**Playing with Docker (45’)**

**Exercise 1**

In this exercise, you must create a .NET API, package it as a container and test it using your browser as well as calling the API endpoint from the container itself. You can use either Visual Studio, either Visual Studio Code to create your .NET API project.

You must respect the following constraints:

* You must build the container manually using docker build. You cannot rely on Visual Studio (Code)’s automated build.
* The container must listen on port 8080
* You must include the CURL command line tool along with your .NET API
* You must exec into the container and call the API endpoint from within it

Tips:

* You need an IDE to create the API. You can stick to Visual Studio’s default template
* You’ll have to use docker build
* You’ll have to use docker run

**Exercise 2**

You must call your existing API using CURL from another container, based on the yauritux/busybox-curl image. Both the busybox and the API must belong to the **same** docker network.

Tips:

* You’ll have to look at the docker network command