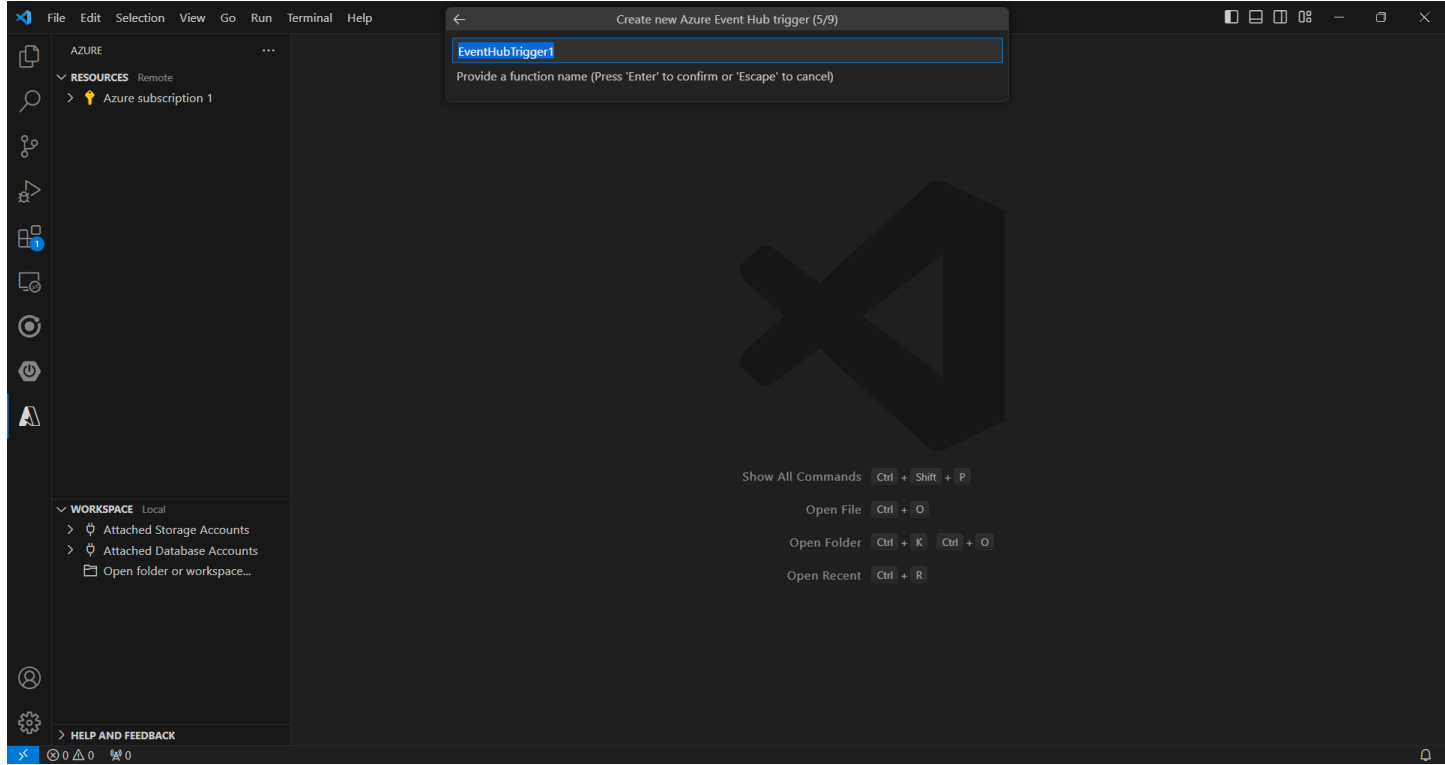
[https://github.com/luisccoco/AzureFunctions\\_EventHub\\_triggered](https://github.com/luisccoco/AzureFunctions_EventHub_triggered)

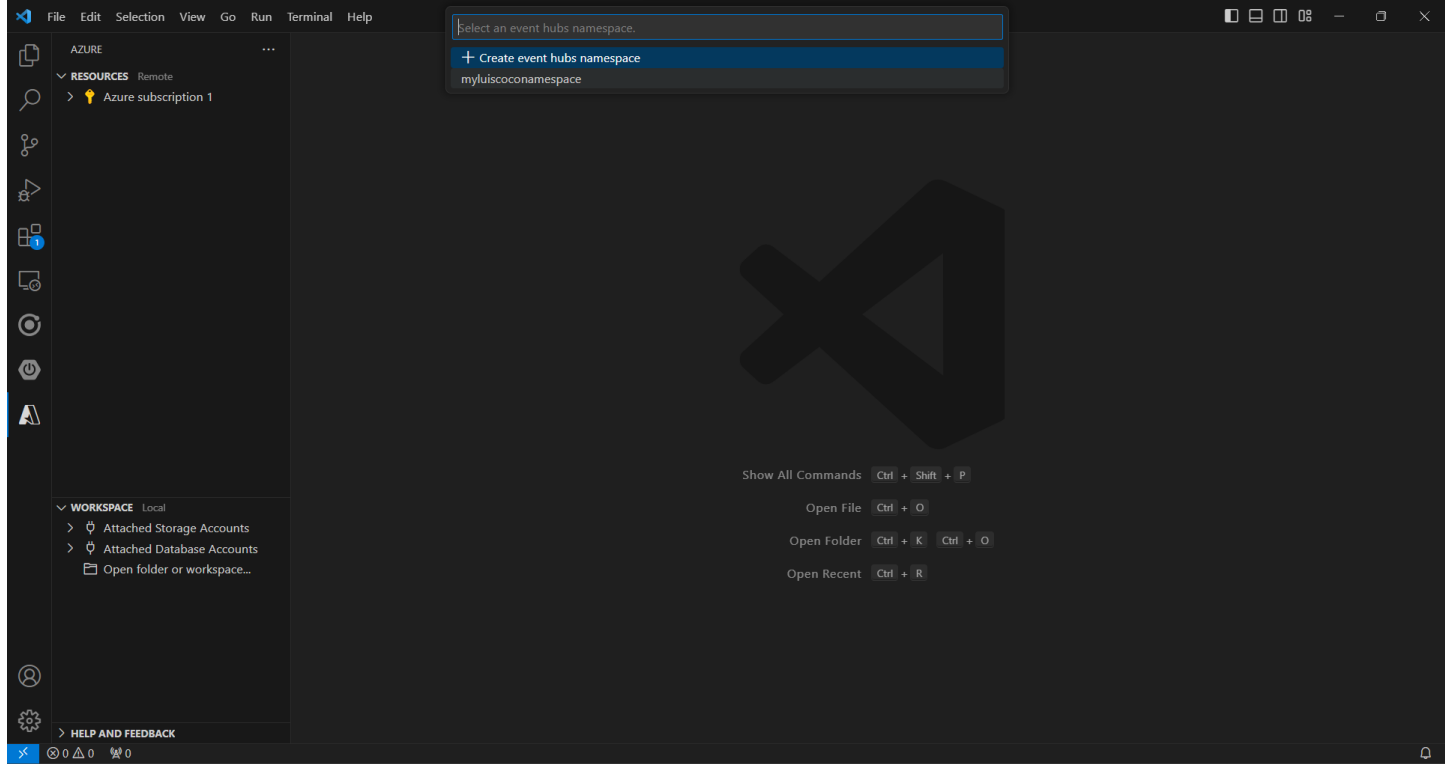
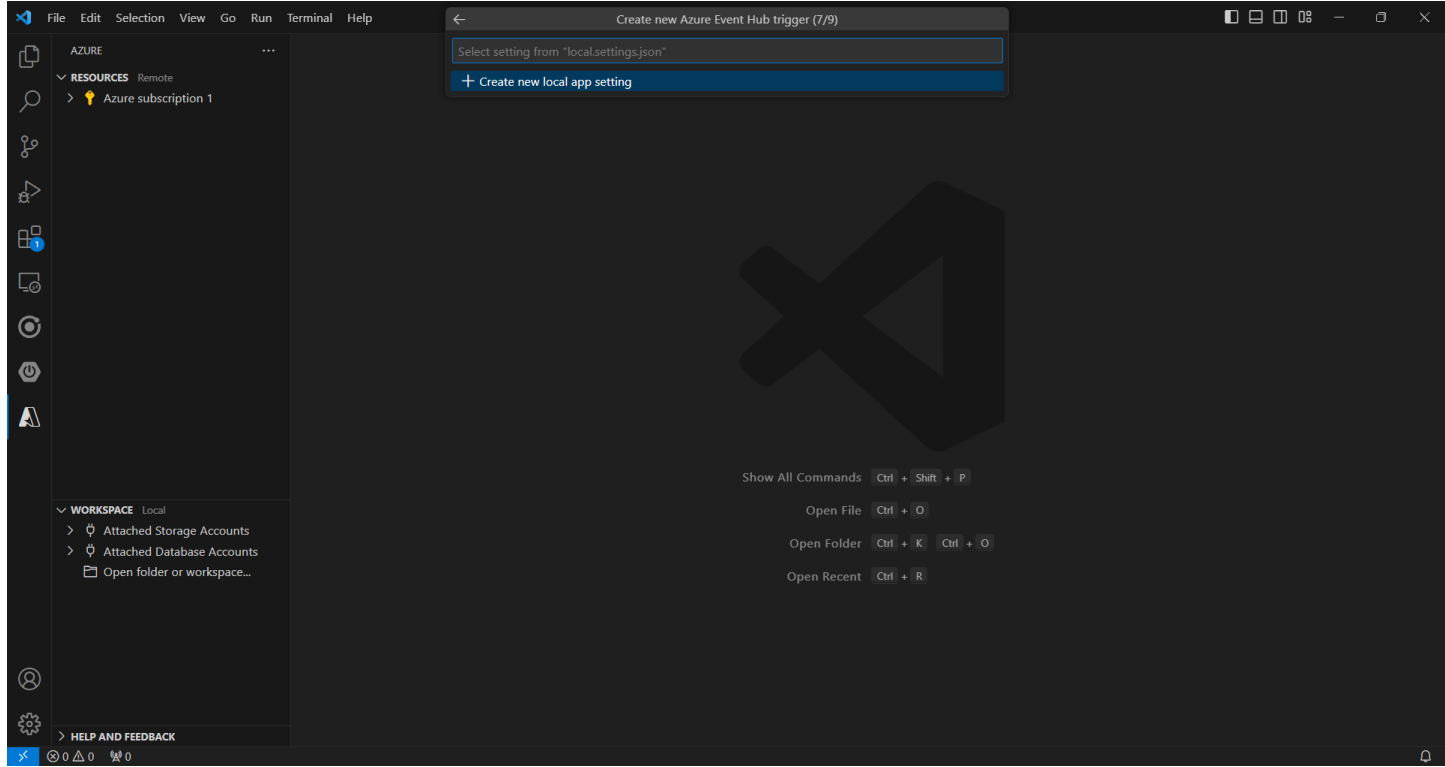
## 1. Create in VSCode an Azure Function EventHub triggered

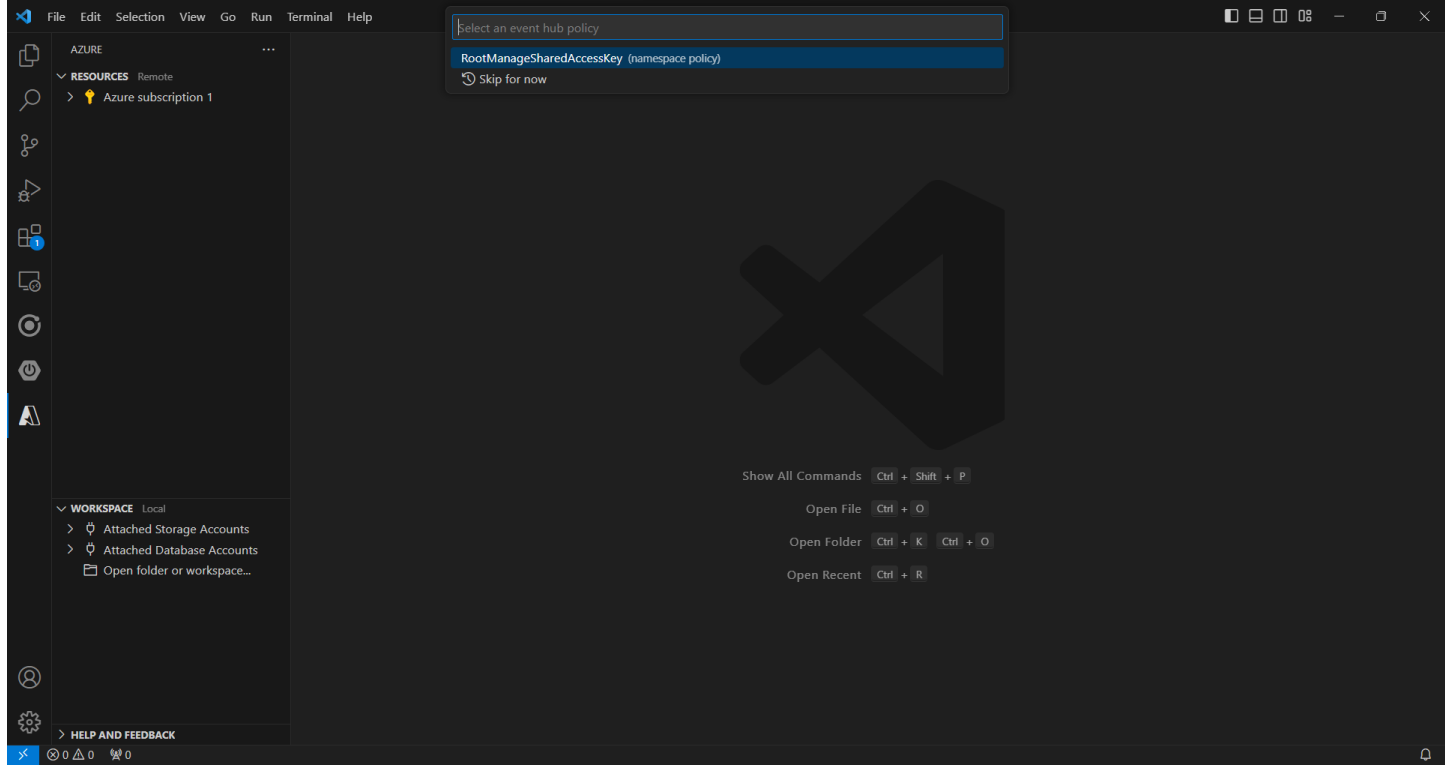
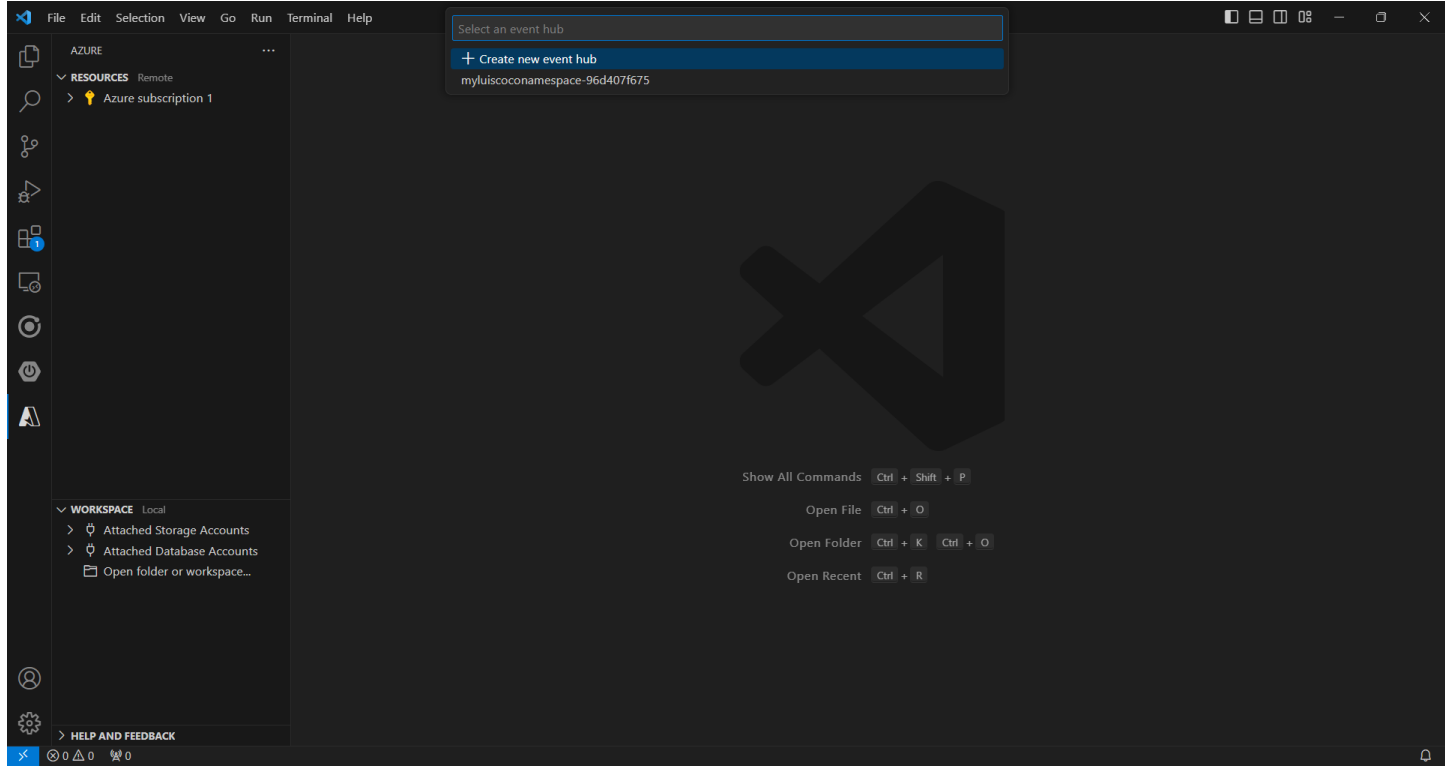


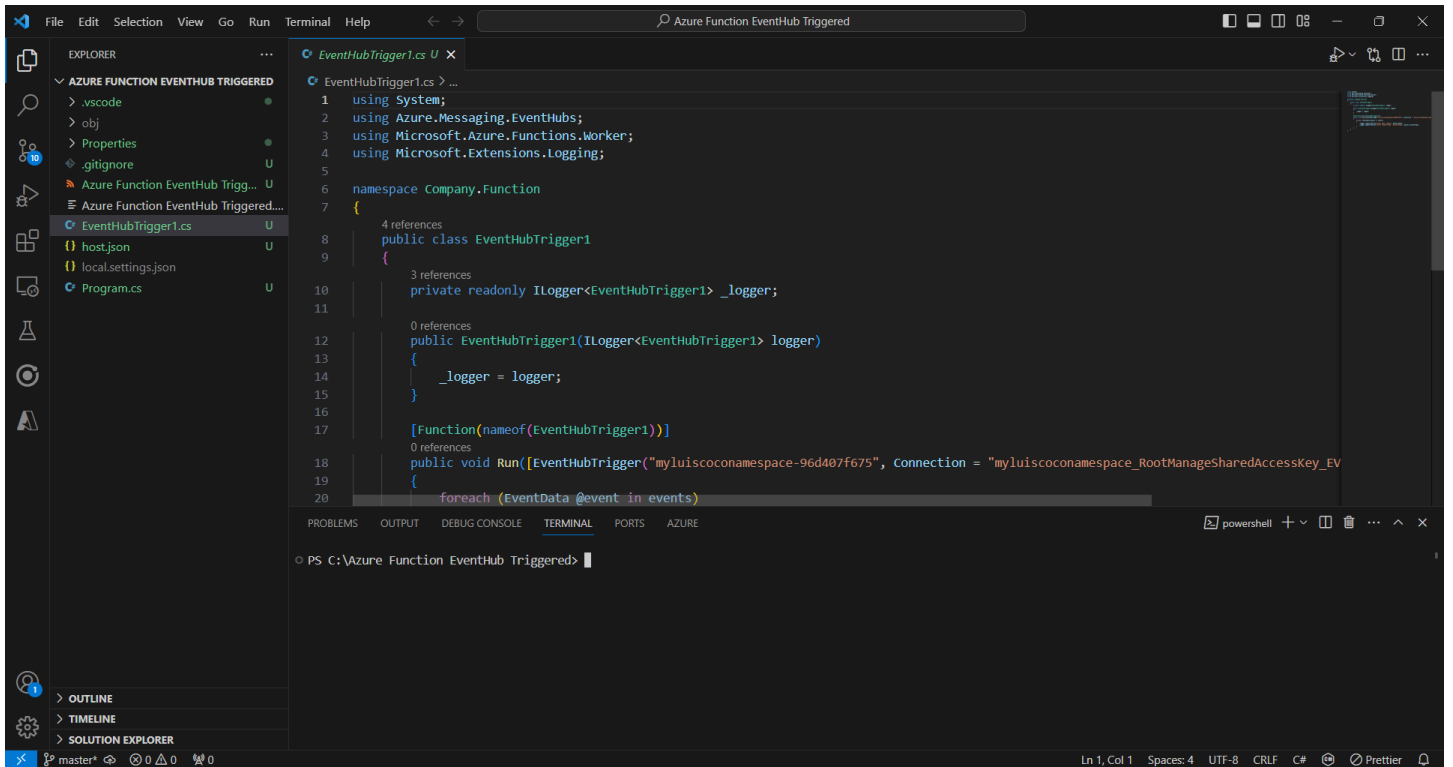
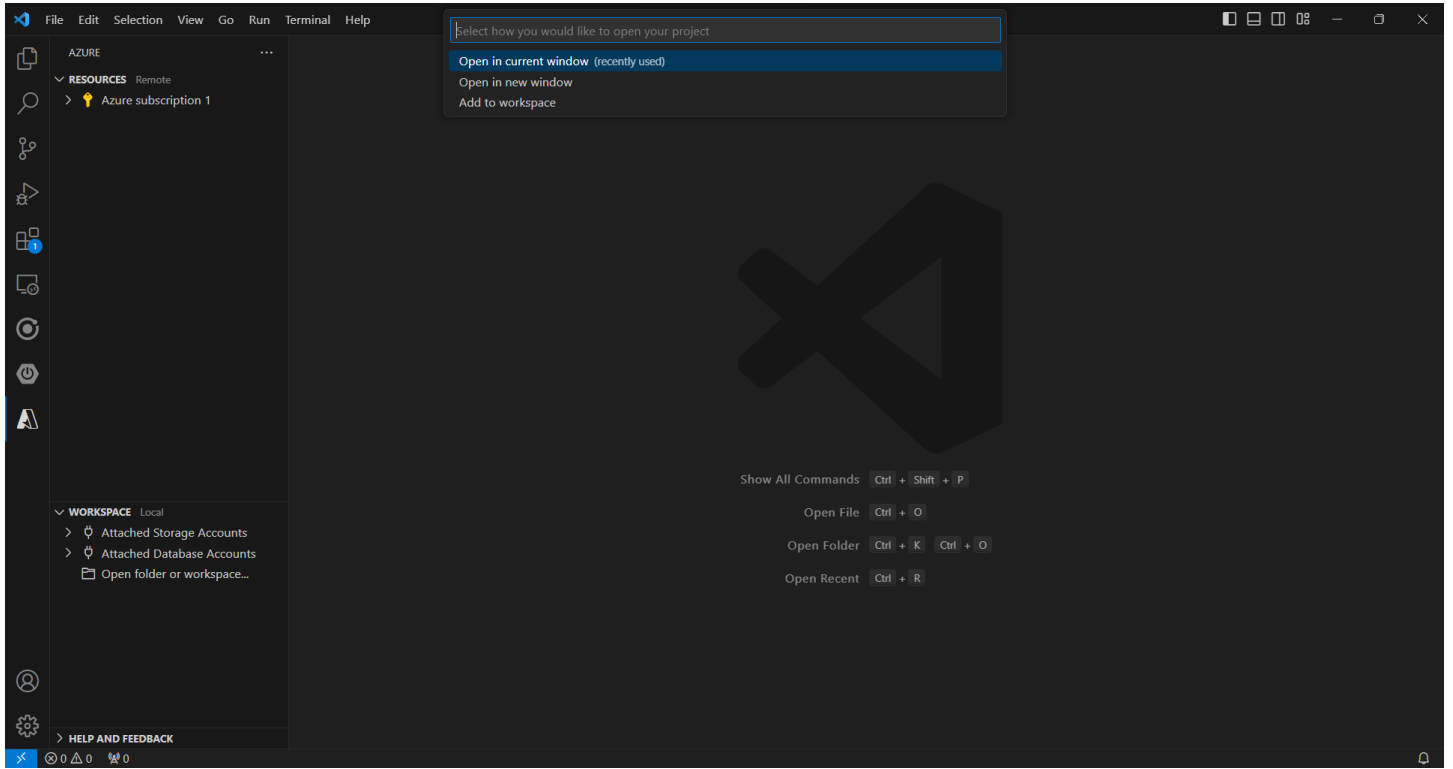












## 2. Create an Azure Function in Azure Portal

Microsoft Azure

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

Home >

## Function App

particular (luiscocoenriquez@hotmail.onmicrosoft.com)

+ Create Manage view Refresh Export to CSV Open query Assign tags Start Restart Stop Delete

Filter for any field... Subscription equals all Resource group equals all Location equals all Add filter

Showing 0 to 0 of 0 records.

No grouping List view

Name	Status	Location	Pricing Tier	App Service Plan	Subscription	App Type
------	--------	----------	--------------	------------------	--------------	----------

No function apps match your filters

Try changing or clearing your filters.

Create Function App Clear filters

Learn more about App Service

Microsoft Azure

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

Home > Function App >

## Create Function App

Basics Storage Networking Monitoring Deployment Tags Review + create

Create a function app, which lets you group functions as a logical unit for easier management, deployment and sharing of resources. Functions lets you execute your code in a serverless environment without having to first create a VM or publish a web application.

**Project Details**

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

Subscription \* Azure subscription 1

Resource Group \* (New) myazurefunction1974\_group

[Create new](#)

**Instance Details**

Function App name \* myazurefunction1974 .azurewebsites.net

Do you want to deploy code or container image? \* ☒ Code ☐ Container Image

Runtime stack \* .NET

Review + create < Previous Next : Storage >

Microsoft Azure

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

Home > Function App >

## Create Function App

Version \* 8 (LTS) Isolated (Early Access)

Region \* West Europe

**Operating system**

The Operating System has been recommended for you based on your selection of runtime stack.

Operating System \* ☐ Linux ☒ Windows

**Hosting**

The plan you choose dictates how your app scales, what features are enabled, and how it is priced. [Learn more](#)

Hosting options and plans \* ☒ Consumption (Serverless)  
Optimized for serverless and event-driven workloads.

☐ Functions Premium  
Event based scaling and network isolation, ideal for workloads running continuously.

☐ App service plan  
Fully isolated and dedicated environment suitable for workloads that need large SKUs or need to co-locate Web Apps and Functions.

Review + create < Previous Next : Storage >



Microsoft Azure

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Create a resource

Home

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All services

FAVORITES

All resources

Resource groups

Quickstart Center

App Services

Function App

SQL databases

Azure Cosmos DB

Virtual machines

Load balancers

Storage accounts

Virtual networks

Microsoft Entra ID

Monitor

Advisor

Microsoft Defender for

Home > Function App >

Create Function App

BasicsStorageNetworkingMonitoringDeploymentTagsReview + create

Summary

Function App by Microsoft

Details

Subscription846901e6-da09-45c8-98ca-7cca2353ff0e

Resource Groupmyazurefunction1974\_group

Namemyazurefunction1974

Runtime stack.NET 8 (LTS) Isolated (Early Access)

Hosting

Storage

Storage account

Plan (New)

Hosting options and plansConsumption (Serverless)

ASD\_myazurefunction1974\_group\_8947

Create< PreviousNext >Download a template for automation

Microsoft Azure

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App Services

Function App

SQL databases

Azure Cosmos DB

Virtual machines

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Storage accounts

Home >

Microsoft.Web-FunctionApp-Portal-7b8b989e-9d49 | Overview

Deployment

Search

DeleteCancelRedeployDownloadRefresh

Overview

Inputs

Outputs

Template

Deployment is in progress

Deployment name: Microsoft.Web-FunctionApp-Portal-... Start time: 12/8/2023, 10:22:31 PM

Subscription: Azure subscription 1 Correlation ID: 584faa9a-2da6-4c67-b311-acea4ad

Resource group: myazurefunction1974\_group

Deployment details

ResourceTypeStatusOperation details

No results.

Give feedback

Tell us about your experience with deployment

Microsoft Defender for Cloud

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Work with an expert

Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.

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Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

**Deployment succeeded**

Deployment 'Microsoft.Web-FunctionApp-Portal-7b8b989e-9d49' to resource group 'myazurefunction1974\_group' was successful.

Go to resource Pin to dashboard

**Your deployment is complete**

Deployment name: Microsoft.Web-FunctionApp-Portal-... Start time: 12/8/2023, 10:22:31 PM  
Subscription: Azure subscription 1 Correlation ID: 584faa9a-2da6-4c67-b311-acea4ad  
Resource group: myazurefunction1974\_group

Deployment details

Next steps

Create a function. Recommended  
Manage deployments for your app. Recommended

Go to resource

Give feedback  
Tell us about your experience with deployment

Cost Management  
Get notified to stay within your budget and prevent unexpected charges on your bill.  
Set up cost alerts >

Microsoft Defender for Cloud  
Secure your apps and infrastructure  
Go to Microsoft Defender for Cloud >

Free Microsoft tutorials

Microsoft Azure

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Function App

Search

Browse Refresh Stop Restart Swap Get publish profile Reset publish profile Download app content Delete

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Microsoft Defender for Cloud

Events (preview)

Functions

App keys

App files

Proxies

Deployment

Deployment slots

Deployment Center

Settings

Configuration

Essentials

Resource group (move): myazurefunction1974\_group URL: https://myazurefunction1974.azurewebsites.net

Status: Running

Location (move): West Europe

Subscription (move): Azure subscription 1

Subscription ID: 846901e6-da09-45c8-98ca-7cca2353ff0e

Tags (edit):

Functions Metrics Properties Notifications (0)

Create functions in your preferred environment

Create in Azure portal

Best optimized for:

- Getting started without local setup
- Choose from our Function templates

Create in Azure portal

VS Code Desktop

Best optimized for:

- Local development within VS Code
- Custom development tool requirements

Create with VS Code Desktop

Other editors or CLI

Best optimized for:

- Using preferred editor for development
- Visual Studio, IntelliJ, command line

Set up your editor

### 3. Create a configuration variable in Azure Function (Azure Portal)

Microsoft Azure

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Function App

Search

Refresh Save Discard Leave Feedback

Settings

Configuration

Authentication

Application Insights

Identity

Backups

Custom domains

Certificates

Networking

Scale up (App Service plan)

Scale out

Service Connector

Properties

Locks

App Service plan

Application settings

Function runtime settings

General settings

Application settings

Application settings are encrypted at rest and transmitted over an encrypted channel. You can choose to display them in plain text in your browser by using the controls below. Application Settings are exposed as environment variables for access by your application at runtime. [Learn more](#)

+ New application setting Show values Advanced edit

Filter application settings

Name	Value	Source	Deployment slot setting	De
APPLICATIONINSIGHTS_CONNECTION_STRING	Hidden value. Click to show value	App Service	[	
AzureWebJobsStorage	Hidden value. Click to show value	App Service	[	
FUNCTIONS_EXTENSION_VERSION	Hidden value. Click to show value	App Service	[	
FUNCTIONS_WORKER_RUNTIME	Hidden value. Click to show value	App Service	[	
WEBSITE_CONTENTAZUREFILECONNECTION	Hidden value. Click to show value	App Service	[	
WEBSITE_CONTENTSHARE	Hidden value. Click to show value	App Service	[	
WEBSITE_USE_PLACEHOLDER_DOTNETISOLA	Hidden value. Click to show value	App Service	[	

Microsoft Azure

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

Home > Microsoft.Web-FunctionApp-Portal-7b8b989e-9d49 | Overview > myazurefunction1974

**myazurefunction1974** | Configuration

Function App

Settings

- Configuration
- Authentication
- Application Insights
- Identity
- Backups
- Custom domains
- Certificates
- Networking
- Scale up (App Service plan)
- Scale out
- Service Connector
- Properties
- Locks
- App Service plan
- App Service plan

Add/Edit application setting

Name: myluiscoenamespace\_RootManageSharedAccessKey\_EVENTHUB

Value: AccessKey=cTO7Ut5V31YTerHsBAtnrKk/RDkmPUz1+AEhKC1qjM=:EntityPath=myluiscoenamespace-96d407f675

☐ Deployment slot setting

Ok Cancel

## 4. Stop the Azure Function in Azure Portal

We stop the Azure Function before deploying from VSCode

Microsoft Azure

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Home > Microsoft.Web-FunctionApp-Portal-7b8b989e-9d49 | Overview >

**myazurefunction1974** | Overview

Function App

Overview

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Microsoft Defender for Cloud
- Events (preview)
- Functions
- App keys
- App files
- Proxies
- Deployment
- Deployment slots
- Deployment Center
- Settings
- Configuration

Start Restart Swap Get publish profile Reset publish profile Download app content Delete

Stopping web app...  
Successfully stopped web app myazurefunction1974

Essentials

Resource group (move): myazurefunction1974\_group URL: https://myazurefunction1974.azurewebsites.net

Status: Stopped

Location (move): West Europe

Subscription (move): Azure subscription\_1

Subscription ID: 846901e6-da09-45c8-98ca-7cca2353ff0e

Tags (edit):

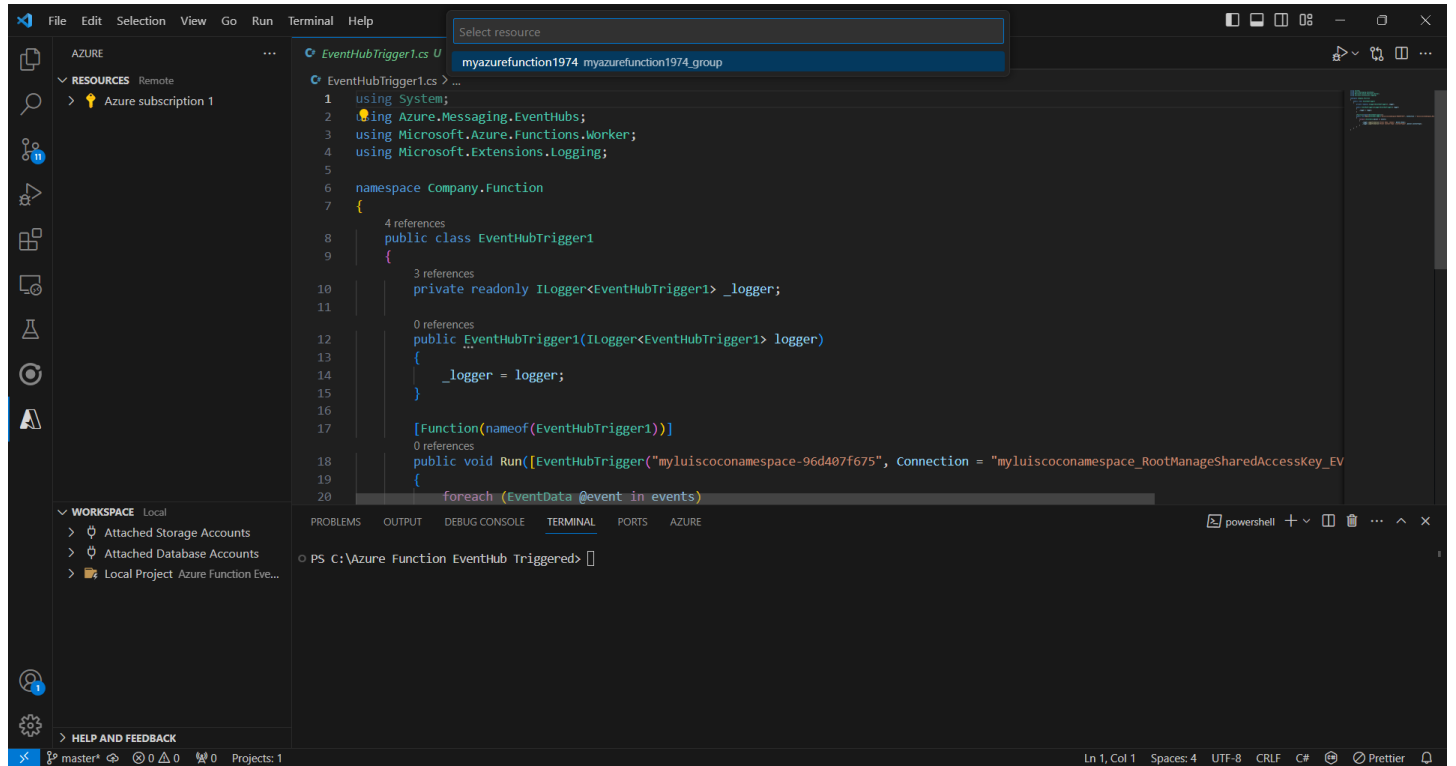
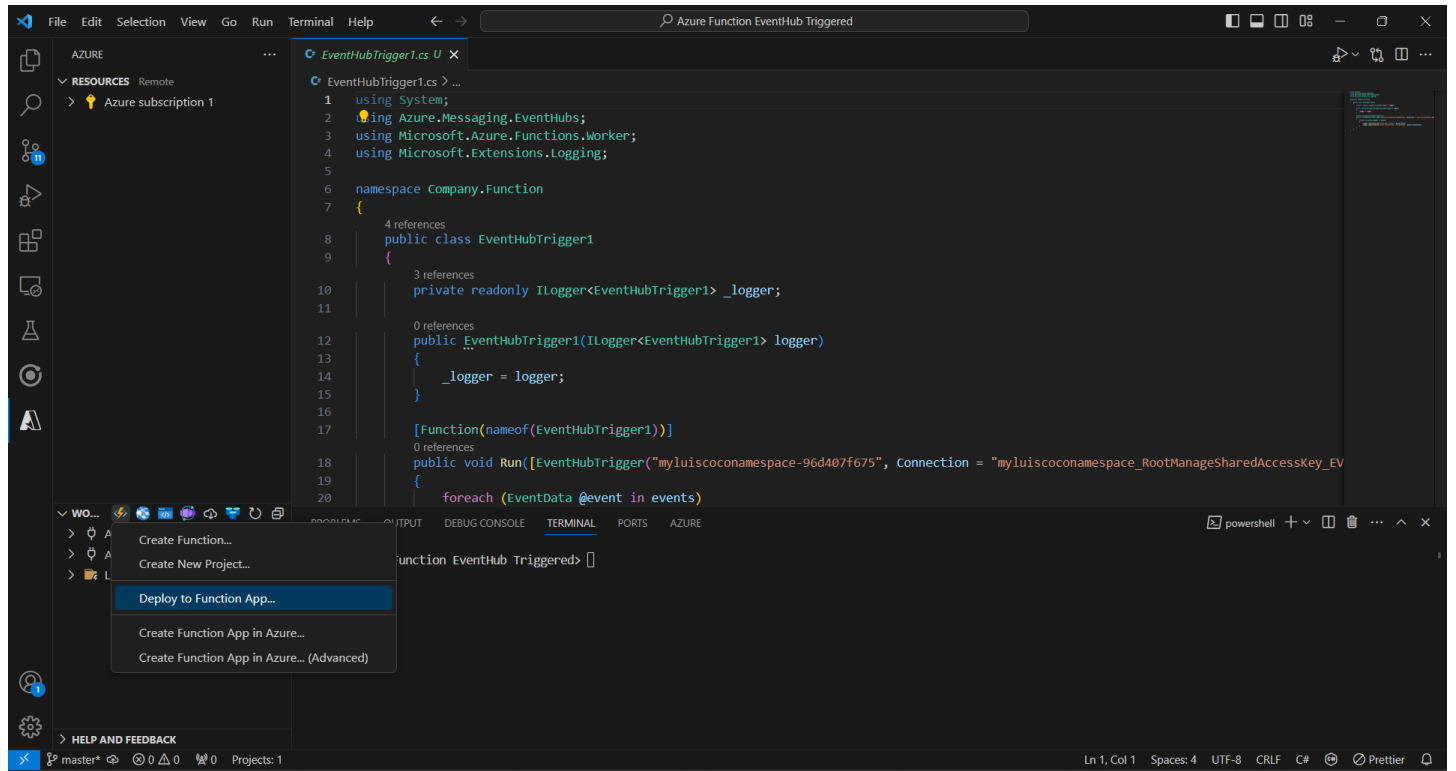
Functions Metrics Properties Notifications (0)

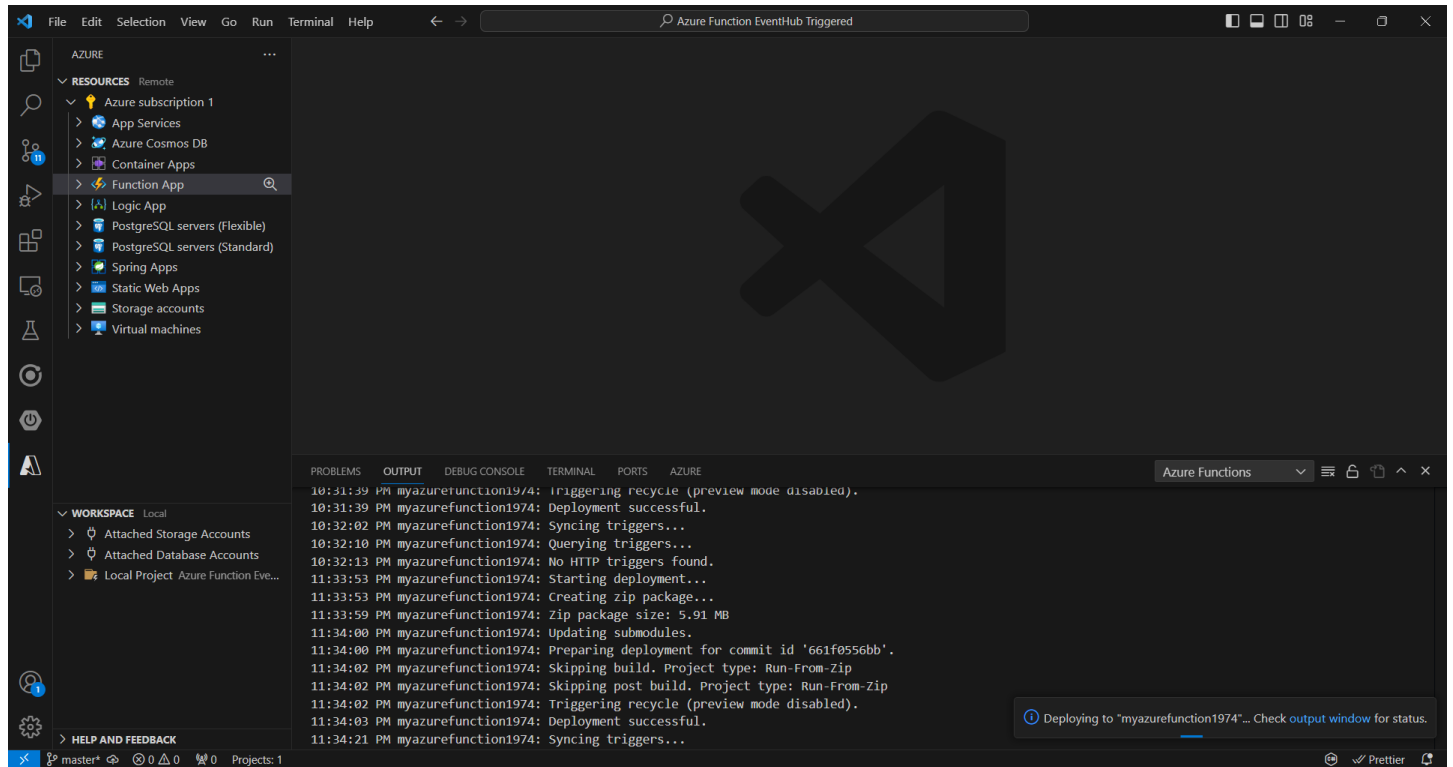
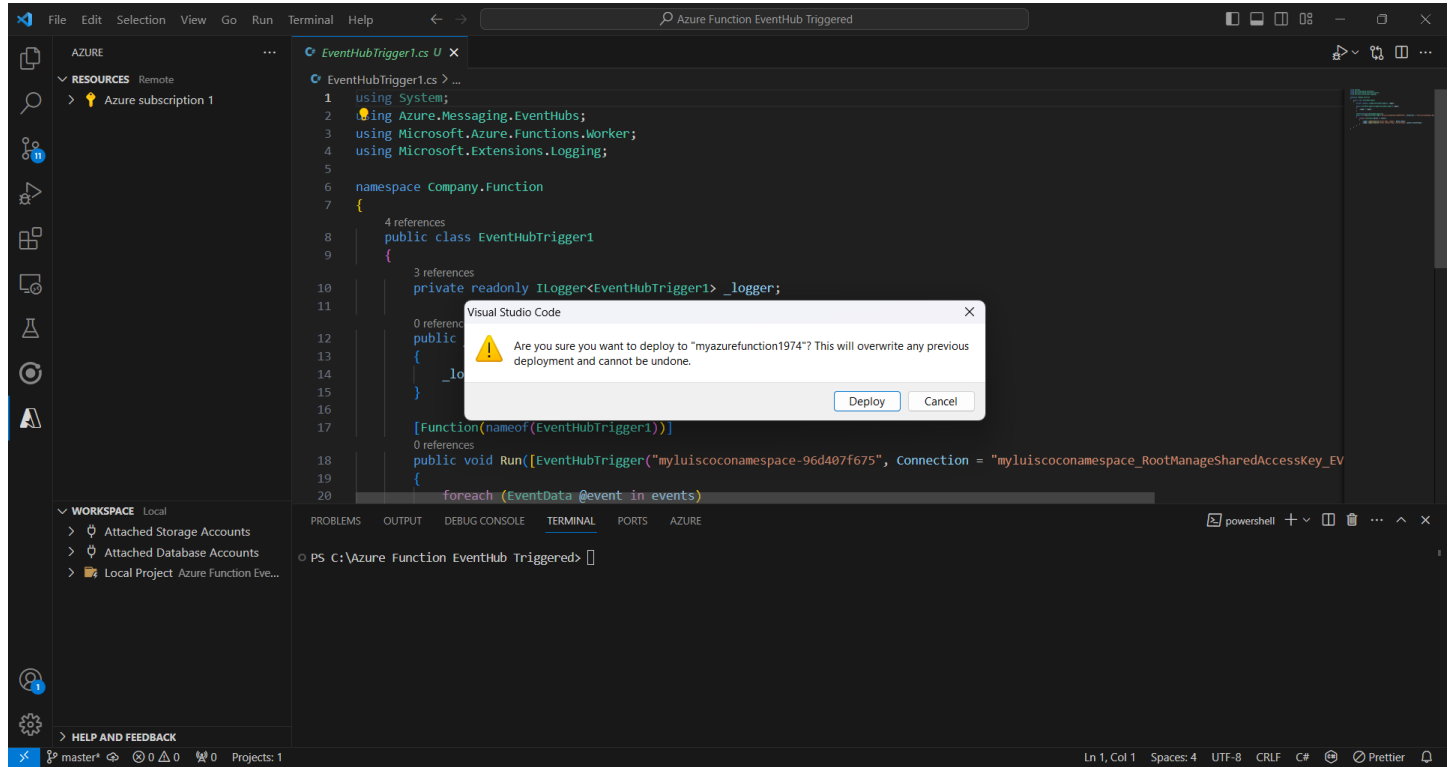
+ Create {} Set up local environment Refresh

Filter by name...

Name	Trigger	Status	Monitor
EventHubTrigger1	Event Hub	Enabled	Invocations and more

## 5. Deploy the Azure Function with VSCode





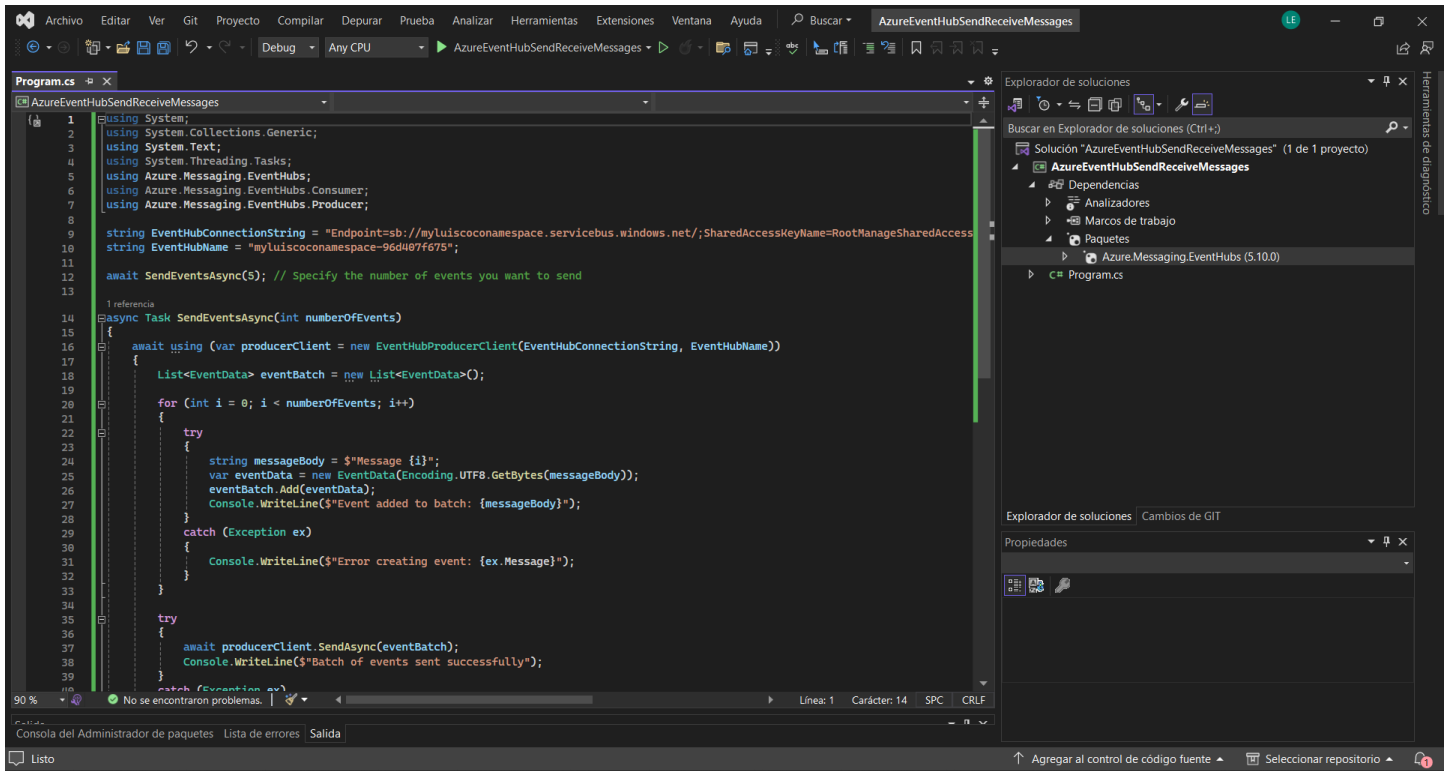
The screenshot shows the Microsoft Azure portal interface. The left sidebar contains navigation options like 'Create a resource', 'Home', 'Dashboard', 'All services', and 'FAVORITES'. The main content area displays the 'EventHubTrigger1' Function overview. At the top, there's a search bar and action buttons (Enable, Disable, Delete, Get Function Url, Refresh). A warning message states: 'Editing .NET isolated Function Apps is not supported in the Azure portal. Use your local development environment to edit this Function App.' Below this, the 'Essentials' section lists details: Resource group (myazurefunction1974\_group), Location (West Europe), Subscription (Azure subscription 1), Subscription ID (846901e6-da09-45c8-98ca-7cca2353ff0e), Function app (myazurefunction1974), and Tags (Add tags). At the bottom, there are two charts: 'Total Execution Count' and 'Successful Execution Count', both showing a scale from 60 to 100.

The screenshot shows the 'Code + Test' page for the 'EventHubTrigger1' Function. The left sidebar is the same as the previous screenshot. The main content area has a search bar and action buttons (Save, Discard, Refresh, Test/Run, Upload). A warning message is present: 'Editing .NET Isolated Function Apps is not supported in the Azure portal. Use your local development environment to edit this function.' Below this, the 'Developer' section shows the 'Code + Test' tab selected. The code editor displays the 'host.json' file with the following content:

```
1 {
2   "version": "2.0",
3   "logging": {
4     "applicationInsights": {
5       "samplingSettings": {
6         "isEnabled": true,
7         "excludedTypes": "Request"
8       },
9     "enableLiveMetricsFilters": true
10  }
11 }
12 }
```

Below the code editor, there's a 'Logs' section with a message: 'connected! You are now viewing logs of Function runs in the current Code + Test panel. To see all the logs for this Function, please go to 'Monitor' from the Function menu.'

## 6. Create the C# console application in Visual Studio 2022 for sending messages to Azure EventHub



```
using System;
using System.Collections.Generic;
using System.Text;
using System.Threading.Tasks;
using Azure.Messaging.EventHubs;
using Azure.Messaging.EventHubs.Consumer;
using Azure.Messaging.EventHubs.Producer;
```

```
string EventHubConnectionString = "Endpoint=sb://myluiscoconamespace.servicebus.windows.net/;S
string EventHubName = "myluiscoconamespace-96d407f675";
```

```
await SendEventsAsync(5); // Specify the number of events you want to send
```

```
async Task SendEventsAsync(int numberOfEvents)
{
    await using (var producerClient = new EventHubProducerClient(EventHubConnectionString, Eve
    {
        List<EventData> eventBatch = new List<EventData>();

        for (int i = 0; i < numberOfEvents; i++)
        {
            try
            {
                string messageBody = $"Message {i}";
                var eventData = new EventData(Encoding.UTF8.GetBytes(messageBody));
                eventBatch.Add(eventData);
                Console.WriteLine($"Event added to batch: {messageBody}");
            }
            catch (Exception ex)
            {
                Console.WriteLine($"Error creating event: {ex.Message}");
            }
        }
    }
}
```

```

    }
}

try
{
    await producerClient.SendAsync(eventBatch);
    Console.WriteLine($"Batch of events sent successfully");
}
catch (Exception ex)
{
    Console.WriteLine($"Error sending batch of events: {ex.Message}");
}
}
}

```

## 7. Run the sending message application and monitor the output

```

Event added to batch: Message 0
Event added to batch: Message 1
Event added to batch: Message 2
Event added to batch: Message 3
Event added to batch: Message 4
Batch of events sent successfully

C:\Azure EventHub send receive messages\AzureEventHubSendReceiveMessages\bin\Debug\net8.0\AzureEventHubSendReceiveMessages.exe (proceso 22348) se cerró con el código 0.
Para cerrar automáticamente la consola cuando se detiene la depuración, habilite Herramientas ->Opciones ->Depuración -> Cerrar la consola automáticamente al detenerse la depuración.
Presione cualquier tecla para cerrar esta ventana. . .|

```

Microsoft Azure | Search resources, services, and docs (G+)

Home > myazurefunction1974 > EventHubTrigger1

EventHubTrigger1 | Monitor

Function

Search

Overview

Developer

- Code + Test
- Integration
- Monitor
- Function Keys

App Insights Logs | Log Level | Stop | Copy | Clear | Open in Live Metrics | Leave Feedback

Connected!

```

2023-12-08T22:37:12Z [Information] Executing 'Functions.EventHubTrigger1' (Reason='(null)', Id=68e0867f-b279-41b7-b618-ce249fec05a3)
2023-12-08T22:37:12Z [Information] Trigger Details: PartitionId: 3, Offset: 2880-3136, EnqueueTimeUtc: 2023-12-08T22:37:12.3090000+00:00-2023-12-08T22:37:12.3090000+00:00, SequenceNumber: 45-49, Count: 5
2023-12-08T22:37:13Z [Information] Event Body: Message 0
2023-12-08T22:37:13Z [Information] Event Content-Type: (null)
2023-12-08T22:37:13Z [Information] Event Body: Message 1
2023-12-08T22:37:13Z [Information] Event Content-Type: (null)
2023-12-08T22:37:13Z [Information] Event Body: Message 2
2023-12-08T22:37:13Z [Information] Event Content-Type: (null)
2023-12-08T22:37:13Z [Information] Event Body: Message 3
2023-12-08T22:37:13Z [Information] Event Content-Type: (null)
2023-12-08T22:37:13Z [Information] Event Body: Message 4
2023-12-08T22:37:13Z [Information] Event Content-Type: (null)
2023-12-08T22:37:13Z [Information] Executed 'Functions.EventHubTrigger1' (Succeeded, Id=68e0867f-b279-41b7-b618-ce249fec05a3, Duration=226ms)

```



Connected!

```
2023-12-08T22:37:12Z [Information] Executing 'Functions.EventHubTrigger1' (Reason='(null)', Id=68e0867f-b279-41b7-b618-
ce249f6c05a3)
2023-12-08T22:37:12Z [Information] Trigger Details: PartionId: 3, Offset: 2880-3136, EnqueueTimeUtc: 2023-12-
08T22:37:12.3090000+00:00-2023-12-08T22:37:12.3090000+00:00, SequenceNumber: 45-49, Count: 5
2023-12-08T22:37:13Z [Information] Event Body: Message 0
2023-12-08T22:37:13Z [Information] Event Content-Type: (null)
2023-12-08T22:37:13Z [Information] Event Body: Message 1
2023-12-08T22:37:13Z [Information] Event Content-Type: (null)
2023-12-08T22:37:13Z [Information] Event Body: Message 2
2023-12-08T22:37:13Z [Information] Event Content-Type: (null)
2023-12-08T22:37:13Z [Information] Event Body: Message 3
2023-12-08T22:37:13Z [Information] Event Content-Type: (null)
2023-12-08T22:37:13Z [Information] Event Body: Message 4
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ce249f6c05a3, Duration=226ms)
```