Project Title: Deploy Angular Application in Docker Container

Note: This is a solution document on how the demonstration is performed on Docker 18. + Version.

Install Angular application on Ubuntu by running the commands mentioned below:

sudo apt-get update

curl -sL https://deb.nodesource.com/setup_10.x | sudo -E bash -

apt-get install -y nodejs

npm install -g @angular/cli

ng new myAng-app

cd myAng-app

Navigate inside the project, and create a Dockerfile.

vi Dockerfile

Now add the following content to it.

```
# base image
FROM node:12


# set working directory
RUN mkdir /usr/src/app

WORKDIR /usr/src/app


# add `/usr/src/app/node_modules/.bin` to $PATH
ENV PATH /usr/src/app/node_modules/.bin:$PATH


# install and cache app dependencies
COPY package.json /usr/src/app/package.json

RUN npm install

RUN npm install -g @angular/cli@1.7.1


# add app
```

```
COPY . /usr/src/app


# start app

CMD ng serve --host 0.0.0.0
```

Build and tag the docker image.

docker build -t myangularapp .

Exit the execution of application, and now run the Angular application in docker detach mode.

docker run -d -p 4200:4200 myangularapp

Now, open the browser, and you should be able to run the application in the browser by navigating to the URL mentioned below.

http://localhost:4200

You will be able to load the Angular application page in your browser.

Now, check if the container is running.

docker images