

Docker II

Documentation

- <https://docs.docker.com/engine/reference/builder/>
- docker.com

ARGS

ARG NODE_VERSION=19-alpine3.16

FROM node:\${NODE_VERSION}
EXPOSE 8080

CMD ["/bin/sh"]

RUN - RUN <command> , RUN ["executable", "parameter1", parameter2"]

ARG NODE_VERSION=19-alpine3.16

FROM node:\${NODE_VERSION}

EXPOSE 8080

RUN apk update && apk add bash

CMD ["/bin/bash"]

ARG NODE_VERSION=19-alpine3.16

FROM node:\${NODE_VERSION}

EXPOSE 8080

RUN ["apk","update"]

RUN ["apk", "add", "bash"]

CMD ["/bin/bash"]

WORKDIR

ARG NODE_VERSION=19-alpine3.16

FROM node:\${NODE_VERSION}

EXPOSE 8080

RUN apk update && apk add bash

WORKDIR /usr/src/app

CMD ["/bin/bash"]

CMD

- Command
 - One per file
- CMD Executable Parameter1 Parameter2
- CMD ["Executable", "Parameter1", "Parameter2",]

Label -> use docker inspect

ARG NODE_VERSION=19-alpine3.16

FROM node:\${NODE_VERSION}

LABEL author=ralph

EXPOSE 8080

RUN apk update && apk add bash

WORKDIR /usr/src/app

CMD ["/bin/bash"]

ARG NODE_VERSION=19-alpine3.16
FROM node:\${NODE_VERSION}

COPY

EXPOSE 8080
RUN apk update && apk add bash

WORKDIR /usr/src/app/pages
WORKDIR ..

COPY *.json .
COPY server.js .
COPY pages/* pages

RUN npm add express
RUN npm add body-parser

CMD ["/bin/bash"]

ARG NODE_VERSION=19-alpine3.16

FROM node:\${NODE_VERSION}

EXPOSE 8080

RUN apk update && apk add bash

WORKDIR /usr/src/app/pages

WORKDIR ..

COPY *.json .

COPY server.js .

COPY pages/* pages

RUN npm add express

RUN npm add body-parser

CMD ["node", "server.js"]

Docker commands

- Run
 - `docker run image`
 - `docker run -it image`
 - `docker run -d image`
- Stop
 - `docker stop container_name`
- Remove
 - `docker rm container_name`
- Show Containers
 - `docker ps`
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PUSH & PULL

- docker images
- docker tag
 - docker tag ralph/node4 rad1234/cmpt353
- docker push
 - docker push rad1234/cmpt353
- docker pull
 - docker pull rad1234/cmpt353

Docker Compose

version: "3.9"

services:

java1:

build: .

container_name: node1

ports:

- "80:8080"

volumes:

- /Users/ralph/classes/353:/usr/src/app

stdin_open: true

tty: true