

```
7.01(3) 183.750.270.404 bytes free
C:\Users\Emilia\Desktop\studia\ch>docker build --build-arg VERSION=1.0 -f Dockerfile2 -t z1:v1 .
[+] Building 25.0s (16/16) FINISHED
=> [internal] load build definition from Dockerfile2 0.0s
=> => transferring dockerfile: 718B 0.0s
=> [internal] load .dockerignore 0.0s
=> => transferring context: 2B 0.0s
=> [internal] load metadata for docker.io/library/nginx:latest 0.0s
=> [internal] load metadata for docker.io/library/node:alpine 2.0s
=> [internal] load build context 0.0s
=> => transferring context: 745B 0.0s
=> [nginx 1/2] FROM docker.io/library/nginx 0.0s
=> [build 1/6] FROM docker.io/library/node:alpine@sha256:6e56967f8a4032f084856bad4185088711d25b2c2c705af84f57a5 12.3s
=> => resolve docker.io/library/node:alpine@sha256:6e56967f8a4032f084856bad4185088711d25b2c2c705af84f57a522c84d1 0.0s
=> => sha256:06e990ca428a9474589c4e5c569a40e4373272d58d46a0c785f56be6db425485 451B / 451B 0.2s
=> => sha256:6e56967f8a4032f084856bad4185088711d25b2c2c705af84f57a522c84d123b 1.43kB / 1.43kB 0.0s
=> => sha256:71073d3b7ad12dc871ecf42a865699914efd738fe797fa16f67a22179f46d039 1.16kB / 1.16kB 0.0s
=> => sha256:8e7579c71aa85206d1fa454670cf4b5a847f54ac27077136a288f64e6690e37c 6.48kB / 6.48kB 0.0s
=> => sha256:3f026796e5ad2d5022169e508286b0380f6a15ce0340dd744ddae178df49982c 49.55MB / 49.55MB 10.8s
=> => sha256:08556a236d1cb089410b2fc0f20b00d89a47698bda3e48a28eb7c582a942158e 2.35MB / 2.35MB 3.5s
=> => extracting sha256:3f026796e5ad2d5022169e508286b0380f6a15ce0340dd744ddae178df49982c 1.2s
=> => extracting sha256:08556a236d1cb089410b2fc0f20b00d89a47698bda3e48a28eb7c582a942158e 0.1s
=> => extracting sha256:06e990ca428a9474589c4e5c569a40e4373272d58d46a0c785f56be6db425485 0.0s
=> [app 2/3] WORKDIR /usr/app 0.1s
=> [build 2/6] RUN apk add --update curl && rm -rf /var/cache/apk/* 6.5s
=> [build 3/6] WORKDIR ./usr/app 0.0s
=> [build 4/6] COPY ./package.json ./ 0.0s
=> [build 5/6] RUN npm install --save dotenv && rm -rf /tmp/* 3.6s
=> [build 6/6] COPY ./app.js ./ 0.0s
=> [app 3/3] COPY --from=build ./usr/app ./ 0.1s
=> CACHED [nginx 2/2] COPY --from=app /usr/app /usr/share/nginx/html 0.0s
=> exporting to image 0.0s
=> => exporting layers 0.0s
=> => writing image sha256:c482f9faeb15c8052248fe1a4a95b6aa721783c8c891439a43cb0f56ef084ca8 0.0s
=> => naming to docker.io/library/z1:v1 0.0s
```

```
C:\Users\Emilia\Desktop\studia\ch>docker run -d -p 9000:80 --name z1 z1:v1
ca56132b9b905de512542ab0b2be4544297223b6f58bebd924c40b1abfc2b15
```

```
C:\Users\Emilia\Desktop\studia\ch>cd e1
```

```
C:\Users\Emilia\Desktop\studia\ch\e1>dir
Volume in drive C has no label.
Volume Serial Number is EAFB-F17C
```

```

Directory of C:\Users\Emilia\Desktop\studia\ch\e1
01.04.2023  18:19    <DIR>          .
01.04.2023  18:19    <DIR>          ..
08.05.2023  19:59                739 app.js
08.05.2023  20:06                463 Dockerfile2
01.04.2023  17:51                119 package.json
               3 File(s)                1 321 bytes
               2 Dir(s)  183 210 102 784 bytes free

C:\Users\Emilia\Desktop\studia\ch\e1>docker build --build-arg VERSION=1.0 -f Dockerfile2 -t z1:v1 .
[+] Building 5.1s (11/11) FINISHED
=> [internal] load build definition from Dockerfile2                                0.0s
=> => transferring dockerfile: 503B                                                0.0s
=> [internal] load .dockerignore                                                    0.0s
=> => transferring context: 2B                                                      0.0s
=> [internal] load metadata for docker.io/library/node:alpine                    1.1s
=> [internal] load build context                                                    0.0s
=> => transferring context: 805B                                                    0.0s
=> [app 1/3] FROM docker.io/library/node:alpine@sha256:6e56967f8a4032f084856bad4185088711d25b2c2c705af84f57a522c 0.0s
=> CACHED [app 2/3] WORKDIR /usr/app                                              0.0s
=> [build 3/5] COPY ./package.json ./                                             0.0s
=> [build 4/5] RUN npm install && npm install --save dotenv && rm -rf /tmp/*      3.6s
=> [build 5/5] COPY ./app.js ./                                                  0.0s
=> [app 3/3] COPY --from=build /usr/app ./                                        0.1s
=> exporting to image                                                            0.1s
=> => exporting layers                                                            0.1s
=> => writing image sha256:b4c4ecaa49f54b3ac122bc20fcb0889cf5d9b781400f3a0303e357b4a820965d 0.0s
=> => naming to docker.io/library/z1:v1                                           0.0s

C:\Users\Emilia\Desktop\studia\ch\e1>docker run -d -p 9001:80 --name z1 z1:v1
f62085aca6d31e64fc99bdea5d983a0326d7835ae92a2cfdcf8cb33a132acc9c

C:\Users\Emilia\Desktop\studia\ch\e1>cd ..

C:\Users\Emilia\Desktop\studia\ch>build ctl -v
'build' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\Emilia\Desktop\studia\ch>buildctl -v
'buildctl' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\Emilia\Desktop\studia\ch>buildctl version
'buildctl' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\Emilia\Desktop\studia\ch>cd z1

```

```
C:\Users\Emilia\Desktop\studia\ch\z1>dir
Volume in drive C has no label.
Volume Serial Number is EAFB-F17C

Directory of C:\Users\Emilia\Desktop\studia\ch\z1

08.05.2023  22:09    <DIR>          .
08.05.2023  22:09    <DIR>          ..
08.05.2023  22:09    <DIR>          bin
08.05.2023  22:04      13 546 167 buildkit-v0.11.6.windows-amd64.tar.gz
               1 File(s)      13 546 167 bytes
               3 Dir(s)    181 476 401 152 bytes free

C:\Users\Emilia\Desktop\studia\ch\z1>buildctl version
'buildctl' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\Emilia\Desktop\studia\ch\z1>cd bin

C:\Users\Emilia\Desktop\studia\ch\z1\bin>buildctl version
No help topic for 'version'

C:\Users\Emilia\Desktop\studia\ch\z1\bin>buildctl -v
buildctl github.com/moby/buildkit v0.11.6 2951a28cd7085eb18979b1f710678623d94ed578

C:\Users\Emilia\Desktop\studia\ch\z1\bin>docker run --rm --privileged -d --name buildkit moby/buildkit
Unable to find image 'moby/buildkit:latest' locally
latest: Pulling from moby/buildkit
f56be85fc22e: Already exists
f6e8e780950d: Pull complete
77001c303950: Pull complete
b20e3fc1610d: Pull complete
Digest: sha256:d6fa89830c26919acba23c5cafa09df0c3ec1fbde20bb2a15ff349e0795241f4
Status: Downloaded newer image for moby/buildkit:latest
4613c67553f037bee36d0685154c6a6429e7d650ef2e5e5e8071bf8f089346f7

C:\Users\Emilia\Desktop\studia\ch\z1\bin>docker ps --filter name=buildkit
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS          NAMES
4613c67553f0   moby/buildkit  "buildkitd"              25 seconds ago Up 24 seconds          buildkit

C:\Users\Emilia\Desktop\studia\ch\z1\bin>sxport BUILDKIT_HOST=docker-container://buildkit
'sxport' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\Emilia\Desktop\studia\ch\z1\bin>export BUILDKIT_HOST=docker-container://buildkit
'export' is not recognized as an internal or external command,
operable program or batch file.
```

```
C:\Users\Emilia\Desktop\studia\ch\z1\bin>set BUILDKIT_HOST=docker-container://buildkit

C:\Users\Emilia\Desktop\studia\ch\z1\bin>buildctl build --frontend=dockerfile.v0 --local context=. --local dockerfile=.
Incorrect Usage: flag provided but not defined: -local

NAME:
  buildctl build - build

USAGE:
  To build and push an image using Dockerfile:
  $ buildctl build --frontend dockerfile.v0 --opt target=foo --opt build-arg:foo=bar --local context=. --local dockerfile=. --output type=image,name=docker.io/username/image,push=true

OPTIONS:
  --output value, -o value    Define exports for build result, e.g. --output type=image,name=docker.io/username/image,push=true
  --progress value           Set type of progress (auto, plain, tty). Use plain to show container output (default: "auto")
  --trace value              Path to trace file. Defaults to no tracing.
  --local value              Allow build access to the local directory
  --oci-layout value         Allow build access to the local OCI layout
  --frontend value           Define frontend used for build
  --opt value                Define custom options for frontend, e.g. --opt target=foo --opt build-arg:foo=bar
  --no-cache                 Disable cache for all the vertices
  --export-cache value        Export build cache, e.g. --export-cache type=registry,ref=example.com/foo/bar, or --export-cache type=local,dest=path/to/dir
  --import-cache value        Import build cache, e.g. --import-cache type=registry,ref=example.com/foo/bar, or --import-cache type=local,src=path/to/dir
  --secret value             Secret value exposed to the build. Format id=secretname,src=filepath
  --allow value              Allow extra privileged entitlement, e.g. network.host, security.insecure
  --ssh value                Allow forwarding SSH agent to the builder. Format default[<id>[=<socket>]<key>[,<key>]]
  --metadata-file value      Output build metadata (e.g., image digest) to a file as JSON
  --source-policy-file value Read source policy file from a DSOW file
  --ref-file value           Write build ref to a file

error: flag provided but not defined: -local
```

```
[+] Building 5.4s (5/5) FINISHED
=> [internal] load build definition from Dockerfile                                0.1s
=> => transferring dockerfile: 116B                                              0.0s
=> [internal] load .dockerignore                                                0.1s
=> => transferring context: 2B                                                    0.0s
=> [internal] load metadata for docker.io/library/alpine:latest                 3.5s
=> [1/2] FROM docker.io/library/alpine@sha256:124c7d2707904eea7431ffffe91522a01e5a861a624ee31d03372cc1d138a3126 1.5s
=> => resolve docker.io/library/alpine@sha256:124c7d2707904eea7431ffffe91522a01e5a861a624ee31d03372cc1d138a3126 0.0s
=> => sha256:f56be85fc22e46face30e2c3de3f7fe7c15f8fd7c4e5add29d7f64b87abdaa09 3.37MB / 3.37MB 1.2s
=> => extracting sha256:f56be85fc22e46face30e2c3de3f7fe7c15f8fd7c4e5add29d7f64b87abdaa09 0.2s
=> [2/2] RUN echo "buildkit dziala" > imo.txt                                  0.2s

C:\Users\Emilia\Desktop\studia\ch\z1\bin>docker ps --filter "since=buildkit" --filter "ancestor=alpine"
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS        NAMES
4613c67553f0   moby/buildkit "buildkit"              8 minutes ago Up 8 minutes   9001/tcp, 0.0.0.0:9001->80/tcp   z1
f62985ac6d3    z1:vl         "docker-entrypoint.s..." 3 hours ago   Up 3 hours

C:\Users\Emilia\Desktop\studia\ch\z1\bin>docker login
Login with your Docker ID to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://hub.docker.com to create one.
Username: nimi-2
Password:
Error response from daemon: Get "https://registry-1.docker.io/v2/": unauthorized: incorrect username or password

C:\Users\Emilia\Desktop\studia\ch\z1\bin>docker login
Authenticating with existing credentials...
Login Succeeded

Logging in with your password grants your terminal complete access to your account.
For better security, log in with a limited-privilege personal access token. Learn more at https://docs.docker.com/go/access-tokens/
```

```
C:\Users\Emilia\Desktop\studia\ch\z1\bin>buildctl build --frontend=dockerfile.v0 --local context=. --local dockerfile=. --output type=image,name=docker.io/nimi22/lab:bkitt1,push=true
[+] Building 11.5s (8/8) FINISHED
=> [internal] load .dockerignore                                                0.1s
=> => transferring context: 2B                                                    0.0s
=> [internal] load build definition from Dockerfile                            0.1s
=> => transferring dockerfile: 116B                                              0.0s
=> [internal] load metadata for docker.io/library/alpine:latest                 3.6s
=> [auth] library/alpine:pull token for registry-1.docker.io                   0.0s
=> [1/2] FROM docker.io/library/alpine@sha256:124c7d2707904eea7431ffffe91522a01e5a861a624ee31d03372cc1d138a3126 0.0s
=> => resolve docker.io/library/alpine@sha256:124c7d2707904eea7431ffffe91522a01e5a861a624ee31d03372cc1d138a3126 0.0s
=> CACHED [2/2] RUN echo "buildkit dziala" > imo.txt                          0.0s
=> exporting to image                                                            7.5s
=> => exporting layers                                                            0.2s
=> => exporting manifest sha256:5d08018dbee4968f9c39bce078a959d45bf8373fb260159393540fbcf9953aff 0.0s
=> => exporting config sha256:4b53c56076cf0f3888a048cbac3f71e186c8e8e21879870223c90453f9e968bd 0.0s
=> => pushing layers                                                            6.8s
=> => pushing manifest for docker.io/nimi22/lab:bkitt1@sha256:5d08018dbee4968f9c39bce078a959d45bf8373fb260159393540 0.4s
=> [auth] nimi22/lab:pull,push token for registry-1.docker.io                 0.0s

C:\Users\Emilia\Desktop\studia\ch\z1\bin>docker run -it docker.io/nimi22/lab:bkitt1
Unable to find image 'nimi22/lab:bkitt1' locally
bkitt1: Pulling from nimi22/lab
f56be85fc22e: Already exists
b8a1e04214ed: Pull complete
Digest: sha256:5d08018dbee4968f9c39bce078a959d45bf8373fb260159393540fbcf9953aff
Status: Downloaded newer image for nimi22/lab:bkitt1
/ # ls
bin      etc      imo.txt  media   opt      root     sbin     sys      usr
dev      home    lib      mnt     proc     run      srv      tmp      var
/ # cat imo.txt
buildkit dziala
/ #
```