

# Docker II

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# New Dockerfile

```
FROM node:latest
```

```
EXPOSE 8080
```

```
WORKDIR /usr/src/app
```

```
CMD ["/bin/bash"]
```

# docker-compose.yml

services:

node1:

build: .

container\_name: n1

ports:

- "80:8080"

volumes:

- /Users/ralph/classes/353/w1:/usr/src/app/

stdin\_open: true

tty: true

# Commands

`docker compose build`

`docker compose up -d`

`docker compose attach n1`

`docker compose down`

# Documentation

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

# CMD

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

# WORKDIR

FROM node:latest

EXPOSE 8080

WORKDIR /usr/src/app

CMD ["/bin/bash"]

FROM node:latest

EXPOSE 8080

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`

# PUSH & PULL

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