How to create in VSCode .NET 8 Web API and deploy it to Azure WebApp with Azure CLI

Summary

In this example we show you how to create a new .NET 8 WebAPI and how to deploy it in Azure Web App with only two commands:

```
dotnet new webapi
```

```
az webapp up ^
--name myWebAppluiscoco19777 ^
--resource-group myRG ^
--location EastUS ^
--sku B1 ^
--os-type Windows ^
--runtime "dotnet:8"
```
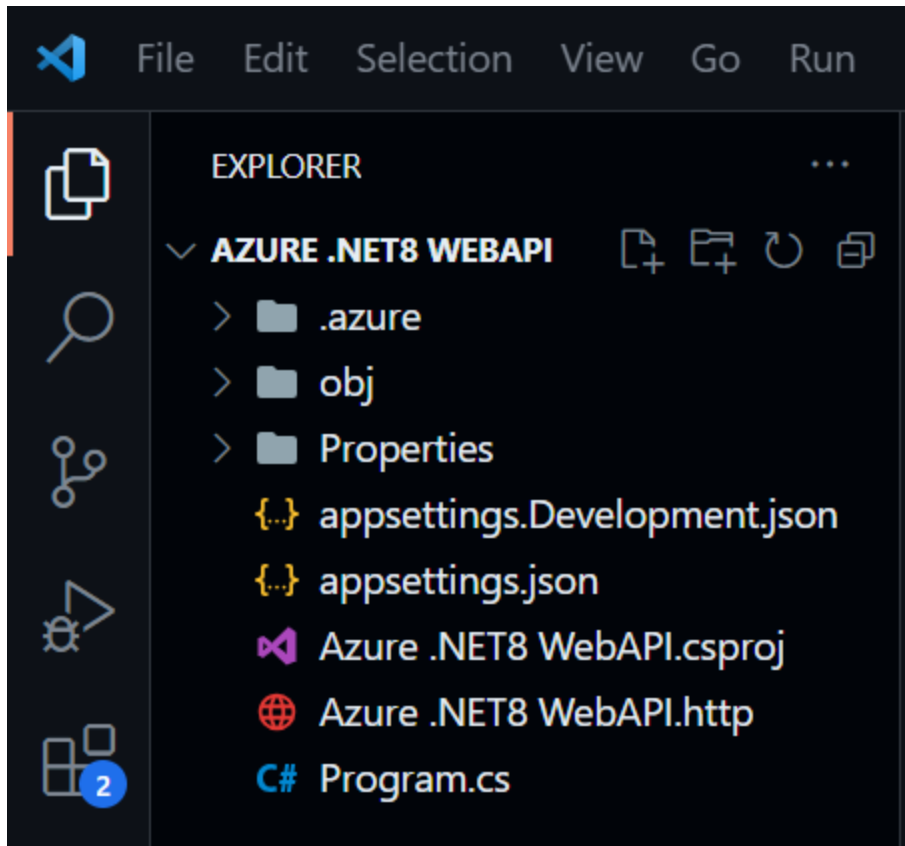
1. Create a new .NET 8 Web API in VSCode

We create a new directory where to place the new application

We run VSCode and in a Terminal Window we run this command:

```
dotnet new webapi
```

This is by default the Web API application project folders structure

If we would like to include some features when creating the application we can run this command to list the available application features
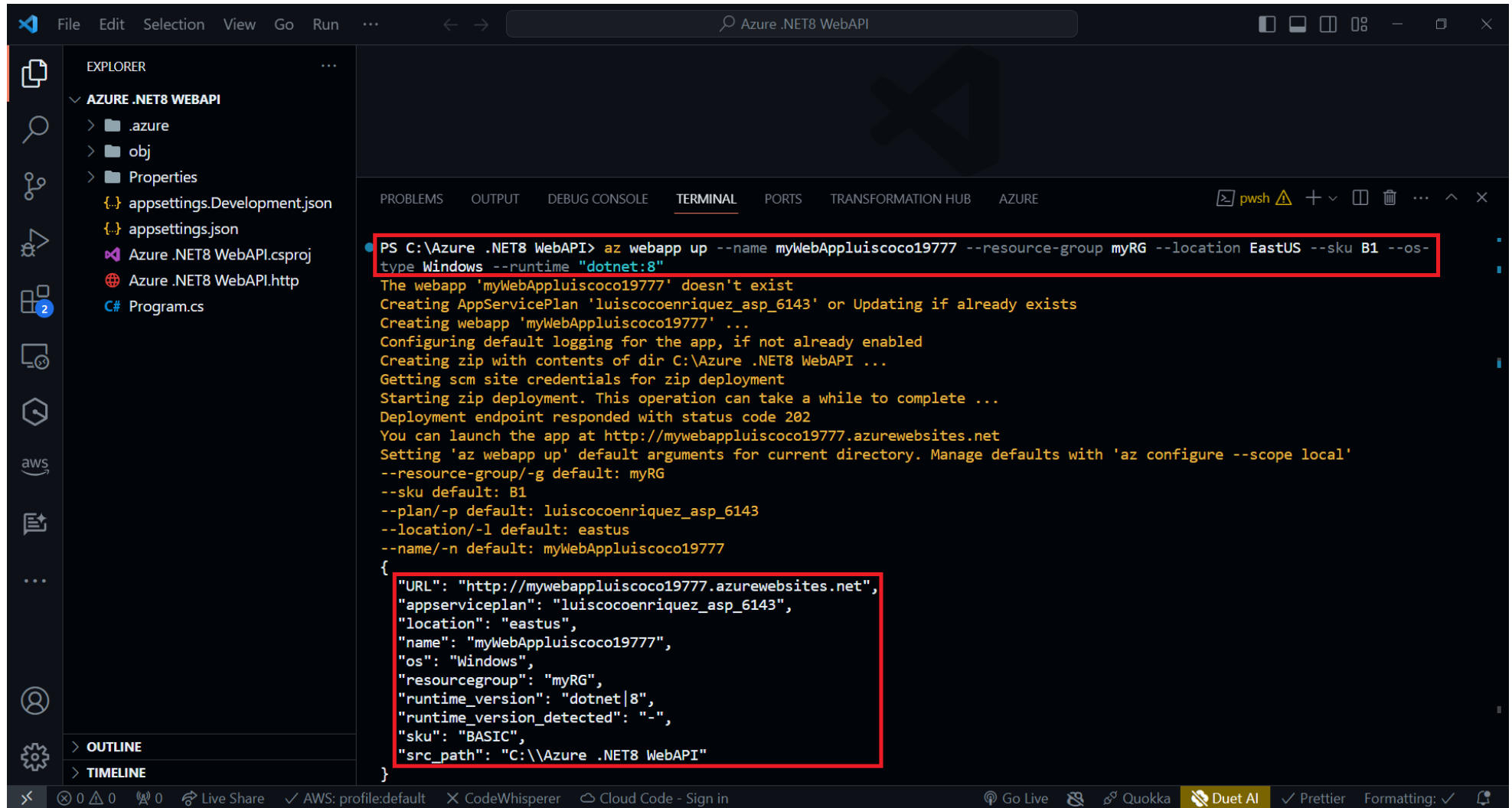
```
dotnet new webapi --help
```

2. Deploy the .NET 8 Web API in Azure Web App

With the following command automatically we create a new Azure AppService Plan and also a new Azure Web App

```
az webapp up ^
--name myWebAppluiscoco19777 ^
--resource-group myRG ^
```

```
--location EastUS ^
--sku B1 ^
--os-type Windows ^
--runtime "dotnet:8"
```


3. Verify in Azure Portal we created a new AppService Plan and a new Web App

We log in to Azure and we go to "All resources" option.

We confirm we created a new AppServicePlan called "luiscocoenriquez_asp_6143" and a new WebApp called "myWebAppluiscoco19777"

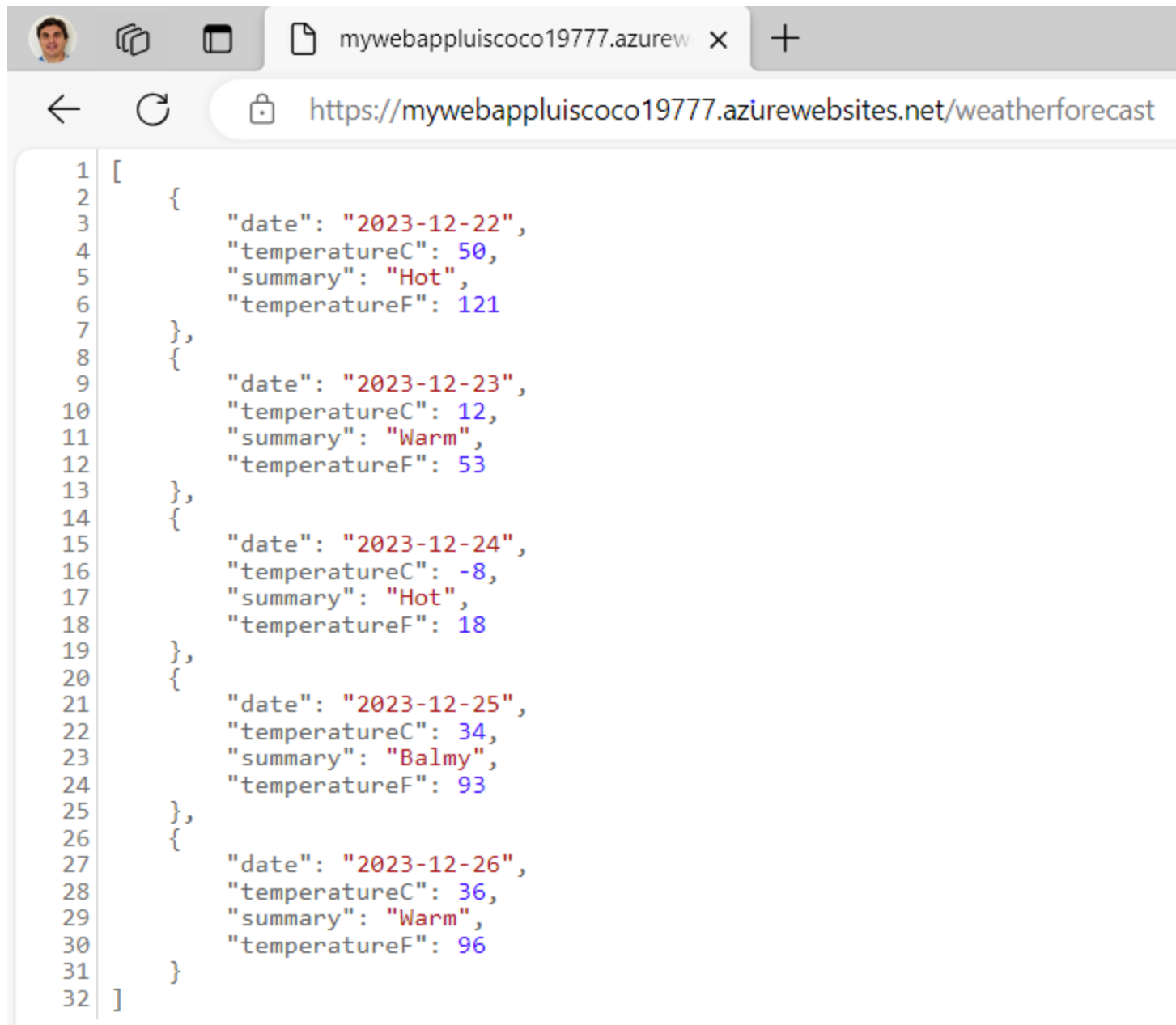If we enter in the WebApp we can see the new application default domain name "mywebappluiscoco19777.azurewebsites.net"

We verify the new Web API application introducing the endpoint in the internet web browser.

The endpoint is composed by the web application default domain name ("mywebappluiscoco19777.azurewebsites.net") plus the api endpoint name ("weatherforecast")

https://mywebappluiscoco19777.azurewebsites.net/weatherforecast

```
1  [
2      {
3          "date": "2023-12-22",
4          "temperatureC": 50,
5          "summary": "Hot",
6          "temperatureF": 121
7      },
8      {
9          "date": "2023-12-23",
10         "temperatureC": 12,
11         "summary": "Warm",
12         "temperatureF": 53
13     },
14     {
15         "date": "2023-12-24",
16         "temperatureC": -8,
17         "summary": "Hot",
18         "temperatureF": 18
19     },
20     {
21         "date": "2023-12-25",
22         "temperatureC": 34,
23         "summary": "Balmy",
24         "temperatureF": 93
25     },
26     {
27         "date": "2023-12-26",
28         "temperatureC": 36,
29         "summary": "Warm",
30         "temperatureF": 96
31     }
32 ]
```