// BEFORE


```dockerfile
# Install node
FROM node

ENV REACT_APP_BACKEND_URL=http://localhost:8080/

WORKDIR /usr/src/app

EXPOSE 5000

# follow example node install instructions for LTS node 14.x on git
RUN curl -sL https://deb.nodesource.com/setup_14.x | bash
RUN apt install -y nodejs

# check install with node -v && npm -v
RUN node -v && npm -v

# Copy all of the content from the project to the image
COPY . .

# install all packages with npm install
RUN npm install

# run the project
# build the static files with npm run build to generate them into build folder
RUN npm run build

# Use npm package called serve to serve the project in port 5000
RUN npm install -g serve

#add an user "frontenduser"
RUN useradd -m frontenduser

#change user with the directive USER
USER frontenduser

# CMD echo $REACT_APP_BACKEND_URL
CMD ["serve", "-s", "-l", "5000", "build"]
```

dockerfile example-backend ✕

example-backend > 🐳 dockerfile > ...

```dockerfile
1    # Install golang 1.16
2    FROM golang:1.16
3
4    # REQUEST_ORIGIN to pass an url through the cors check
5    ENV REQUEST_ORIGIN=http://localhost:5000
6
7    WORKDIR /usr/src/app
8
9    # project runs in a docker container with port 8080 published
10   EXPOSE 8080
11
12   COPY . .
13
14   # Run go build. It will generate a binary named "server"
15   RUN go build .
16
17   #add an user "backenduser"
18   RUN useradd -m backenduser
19
20   #change user with the directive USER
21   USER backenduser
22
23   # Execute the file
24   # CMD echo $REQUEST_ORIGIN
25   CMD ["./server"]
26
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
frontend	latest	97b41f80be71	29 minutes ago	1.34GB
backend	latest	338f36102152	34 minutes ago	1.07GB

// AFTER

```dockerfile
FROM ubuntu:18.04

ENV REACT_APP_BACKEND_URL=http://localhost:8080/

WORKDIR /usr/src/app

EXPOSE 5000

COPY . .


RUN apt-get update && apt-get install -y curl && \
    curl -sL https://deb.nodesource.com/setup_lts.x | bash - && \
```

```
    apt install -y nodejs  && \
    npm install && \
    npm run build && \
    apt-get purge -y --auto-remove curl && \
    rm -rf /var/lib/apt/lists/* && \
    useradd -m frontenduser

USER frontenduser

CMD ["serve", "-s", "-l", "5000", "build"]
```

```
REPOSITORY    TAG       IMAGE ID        CREATED           SIZE
frontend      latest    38ab3eaf84e5    24 minutes ago    448MB
```

```
FROM ubuntu:18.04

ENV REQUEST_ORIGIN=http://localhost:5000

WORKDIR /usr/src/app

EXPOSE 8080

COPY . .

RUN apt-get update && apt-get install -y --no-install-recommends wget ca-
certificates && \
    # apt-get install -y --no-install-recommends ca-certificates && \
    wget https://dl.google.com/go/go1.13.linux-amd64.tar.gz && \
    tar -C /usr/local -xzf go1.13.linux-amd64.tar.gz && \
    rm go1.13.linux-amd64.tar.gz && \
    /usr/local/go/bin/go build . && \
    apt-get purge -y --auto-remove wget && \
    apt-get purge -y --auto-remove ca-certificates && \
    rm -rf /var/lib/apt/lists/* && \
    useradd -m backenduser

USER backenduser

CMD ["./server"]
```

```
REPOSITORY    TAG       IMAGE ID        CREATED           SIZE
backend       latest    f1c9493dec2b    4 seconds ago     524MB
```