Containerize a .NET application

Prerequisites

- You have installed the latest version of <u>Docker Desktop</u>.
- You have a <u>git client</u>. The examples in this section use a command-line based git client, but you
 can use any client.

Overview

This section walks you through containerizing and running a .NET application.

Get the sample applications

In this guide, you will use a pre-built .NET application. The application is similar to the application built in the Docker Blog article, Building a Multi-Container .NET App Using Docker Desktop .

Open a terminal, change directory to a directory that you want to work in, and run the following command to clone the repository.

\$ git clone https://github.com/docker/docker-dotnet-sample

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you'll need to answer a few questions about your application. Refer to the following example to answer the prompts from docker init and use the same answers for your prompts.

\$ docker init Welcome to the Docker Init CLI!
This utility will walk you through creating the following files with sensible defaudockerignore - Dockerfile - compose.yaml - README.Docker.md
Let's get started!
? What application platform does your project use? ASP.NET Core ? What's the name of your solution's main project? myWebApp ? What version of .NET do you want to use? 6.0 ? What local port do you want to use to access your server? 8080
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You should now have the following contents in your docker-dotnet-sample directory.

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Run the application

Inside the docker-dotnet-sample directory, run the following command in a terminal.

\$ docker compose up --build

Open a browser and view the application at http://localhost:8080. You should see a simple web application.

In the terminal, press ctrl + c to stop the application.

Run the application in the background

You can run the application detached from the terminal by adding the -d option. Inside the docker-dotnet-sample directory, run the following command in a terminal.

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Give feedback

Open a browser and view the application at http://localhost:8080. You should see a simple web application.

In the terminal, run the following command to stop the application.

\$ docker compose down

For more information about Compose commands, see the **Compose CLI reference**.

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- .dockerignore file reference
- Docker Compose overview

Next steps

In the next section, you'll learn how you can develop your application using Docker containers.

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