CI CD pipe line for Angular js

Installation

* Jenkins
* NodeJs and npm(according to the version of the program)
* Github
* Docker

Stage 1: cloning the repository

Stage 2: testing the application

* Install npm
* Npm test

Stage 3: Build docker

Stage 4: Deploy that is pulling the image

Stage 5: clean

**Dockerfile in the application**

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### build ###

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# base image

FROM node:12.2.0 as build

# set working directory

WORKDIR /app

# add `/app/node\_modules/.bin` to $PATH

ENV PATH /app/node\_modules/.bin:$PATH

# install and cache app dependencies

COPY package.json /app/package.json

RUN npm install

RUN npm install -g @angular/cli@7.3.9

# add app

COPY . /app

# generate build

RUN ng build --output-path=dist

############

### prod ###

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# base image

FROM nginx:1.16.0-alpine

# copy artifact build from the 'build environment'

COPY --from=build /app/dist /usr/share/nginx/html

# expose port 80

EXPOSE 80

# run nginx

CMD ["nginx", "-g", "daemon off;"]

**.dockerignore** file in the application

node\_modules

.git

.gitignore

Step1 install

npm install -g @angular/cli@7.3.9

step2 build

docker build -t <project name> .

step3 list of docker

docker image ls

step4 run docker

docker run -d -p 8080:80 --name foo --rm sandbox

for killing the process

docker kill <continer id>