

# WebAPI2CLI

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# WebAPI2CLI

## Execute ASP.NET Core WebAPI from Command Line



## How to use ( for .NET Core 3.1 )

## Step 0 : install into your ASP.NET Core Web

Install the package <https://www.nuget.org/packages/ExtensionNetCore3>

Modify your ASP.NET Core as below:

```
public void ConfigureServices(IServiceCollection services)
{
    services.AddCLI();
}
```

```

//your code omitted
}
public void Configure(IApplicationBuilder app, IWebHostEnvironment env)
{
    app.UseCLI();
    //your code omitted
}

```

And that is all modifications that you need to do for the source code.

## Step 1 - find and save the definition of the commands, i.e. WebAPI endpoints

First, you must generate the definition of the commands. For this, we take the OPEN API (swagger ) approach.

For this, after you compile the project, you will run your .exe program with arguments:

```
< myexe >.exe --CLI_ENABLED=1 --CLI_HELP=1
```

( or make this from *Visual Studio, Project, Properties, Debug* )

This will generate a *cli.txt* file with all definitions of the WebAPI. ( if your API does not appear, check if you have *ApiController* defined)

Open your *cli.txt* file and modify the names of the commands as you wish (also , the arguments )

Copy this *cli.txt* in your solution and be sure that is copied with the exe ( in Visual Studio right click the file, properties, Build Action = Content, CopyToOutputDirectory = Copy if newer)

## Step 2 - run the commands

Ensure that the file is near your exe WebAPI.

Run the exe with the following:

```
< myexe >.exe --CLI_ENABLED=1 --CLI_Commands="your first command,your second command, and enumerate all commands"
```

The program will run the commands and output the result.

More details here:

<https://ignatandrei.github.io/WebAPI2CLI/>

## **F.A.Q.**

### **Will my WebAPI work as before?**

The software takes care about

`--CLI_ENABLED=1`

If you do not have this command, your website runs as before

### **I want to run as a CLI and then use the WebAPI as before. Could I do that?**

Yes. Use

```
< myexe >.exe --CLI_ENABLED=1 --CLI_Commands="your first com-  
mand,your second command" --CLI_STAY=1
```

### **I found a bug / I need a feature . Where can I report ?**

All code source is at <https://github.com/ignatandrei/WebAPI2CLI/>

You can report problems at <https://github.com/ignatandrei/WebAPI2CLI/issues>

### **Where can I download this document ?**

There is a PDF at <https://ignatandrei.github.io/WebAPI2CLI/Web2CLI.pdf>