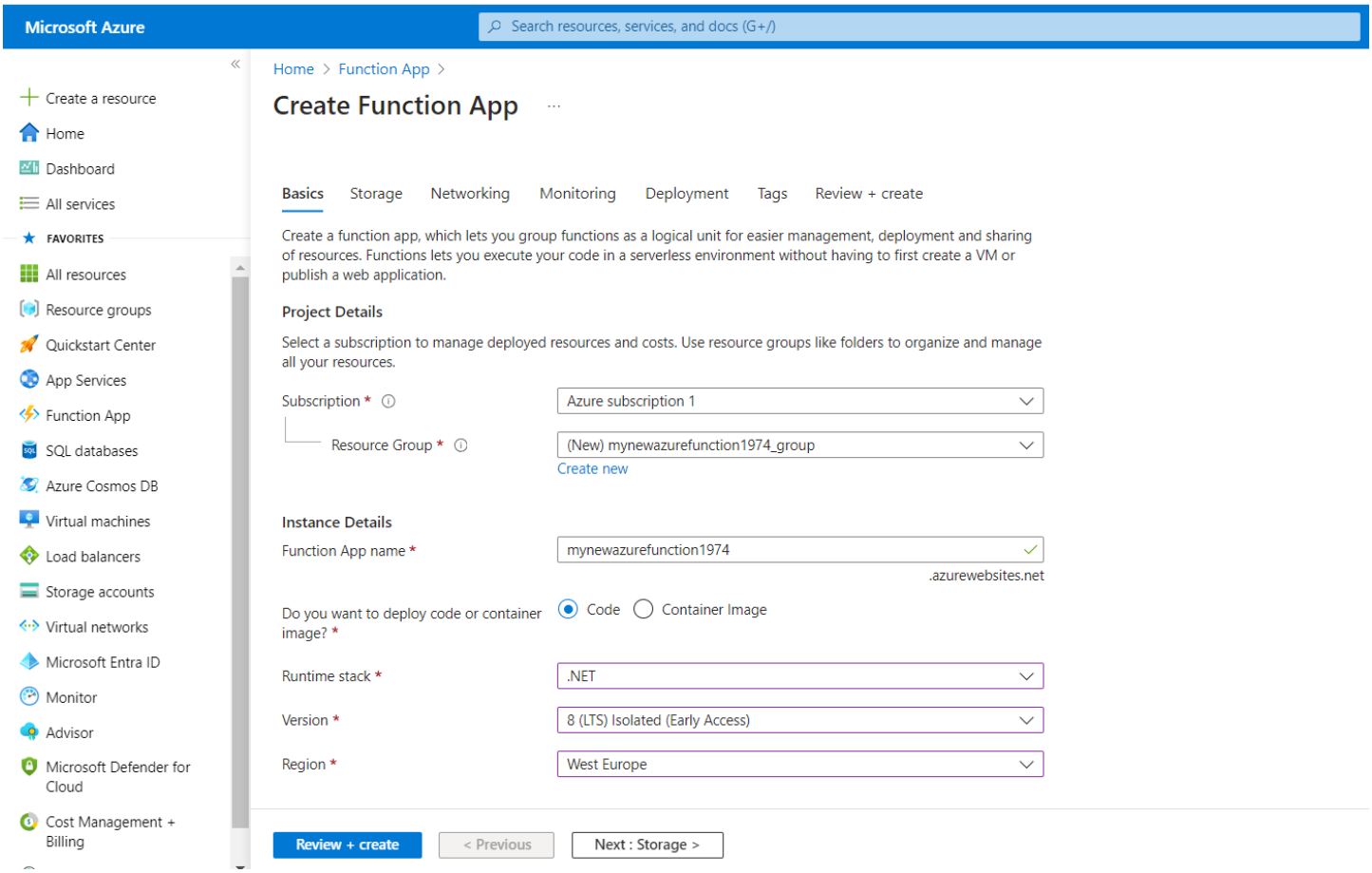
How to deploy an Azure Function in VSCode

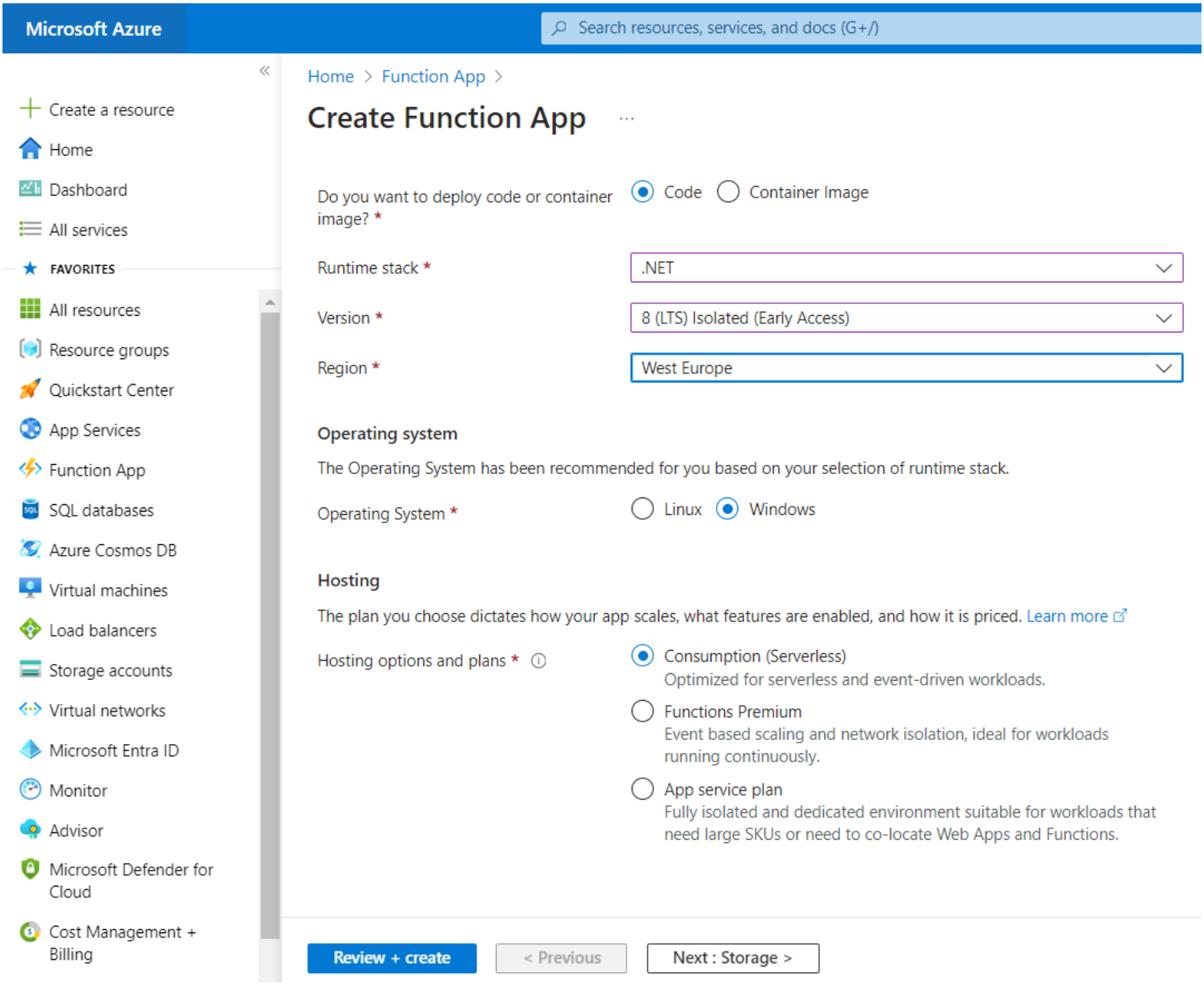
1. Create an Azure Function in Azure Portal

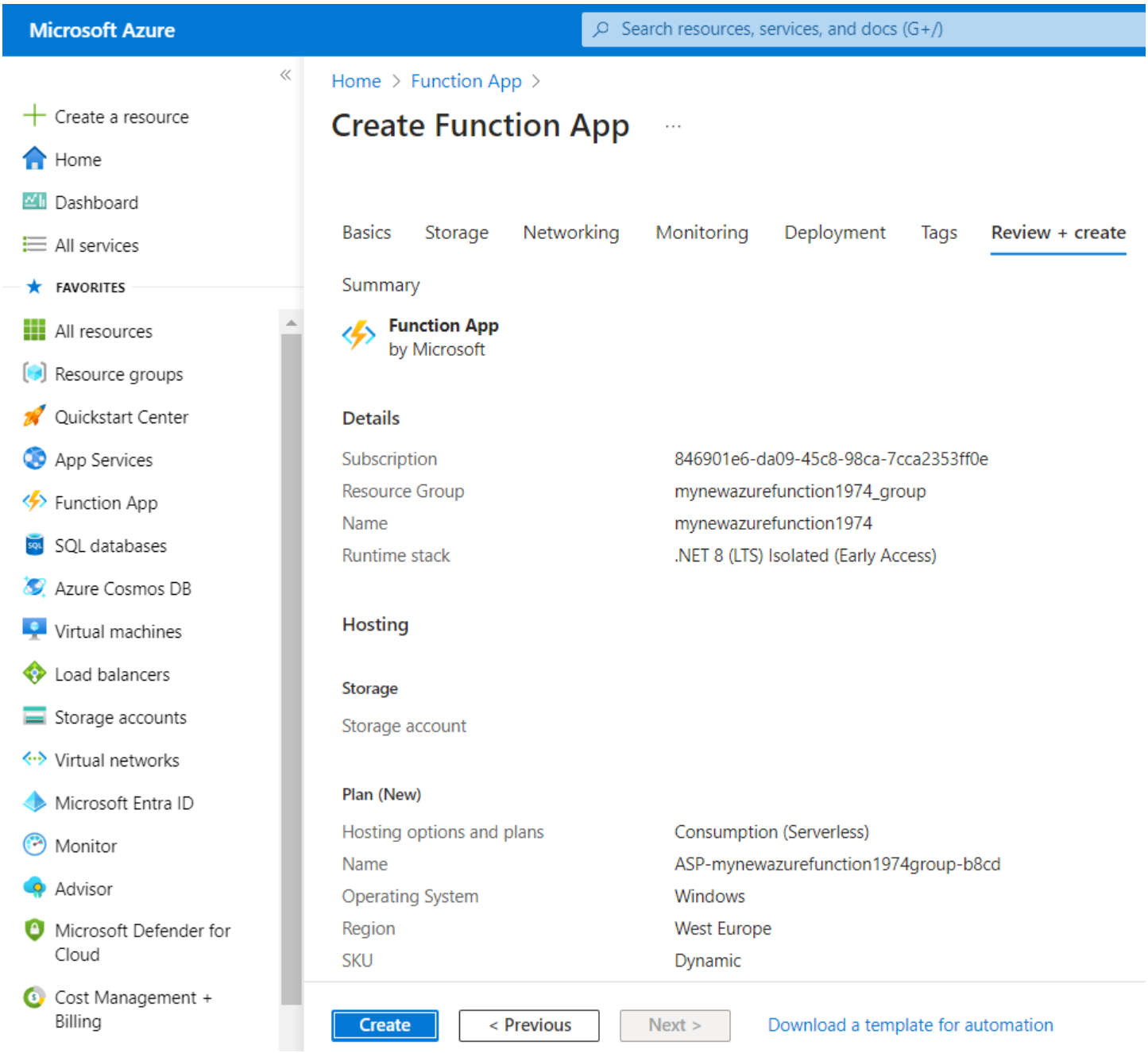
We login in Azure Portal and navigate to Azure Functions service.

We set the Azure Function name, the runtime stack, version and the deployment region:



We select the operating system, the hosting option and plan:


Microsoft Azure
Search resources, services, and docs (G+/)
Create a resource
Home
Dashboard
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 Cloud
Cost Management + Billing
Home > Function App >
Create Function App
Do you want to deploy code or container image? *
Code
Container Image
Runtime stack *
.NET
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
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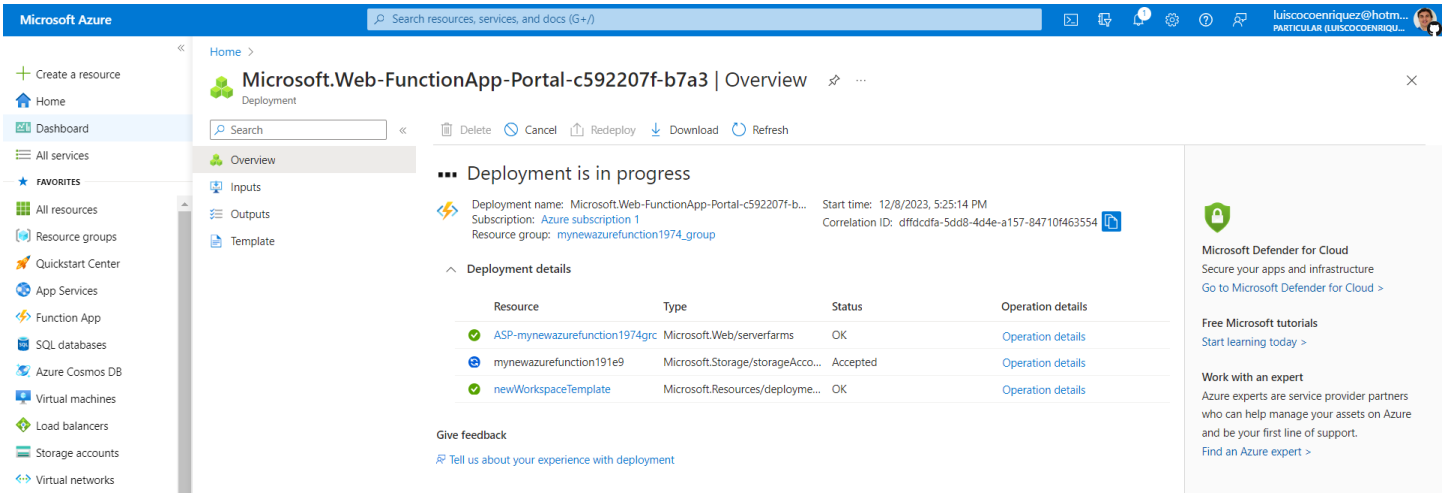
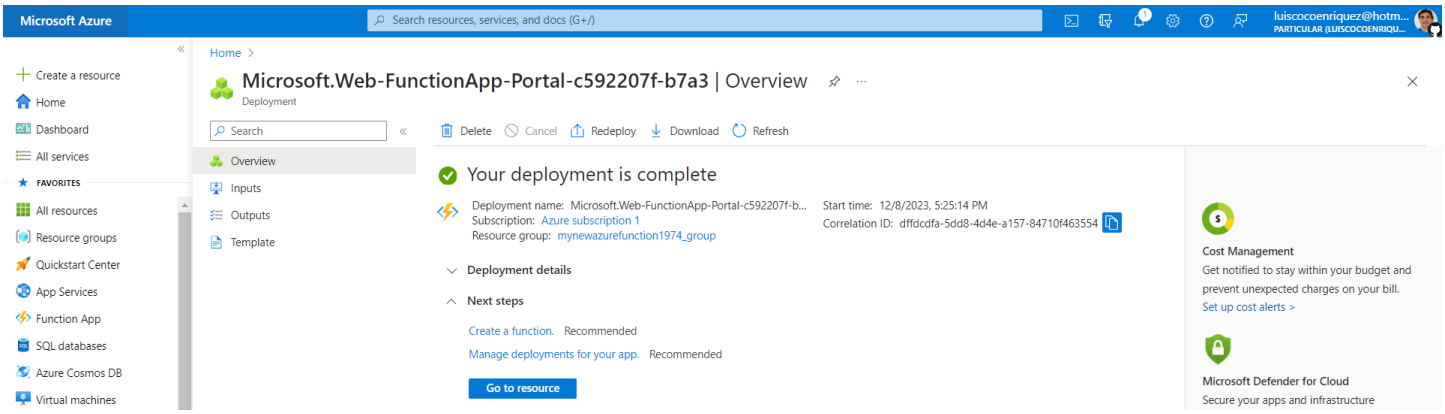
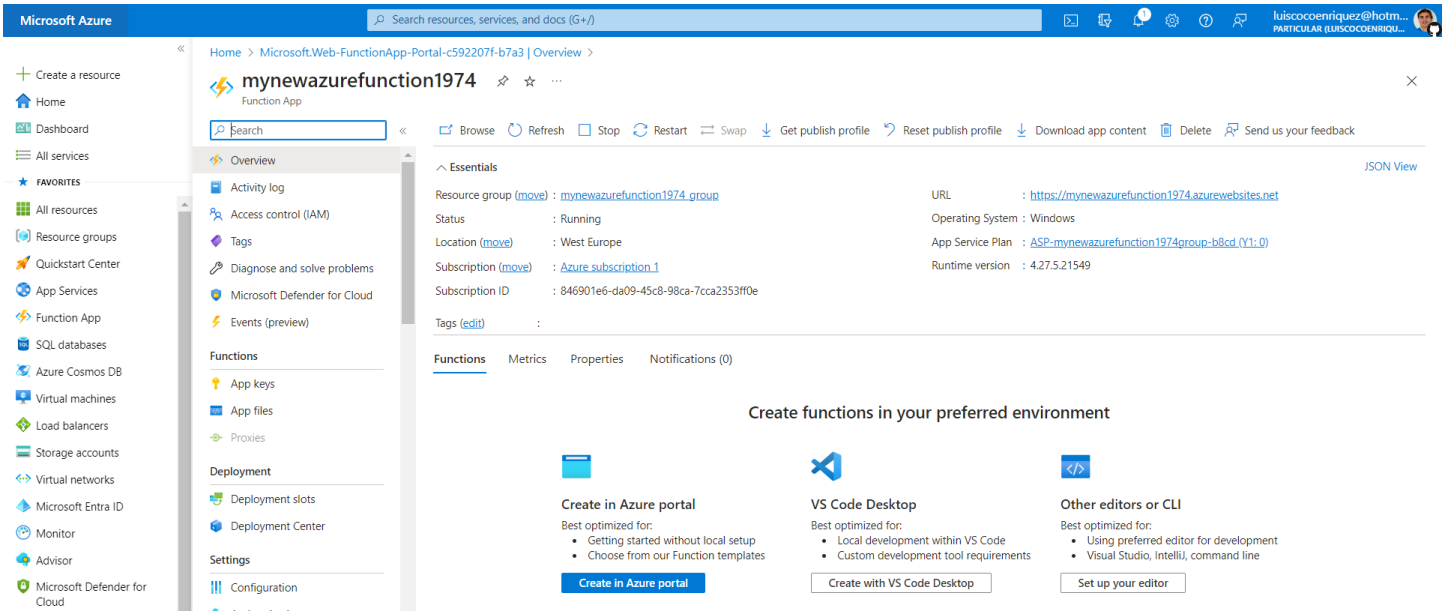
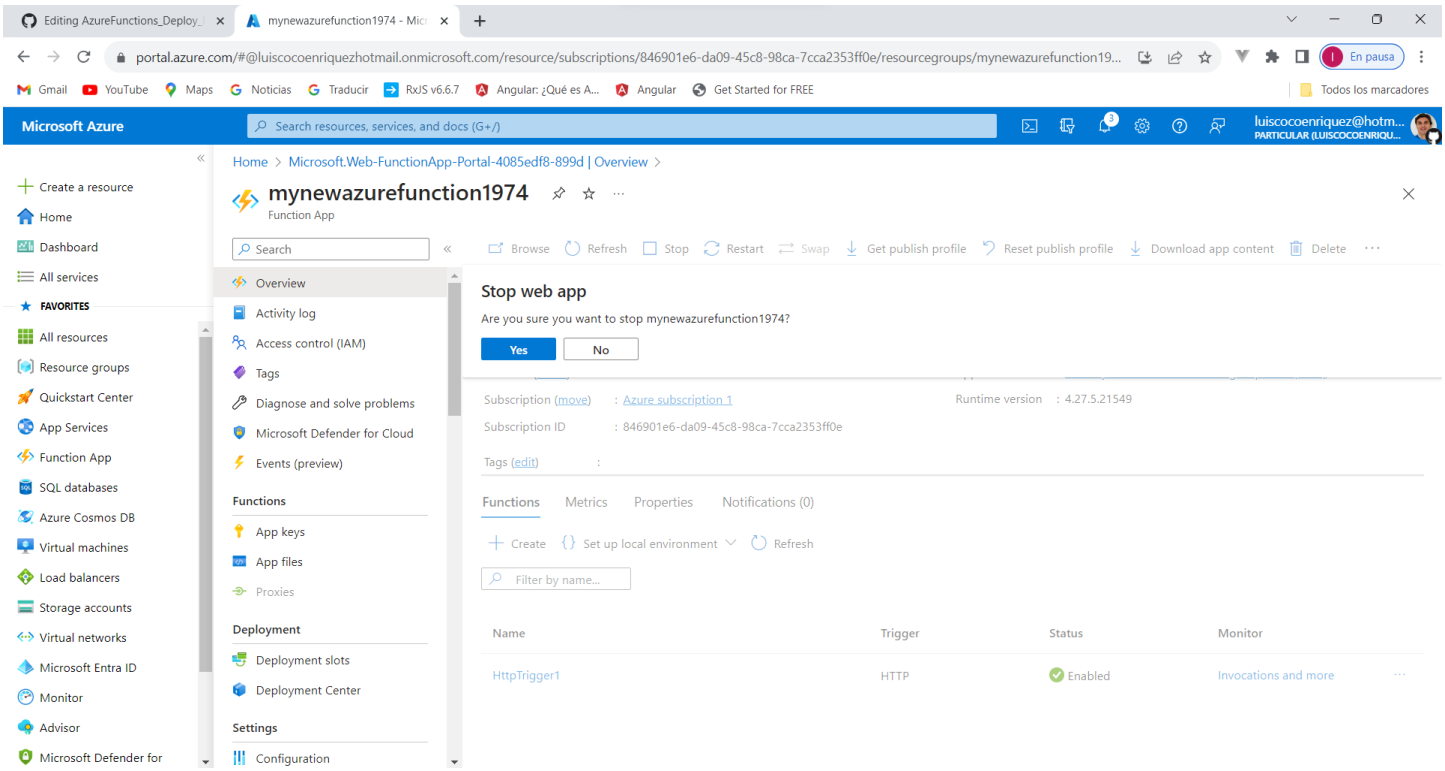
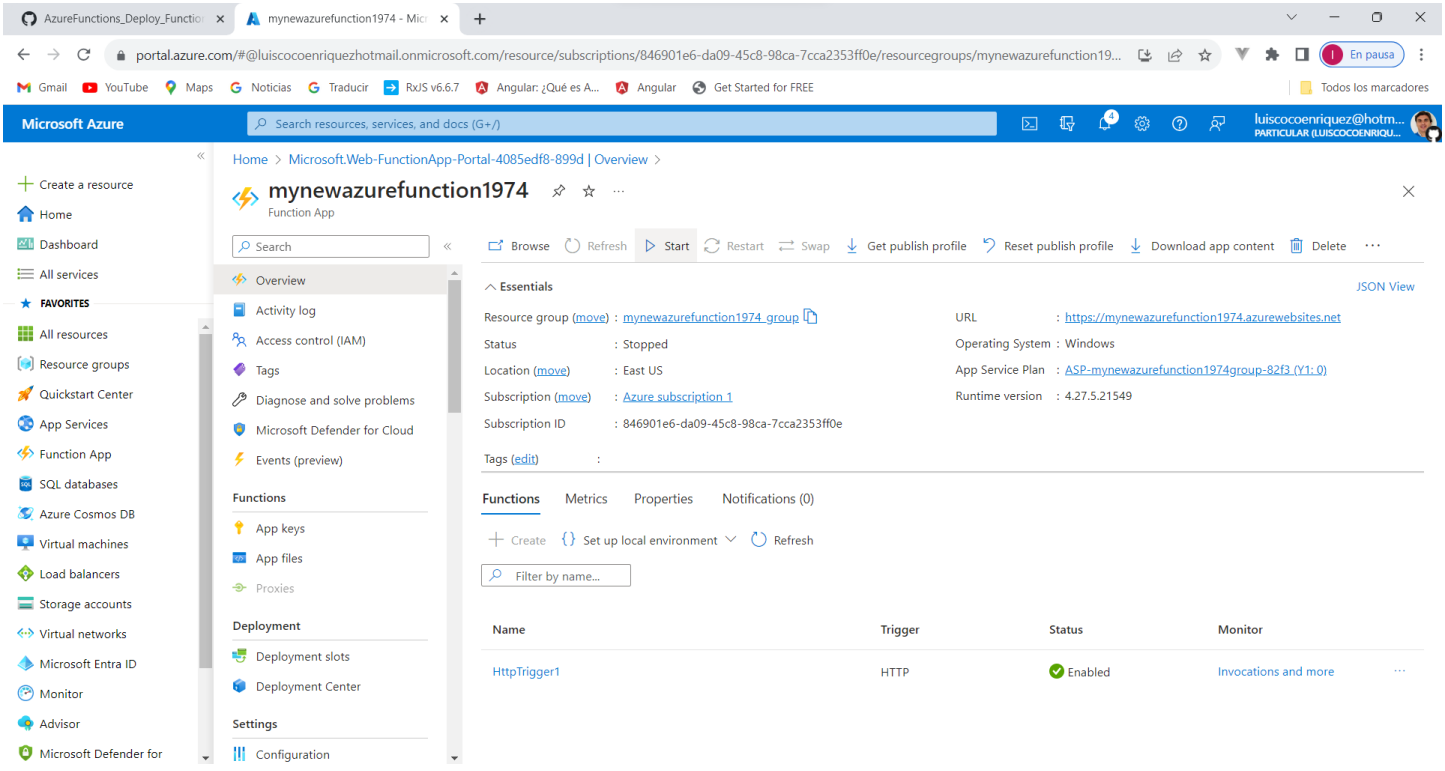
Dashboard
All services
FAVORITES
All resources
Resource groups
Quickstart Center
App Services
Function App
SQL databases
Azure Cosmos DB
Virtual machines
Load balancers
Storage accounts
Virtual networks
Microsoft Entra ID
Monitor
Advisor
Microsoft Defender for Cloud
Cost Management + Billing
Home > Function App >
Create Function App
Basics
Storage
Networking
Monitoring
Deployment
Tags
Review + create
Summary
Function App
by Microsoft
Details
Subscription 846901e6-da09-45c8-98ca-7cca2353ff0e
Resource Group mynewazurefunction1974_group
Name mynewazurefunction1974
Runtime stack .NET 8 (LTS) Isolated (Early Access)
Hosting
Storage
Storage account
Plan (New)
Hosting options and plans Consumption (Serverless)
Name ASP-mynewazurefunction1974group-b8cd
Operating System Windows
Region West Europe
SKU Dynamic
Create
< Previous
Next >
Download a template for automation


Microsoft Azure
Search resources, services, and docs (G+/)
Home >
Microsoft.Web-FunctionApp-Portal-c592207f-b7a3 | Overview
Deployment
Search
Overview
Inputs
Outputs
Template
Delete
Cancel
Redeploy
Download
Refresh
Deployment is in progress
Deployment name: Microsoft.Web-FunctionApp-Portal-c592207f-b...
Subscription: Azure subscription 1
Resource group: mynewazurefunction1974_group
Start time: 12/8/2023, 5:25:14 PM
Correlation ID: dffdcdfa-5dd8-4d4e-a157-84710f463554
Deployment details
Resource
Type
Status
Operation details
ASP-mynewazurefunction1974grc
Microsoft.Web/serverfarms
OK
Operation details
mynewazurefunction191e9
Microsoft.Storage/storageAcco...
Accepted
Operation details
newWorkspaceTemplate
Microsoft.Resources/deployme...
OK
Operation details
Give feedback
Tell us about your experience with deployment
Microsoft Defender for Cloud
Secure your apps and infrastructure
Go to Microsoft Defender for Cloud >
Free Microsoft tutorials
Start learning today >
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.
Find an Azure expert >


Microsoft Azure
Search resources, services, and docs (G+/)
Home
Microsoft.Web-FunctionApp-Portal-c592207f-b7a3 | Overview
Deployment
Delete
Cancel
Redeploy
Download
Refresh
Your deployment is complete
Deployment name: Microsoft.Web-FunctionApp-Portal-c592207f-b...
Subscription: Azure subscription 1
Resource group: mynewazurefunction1974_group
Start time: 12/8/2023, 5:25:14 PM
Correlation ID: dffdcdfa-5dd8-4d4e-a157-84710f463554
Deployment details
Next steps
Create a function. Recommended
Manage deployments for your app. Recommended
Go to resource
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

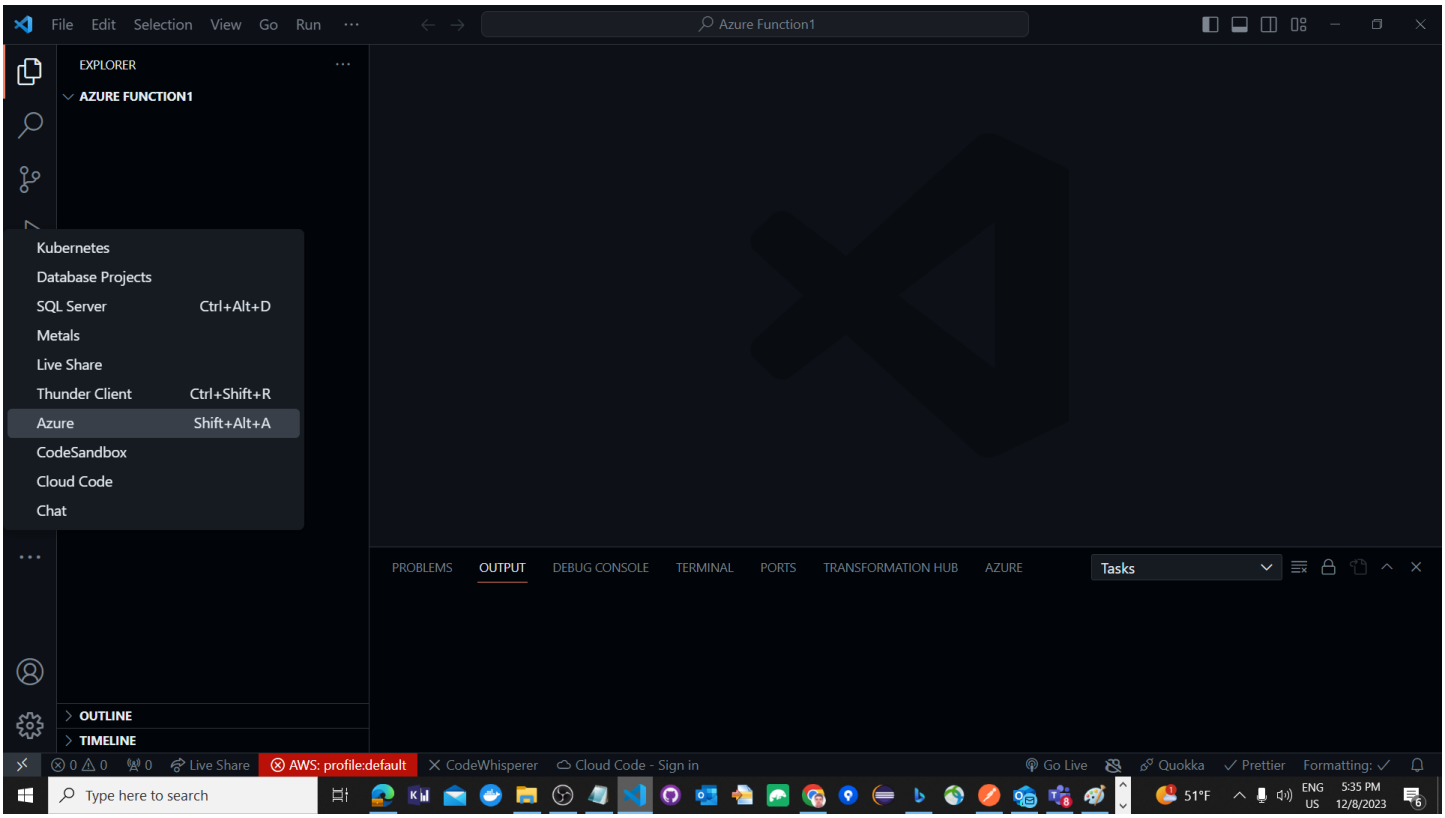

Microsoft Azure
Home > Microsoft.Web-FunctionApp-Portal-c592207f-b7a3 | Overview >
mynewazurefunction1974
Function App
Browse
Refresh
Stop
Restart
Swap
Get publish profile
Reset publish profile
Download app content
Delete
Send us your feedback
Essentials
JSON View
Resource group (move) : mynewazurefunction1974_group
Status : Running
Location (move) : West Europe
Subscription (move) : Azure subscription 1
Subscription ID : 846901e6-da09-45c8-98ca-7cca2353ff0e
URL : https://mynewazurefunction1974.azurewebsites.net
Operating System : Windows
App Service Plan : ASP-mynewazurefunction1974group-b8cd (Y1: 0)
Runtime version : 4.27.5.21549
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

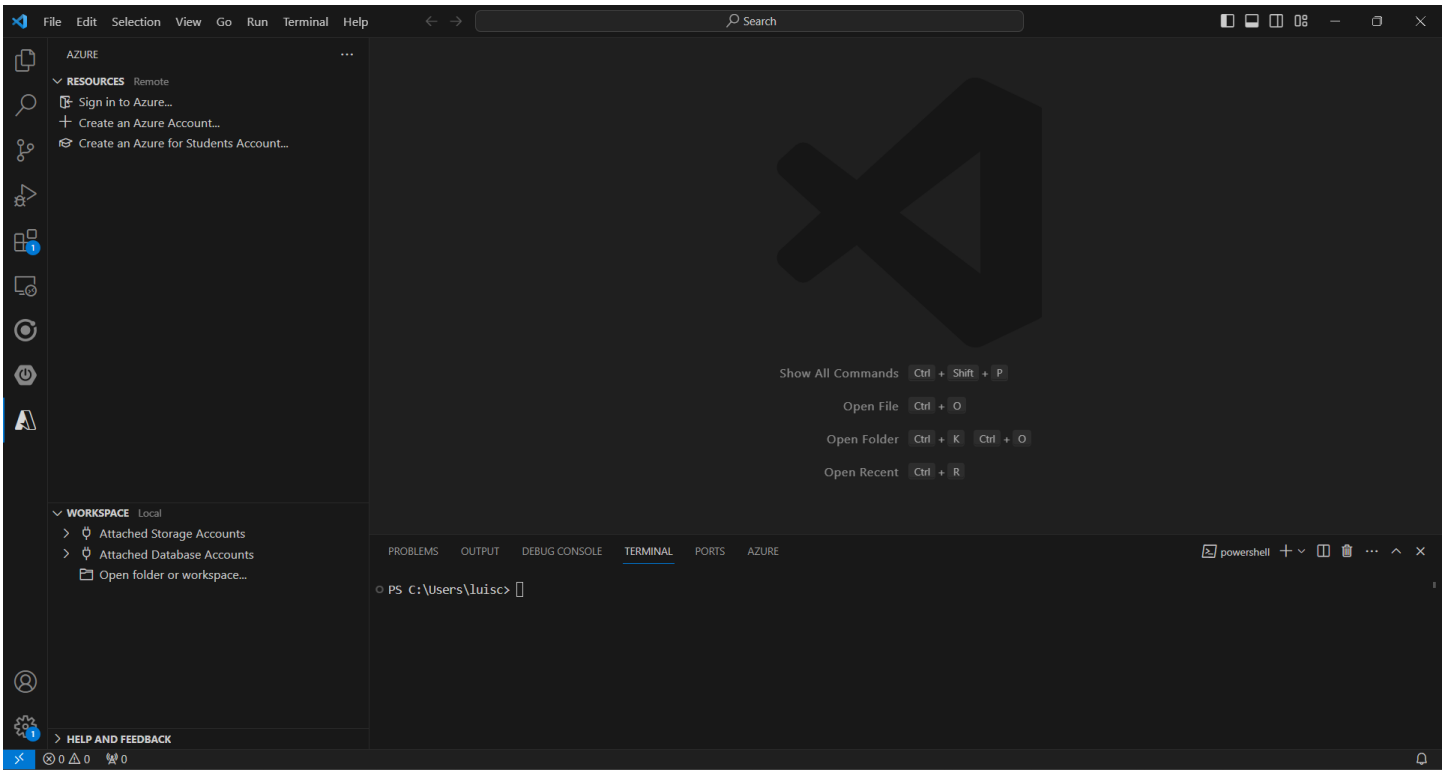

Microsoft Azure
Home > Microsoft.Web-FunctionApp-Portal-4085edf8-899d | Overview >
mynewazurefunction1974
Function App
Stop web app
Are you sure you want to stop mynewazurefunction1974?
Yes
No
Subscription (move) : Azure subscription 1
Subscription ID : 846901e6-da09-45c8-98ca-7cca2353ff0e
Runtime version : 4.27.5.21549
Functions
Metrics
Properties
Notifications (0)
Create
Set up local environment
Refresh
Filter by name...
Name
Trigger
Status
Monitor
HttpTrigger1
HTTP
Enabled
Invocations and more

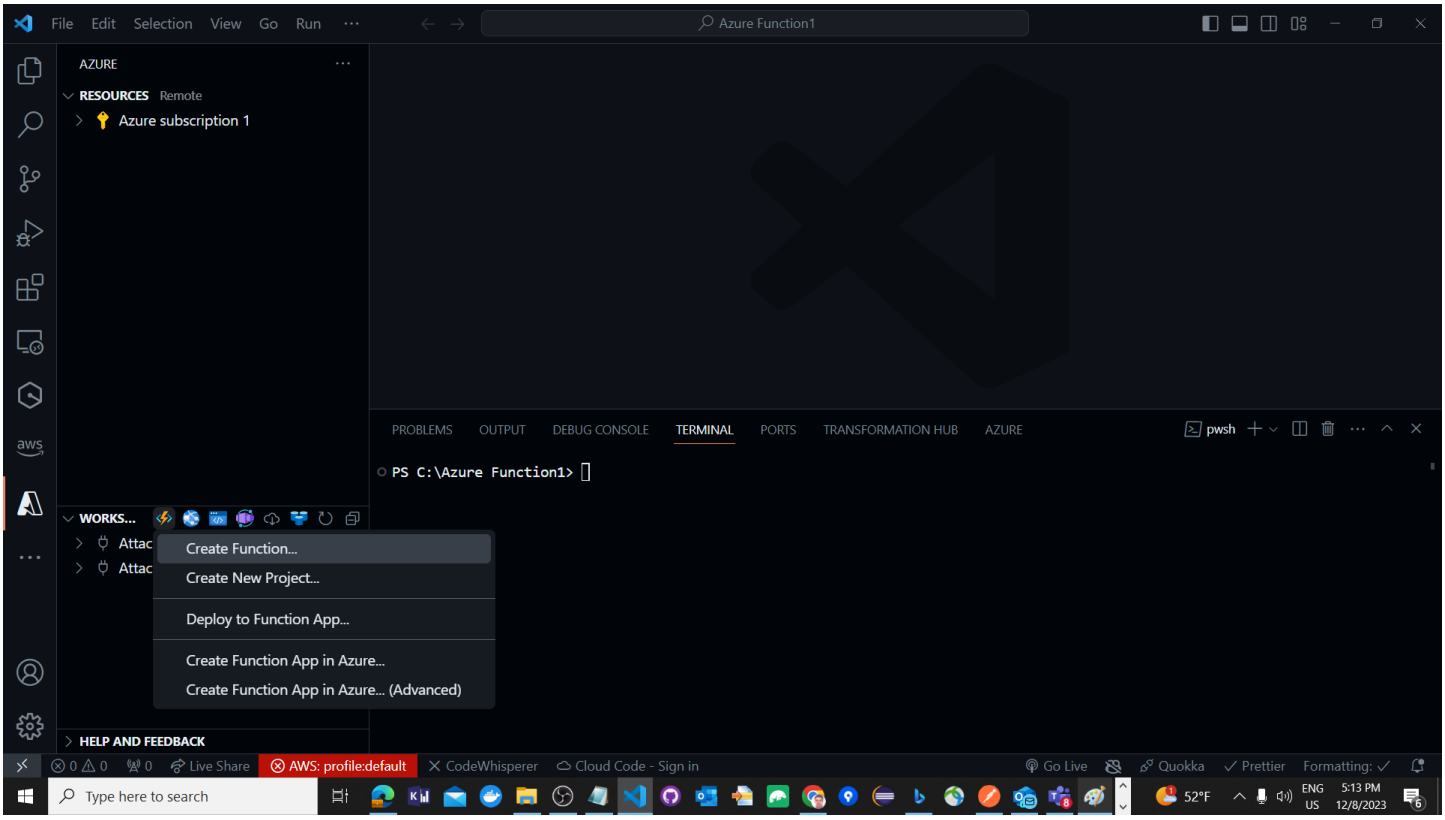


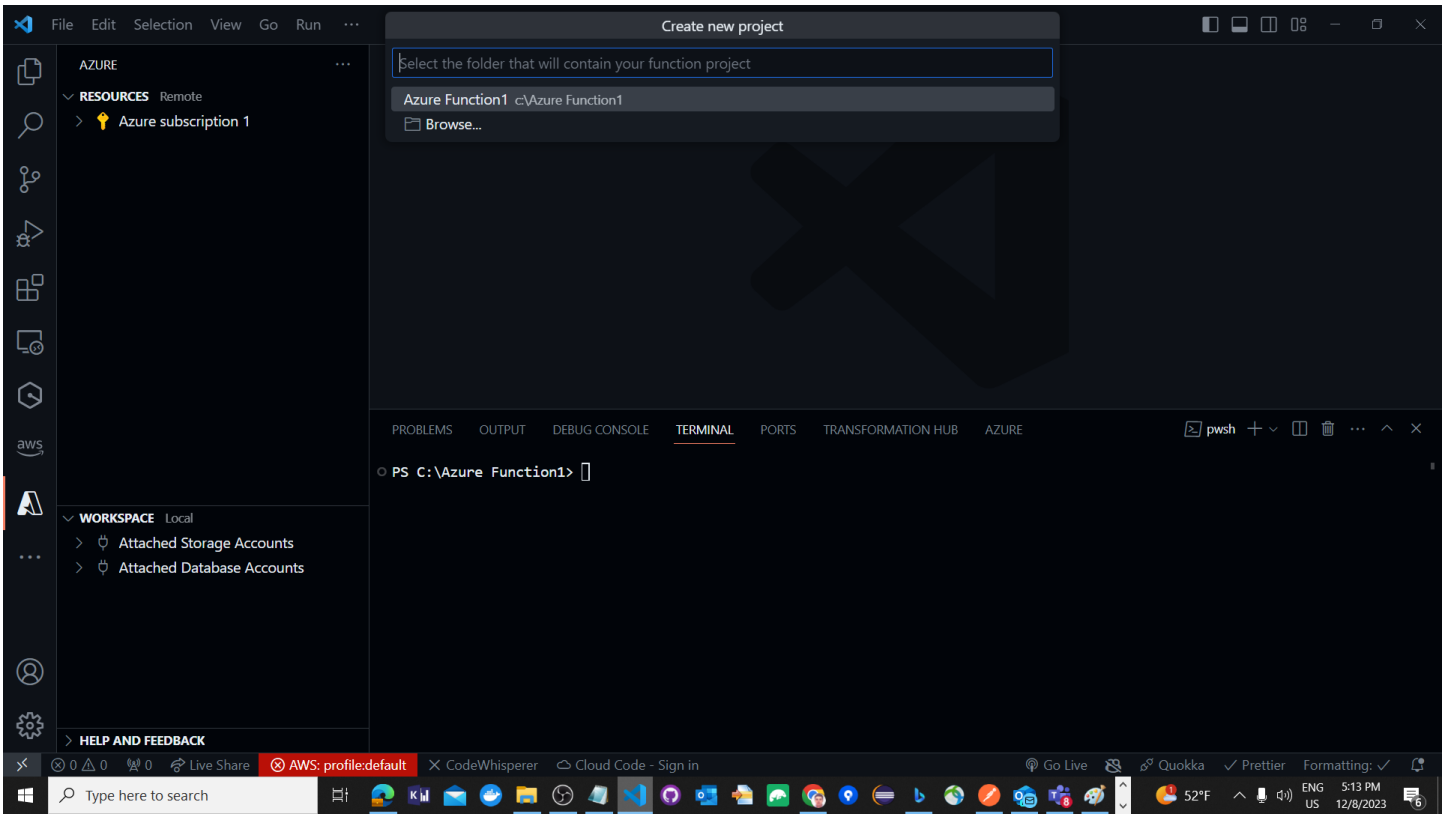
2. Create an Azure Function in VSCode

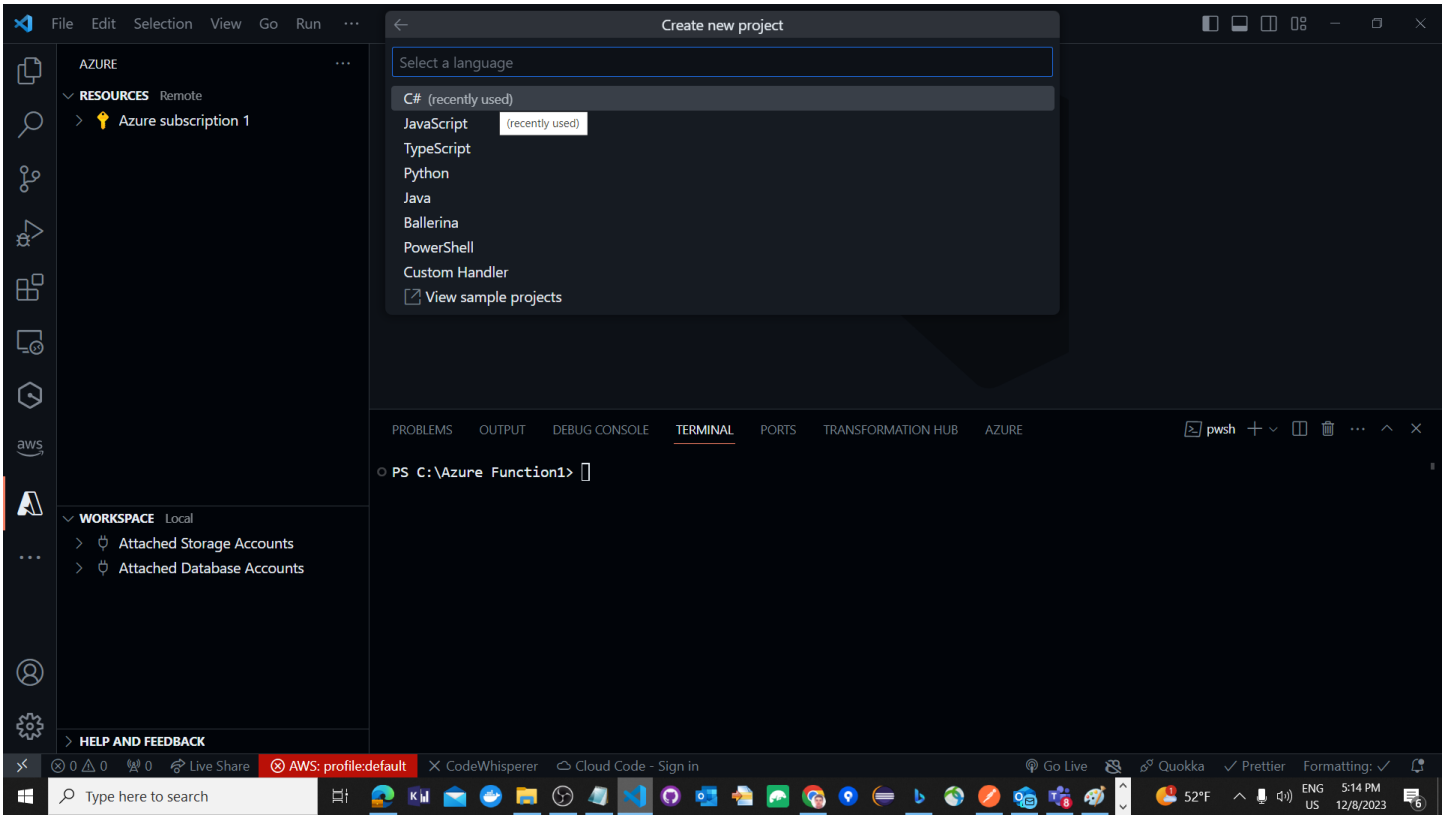
After creating the Azure Function in the Azure Portal, we open VSCode and we create an Azure Function Http triggered:

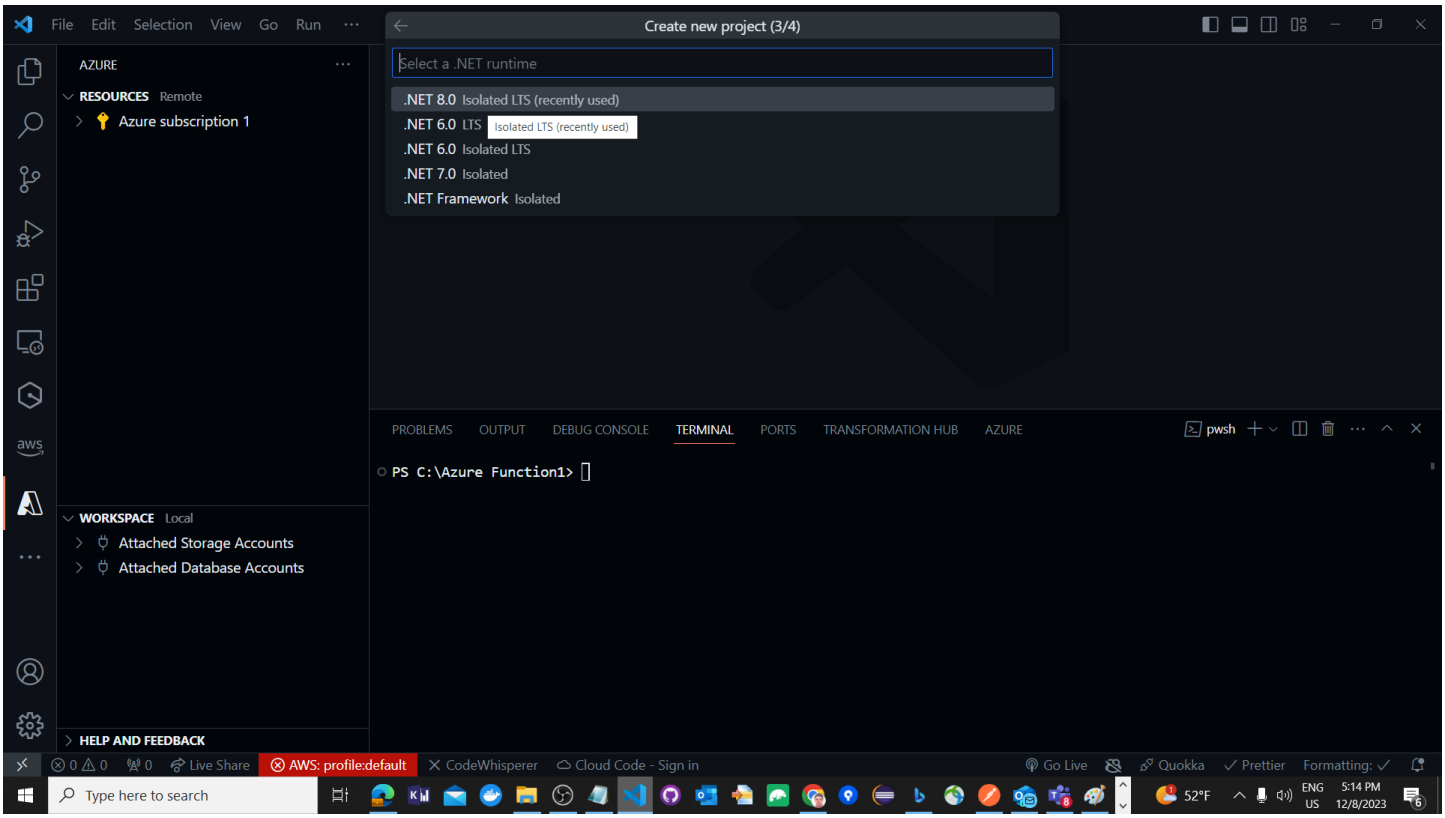


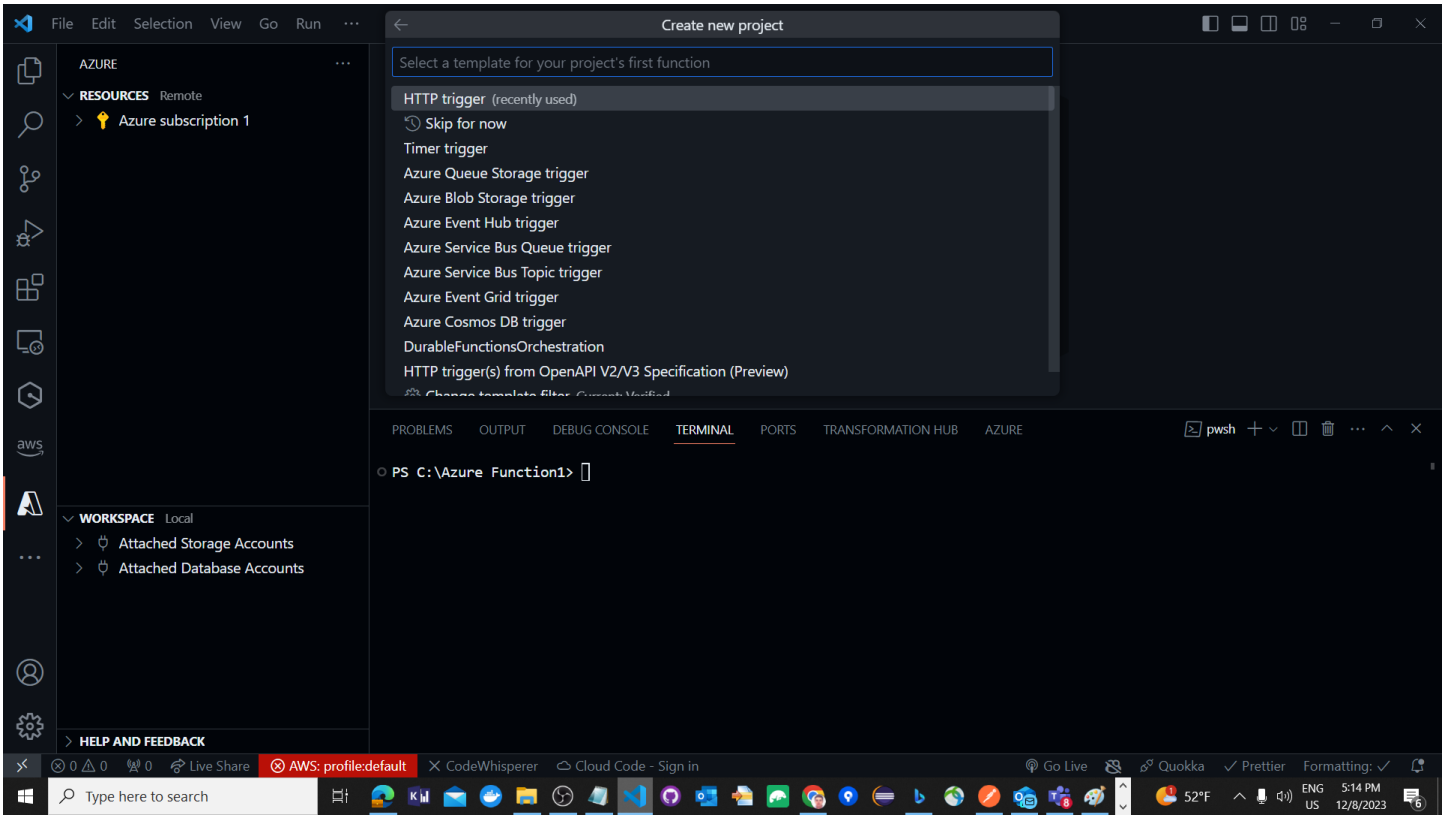

File Edit Selection View Go Run Terminal Help
Search
AZURE
RESOURCES Remote
Sign in to Azure...
Create an Azure Account...
Create an Azure for Students Account...
Show All Commands Ctrl + Shift + P
Open File Ctrl + O
Open Folder Ctrl + K Ctrl + O
Open Recent Ctrl + R
WORKSPACE Local
Attached Storage Accounts
Attached Database Accounts
Open folder or workspace...
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS AZURE
powershell
PS C:\Users\luisc>
HELP AND FEEDBACK

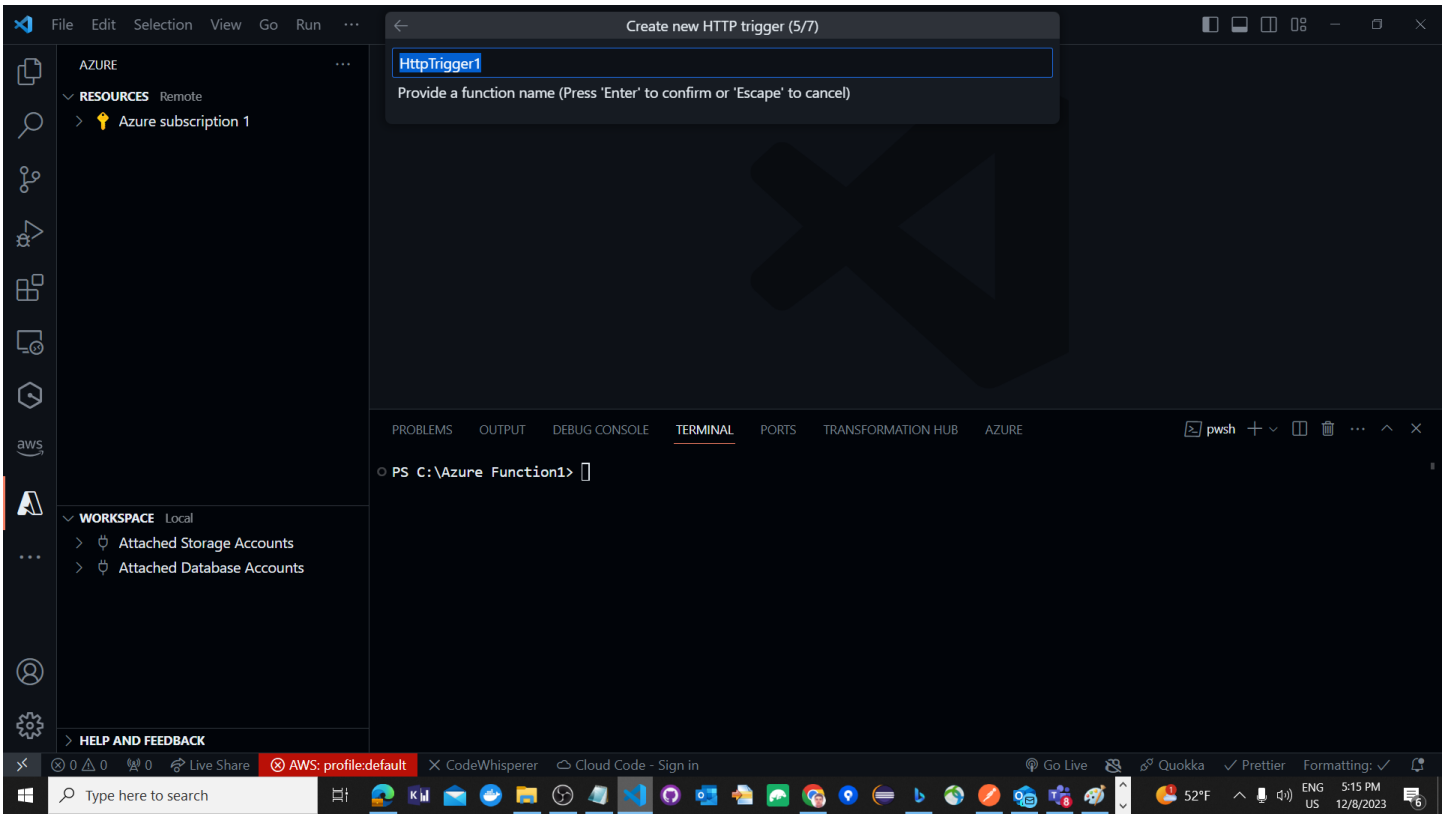

File Edit Selection View Go Run
Azure Function1
AZURE
RESOURCES Remote
Azure subscription 1
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS TRANSFORMATION HUB AZURE
pwsh
PS C:\Azure Function1>
Create Function...
Create New Project...
Deploy to Function App...
Create Function App in Azure...
Create Function App in Azure... (Advanced)
HELP AND FEEDBACK
Live Share
AWS: profile:default
CodeWhisperer
Cloud Code - Sign in
Go Live
Quokka
Prettier
Formatting:
Type here to search
52°F
ENG US
5:13 PM 12/8/2023

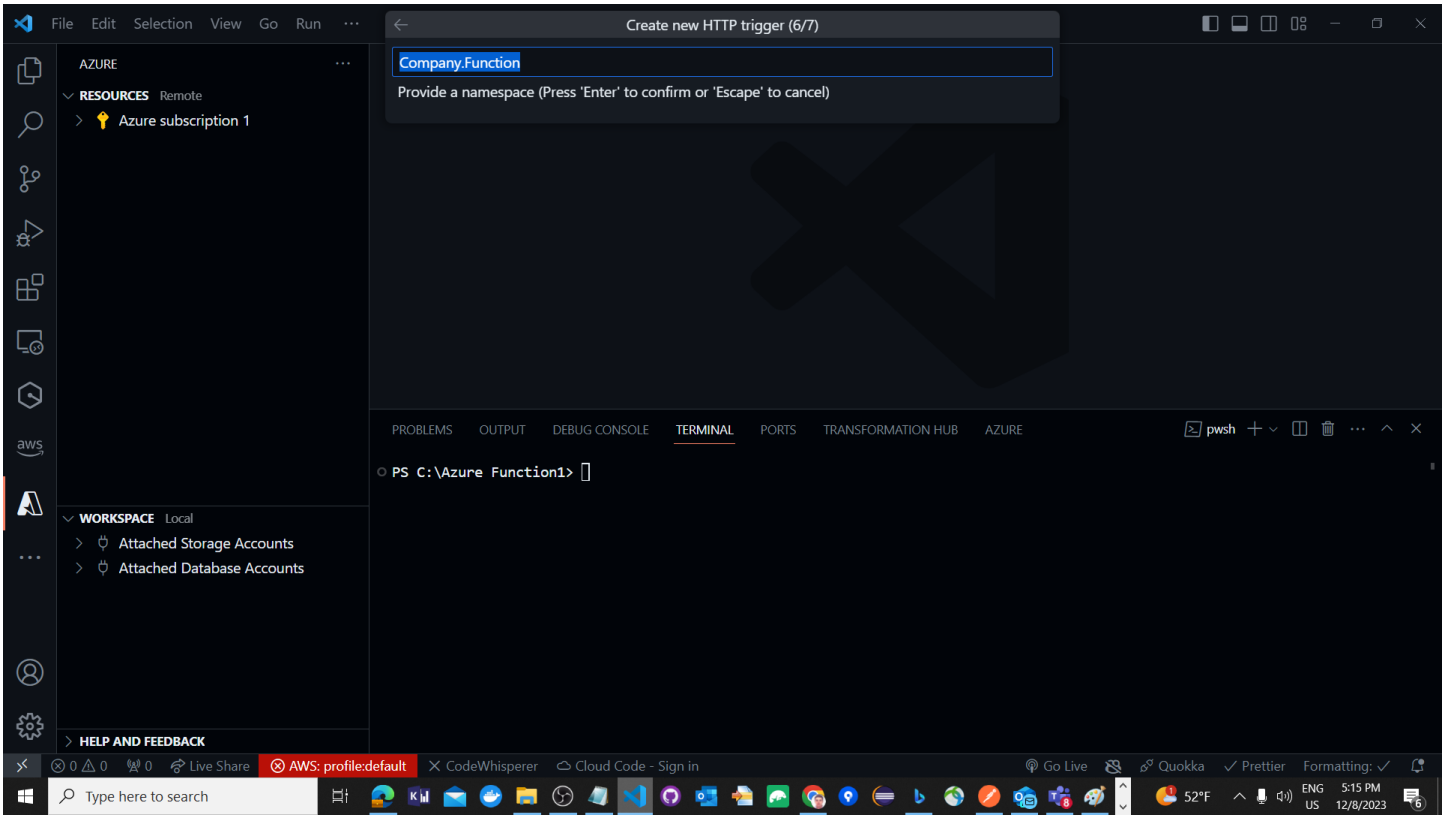

File Edit Selection View Go Run
Create new project
Select the folder that will contain your function project
Azure Function1 c:\Azure Function1
Browse...
AZURE
RESOURCES Remote
Azure subscription 1
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS TRANSFORMATION HUB AZURE
pwsh
PS C:\Azure Function1>
WORKSPACE Local
Attached Storage Accounts
Attached Database Accounts
HELP AND FEEDBACK
Live Share
AWS: profile:default
CodeWhisperer
Cloud Code - Sign in
Go Live
Quokka
Prettier
Formatting:
Type here to search
52°F
ENG US
5:13 PM
12/8/2023

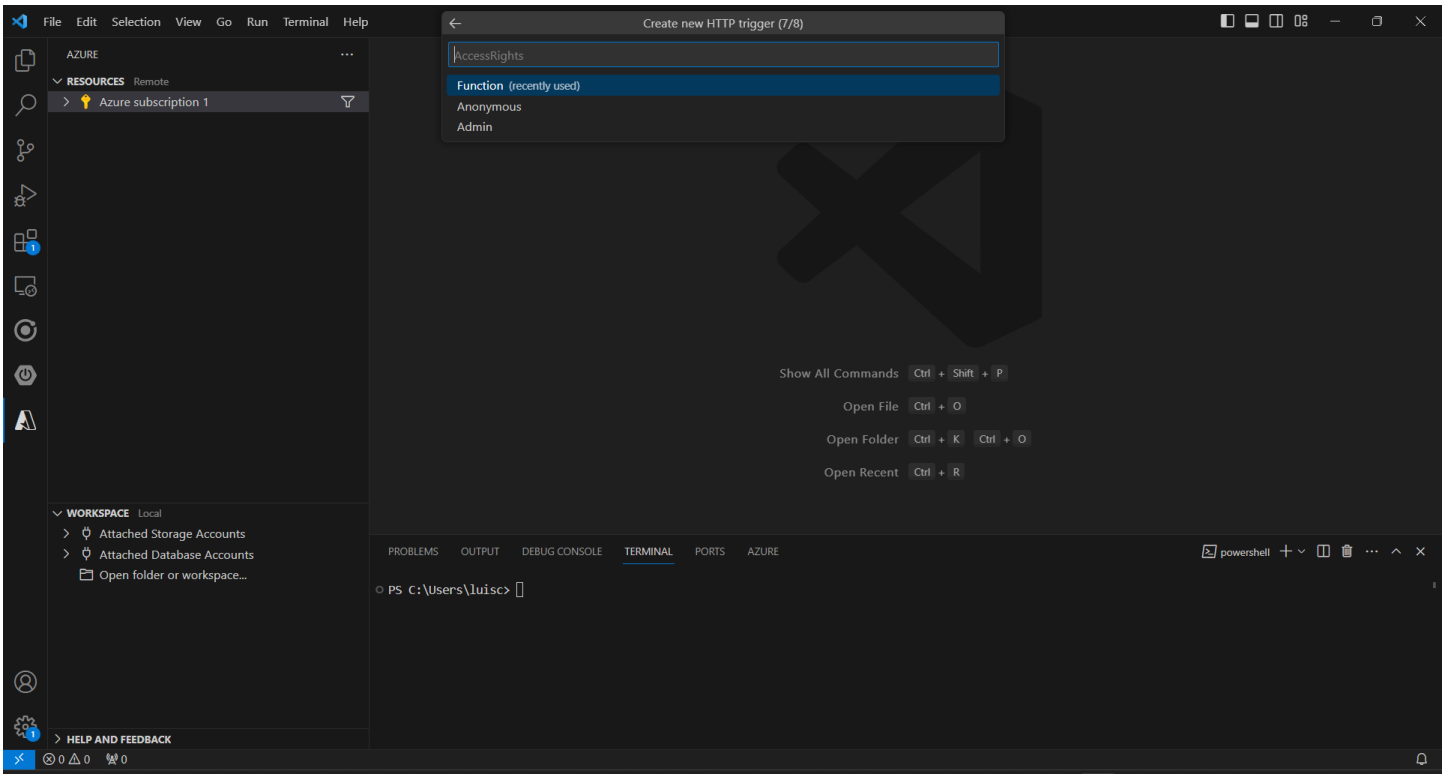

File Edit Selection View Go Run
Create new project
Select a language
C# (recently used)
JavaScript
(recently used)
TypeScript
Python
Java
Ballerina
PowerShell
Custom Handler
View sample projects
AZURE
RESOURCES Remote
Azure subscription 1
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS TRANSFORMATION HUB AZURE
pwsh
PS C:\Azure Function1>
WORKSPACE Local
Attached Storage Accounts
Attached Database Accounts
HELP AND FEEDBACK
Live Share
AWS: profile:default
CodeWhisperer
Cloud Code - Sign in
Go Live
Quokka
Prettier
Formatting:
Type here to search
52°F
ENG US
5:14 PM
12/8/2023

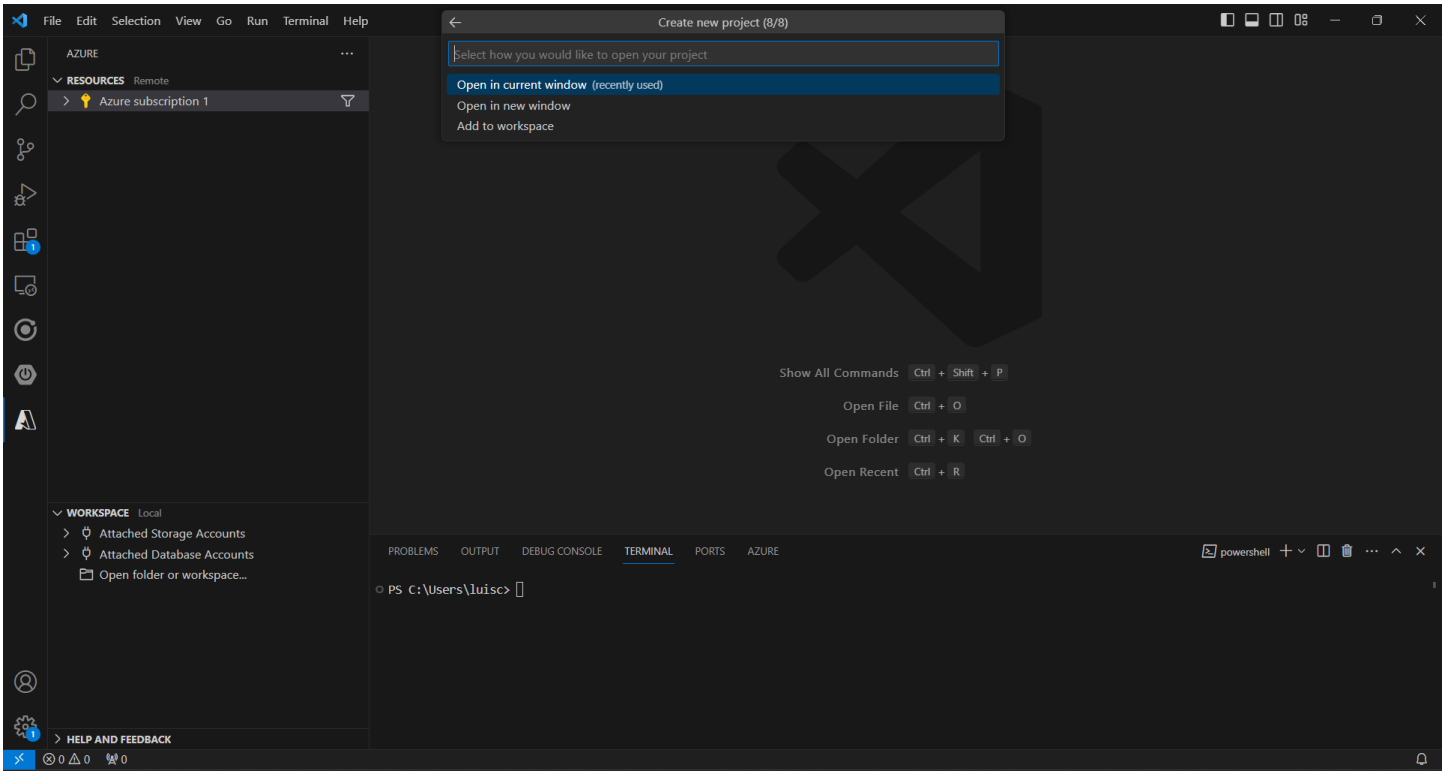

File Edit Selection View Go Run
Create new project (3/4)
Select a .NET runtime
.NET 8.0 Isolated LTS (recently used)
.NET 6.0 LTS
Isolated LTS (recently used)
.NET 6.0 Isolated LTS
.NET 7.0 Isolated
.NET Framework Isolated
AZURE
RESOURCES Remote
Azure subscription 1
WORKSPACE Local
Attached Storage Accounts
Attached Database Accounts
HELP AND FEEDBACK
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS TRANSFORMATION HUB AZURE
pwsh
PS C:\Azure Function1>
Live Share
AWS: profile:default
CodeWhisperer
Cloud Code - Sign in
Go Live
Quokka
Prettier
Formatting:
Type here to search
52°F
ENG US
5:14 PM
12/8/2023

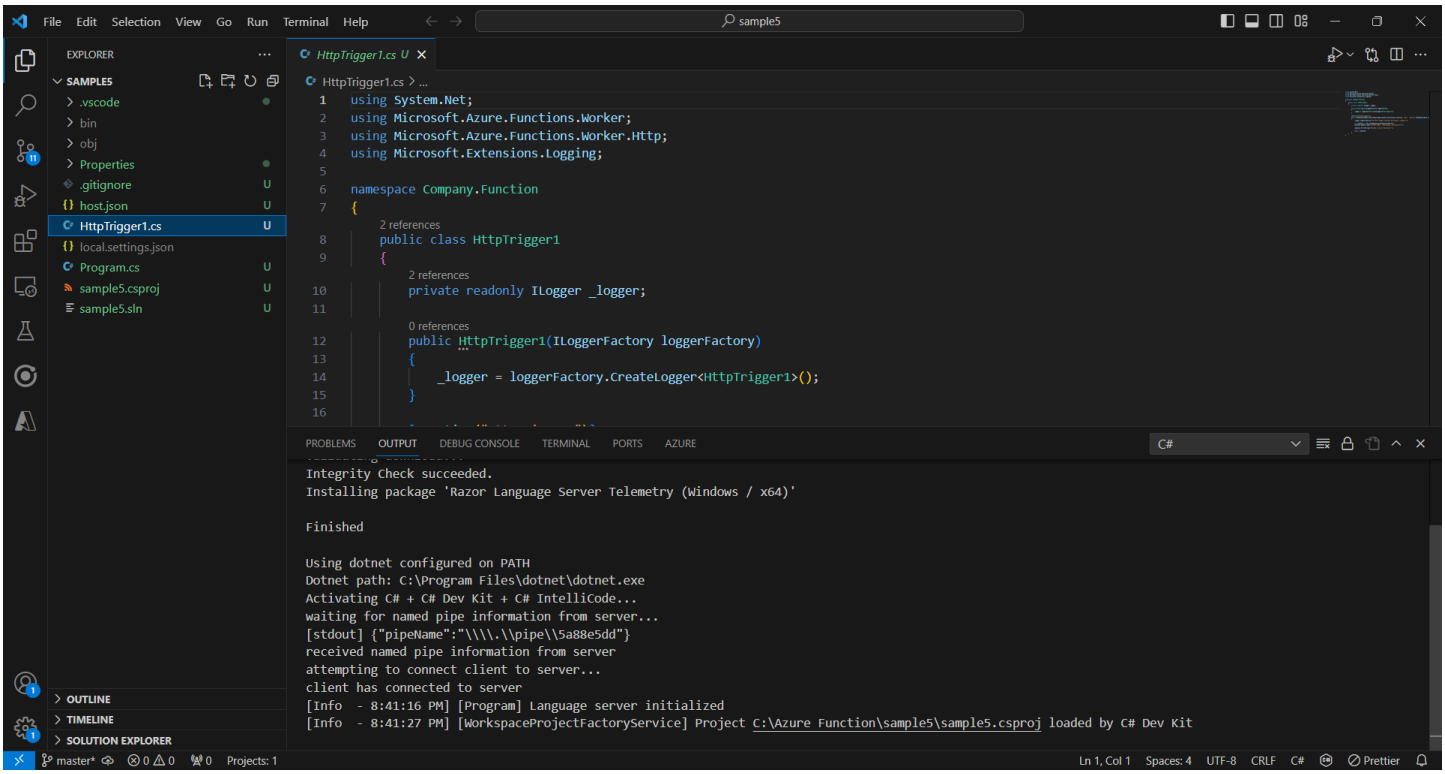

File Edit Selection View Go Run
Create new project
Select a template for your project's first function
HTTP trigger (recently used)
Skip for now
Timer trigger
Azure Queue Storage trigger
Azure Blob Storage trigger
Azure Event Hub trigger
Azure Service Bus Queue trigger
Azure Service Bus Topic trigger
Azure Event Grid trigger
Azure Cosmos DB trigger
DurableFunctionsOrchestration
HTTP trigger(s) from OpenAPI V2/V3 Specification (Preview)
AZURE
RESOURCES Remote
Azure subscription 1
WORKSPACE Local
Attached Storage Accounts
Attached Database Accounts
HELP AND FEEDBACK
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS TRANSFORMATION HUB AZURE
pwsh
PS C:\Azure Function1>
Live Share
AWS: profile:default
CodeWhisperer
Cloud Code - Sign in
Go Live
Quokka
Prettier
Formatting:
Type here to search
52°F
ENG US
5:14 PM
12/8/2023


File Edit Selection View Go Run
Create new HTTP trigger (5/7)
HttpTrigger1
Provide a function name (Press 'Enter' to confirm or 'Escape' to cancel)
AZURE
RESOURCES Remote
Azure subscription 1
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS TRANSFORMATION HUB AZURE
pwsh
PS C:\Azure Function1>
WORKSPACE Local
Attached Storage Accounts
Attached Database Accounts
HELP AND FEEDBACK
Live Share
AWS: profile:default
CodeWhisperer
Cloud Code - Sign in
Go Live
Quokka
Prettier
Formatting:
Type here to search
52°F
ENG US
5:15 PM
12/8/2023

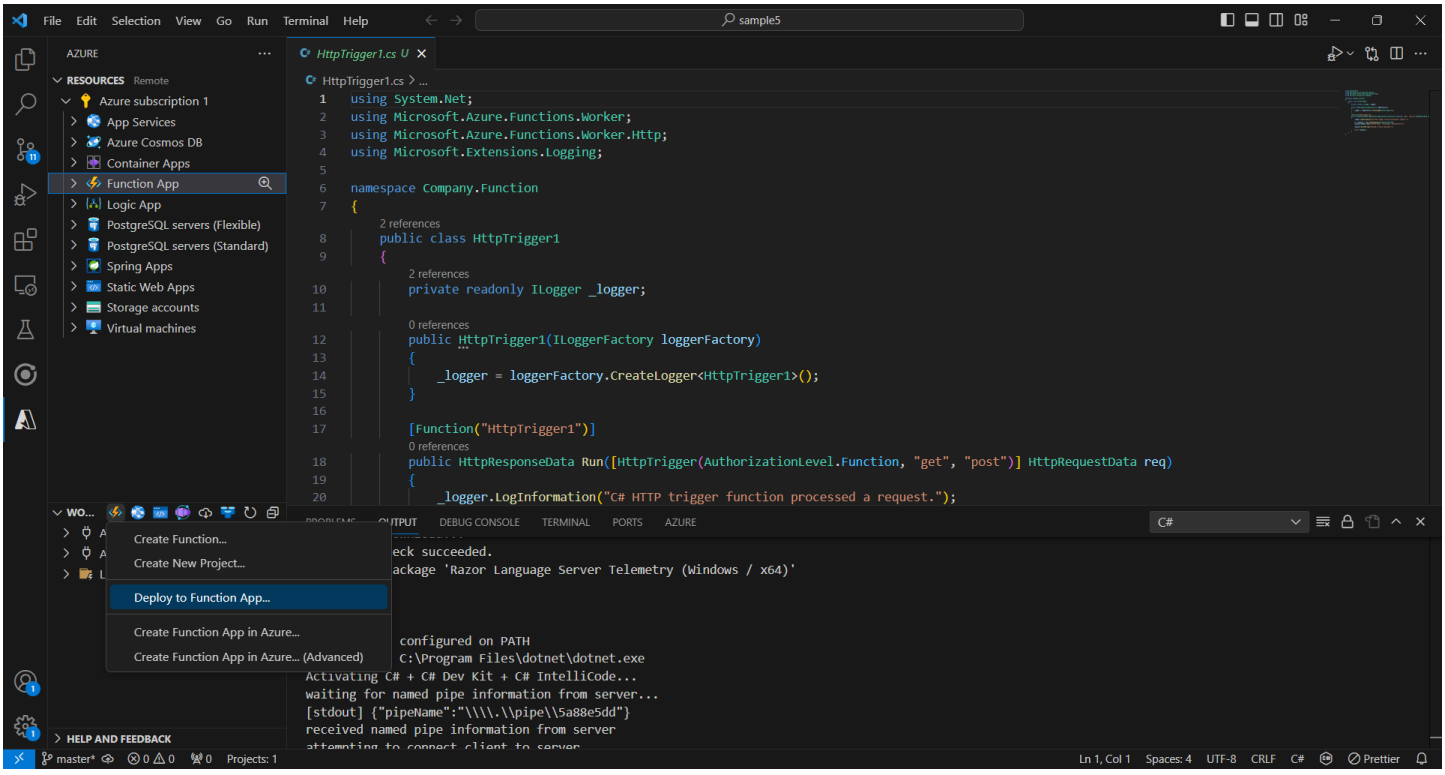

File Edit Selection View Go Run
Create new HTTP trigger (6/7)
Company.Function
Provide a namespace (Press 'Enter' to confirm or 'Escape' to cancel)
AZURE
RESOURCES Remote
Azure subscription 1
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS TRANSFORMATION HUB AZURE
pwsh
PS C:\Azure Function1>
WORKSPACE Local
Attached Storage Accounts
Attached Database Accounts
HELP AND FEEDBACK
Live Share
AWS: profile:default
CodeWhisperer
Cloud Code - Sign in
Go Live
Quokka
Prettier
Formatting:
Type here to search
52°F
ENG US
5:15 PM
12/8/2023

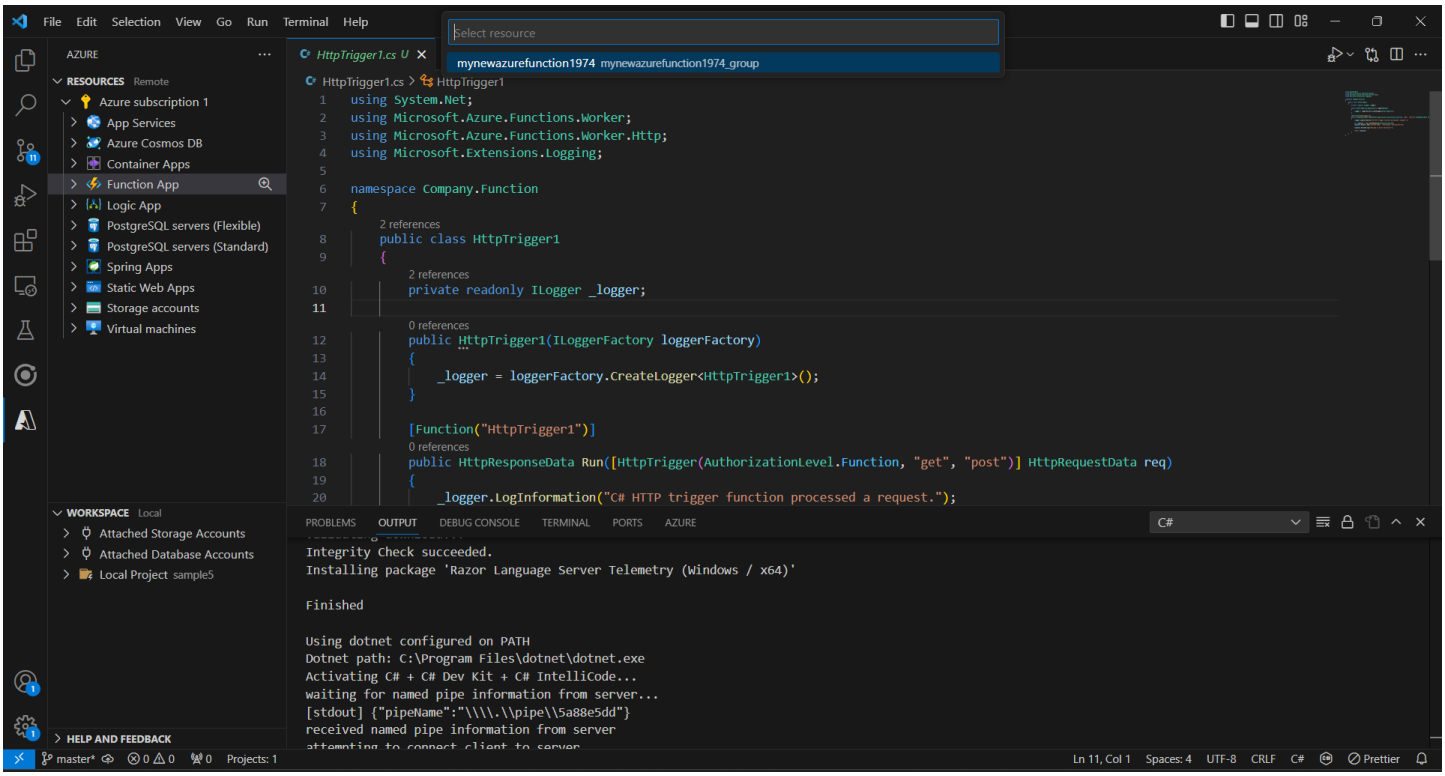

File Edit Selection View Go Run Terminal Help
Create new HTTP trigger (7/8)
AccessRights
Function (recently used)
Anonymous
Admin
AZURE
RESOURCES Remote
Azure subscription 1
Show All Commands Ctrl + Shift + P
Open File Ctrl + O
Open Folder Ctrl + K Ctrl + O
Open Recent Ctrl + R
WORKSPACE Local
Attached Storage Accounts
Attached Database Accounts
Open folder or workspace...
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS AZURE
powershell
PS C:\Users\luisc>
HELP AND FEEDBACK

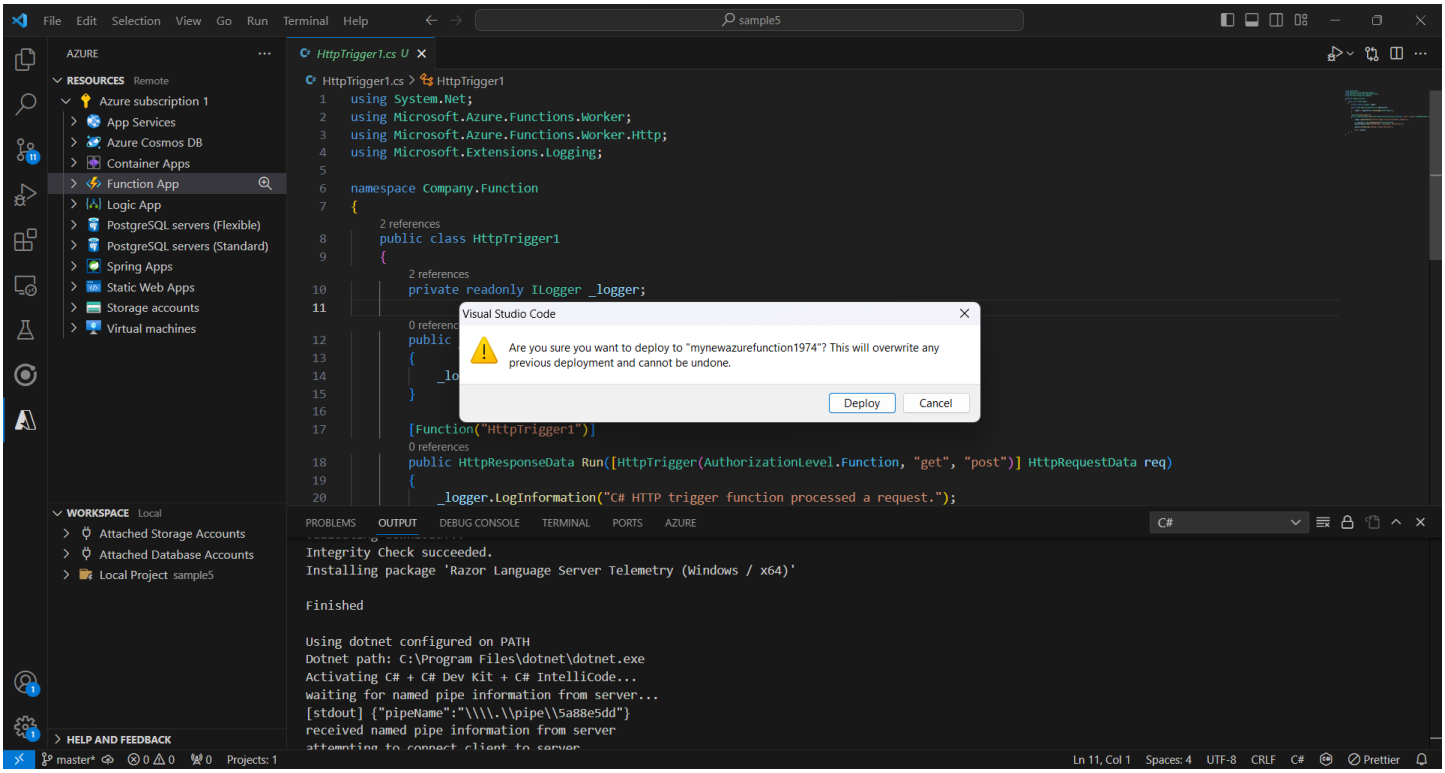

File Edit Selection View Go Run Terminal Help
Create new project (8/8)
Select how you would like to open your project
Open in current window (recently used)
Open in new window
Add to workspace
AZURE
RESOURCES Remote
Azure subscription 1
Show All Commands Ctrl + Shift + P
Open File Ctrl + O
Open Folder Ctrl + K Ctrl + O
Open Recent Ctrl + R
WORKSPACE Local
Attached Storage Accounts
Attached Database Accounts
Open folder or workspace...
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS AZURE
powershell
PS C:\Users\luisc>
HELP AND FEEDBACK

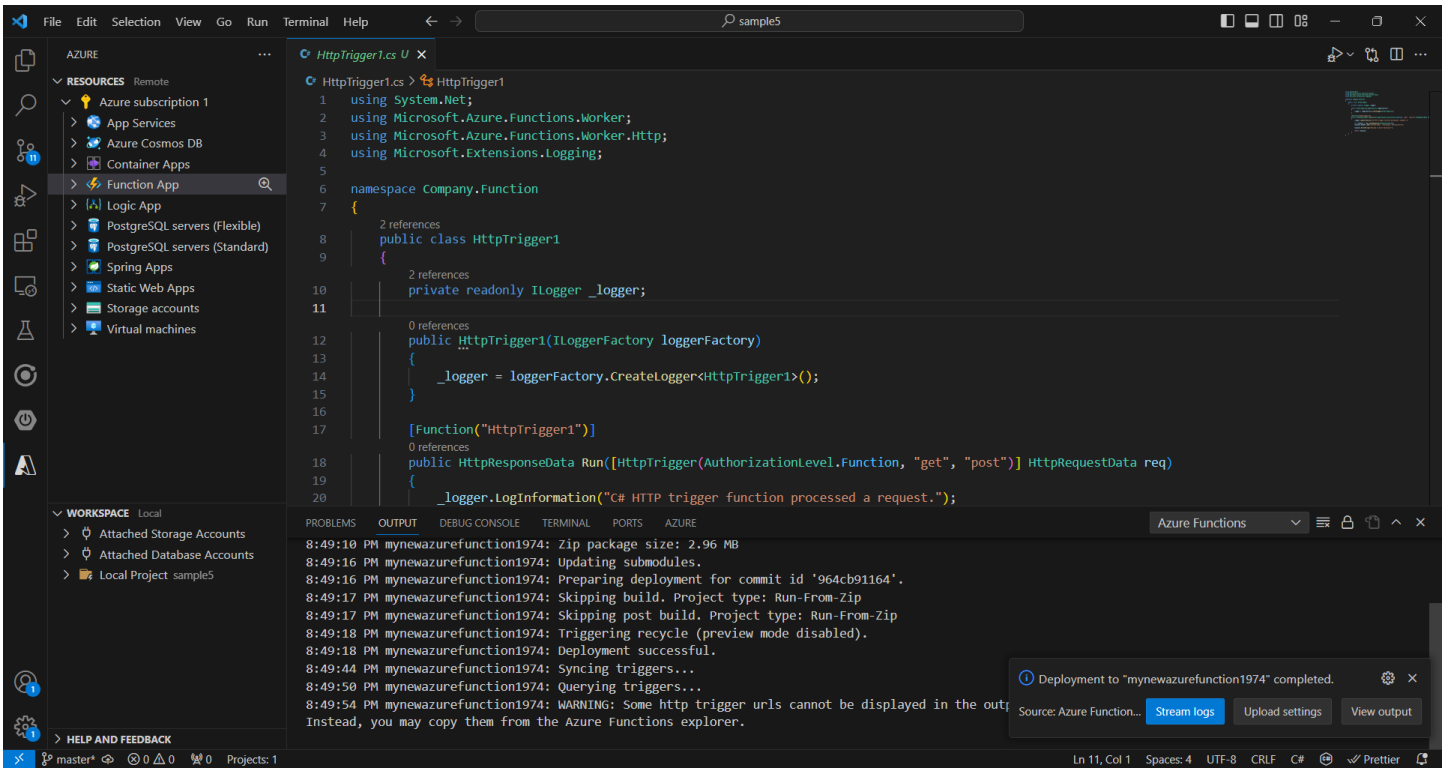


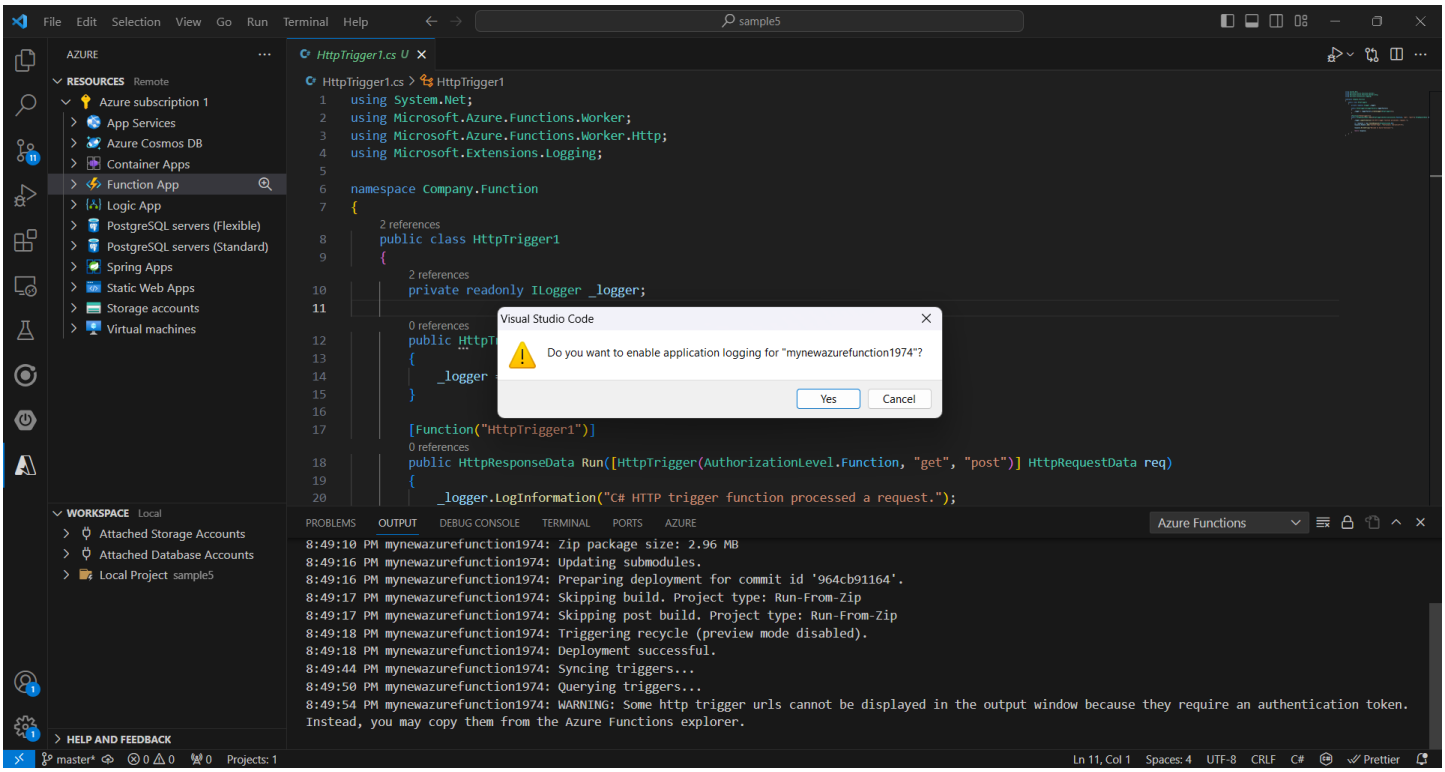
3. Azure Function deployment in VSCode




Select resource
mynewazurefunction1974 mynewazurefunction1974_group
AZURE
RESOURCES Remote
Azure subscription 1
App Services
Azure Cosmos DB
Container Apps
Function App
Logic App
PostgreSQL servers (Flexible)
PostgreSQL servers (Standard)
Spring Apps
Static Web Apps
Storage accounts
Virtual machines
WORKSPACE Local
Attached Storage Accounts
Attached Database Accounts
Local Project sample5
HELP AND FEEDBACK
HttpTrigger1.cs U
HttpTrigger1.cs > HttpTrigger1
using System.Net;
using Microsoft.Azure.Functions.Worker;
using Microsoft.Azure.Functions.Worker.Http;
using Microsoft.Extensions.Logging;
namespace Company.Function
{
2 references
public class HttpTrigger1
{
2 references
private readonly ILogger _logger;
0 references
public HttpTrigger1(ILoggerFactory loggerFactory)
{
_logger = loggerFactory.CreateLogger<HttpTrigger1>();
}
[Function("HttpTrigger1")]
0 references
public HttpResponseData Run([HttpTrigger(AuthorizationLevel.Function, "get", "post")] HttpRequestData req)
{
_logger.LogInformation("C# HTTP trigger function processed a request.");
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS AZURE
C#
Integrity Check succeeded.
Installing package 'Razor Language Server Telemetry (Windows / x64)'
Finished
Using dotnet configured on PATH
Dotnet path: C:\Program Files\dotnet\dotnet.exe
Activating C# + C# Dev Kit + C# IntelliCode...
waiting for named pipe information from server...
[stdout] {"pipeName":"\\\\.\\pipe\\5a88e5dd"}
received named pipe information from server
master* 0 0 0 Projects: 1
Ln 11, Col 1 Spaces: 4 UTF-8 CRLF C# Prettier


sample5
Visual Studio Code
Are you sure you want to deploy to "mynewazurefunction1974"? This will overwrite any previous deployment and cannot be undone.
Deploy
Cancel


File Edit Selection View Go Run Terminal Help
sample5
AZURE
RESOURCES Remote
Azure subscription 1
App Services
Azure Cosmos DB
Container Apps
Function App
Logic App
PostgreSQL servers (Flexible)
PostgreSQL servers (Standard)
Spring Apps
Static Web Apps
Storage accounts
Virtual machines
WORKSPACE Local
Attached Storage Accounts
Attached Database Accounts
Local Project sample5
HELP AND FEEDBACK
HttpTrigger1.cs U
HttpTrigger1.cs > HttpTrigger1
using System.Net;
using Microsoft.Azure.Functions.Worker;
using Microsoft.Azure.Functions.Worker.Http;
using Microsoft.Extensions.Logging;
namespace Company.Function
{
2 references
public class HttpTrigger1
{
2 references
private readonly ILogger _logger;
0 references
public HttpTrigger1(ILoggerFactory loggerFactory)
{
_logger = loggerFactory.CreateLogger<HttpTrigger1>();
}
[Function("HttpTrigger1")]
0 references
public HttpResponseData Run([HttpTrigger(AuthorizationLevel.Function, "get", "post")] HttpRequestData req)
{
_logger.LogInformation("C# HTTP trigger function processed a request.");
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS AZURE
Azure Functions
8:49:10 PM mynewazurefunction1974: Zip package size: 2.96 MB
8:49:16 PM mynewazurefunction1974: Updating submodules.
8:49:16 PM mynewazurefunction1974: Preparing deployment for commit id '964cb91164'.
8:49:17 PM mynewazurefunction1974: Skipping build. Project type: Run-From-Zip
8:49:17 PM mynewazurefunction1974: Skipping post build. Project type: Run-From-Zip
8:49:18 PM mynewazurefunction1974: Triggering recycle (preview mode disabled).
8:49:18 PM mynewazurefunction1974: Deployment successful.
8:49:44 PM mynewazurefunction1974: Syncing triggers...
8:49:50 PM mynewazurefunction1974: Querying triggers...
8:49:54 PM mynewazurefunction1974: WARNING: Some http trigger urls cannot be displayed in the outp
Instead, you may copy them from the Azure Functions explorer.
Deployment to "mynewazurefunction1974" completed.
Source: Azure Function...
Stream logs
Upload settings
View output
master*
Projects: 1
Ln 11, Col 1
Spaces: 4
UTF-8
CRLF
C#
Prettier


File Edit Selection View Go Run Terminal Help
sample5
AZURE
RESOURCES Remote
Azure subscription 1
App Services
Azure Cosmos DB
Container Apps
Function App
Logic App
PostgreSQL servers (Flexible)
PostgreSQL servers (Standard)
Spring Apps
Static Web Apps
Storage accounts
Virtual machines
WORKSPACE Local
Attached Storage Accounts
Attached Database Accounts
Local Project sample5
HELP AND FEEDBACK
HttpTrigger1.cs U
HttpTrigger1.cs > HttpTrigger1
using System.Net;
using Microsoft.Azure.Functions.Worker;
using Microsoft.Azure.Functions.Worker.Http;
using Microsoft.Extensions.Logging;
namespace Company.Function
{
2 references
public class HttpTrigger1
{
2 references
private readonly ILogger _logger;
0 references
public HttpTrigger1(ILoggerFactory loggerFactory)
{
_logger = loggerFactory.CreateLogger<HttpTrigger1>();
}
[Function("HttpTrigger1")]
0 references
public HttpResponseData Run([HttpTrigger(AuthorizationLevel.Function, "get", "post")] HttpRequestData req)
{
_logger.LogInformation("C# HTTP trigger function processed a request.");
Visual Studio Code
Do you want to enable application logging for "mynewazurefunction1974"?
Yes
Cancel
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS AZURE
Azure Functions
8:49:10 PM mynewazurefunction1974: Zip package size: 2.96 MB
8:49:16 PM mynewazurefunction1974: Updating submodules.
8:49:16 PM mynewazurefunction1974: Preparing deployment for commit id '964cb91164'.
8:49:17 PM mynewazurefunction1974: Skipping build. Project type: Run-From-Zip
8:49:17 PM mynewazurefunction1974: Skipping post build. Project type: Run-From-Zip
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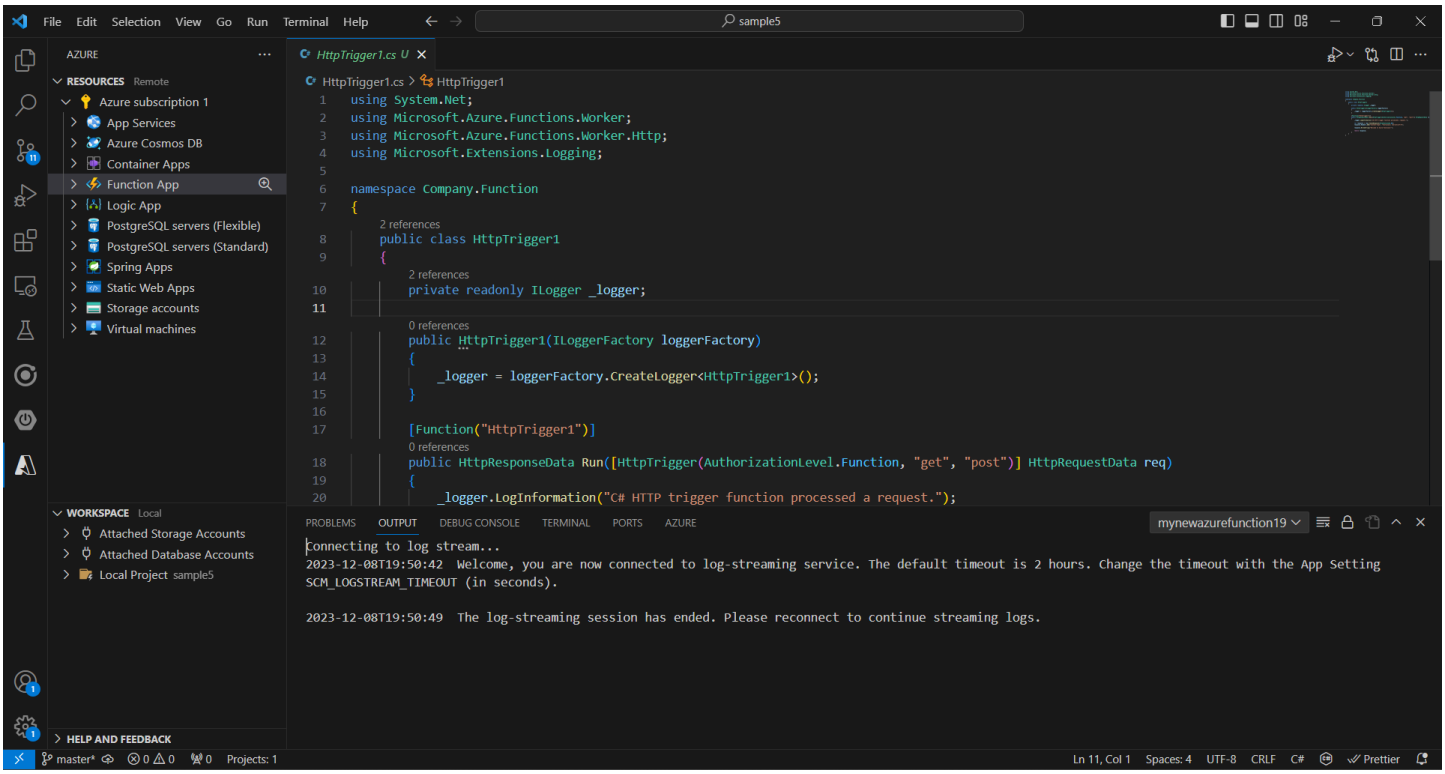
8:49:18 PM mynewazurefunction1974: Deployment successful.
8:49:44 PM mynewazurefunction1974: Syncing triggers...
8:49:50 PM mynewazurefunction1974: Querying triggers...
8:49:54 PM mynewazurefunction1974: WARNING: Some http trigger urls cannot be displayed in the output window because they require an authentication token.
Instead, you may copy them from the Azure Functions explorer.
master*
Projects: 1
Ln 11, Col 1
Spaces: 4
UTF-8
CRLF
C#
Prettier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AZURE
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Local Project sample5
HELP AND FEEDBACK
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HttpTrigger1.cs > HttpTrigger1
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using Microsoft.Azure.Functions.Worker;
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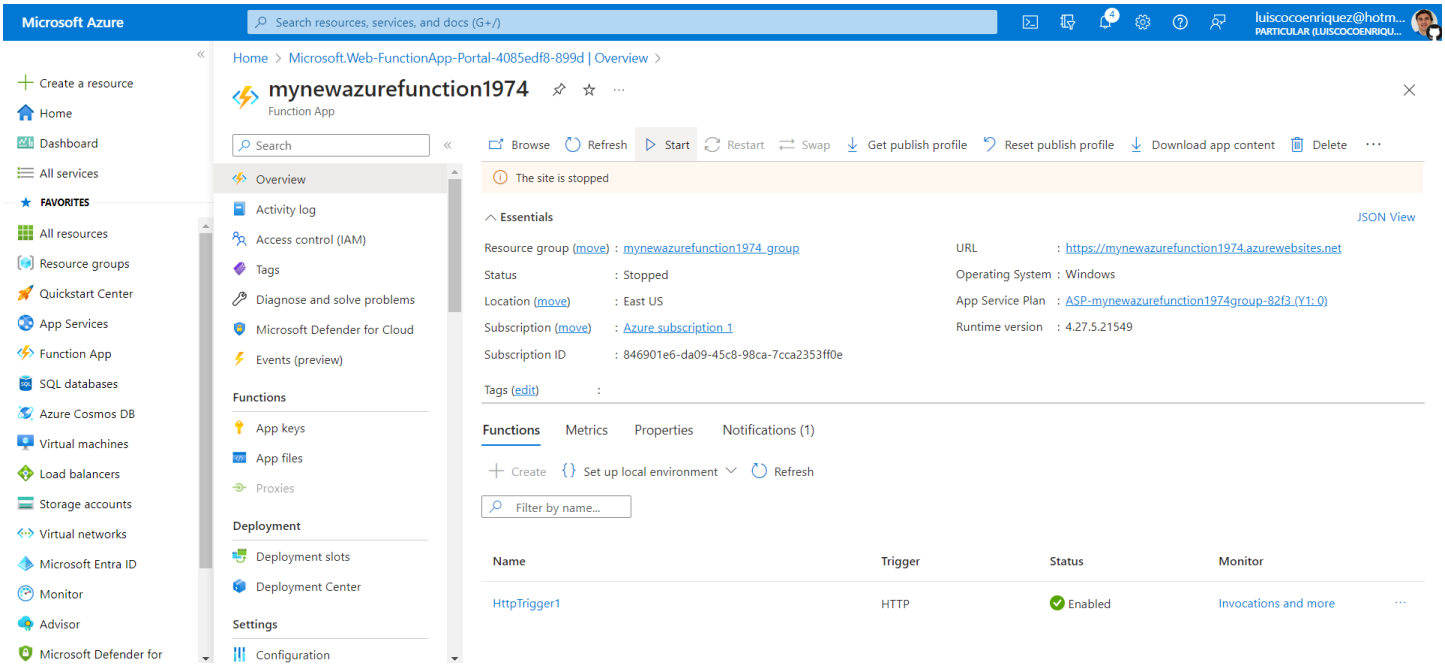
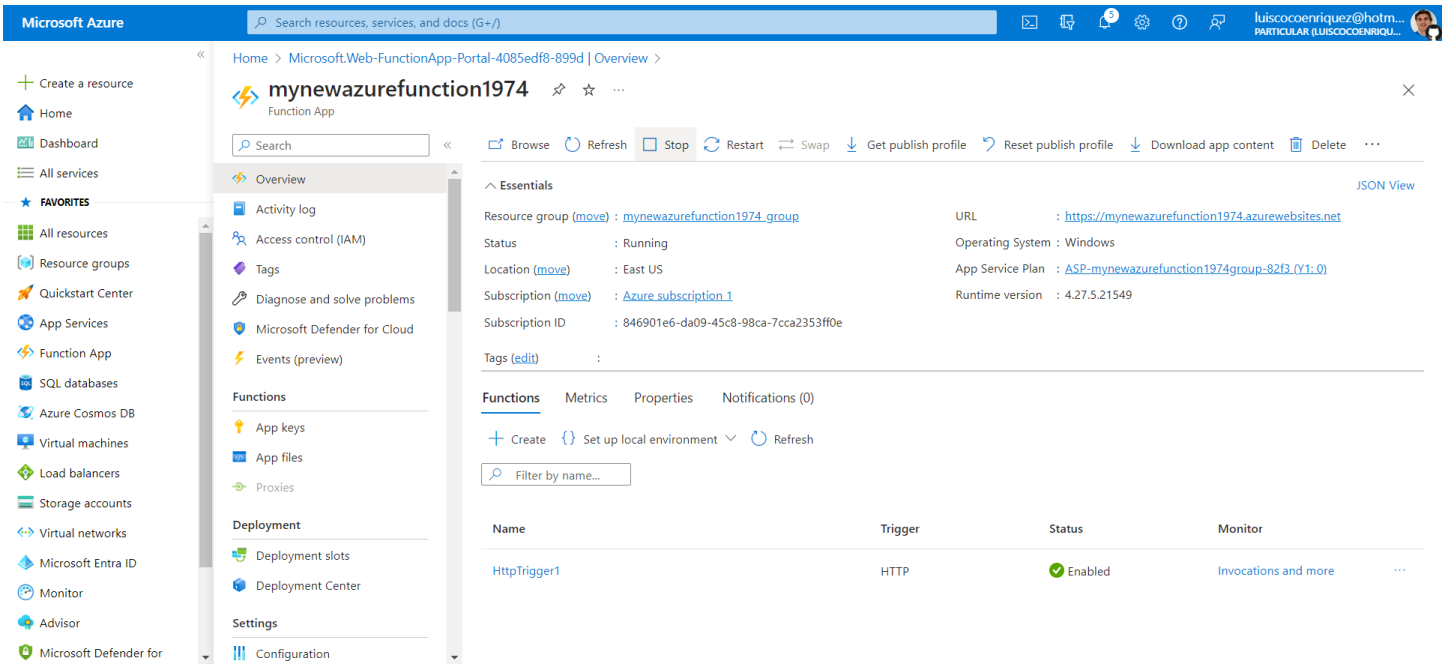
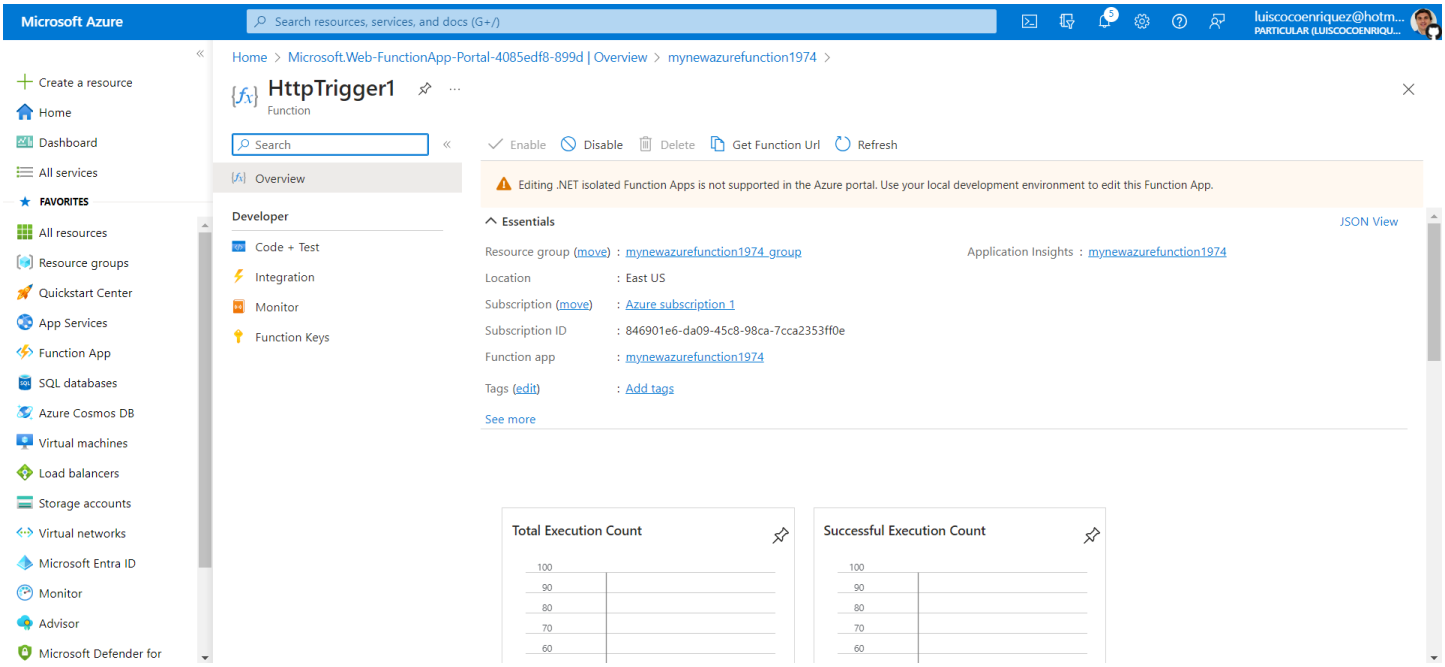
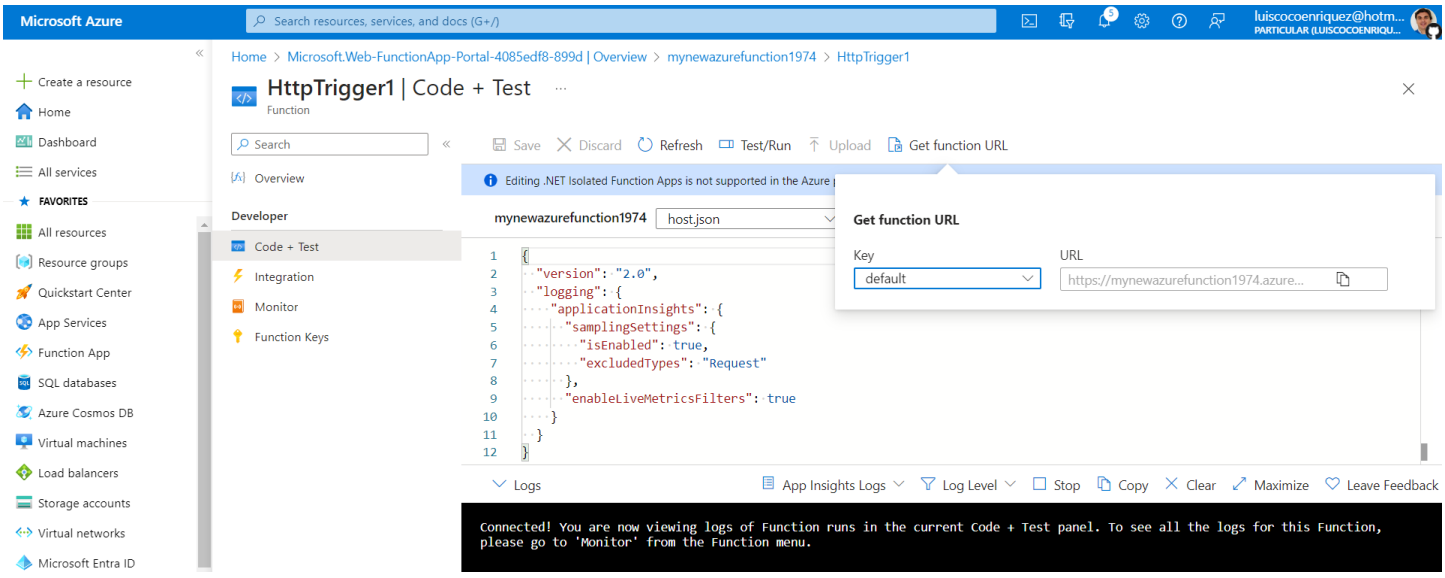
{
_logger = loggerFactory.CreateLogger<HttpTrigger1>();
}
[Function("HttpTrigger1")]
0 references
public HttpResponseData Run([HttpTrigger(AuthorizationLevel.Function, "get", "post")] HttpRequestData req)
{
_logger.LogInformation("C# HTTP trigger function processed a request.");
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS AZURE
mynewazurefunction19
Connecting to log stream...
2023-12-08T19:50:42 Welcome, you are now connected to log-streaming service. The default timeout is 2 hours. Change the timeout with the App Setting SCM_LOGSTREAM_TIMEOUT (in seconds).
2023-12-08T19:50:49 The log-streaming session has ended. Please reconnect to continue streaming logs.
master* 0 0 0 Projects: 1
Ln 11, Col 1 Spaces: 4 UTF-8 CRLF C# Prettier

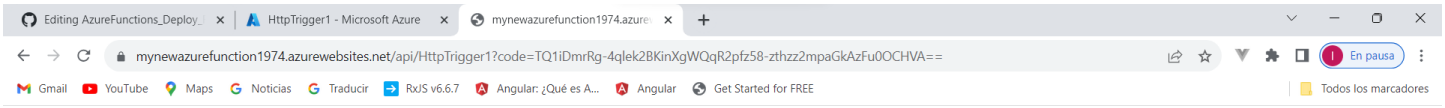
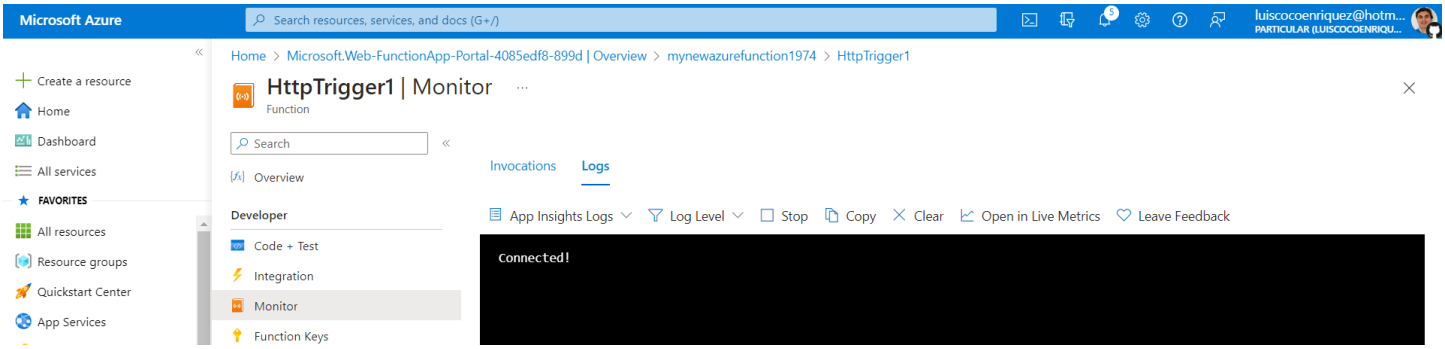
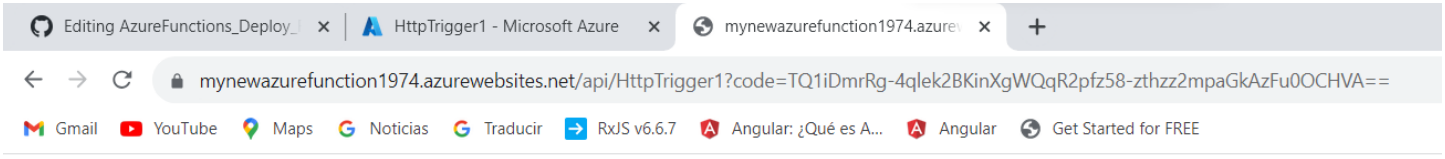
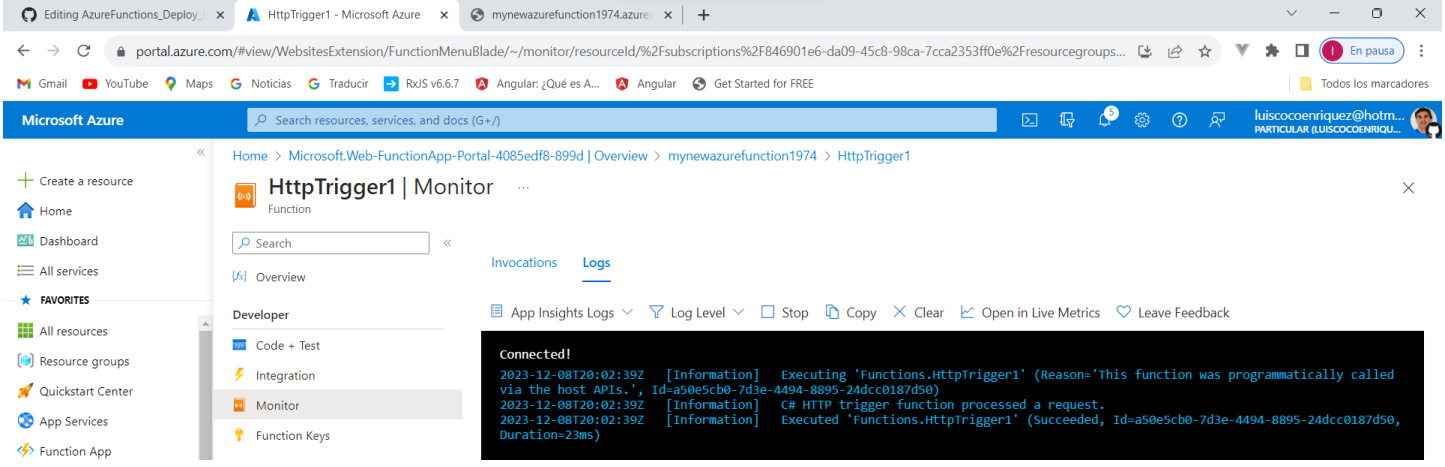

Microsoft Azure
Search resources, services, and docs (G+/)
luiscocoenriquez@hotm...
PARTICULAR (LUISCOCOENRIQU...
Create a resource
Home
Dashboard
All services
FAVORITES
All resources
Resource groups
Quickstart Center
App Services
Function App
SQL databases
Azure Cosmos DB
Virtual machines
Load balancers
Storage accounts
Virtual networks
Microsoft Entra ID
Monitor
Advisor
Microsoft Defender for
Home > Microsoft.Web-FunctionApp-Portal-4085edf8-899d | Overview >
mynewazurefunction1974
Function App
Search
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
Browse Refresh Start Restart Swap Get publish profile Reset publish profile Download app content Delete
The site is stopped
Essentials
JSON View
Resource group (move) : mynewazurefunction1974_group
Status : Stopped
Location (move) : East US
Subscription (move) : Azure subscription 1
Subscription ID : 846901e6-da09-45c8-98ca-7cca2353ff0e
Tags (edit) :
URL : https://mynewazurefunction1974.azurewebsites.net
Operating System : Windows
App Service Plan : ASP-mynewazurefunction1974group-82f3 (Y1: 0)
Runtime version : 4.27.5.21549
Functions Metrics Properties Notifications (1)
Create Set up local environment Refresh
Filter by name...
Name Trigger Status Monitor
HttpTrigger1 HTTP Enabled Invocations and more



4. Run and Test the Azure Function







5. Monitor the Azure Function