# INDIVIDUAL ASSIGNMENT

# ICT & Infrastructure S2 | Connecting & Provisioning, week 12

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## Introduction

During the Week 12 lesson you saw how to create a Docker container using dockerfile template. For the homework assignment, you must build a Docker image which uses your previous (web) project from S2 or S1. Later, publish it to Docker Hub, so anyone can see the awesome project you made.

This is **individual** assignment.

### Assignment 1. Create "dockerfile" for your personal project

### Difficulty: ★★★★☆.

**Note**: If you still did not do that, install Docker Desktop from <https://docs.docker.com/get-started/>. After installation, complete the tutorial to learn how to build your own Docker images with "dockerfile".

Create and test "dockerfile" that contains your (preferably) web project from S1 or S2. It can be Flask app, HTML website, API, etc. Build and Run the project to test it.

Provide screenshots (evidence) for your solution. Always explain your evidence!

* dockerfile content
* Docker image name (available in Docker Hub)

|  |
| --- |
| *Evidence/solution:* |

Graphical user interface, text, application, email

Description automatically generatedFirst, created a folder with a “Dockerfile” with an Ubuntu image, then installed nginx (webserver hosting)

exposed port 80(default port for webservers)

using CMD, I specify the commands needed to launch nginx.



Afterwards, opened a command prompt in the folder that contains the docker file.

Built docker image using the command above^^.

Graphical user interface, application

Description automatically generated

After the image is built, it will show up in the docker GUI. Here I clicked on the “Run” button and added the following settings:

* To ports, added “80” to specify the port on which the website will appear.
* In the Volumes tab, mounted a folder from the host PC that contains the website files to the container folder “/var/www/html” (Ngix’s default for website files).

A screenshot of a computer

Description automatically generated

After clicking “Run” again, typed “localhost:80” in a browser and the custom website will show up.

Graphical user interface, application

Description automatically generated

Uploaded to Hub using this drop down menu

A screenshot of a computer

Description automatically generated

Changed the name to be more descriptive before uploading