

Visual Studio Code interface showing a Dockerfile for building a web application. The Dockerfile includes instructions for setting the base image, working directory, copying files, installing dependencies, and running the application.

```
1 # Etap pierwszy - budowa aplikacji webowej
2 FROM node:alpine AS builder
3 WORKDIR /usr/app
4 COPY ./package.json ./
5 COPY ./app.js ./
6 ARG VERSION
7 ENV APP_VERSION=version.${VERSION:-v1}
8 RUN npm install && \
9     echo "VERSION=SAPP_VERSION" > .env
10
11 EXPOSE 8080
12
13 CMD ["npm", "start"]
14
15 # Etap drugi - obraz Nginx z aplikacja
16 FROM nginx:latest
17 COPY --from=builder /usr/app /usr/share/nginx/html
18 COPY default.conf /etc/nginx/conf.d/default.conf
19 RUN apt-get update && \
20     apt-get install -y curl && \
21     apt-get clean
22 EXPOSE 80
23 HEALTHCHECK --interval=10s --timeout=1s \
24     CMD curl -f http://localhost/ || exit 1
25 CMD ["nginx", "-g", "daemon off;"]
```

Terminal window showing the output of the Docker build process. The output displays the progress of building the image, including the installation of dependencies and the final image creation.

```
[+] Building 2.2s (13/14)
=> [internal] load .dockerignore 0.0s
=> => transferring context: 2B 0.0s
=> [internal] load build definition from Dockerfile 0.1s
=> => transferring Dockerfile: 681B 0.0s
=> [internal] load metadata for docker.io/library/nginx:latest 1.4s
=> [internal] load metadata for docker.io/library/node:alpine 2.0s
=> CACHED [builder 1/5] FROM docker.io/library/node:alpine@sha256:4559bc0333389 0.0s
=> [stage-1 1/4] FROM docker.io/library/nginx:latest@sha256:480868e8c7 0.0s
=> [internal] load build context 0.0s
=> => transferring context: 216B 0.0s
=> [builder 2/5] WORKDIR /usr/app 0.1s
=> CACHED [builder 3/5] COPY ./package.json ./ 0.0s
=> CACHED [builder 4/5] COPY ./app.js ./ 0.0s
=> CACHED [builder 5/5] RUN npm install && echo "VERSION=version.1.0" > .env 0.0s
=> CACHED [stage-1 2/4] COPY --from=builder /usr/app /usr/share/nginx/html 0.0s
=> ERROR [stage-1 3/4] COPY default.conf /etc/nginx/conf.d/default.conf 0.0s
-----
> [stage-1 3/4] COPY default.conf /etc/nginx/conf.d/default.conf:
-----
Dockerfile:18
16 | FROM nginx:latest
17 | COPY --from=builder /usr/app /usr/share/nginx/html
18 | >>> COPY default.conf /etc/nginx/conf.d/default.conf
19 | RUN apt-get update && \
20 | apt-get install -y curl && \
-----
ERROR: failed to solve: failed to compute cache key: failed to calculate checksum of ref noby::5xxx9ghzya78dpnuizfy03g: "/default.conf": not found
root@ubuntu1:/home/kacper/lab5_dobre# docker build --build-arg VERSION=1.0 -f Dockerfile -t moja_aplikacja:1.0
[+] Building 30.1s (15/15) FINISHED
=> [internal] load build definition from Dockerfile 0.0s
=> => transferring context: 2B 0.0s
=> [internal] load .dockerignore 0.0s
=> [internal] load metadata for docker.io/library/nginx:latest 0.7s
=> [builder 1/5] FROM docker.io/library/node:alpine@sha256:4559bc0333389 0.0s
=> CACHED [stage-1 1/4] FROM docker.io/library/nginx:latest@sha256:480868e8c7 0.0s
=> [internal] load build context 0.0s
=> => transferring context: 628B 0.0s
=> CACHED [builder 2/5] WORKDIR /usr/app 0.0s
=> [builder 3/5] COPY ./package.json ./ 0.1s
=> [builder 4/5] COPY ./app.js ./ 0.1s
=> [builder 5/5] RUN npm install && echo "VERSION=version.1.0" > .env 9.2s
=> [stage-1 2/4] COPY --from=builder /usr/app /usr/share/nginx/html 0.1s
=> [stage-1 3/4] COPY default.conf /etc/nginx/conf.d/default.conf 0.1s
=> [stage-1 4/4] RUN apt-get update && apt-get install -y curl && 18.7s
=> exporting to image 0.2s
=> => exporting layers 0.2s
=> => writing image sha256:98028e95c2d4dea4d478a91287697904c3432a8fefb04 0.0s
=> => naming to docker.io/library/moja_aplikacja:1.0 0.0s
root@ubuntu1:/home/kacper/lab5_dobre#
```

```
Activities Tilix maj 20 12:24
Tilix: root@ubuntu: /home/kacper/lab5_dobre

root@ubuntu: /home/kacper/lab5_dobre ~
Dockerfile:18
17 | FROM nginx:latest
18 | COPY --from=builder /usr/app /usr/share/nginx/html
19 | RUN apt-get update && \
20 | apt-get install -y curl && \
-----
ERROR: failed to solve: failed to compute cache key: failed to calculate checksum of ref moby::5xxk9ghzya78dpnuzify03g3: "/default.conf": not found
[*] Building 30.1s (15/15) FINISHED
==> [internal] load build definition from Dockerfile 0.0s
==> transferring dockerfile: 681B 0.0s
==> [internal] load .dockerignore 0.0s
==> transferring context: 2B 0.0s
==> [internal] load metadata for docker.io/library/nginx:latest 0.8s
==> [internal] load metadata for docker.io/library/node:alpine 0.7s
==> [builder 1/5] FROM docker.io/library/node:alpine@sha256:4559bc033389 0.0s
==> CACHED [stage-1 1/4] FROM docker.io/library/nginx:latest@sha256:48086 0.0s
==> [internal] load build context 0.0s
==> transferring context: 628B 0.0s
==> CACHED [builder 2/5] WORKDIR /usr/app 0.0s
==> [builder 3/5] COPY ./package.json ./ 0.1s
==> [builder 4/5] COPY ./app.js ./ 0.1s
==> [builder 5/5] RUN npm install && echo "VERSION=version.1.0" > .en 9.2s
==> [stage-1 3/4] COPY --from=builder /usr/app /usr/share/nginx/html 0.1s
==> [stage-1 3/4] COPY default.conf /etc/nginx/conf.d/default.conf 0.1s
==> [stage-1 4/4] RUN apt-get update && apt-get install -y curl && 18.7s
==> exporting to image 0.2s
==> writing image sha256:98028e95c2dada4478a91287697904c3432a8fefb04 0.0s
==> naming to docker.io/library/moja_aplikacja:1.0 0.0s
root@ubuntu: /home/kacper/lab5_dobre # docker run -p 80:80 moja_aplikacja:1.0
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf
10-listen-on-ipv6-by-default.sh: info: /etc/nginx/conf.d/default.conf differs from the packaged version
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
/docker-entrypoint.sh: Configuration complete; ready for start up
2023/05/20 10:24:06 [notice] 1#1: using the "epoll" event method
2023/05/20 10:24:06 [notice] 1#1: nginx/1.23.4
2023/05/20 10:24:06 [notice] 1#1: built by gcc 10.2.1 20210110 (Debian 10.2.1-6)
2023/05/20 10:24:06 [notice] 1#1: OS: Linux 5.19.0-41-generic
2023/05/20 10:24:06 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2023/05/20 10:24:06 [notice] 1#1: start worker processes
2023/05/20 10:24:06 [notice] 1#1: start worker process 28
2023/05/20 10:24:06 [notice] 1#1: start worker process 29
2023/05/20 10:24:06 [notice] 1#1: start worker process 30
2023/05/20 10:24:06 [notice] 1#1: start worker process 31
127.0.0.1 - - [20/May/2023:10:24:16 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.74.0" "-"
```