



Docker Certified Associate

Dockerfile – Pieces, Parts and Optimization



Dockerfile – Options and Structure

FROM

<image> [AS <name>]
<image>[:<tag>] [AS <name>]

ARG

VARIABLE_NAME=[value]
FROM base:\${VARIABLE_NAME}

RUN

<command> (shell form - /bin/sh -c)
["command", "parm1", "parm2"] (exec form, JSON)

CMD

["command", "parm1", "parm2"] (exec form, JSON)
["parm1", "parm2"] (parms for ENTRYPOINT)

LABEL

metadata added to image, key/value pair
"label details"="label reference name"

MAINTAINER (deprecated)

<name of maintainer>
LABEL maintainer="name" (new format)

EXPOSE

<port> [<port>/<protocol>...]
Does NOT publish port, serves as documentation



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ENV

<key> <value>

<key>=<value>

ADD

<src>...<dest> (must include quotes if spaces)

WORKDIR – used as variable for relative path

COPY

<src>...<dest> (must include quotes if spaces)

WORKDIR – used as variable for relative path

ENTRYPOINT

["command", "parm1", "parm2"] (exec form, JSON)

command parm1 parm2 (shell form)

VOLUME

["/path"]

NOTE: Does not mount host path, not portable

USER

<user>[:<group>] or <UID>[:<GID>]

affects RUN, CMD or ENTRYPOINT

WORKDIR

/path/to/dir

sets working directory for RUN, CMD, ENTRYPOINT



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STOPSIGNAL

NOTE: specific signal when a container is stopped

SHELL

["executable","parms"]

overrides /bin/sh -c for RUN, CMD, etc



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