How to deploy a .NET 8 WebAPI in Azure WebApp service

1. Create .NET 8 Web API with VSCode

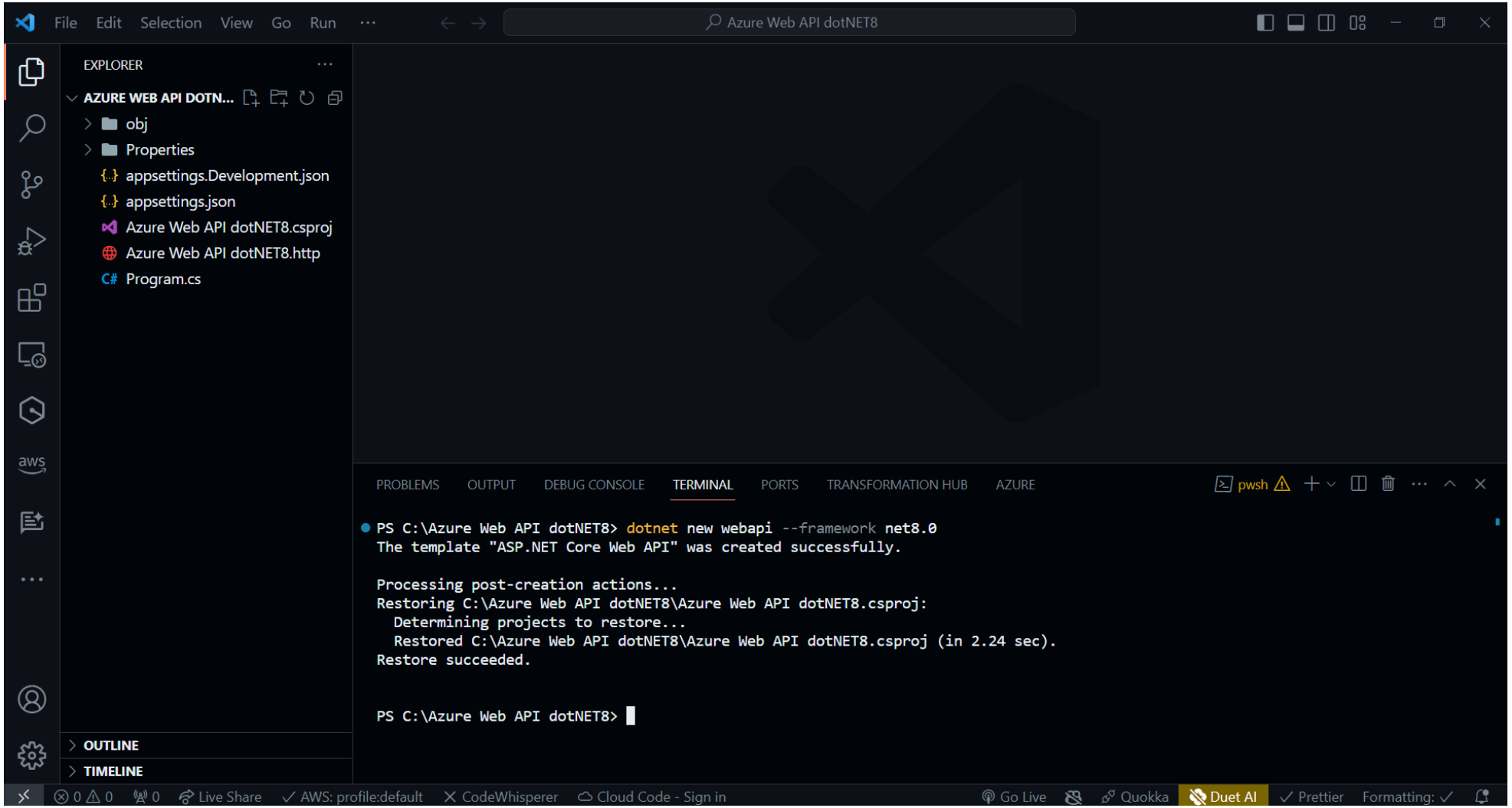
Create a new folder where to place the application

Open VSCode with the command:

```
code .
```

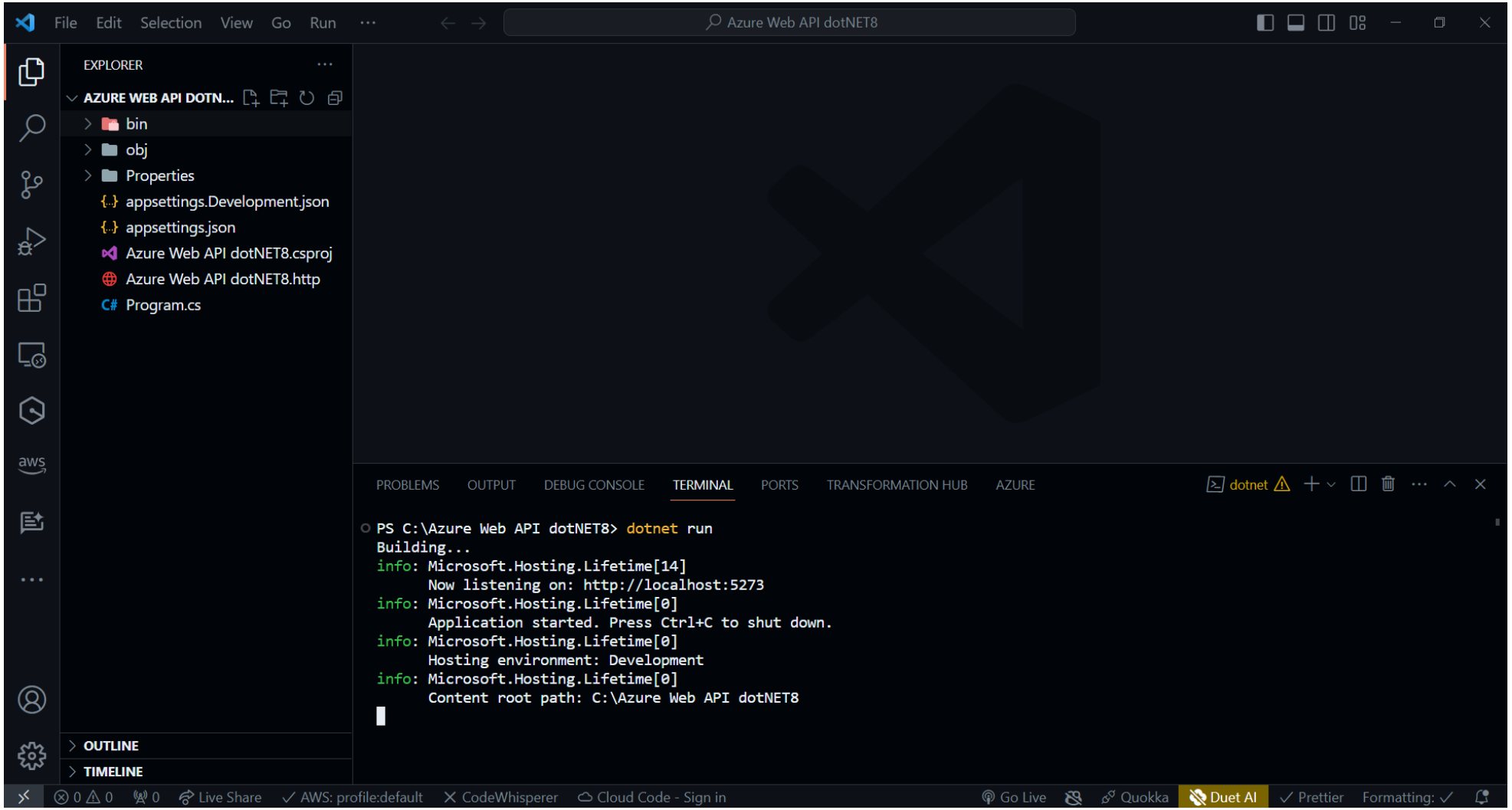
Create a new .NET 8 WebAPI with this command:

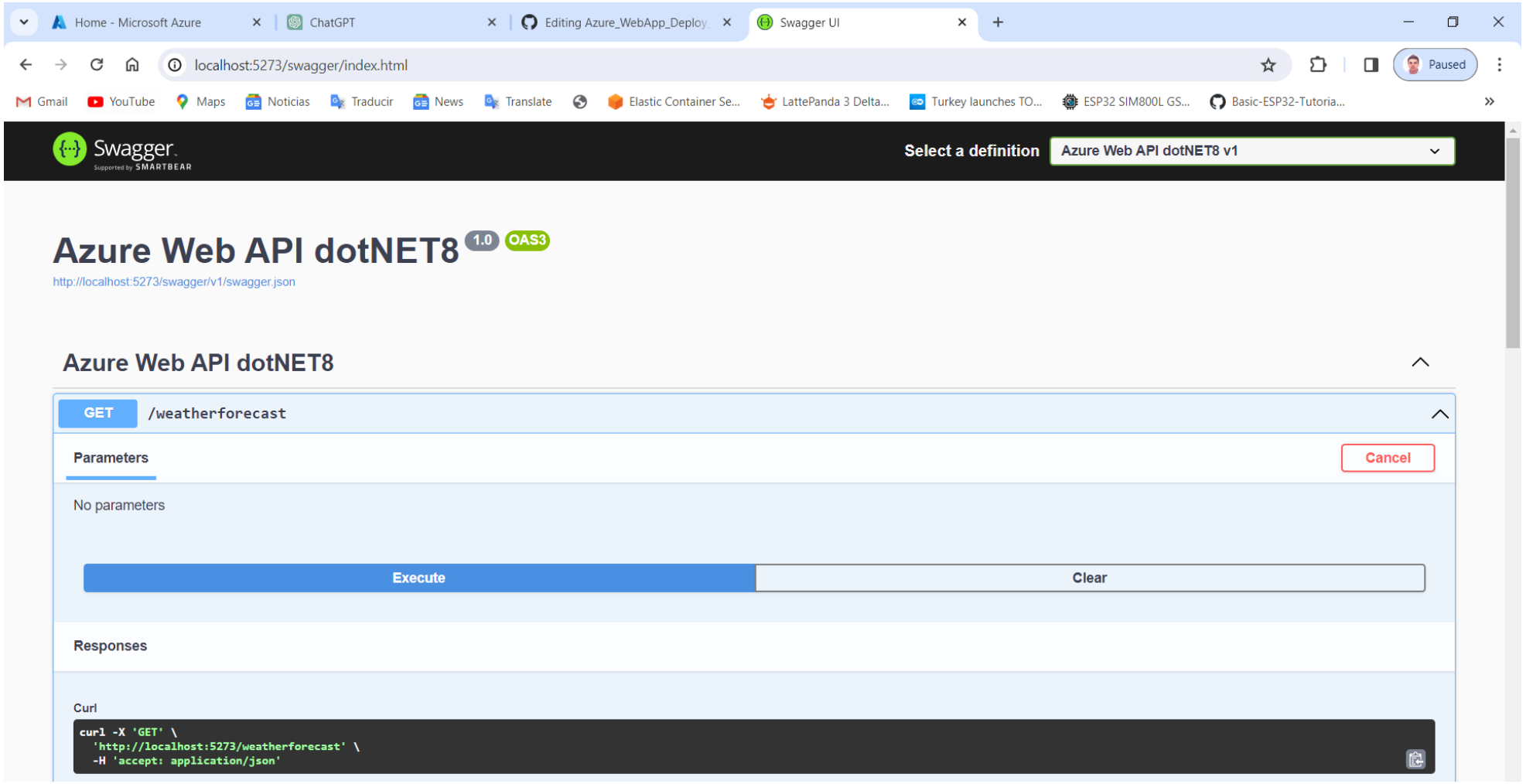
```
dotnet new webapi --framework net8.0
```



Run the application to verify

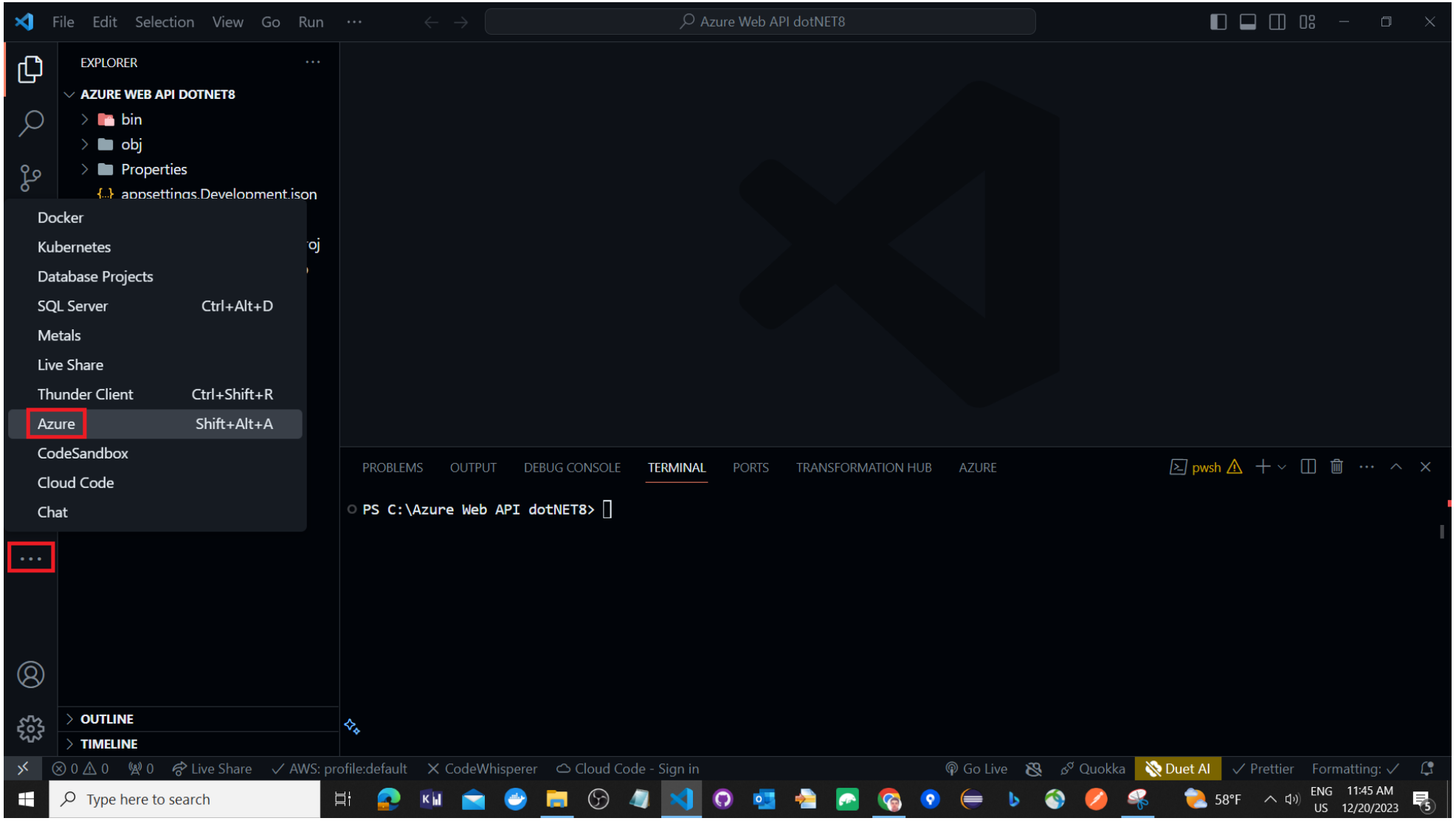
```
dotnet run
```

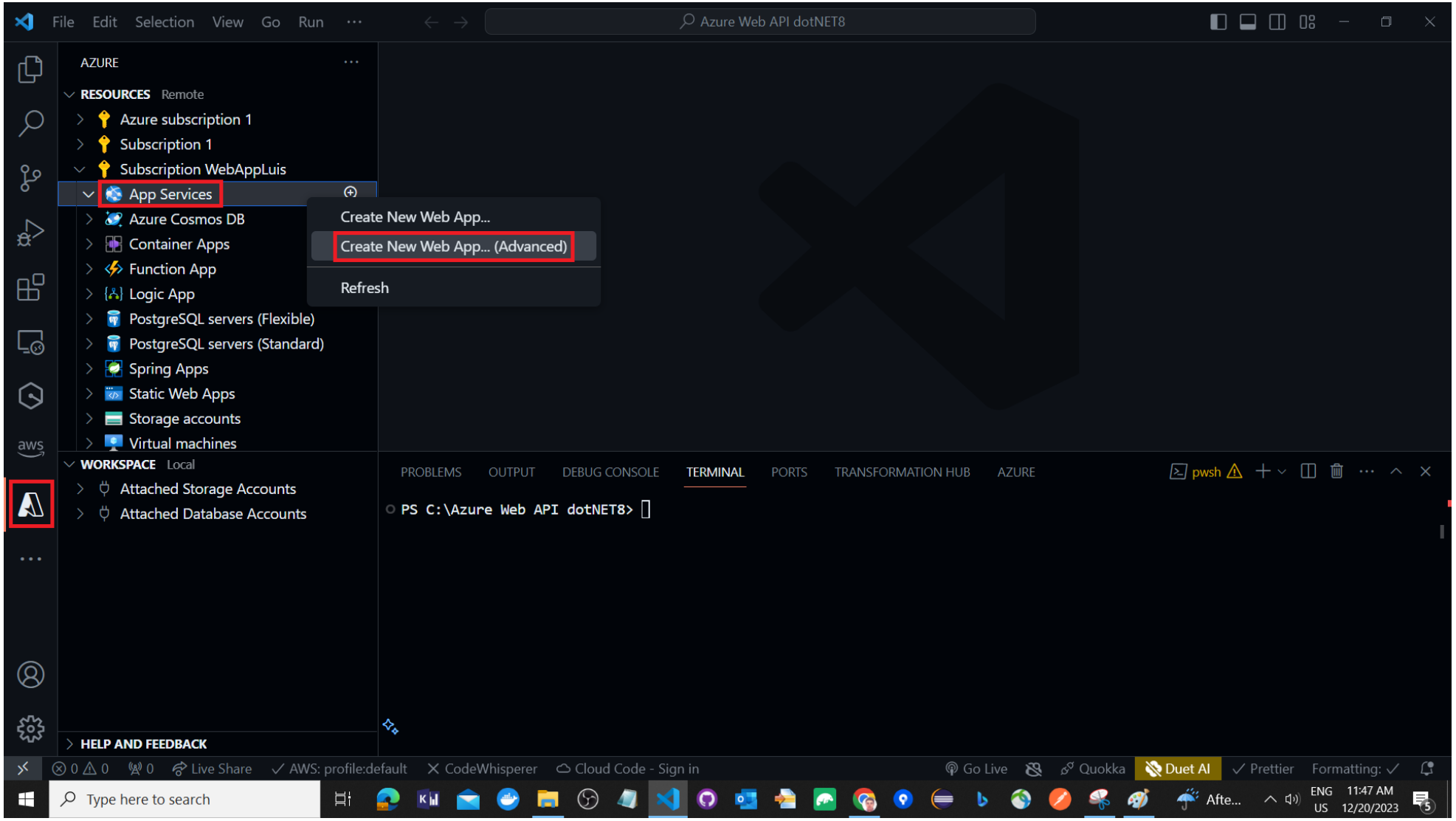

File Edit Selection View Go Run
Azure Web API dotNET8
EXPLORER
AZURE WEB API DOTN...
bin
obj
Properties
appsettings.Development.json
appsettings.json
Azure Web API dotNET8.csproj
Azure Web API dotNET8.http
Program.cs
OUTLINE
TIMELINE
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS TRANSFORMATION HUB AZURE
dotnet
PS C:\Azure Web API dotNET8> dotnet run
Building...
info: Microsoft.Hosting.Lifetime[14]
Now listening on: http://localhost:5273
info: Microsoft.Hosting.Lifetime[0]
Application started. Press Ctrl+C to shut down.
info: Microsoft.Hosting.Lifetime[0]
Hosting environment: Development
info: Microsoft.Hosting.Lifetime[0]
Content root path: C:\Azure Web API dotNET8
Live Share
AWS: profile:default
CodeWhisperer
Cloud Code - Sign in
Go Live
Quokka
Duet AI
Prettier
Formatting:



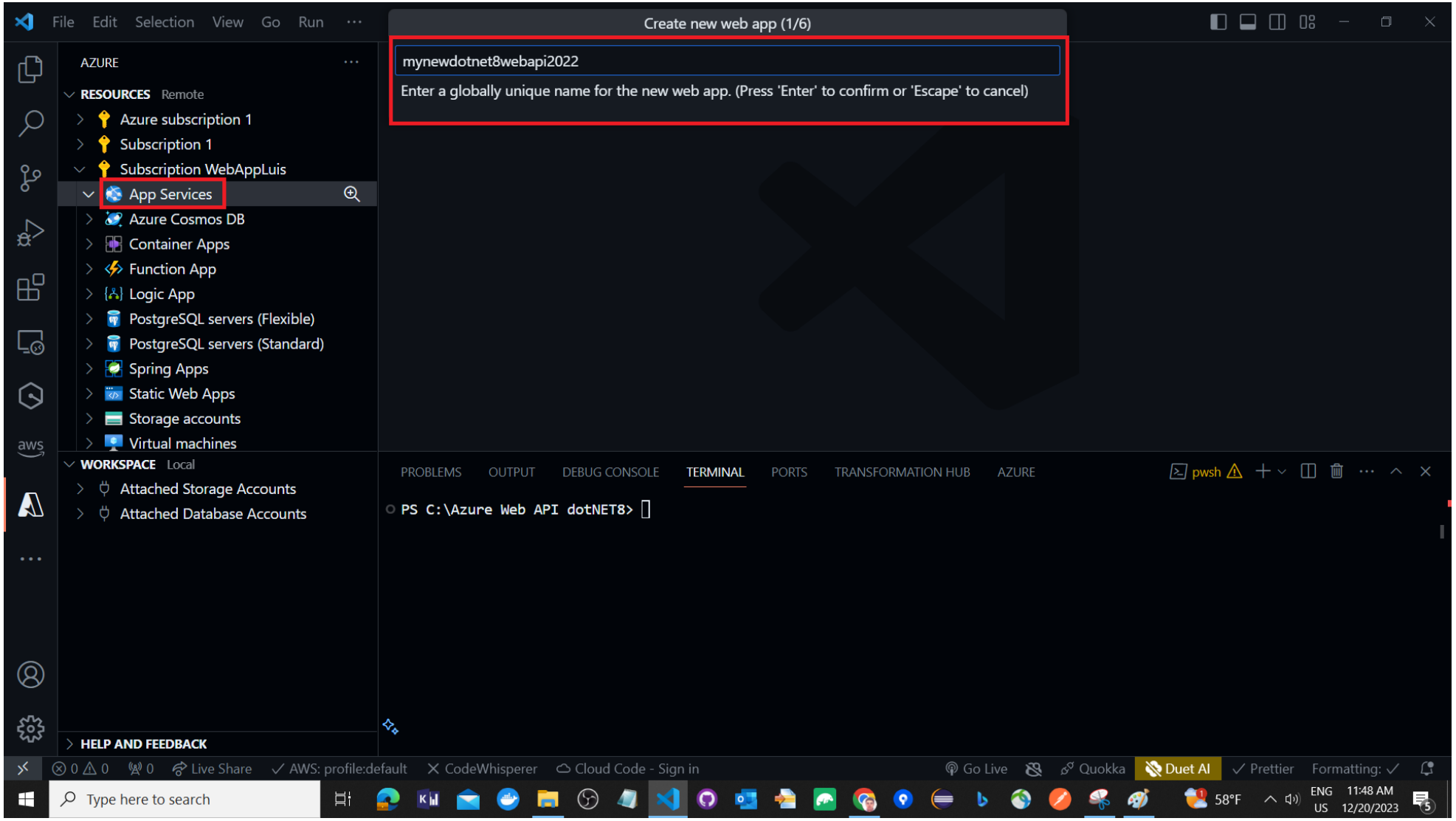
2. Deploy the application to Azure Web App service

In the left menu select Azure extension


File Edit Selection View Go Run
Azure Web API dotNET8
EXPLORER
AZURE WEB API DOTNET8
bin
obj
Properties
appsettings.Development.json
Docker
Kubernetes
Database Projects
SQL Server Ctrl+Alt+D
Metals
Live Share
Thunder Client Ctrl+Shift+R
Azure Shift+Alt+A
CodeSandbox
Cloud Code
Chat
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS TRANSFORMATION HUB AZURE
pwsh
PS C:\Azure Web API dotNET8>
OUTLINE
TIMELINE
Live Share
AWS: profile:default
CodeWhisperer
Cloud Code - Sign in
Go Live
Quokka
Duet AI
Prettier
Formatting:
Type here to search
58°F
ENG US
11:45 AM 12/20/2023



Set the .NET 8 Web API name


File Edit Selection View Go Run
Create new web app (1/6)
mynewdotnet8webapi2022
Enter a globally unique name for the new web app. (Press 'Enter' to confirm or 'Escape' to cancel)
AZURE
RESOURCES Remote
Azure subscription 1
Subscription 1
Subscription WebAppLuis
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
HELP AND FEEDBACK
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS TRANSFORMATION HUB AZURE
pwsh
PS C:\Azure Web API dotNET8>
Live Share
AWS: profile:default
CodeWhisperer
Cloud Code - Sign in
Go Live
Quokka
Duet AI
Prettier
Formatting:
Type here to search
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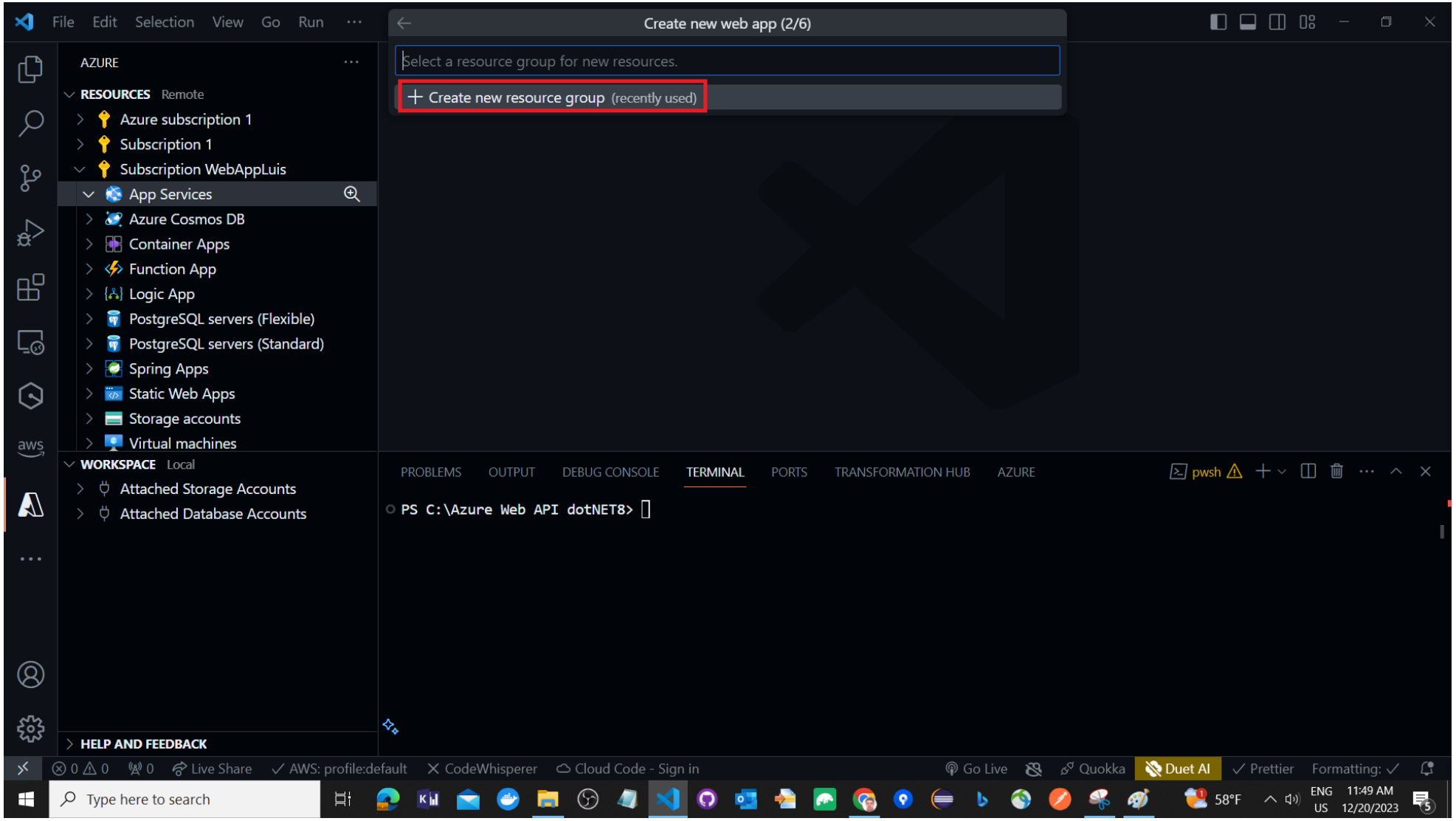
11:48 AM 12/20/2023


File Edit Selection View Go Run
Create new web app (2/6)
Select a resource group for new resources.
Create new resource group (recently used)
AZURE
RESOURCES Remote
Azure subscription 1
Subscription 1
Subscription WebAppLuis
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
HELP AND FEEDBACK
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS TRANSFORMATION HUB AZURE
pwsh
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Live Share
AWS: profile:default
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Go Live
Quokka
Duet AI
Prettier
Formatting:
Type here to search
58°F
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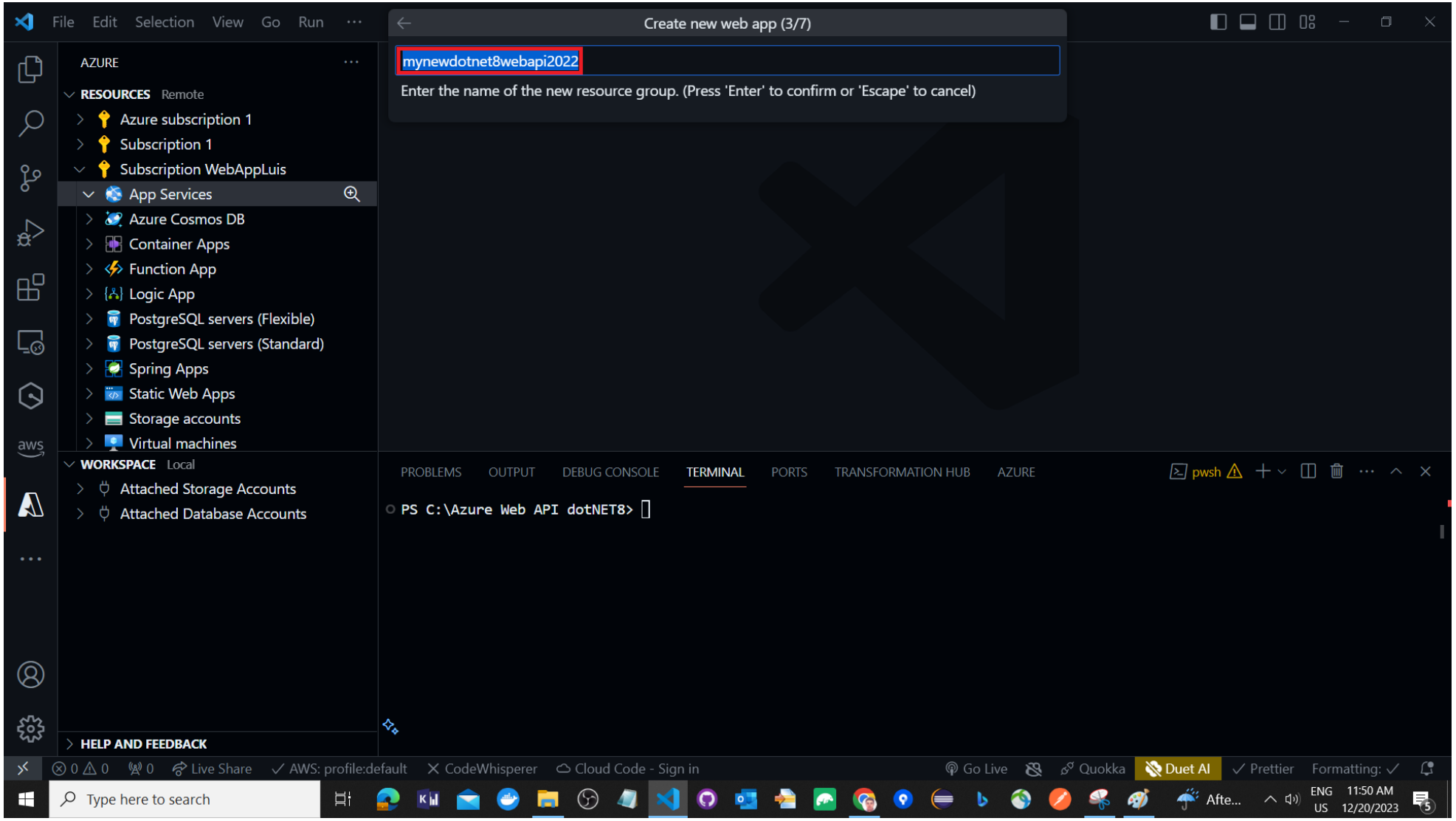
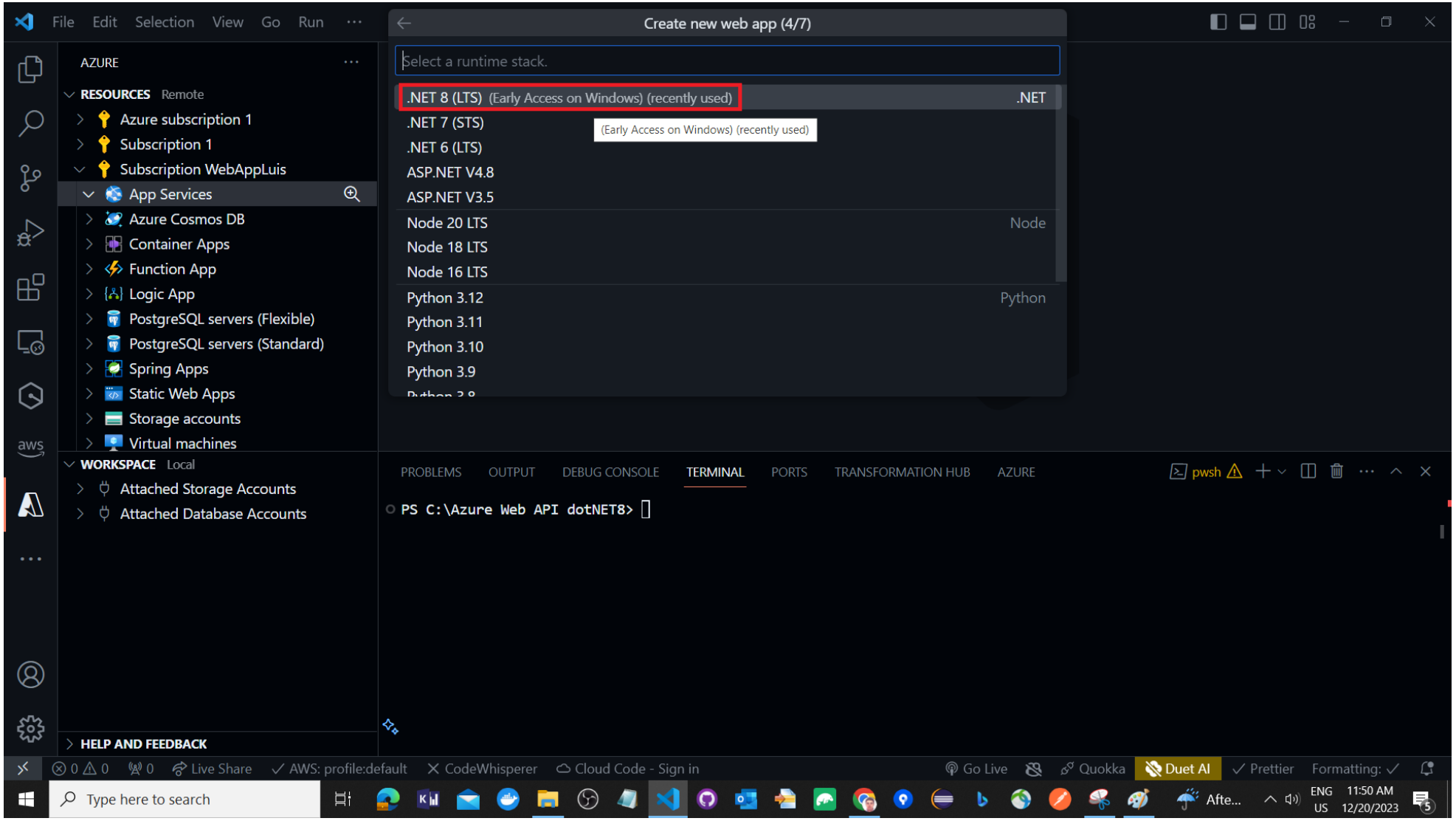
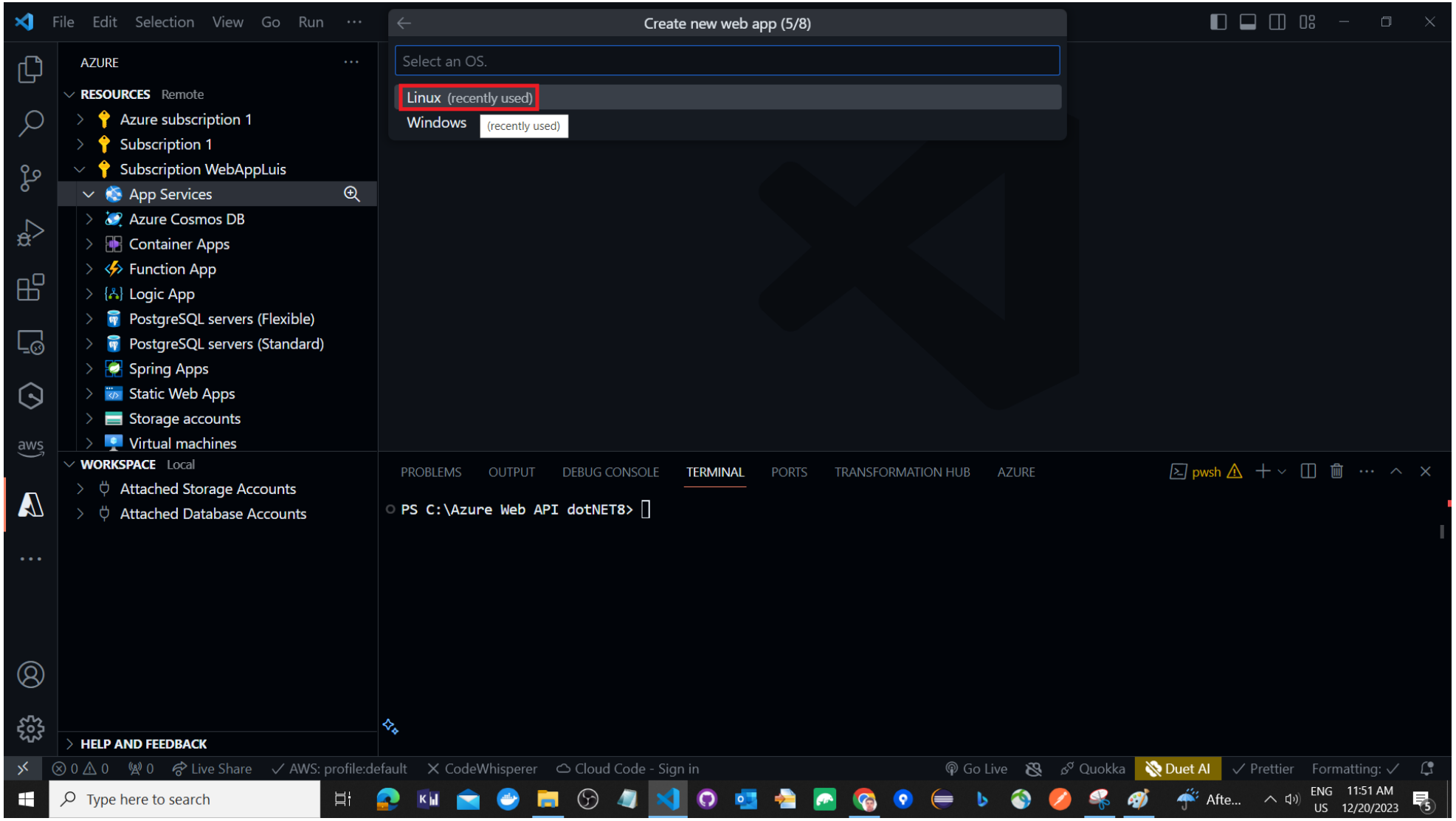
11:49 AM 12/20/2023



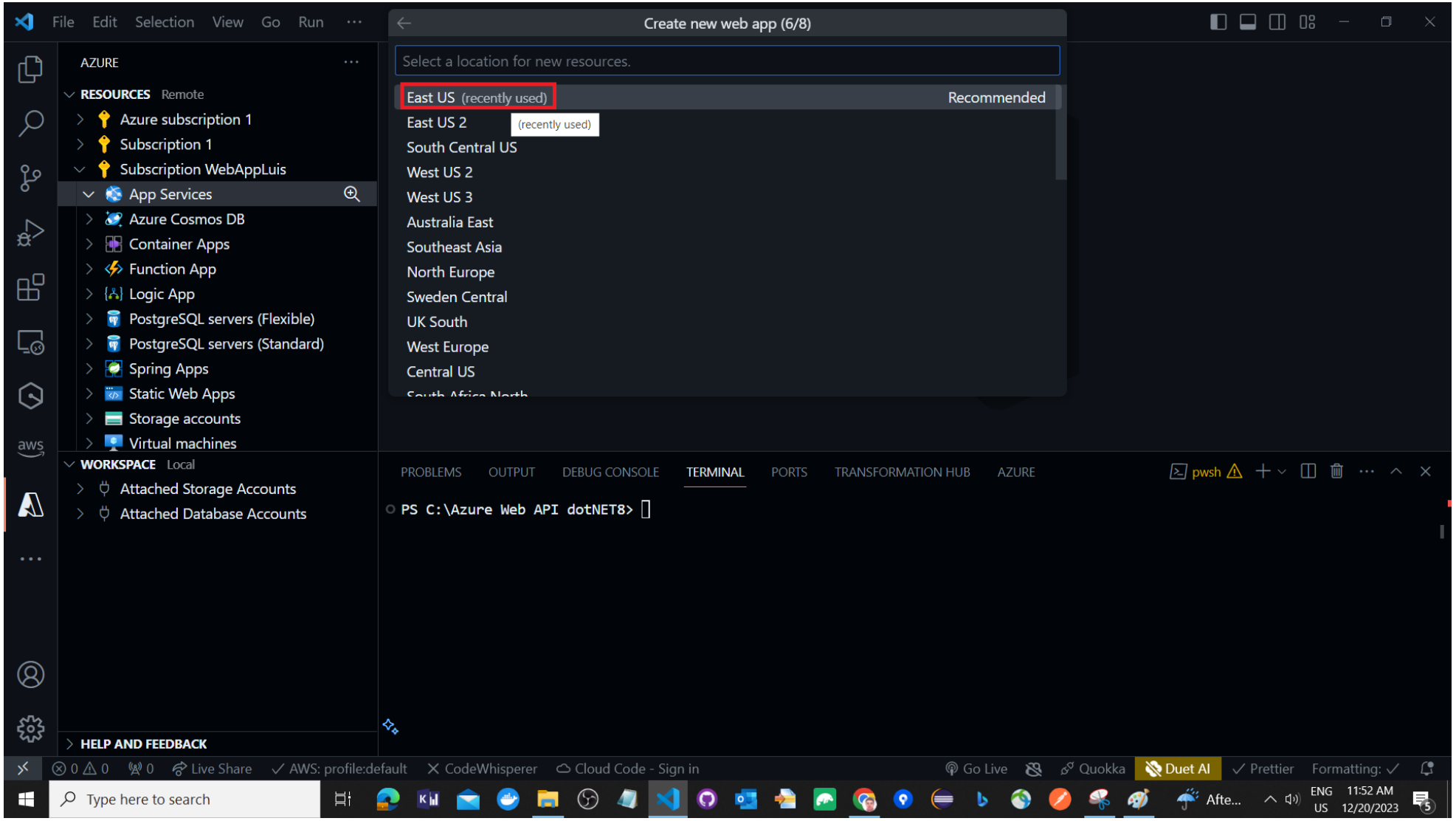
Select the .NET 8 framework



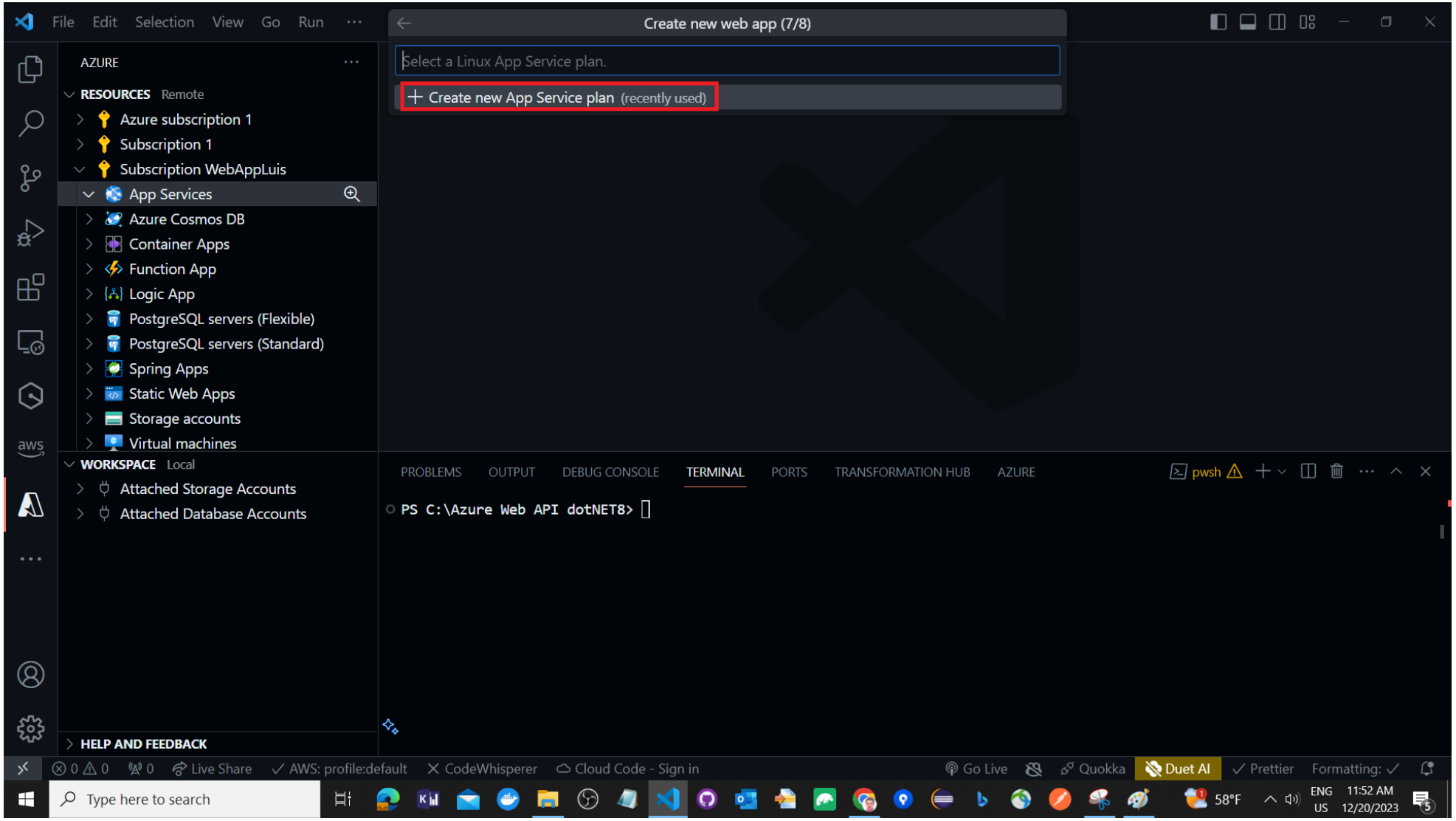
Select the operating system linux



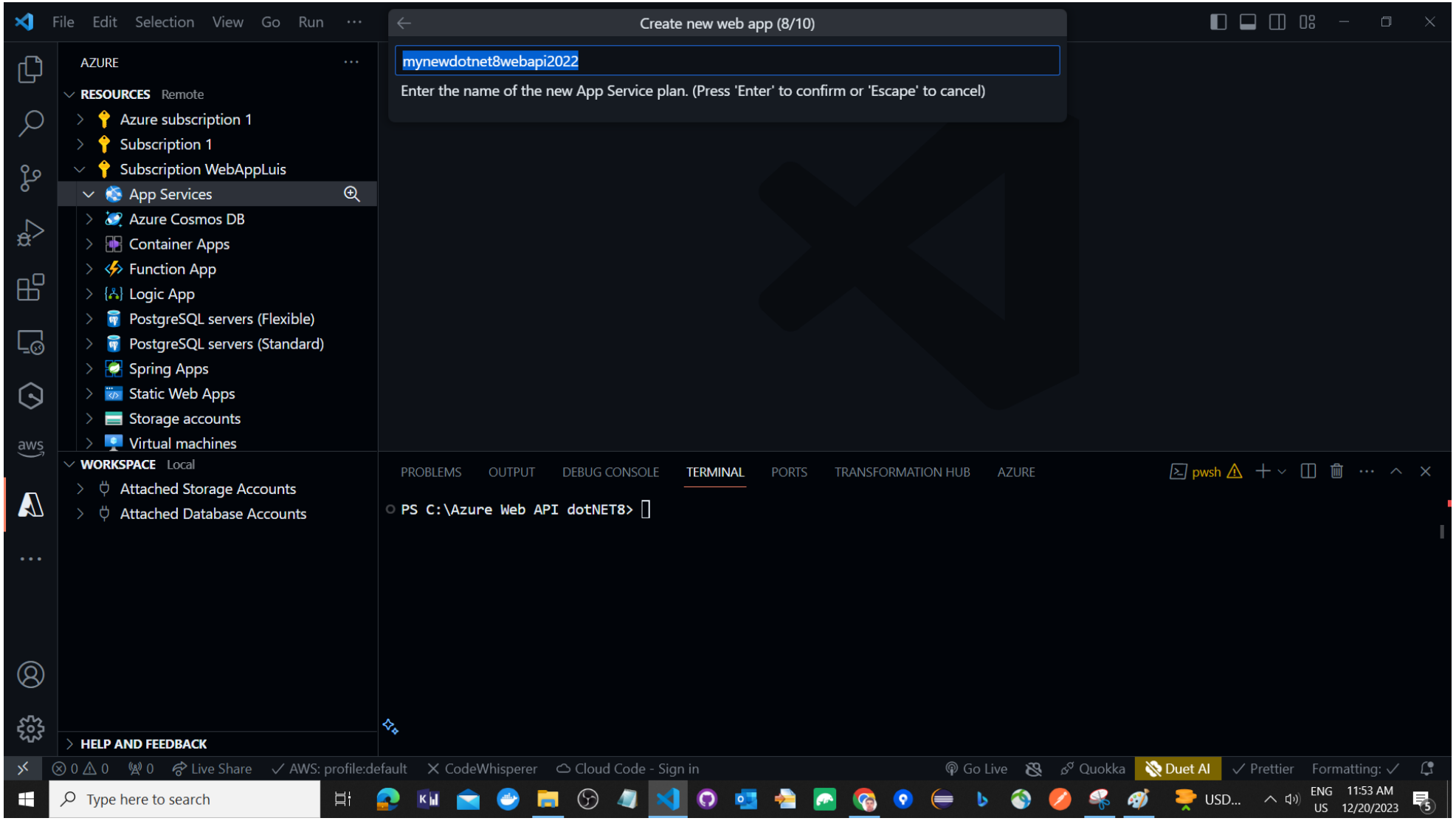
Select the location **East US**



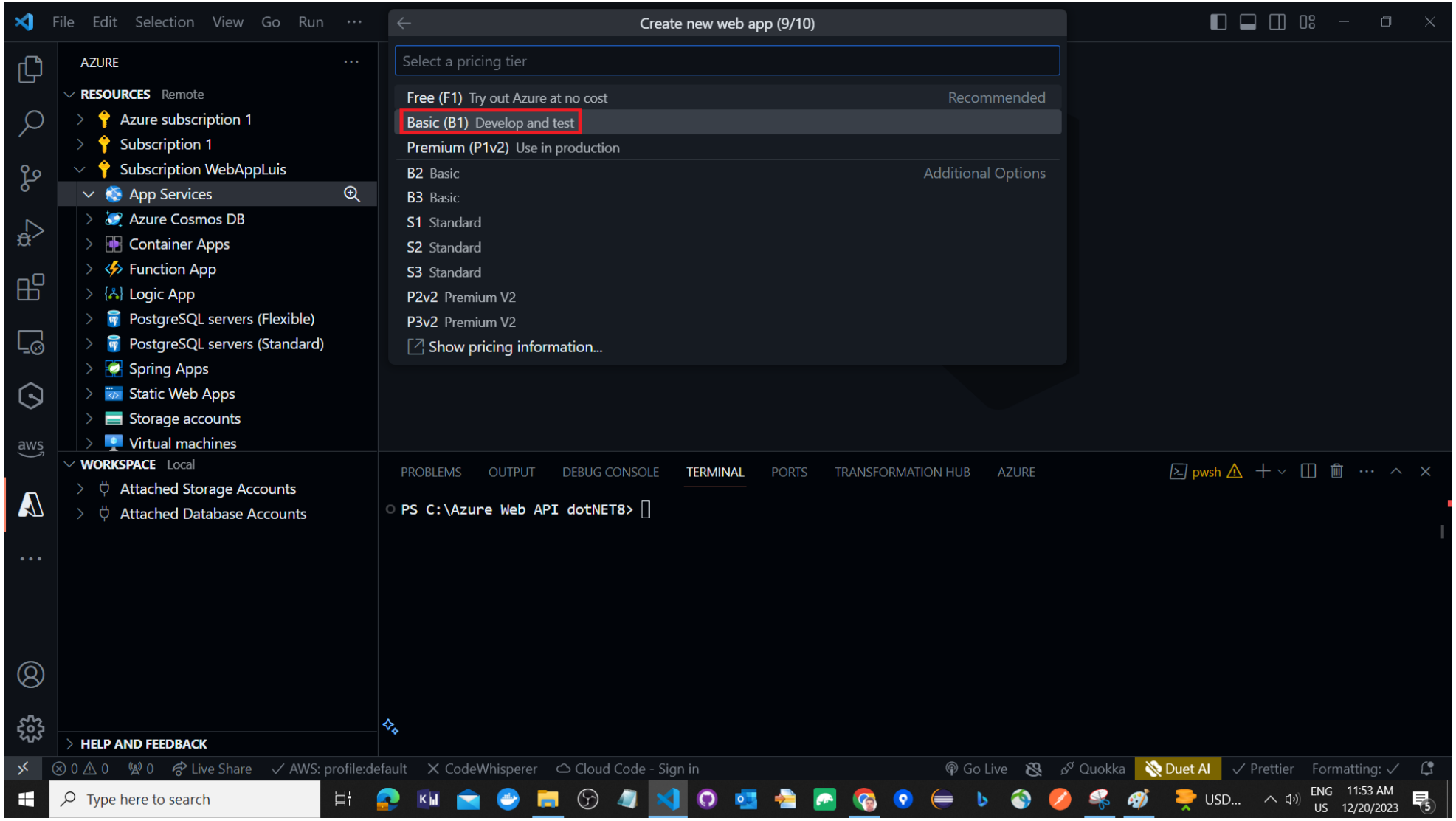
Create a new Service Plan



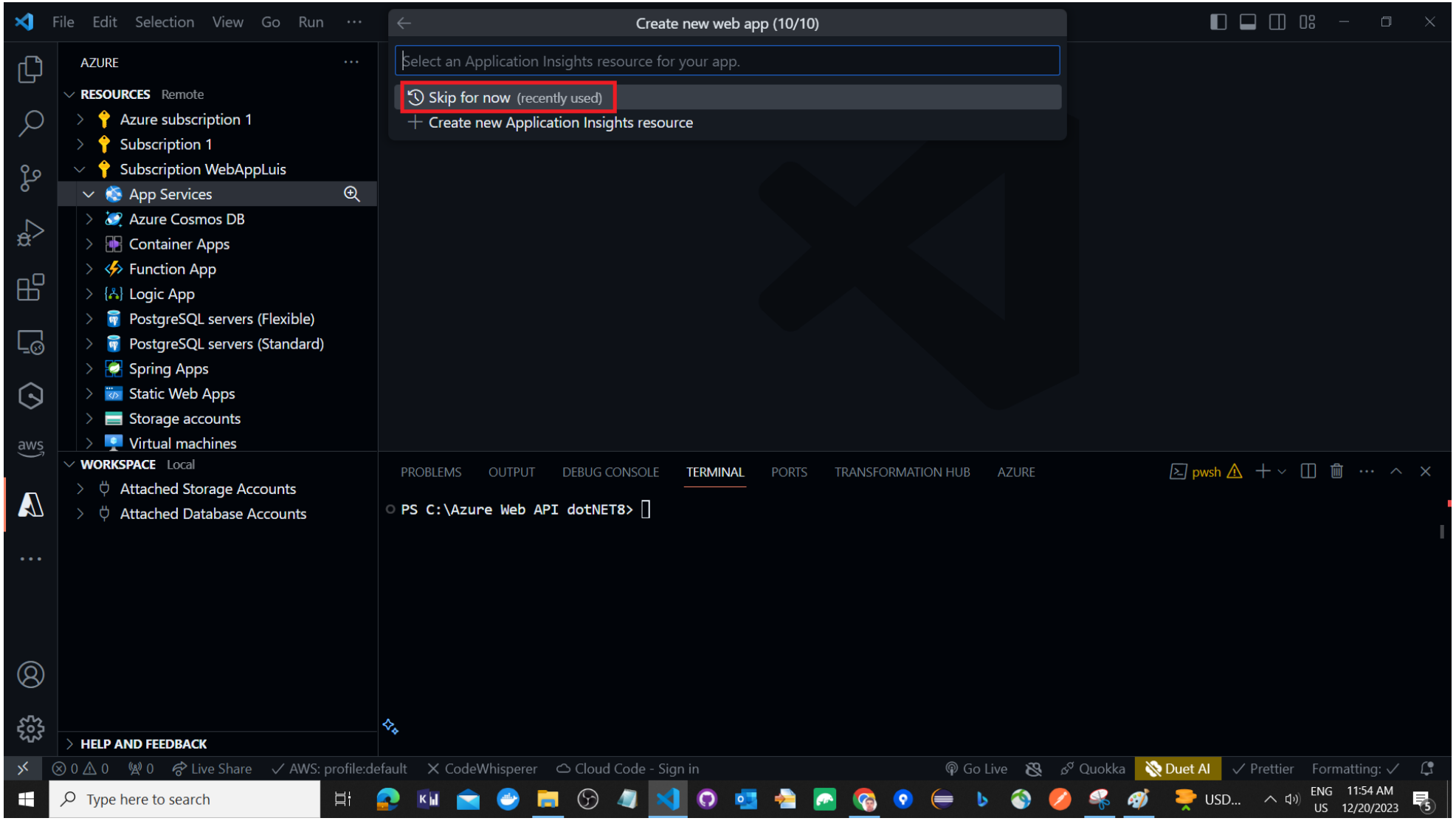
Enter the new Service Plan name



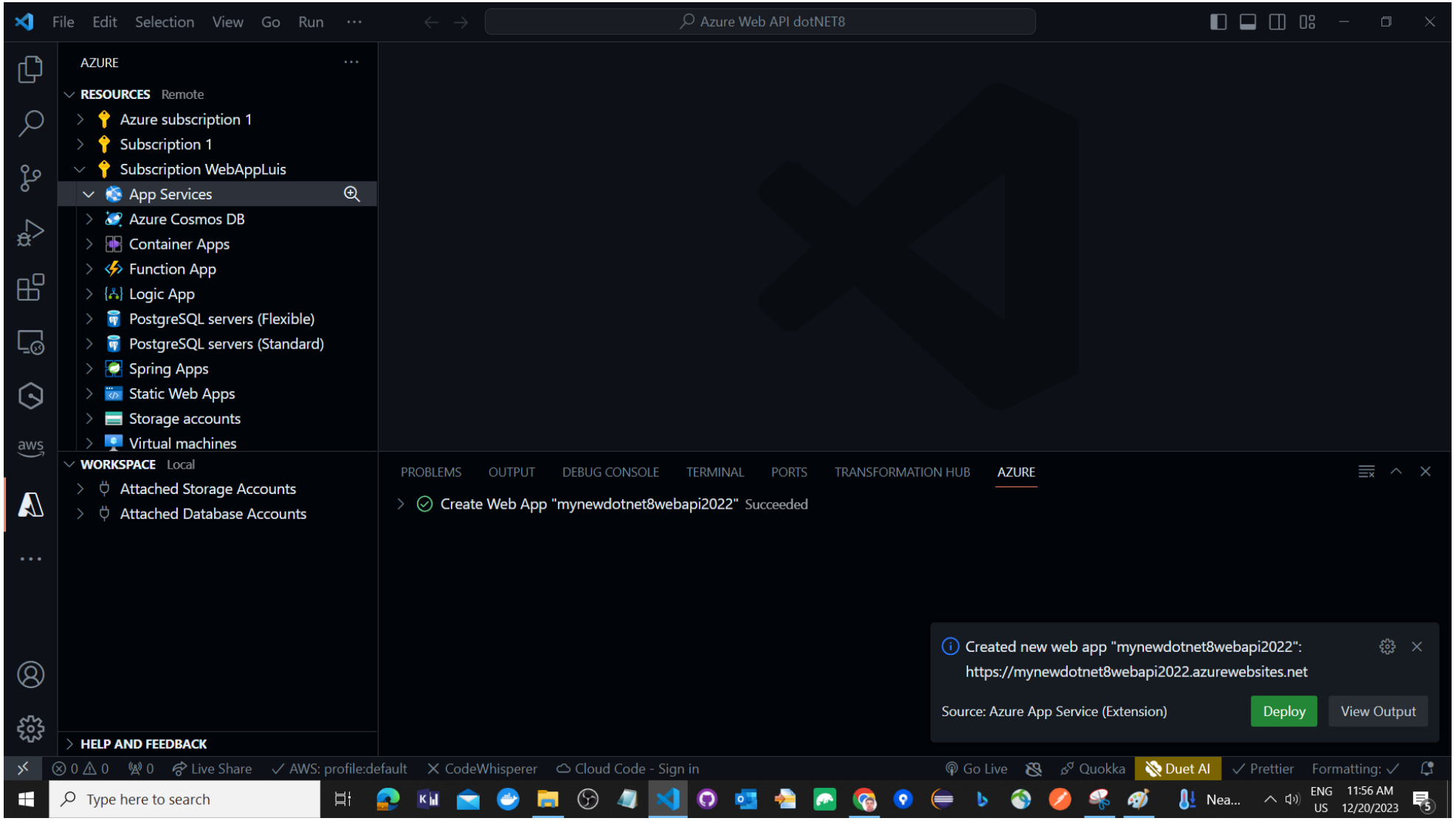
Select the App Service plan **Basic (B1)**



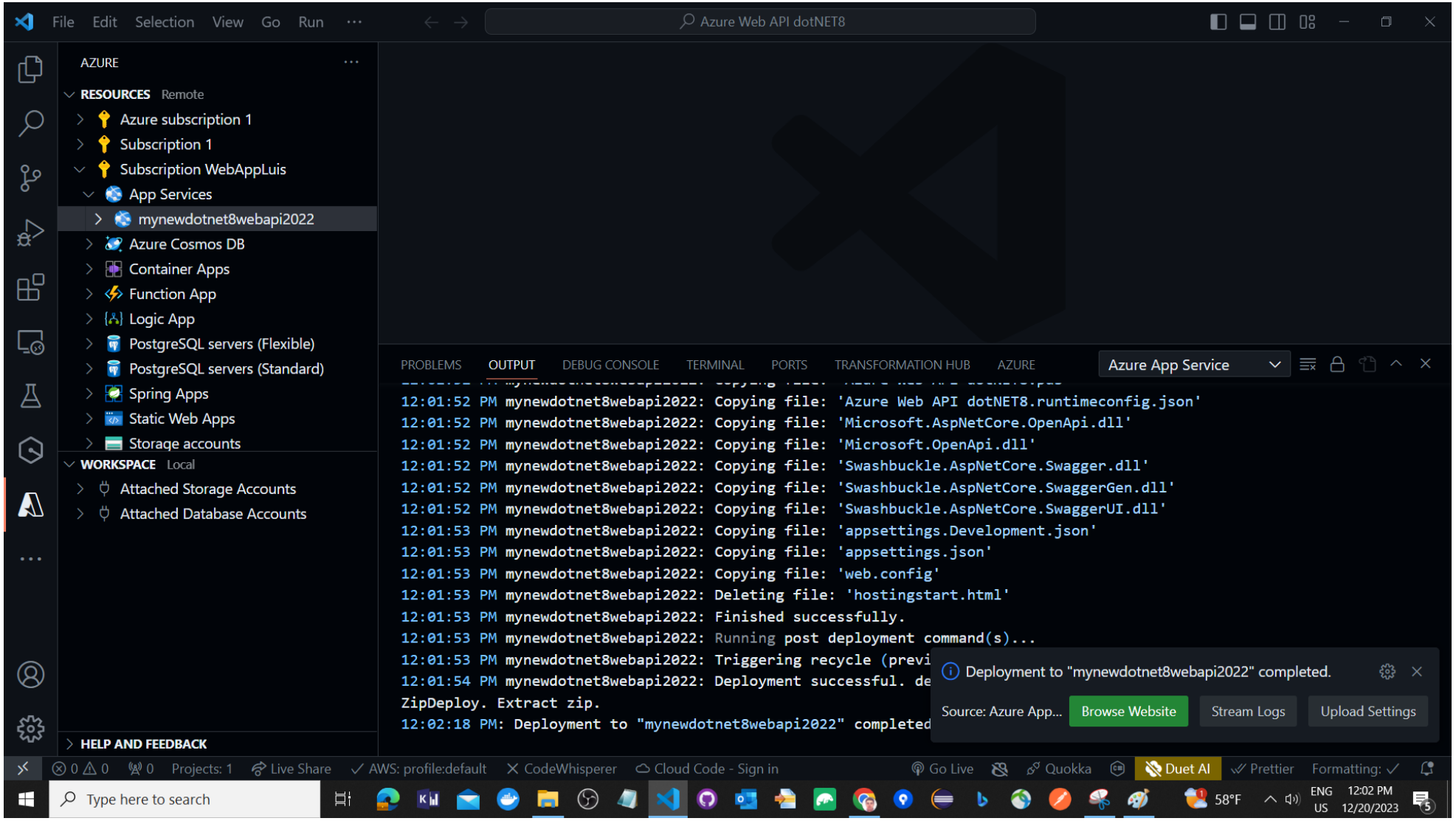
Skip creating a new Application Insights resource

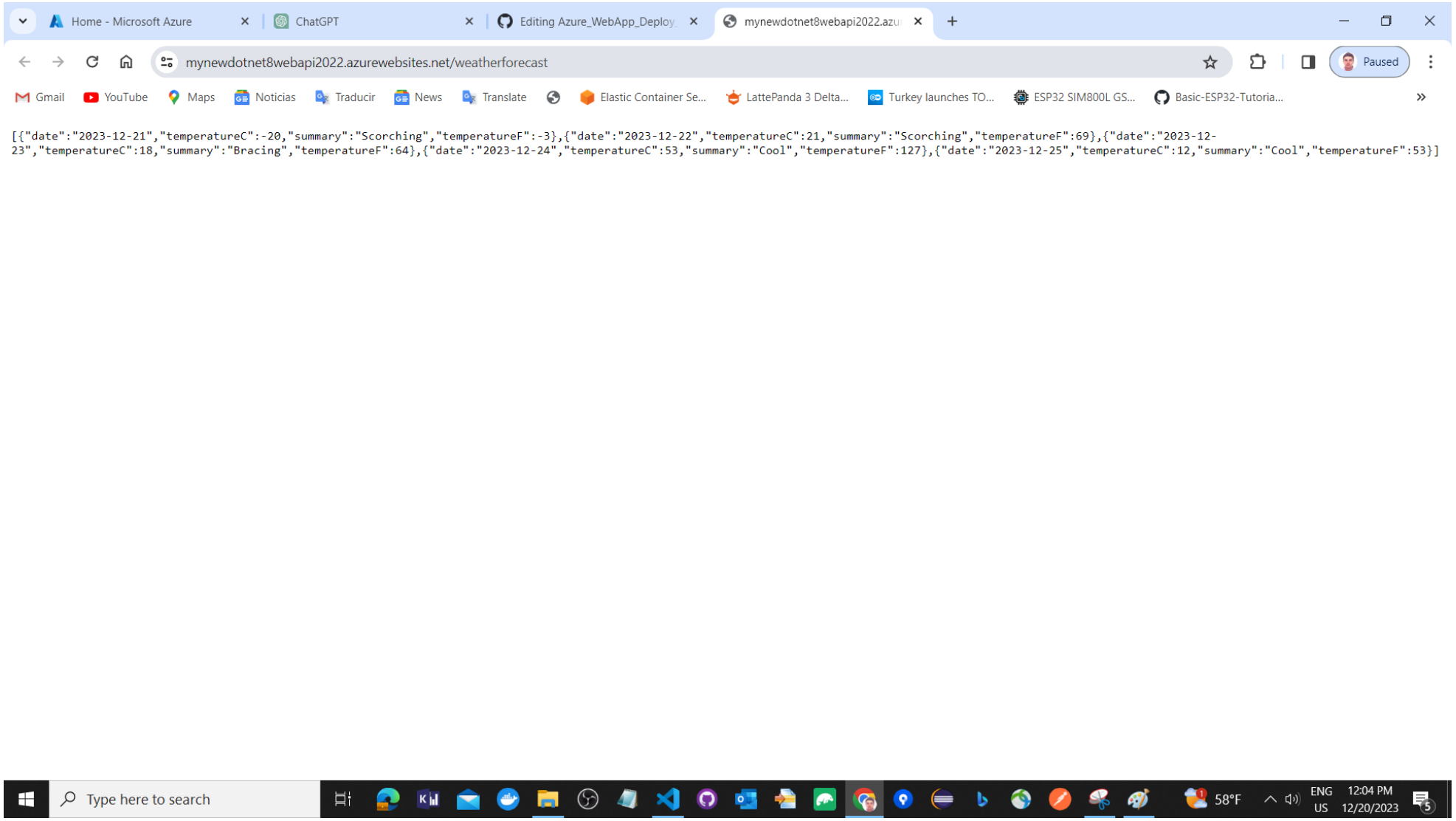


Create a new deployment



Place the Web API in a folder


File Edit Selection View Go Run
Azure Web API dotNET8
AZURE
RESOURCES Remote
Azure subscription 1
Subscription 1
Subscription WebAppLuis
App Services
mynewdotnet8webapi2022
Azure Cosmos DB
Container Apps
Function App
Logic App
PostgreSQL servers (Flexible)
PostgreSQL servers (Standard)
Spring Apps
Static Web Apps
Storage accounts
WORKSPACE Local
Attached Storage Accounts
Attached Database Accounts
HELP AND FEEDBACK
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS TRANSFORMATION HUB AZURE
Azure App Service
12:01:52 PM mynewdotnet8webapi2022: Copying file: 'Azure Web API dotNET8.runtimeconfig.json'
12:01:52 PM mynewdotnet8webapi2022: Copying file: 'Microsoft.AspNetCore.OpenApi.dll'
12:01:52 PM mynewdotnet8webapi2022: Copying file: 'Microsoft.OpenApi.dll'
12:01:52 PM mynewdotnet8webapi2022: Copying file: 'Swashbuckle.AspNetCore.Swagger.dll'
12:01:52 PM mynewdotnet8webapi2022: Copying file: 'Swashbuckle.AspNetCore.SwaggerGen.dll'
12:01:52 PM mynewdotnet8webapi2022: Copying file: 'Swashbuckle.AspNetCore.SwaggerUI.dll'
12:01:53 PM mynewdotnet8webapi2022: Copying file: 'appsettings.Development.json'
12:01:53 PM mynewdotnet8webapi2022: Copying file: 'appsettings.json'
12:01:53 PM mynewdotnet8webapi2022: Copying file: 'web.config'
12:01:53 PM mynewdotnet8webapi2022: Deleting file: 'hostingstart.html'
12:01:53 PM mynewdotnet8webapi2022: Finished successfully.
12:01:53 PM mynewdotnet8webapi2022: Running post deployment command(s)...
12:01:53 PM mynewdotnet8webapi2022: Triggering recycle (previ
12:01:54 PM mynewdotnet8webapi2022: Deployment successful. de
ZipDeploy. Extract zip.
12:02:18 PM: Deployment to "mynewdotnet8webapi2022" completed
Deployment to "mynewdotnet8webapi2022" completed.
Source: Azure App...
Browse Website
Stream Logs
Upload Settings
Projects: 1
Live Share
AWS: profile:default
CodeWhisperer
Cloud Code - Sign in
Go Live
Quokka
Duet AI
Prettier
Formatting:
Type here to search
58°F
ENG US
12:02 PM 12/20/2023


Home - Microsoft Azure
ChatGPT
Editing Azure_WebApp_Deploy
mynewdotnet8webapi2022.azu
mynewdotnet8webapi2022.azurewebsites.net/weatherforecast
Paused
Gmail
YouTube
Maps
Noticias
Traducir
News
Translate
Elastic Container Se...
LattePanda 3 Delta...
Turkey launches TO...
ESP32 SIM800L GS...
Basic-ESP32-Tutoria...
[{"date":"2023-12-21","temperatureC":-20,"summary":"Scorching","temperatureF":-3},{"date":"2023-12-22","temperatureC":21,"summary":"Scorching","temperatureF":69},{"date":"2023-12-23","temperatureC":18,"summary":"Bracing","temperatureF":64},{"date":"2023-12-24","temperatureC":53,"summary":"Cool","temperatureF":127},{"date":"2023-12-25","temperatureC":12,"summary":"Cool","temperatureF":53}]
Type here to search
58°F
ENG
US
12:04 PM
12/20/2023