# Dockerfile from node 16.19.1

## 1-dockerfile:

# A-description:

use an officiel node as a parent image to:

- set working directory
- install nginx
- Remove default Nginx configuration
- copy the application code inside container
- Copy package.json
- Install app dependencies
- copy nginx cofiguration file
- change the owner of the var/www/html directory to node

#### B-code:

FROM node:16.19.1 USER root # Create a directory for the app WORKDIR /var/www/html

# Install Nginx
RUN apt-get update && \
apt-get install -y nginx

# Remove default Nginx configuration RUN rm /etc/nginx/sites-enabled/default

# Copy app file ADD ./ /var/www/html

# Copy package.json and package-lock.json COPY ./package\*.json /var/www/html RUN rm -rf node\_modules

# Install app dependencies RUN npm install

RUN chmod -R 777 /var/www/html

# Copy custom Nginx configuration

```
RUN chown -R node:node /var/www/html EXPOSE 80

# Start Nginx and the app
CMD service nginx start && npm start
```

## 2-nginx configuration file:

# A-Description:

- nginx: is open-source web server software:
   performance and scalability
   can be configured as reverse proxy server, A load
   balancer, API gateway, firewall for web applications,
- This is an Nginx configuration file to listen on port 80: must listen for HTTP connections. and responds the requests by server name: localhost
- NGINX's location setting help for NGINX responds to requests for resources inside the server

## B-code:

```
server {
  listen 80:
  server_name localhost;
  root /var/www/html/out;
  index index.html index.htm;
  try_files $uri $uri//index.html;
  location / next/static {
       alias /var/www/html/out/_next/static;
       add_header Cache-Control "public, max-age=3600, immutable";
  location / {
  # reverse proxy for next server
       proxy_pass http://localhost:3000;
       proxy_http_version 1.1;
       proxy_set_header Upgrade $http_upgrade;
       proxy_set_header Connection 'upgrade';
       proxy_set_header Host $host;
       proxy_cache_bypass $http_upgrade;
       proxy_set_header X-Real-IP $remote_addr;
       proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
       proxy_set_header X-Forwarded-Proto $scheme;
```

```
location ~ /.well-known {
   allow all;
}
```