

# Nano Project 201 - Write a Dockerfile for a .NET Core app

Now that you are equipped with all the essential Dockerfile instructions, as well as with the process, you are now tasked with building and publishing a docker image for a .NET Core application which is available as part of the same repository. For your reference the app is here [dotnetcore-samples/dotnetapp at master · initcron/dotnetcore-samples · GitHub](#).

Following are the general steps to build this application

- Copy over the source code to the development environment which has SDK installed
- Restore .NET layers with `dotnet restore` command
- Publish the application at /app path eg. `dotnet publish -c release -o /app`
- Launch it using `dotnet dotnetapp.dll`

Following is the Dockerfile scaffold which is available as part of this repo.

file: dotnetapp/Dockerfile

```
FROM mcr.microsoft.com/dotnet/core/sdk:3.1 AS build
WORKDIR /source

# TODO: Copy source code to workdir
COPY

# TODO: Restore Dot Net Layers
RUN

WORKDIR /source/dotnetapp

# TODO: publish app and libraries to /app path
RUN

WORKDIR /app

# Launch .NET app by providing the command
CMD
```

The deliverable for this project is you should have a

- Working Dockerfile
- An image published at Docker Registry

#docker/windows/labs

#docker/windows/project/dockerfile