

DEVOPS

DIA 7 DE 10





Augusto Nunes
PSM, MCT, OCA, OCP, MCSD



augustonunes



Augusto Nunes



augusto.cbn

DOCKER PARTE 2



DOCKER – SUMÁRIO

- Principais Comandos
- Encaminhamento de Portas
- Docker no Visual Studio
- Azure DevOps
- Laboratórios



DOCKER

PRINCIPAIS COMANDOS

DOCKER – PRINCIPAIS COMANDOS – DOCKER INFO

```
c:> docker info
```

Lista informações de sistema sobre a instalação do docker.

DOCKER – PRINCIPAIS COMANDOS – DOCKER RUN

```
c:> docker run -it --rm [nome da imagem]  
c:> docker run -it --rm --entrypoint "cmd.exe" [nome da imagem]
```

- it realiza o attach ao contêiner criado
- rm remove o contêiner ao término da execução
- entrypoint altera o comando a ser executado na partida do contêiner.

Cria e executa um novo contêiner (docker create + docker start + docker container rm + docker attach).

DOCKER – PRINCIPAIS COMANDOS – DOCKER PULL

```
c:> docker pull [nome da imagem]:tag
```

tag *"versão" da imagem a ser baixada.*

Realiza o download de um repositório ou imagem de um registro.

DOCKER – PRINCIPAIS COMANDOS – DOCKER IMAGE TAG

```
c:> docker image tag [nome da imagem] [seu id do docker]/[nome da imagem]
```

[seu id do docker] *id no docker hub.*

[nome da imagem] nome da imagem a ser enviada ao docker hub.

Para enviar uma imagem local para o registro, é preciso identificá-la com o nome de uma conta particular no repositório remoto.

DOCKER – PRINCIPAIS COMANDOS – DOCKER PUSH

```
c:> docker image push [seu id do docker]/[nome da imagem]
```

[seu id do docker] *id no docker hub.*

[nome da imagem] nome da imagem a ser enviada ao docker hub.

Realiza o upload de uma imagem para o docker hub.



DOCKER

LABORATÓRIOS 7 E 8

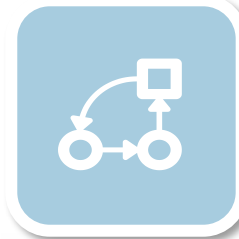


DOCKER

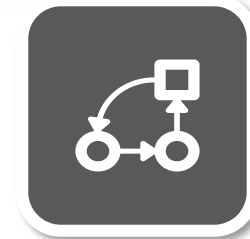
ENCAMINHAMENTO DE PORTAS

DOCKER – ENCAMINHAMENTO DE PORTAS

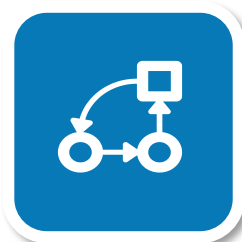
Programas que executam em um contêiner são isolados de outros programas que trabalham na mesma máquina.



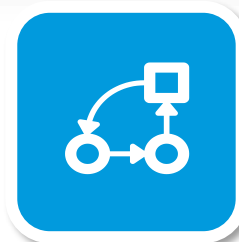
Os contêineres possuem portas privadas.



Para se conectar a um contêiner, é necessário fazer o encaminhamento de uma porta da máquina para o contêiner.



O comando **docker container run**, possui o parâmetro **-p**, que possibilita a realização desse encaminhamento.



DOCKER – ENCAMINHAMENTO DE PORTAS

```
c:> docker run -p 9999:8888 --name mycontainer repo/imagem:tag
```

Porta do host

Nome do
contêiner a
ser criado

Porta do container

Nome da
imagem no
registro



DOCKER

LABORATÓRIOS 9



DOCKER


VISUAL STUDIO


DOCKER – VISUAL STUDIO – SUPPORT


Create a new ASP.NET Core web application


.NET Core


ASP.NET Core 3.1


**Empty**
An empty project template for creating an ASP.NET Core application. This template does not have any content in it.

**API**
A project template for creating an ASP.NET Core application with an example Controller for a RESTful HTTP service. This template can also be used for ASP.NET Core MVC Views and Controllers.

**Web Application**
A project template for creating an ASP.NET Core application with example ASP.NET Razor Pages content.

**Web Application (Model-View-Controller)**
A project template for creating an ASP.NET Core application with example ASP.NET Core MVC Views and Controllers. This template can also be used for RESTful HTTP services.

**Angular**
A project template for creating an ASP.NET Core application with Angular

**React.js**

Authentication
No Authentication
[Change](#)

Advanced
☐ Configure for HTTPS
☒ **Enable Docker Support**
(Requires [Docker Desktop](#))

Linux

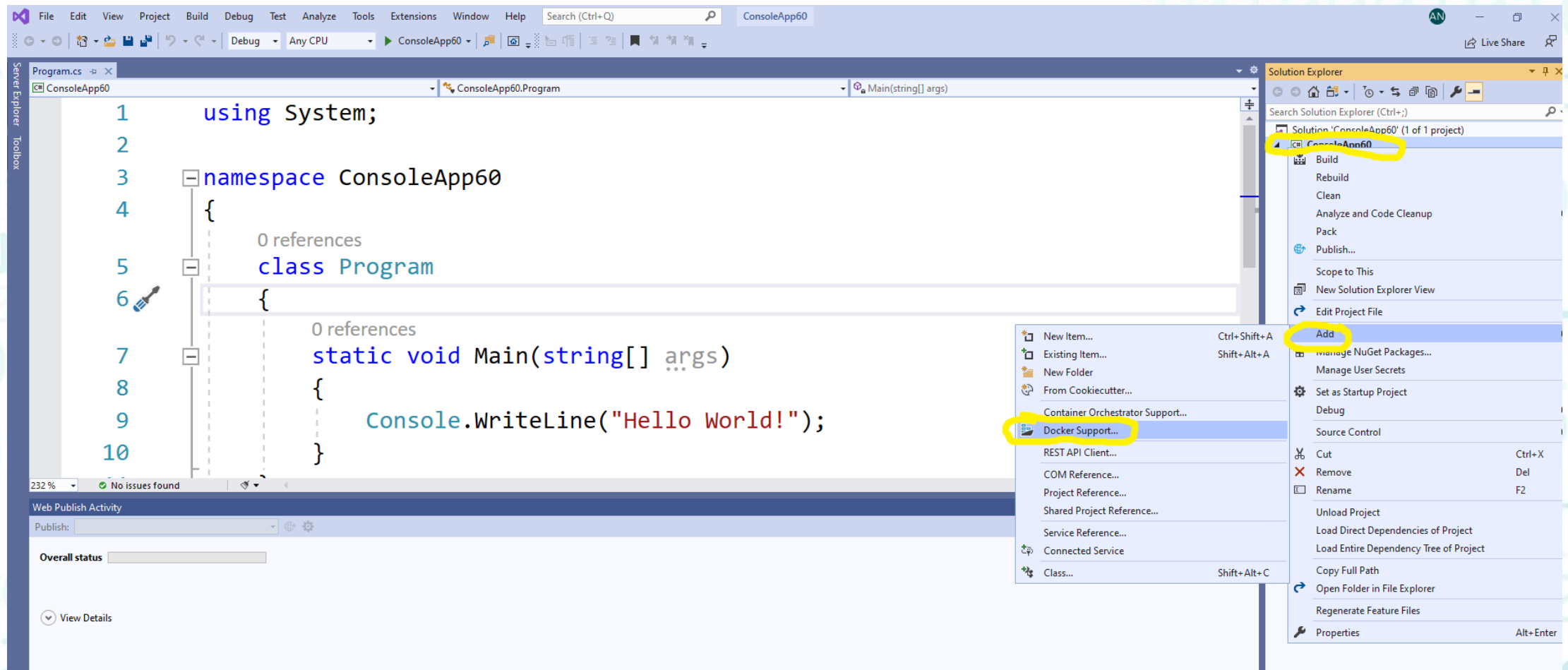
Author: Microsoft
Source: Templates 3.1.5

[Get additional project templates](#)

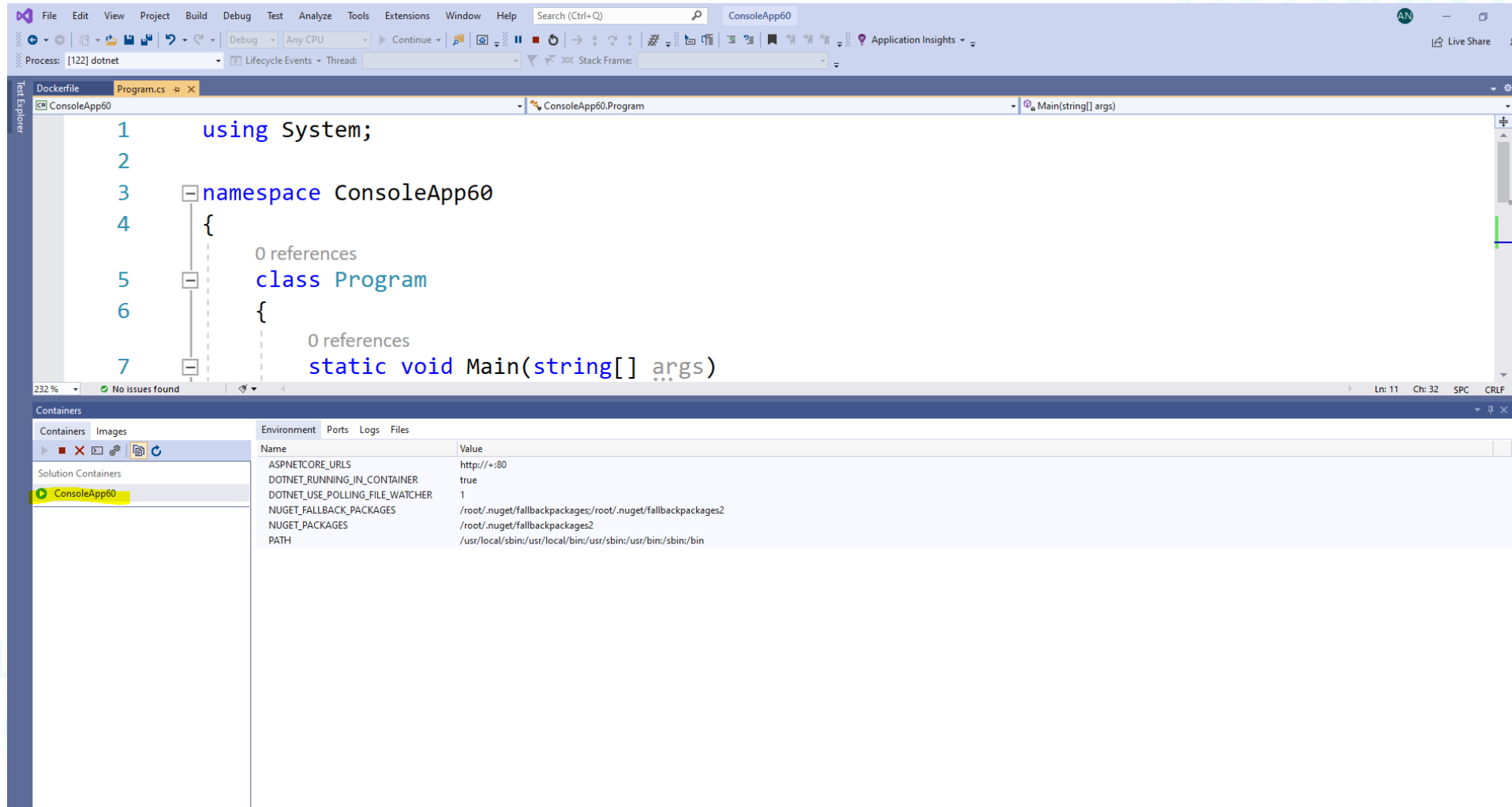
Back

Create

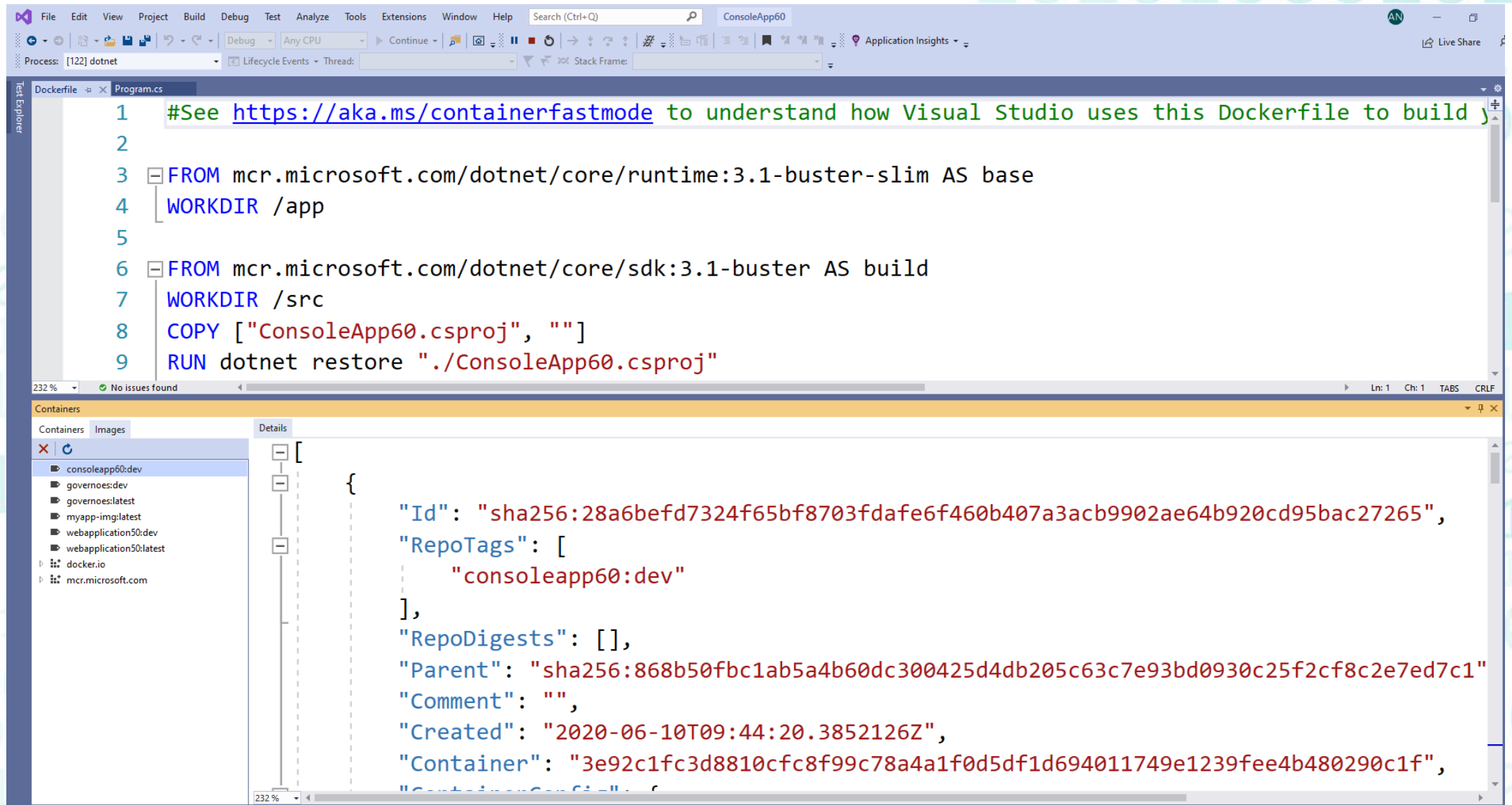
DOCKER – VISUAL STUDIO – SUPPORT



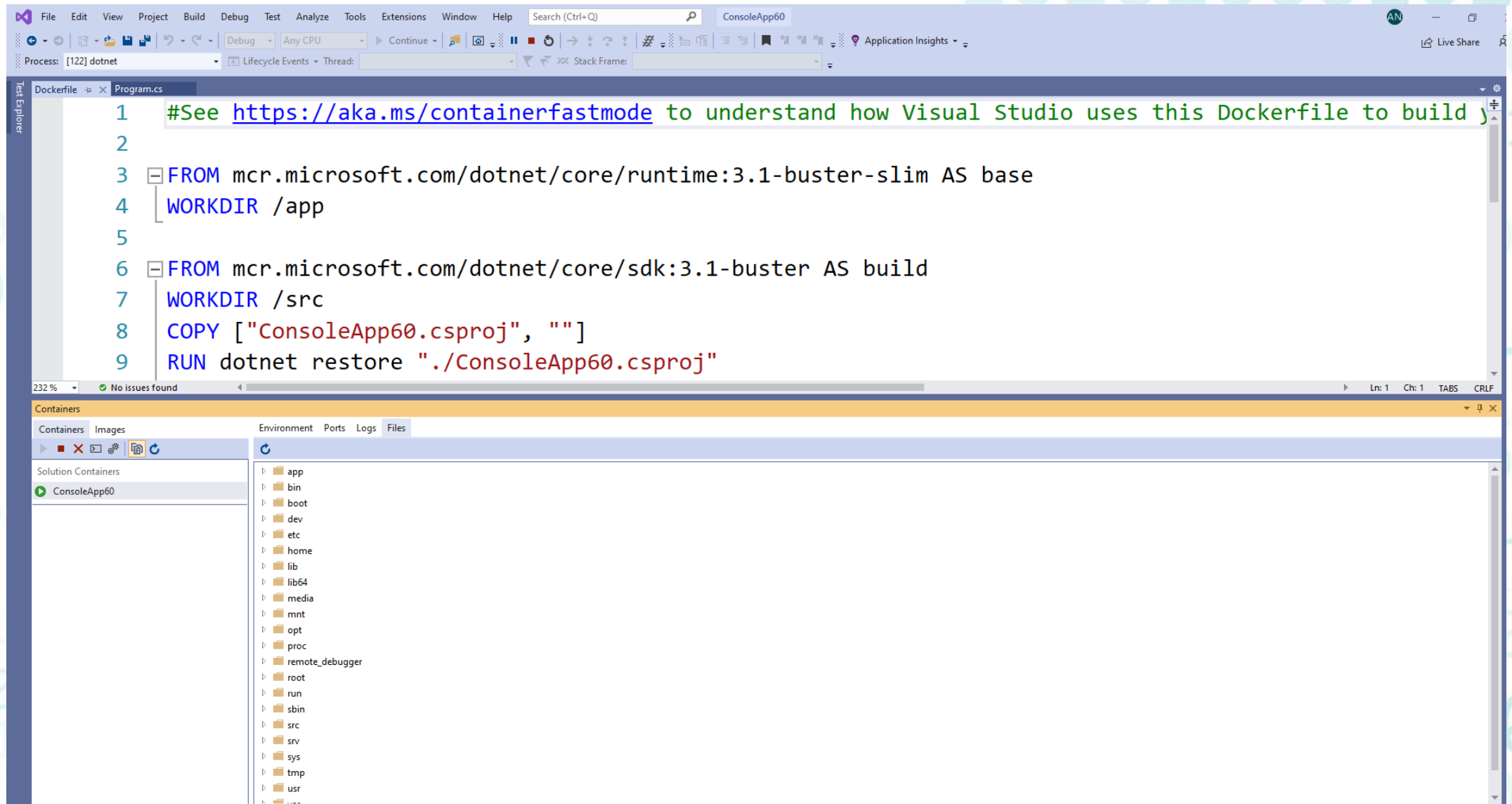
DOCKER – VISUAL STUDIO – RUNNING



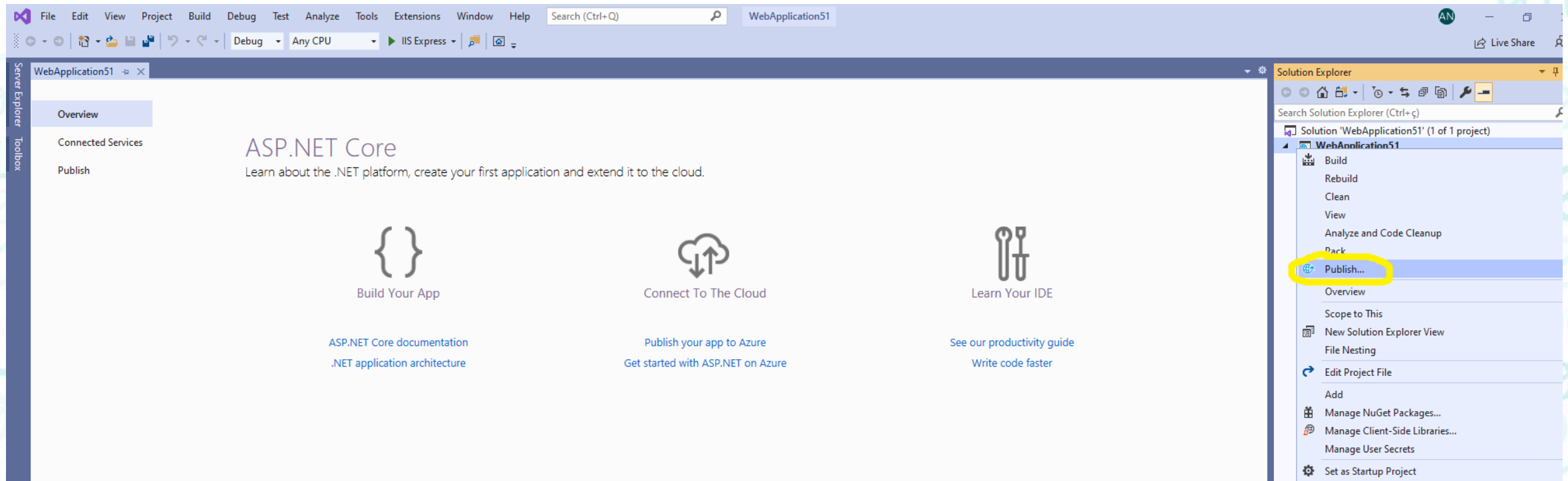
DOCKER – VISUAL STUDIO – RUNNING



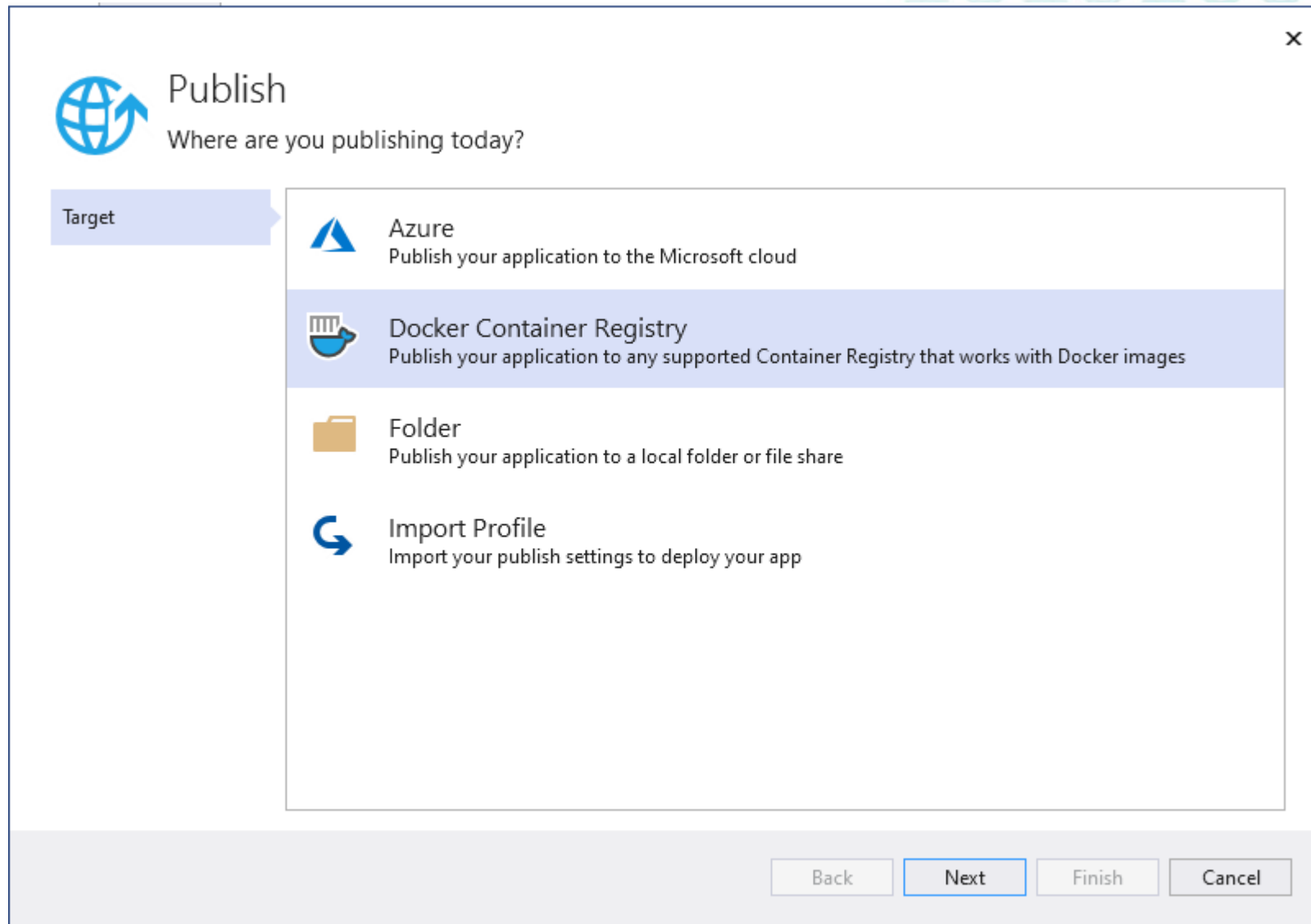
DOCKER – VISUAL STUDIO – RUNNING




DOCKER – VISUAL STUDIO – PUBLISH



DOCKER – VISUAL STUDIO – PUBLISH



DOCKER – VISUAL STUDIO – PUBLISH





Publish


Which Container Registry you would like to use to host your application?

Target

Specific target

**Azure Container Registry**
Publish your application as a Docker image to Azure Container Registry

**Docker Hub**
Publish your application as a Docker image to Docker Hub

**Other Docker Container Registry**
Publish your application as a Docker image to any supported Container Registry


Back

Next

Finish

Cancel

DOCKER – VISUAL STUDIO – PUBLISH



Publish

Enter publish credentials

Target

☒ Publish to a personal repository

Specific target

User name

Container Registry

Password

(Password is optional. Leave empty if the password is available in the docker config.)

Back

Next

Finish

Cancel

DOCKER – VISUAL STUDIO – PUBLISH

Connected Services

Publish

Publish

Deploy your app to a folder, IIS, Azure, or another destination. [More info](#)

registry.hub.docker.com_augustocbn

Publish

[New](#) [Rename](#) [Delete](#)

Summary

Actions

Image Tag

latest

Repository

<https://registry.hub.docker.com/augustocbn>

Edit Image Tag

☐ Generate tag on publish

☒ Custom tag

latest

OK

Cancel



DOCKER

LABORATÓRIO 10



DOCKER

AZURE DEVOPS



DOCKER

LABORATÓRIO 11