# Docker Training Document – Dockerize Vue.js App

This document will teach you how to develop a docker image with VUE.js installed.

## Useful links:

1. Link to VUE.js webpack template: <https://github.com/vuejs-templates/webpack>

# Step 1:

Once downloaded link 1 create a Dockerfile in the root folder of the project.

In the docker file paste this code into it.

FROM node:lts-alpine

# install simple http server for serving static content

RUN npm install -g http-server

# make the 'app' folder the current working directory

WORKDIR /app

# copy both 'package.json' and 'package-lock.json' (if available)

COPY package\*.json ./

# install project dependencies

RUN npm install npm

# copy project files and folders to the current working directory (i.e. 'app' folder)

COPY . .

# build app for production with minification

RUN npm run build

EXPOSE 8080

CMD [ "http-server", "dist" ]

It may seem redundant to first copy the package.json and package-lock.json and then all the project files folders in two separate steps, but there is a good reason for that. It allows us to take advantage of cached docker layouts.

# Step 2:

We are now going to be building the docker image of our VUE.js app

In the command prompt or terminal of your coding software, paste this line of code in:

docker build -t vuejs-cookbook/dockerize-vuejs-app .

Note: If in command prompt please go into the file location before running this line otherwise it will not work.

This will take several seconds to complete.

# Step 3:

We are going to run our VUE.js app in the docker container. To access this paste this command into the terminal or command prompt.

docker run -it -p 8080:8080 --rm --name dockerize-vuejs-app-1 vuejs-cookbook/dockerize-vuejs-app

After this has been run we should be able to access the app on localhost:8080.

Notes for future students:

When running step 2, everything works up until

RUN npm run build

Where it fails, however after looking into this with great detail I was unable to find out why it wasn’t able to work as other people have done the same thing with the same line of code which worked for them but not for me. Because of this I was unable to properly finish the project and get it fully running and operational.