

A Simple Http server docker image with node express

Step1: create a docker file with command "touch Dockerfile"

Add the following contents to it.

```
FROM node:22-alpine3.19

WORKDIR /app

COPY index.js /app
COPY package.json /app

RUN npm install

EXPOSE 3000
CMD [ "npm", "start" ]
```

Step2: build the docker image.

“docker image build --tag node-app:v1 .”

```
~/Workspace/assignments/as x + v - □ x
02:34:32 javascript
main [!?] # docker image build --tag node-app:v1 .
[+] Building 28.6s (10/10) FINISHED docker:desktop-linux
=> [internal] load build definition from Dockerfile 0.0s
=> => transferring dockerfile: 182B 0.0s
=> [internal] load metadata for docker.io/library/node:22-alpine3.19 3.3s
=> [internal] load .dockerignore 0.0s
=> => transferring context: 2B 0.0s
=> [1/5] FROM docker.io/library/node:22-alpine3.19@sha256:67225d40d3fb36 17.9s
=> => resolve docker.io/library/node:22-alpine3.19@sha256:67225d40d3fb363 0.0s
=> => sha256:b84a74cde5af5c5199bfc2ce2a8c8951a29a7716d173 3.42MB / 3.42MB 2.3s
=> => sha256:65ec27a45de05ecb7cd6218dc92ae37648c48181e 47.30MB / 47.30MB 14.6s
=> => sha256:df233813a55c17fdb83284e7fb9a68422ed1919ca41e 1.39MB / 1.39MB 2.6s
=> => sha256:67225d40d3fb36314e392846effda04b95c973bf52e4 6.43kB / 6.43kB 0.0s
=> => sha256:9a9af034552332dca0ce4d1ac1ac4e8c857318bf2b52 1.72kB / 1.72kB 0.0s
=> => sha256:139f0370d3881a8a49e94c0d8157633c9ad4bead0036 6.38kB / 6.38kB 0.0s
=> => extracting sha256:b84a74cde5af5c5199bfc2ce2a8c8951a29a7716d17327e92 0.3s
=> => sha256:ded58c4aee25f74124bb056fc8d8b83e8c53f400a08cfc27 447B / 447B 2.7s
=> => extracting sha256:65ec27a45de05ecb7cd6218dc92ae37648c48181e92babc9d 2.8s
=> => extracting sha256:df233813a55c17fdb83284e7fb9a68422ed1919ca41e698b7 0.1s
=> => extracting sha256:ded58c4aee25f74124bb056fc8d8b83e8c53f400a08cfc278 0.0s
=> [internal] load build context 0.0s
=> => transferring context: 593B 0.0s
=> [2/5] WORKDIR /app 0.4s
=> [3/5] COPY index.js /app 0.1s
=> [4/5] COPY package.json /app 0.0s
=> [5/5] RUN npm install 6.4s
=> exporting to image 0.3s
=> => exporting layers 0.2s
=> => writing image sha256:6ea909894a30d619da436538ddaabec4ce11092945d4ff 0.0s
=> => naming to docker.io/library/node-app:v1 0.0s

What's next:
View a summary of image vulnerabilities and recommendations → docker scout quickview
```

Step3: run the image in container

“docker container run -p 8080:3000 --name express-server node-app:v1”

