

Project via Docker

Rupesh Panwar

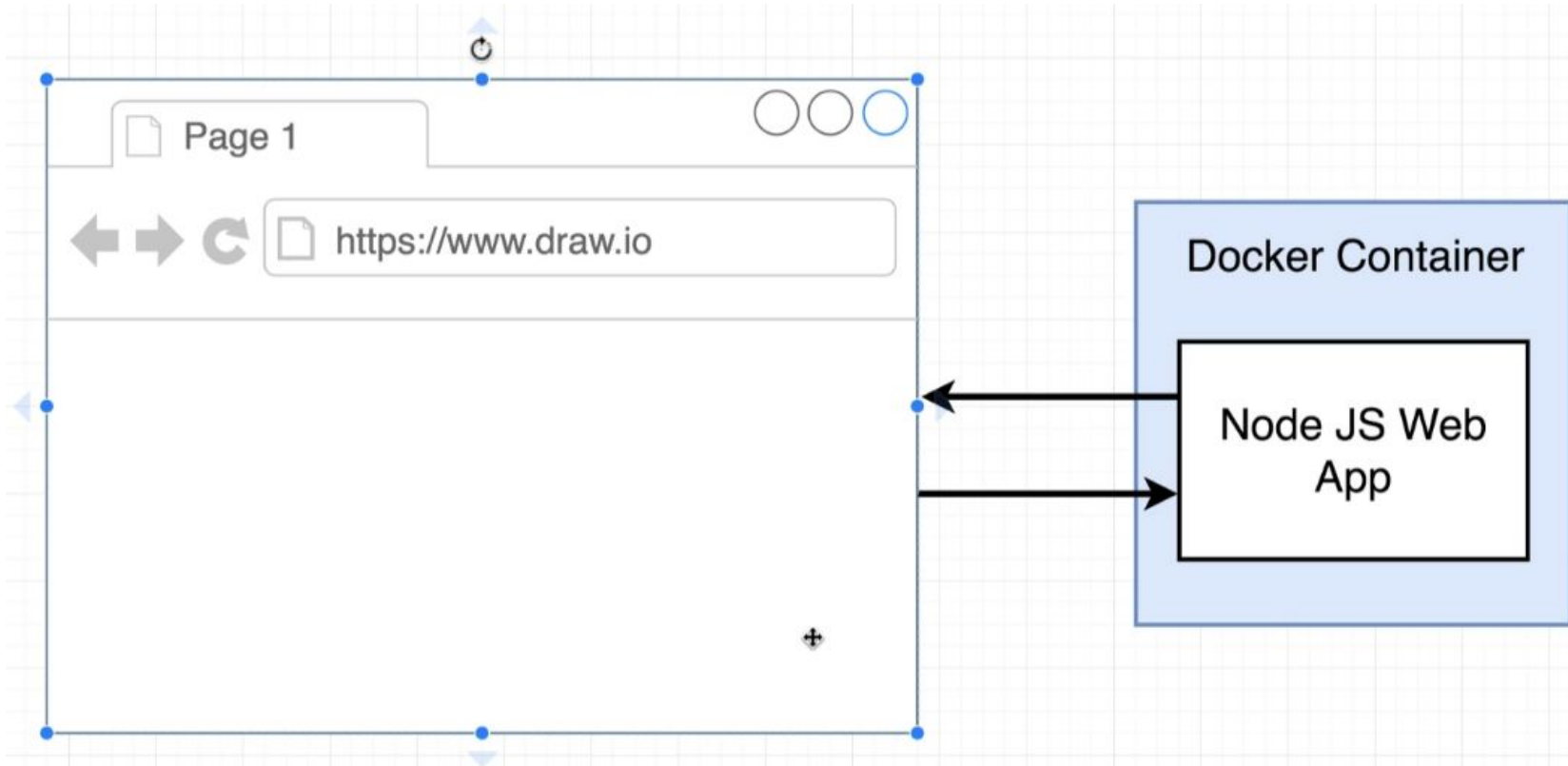
Date: 06-Aug-21

Agenda

Project outline

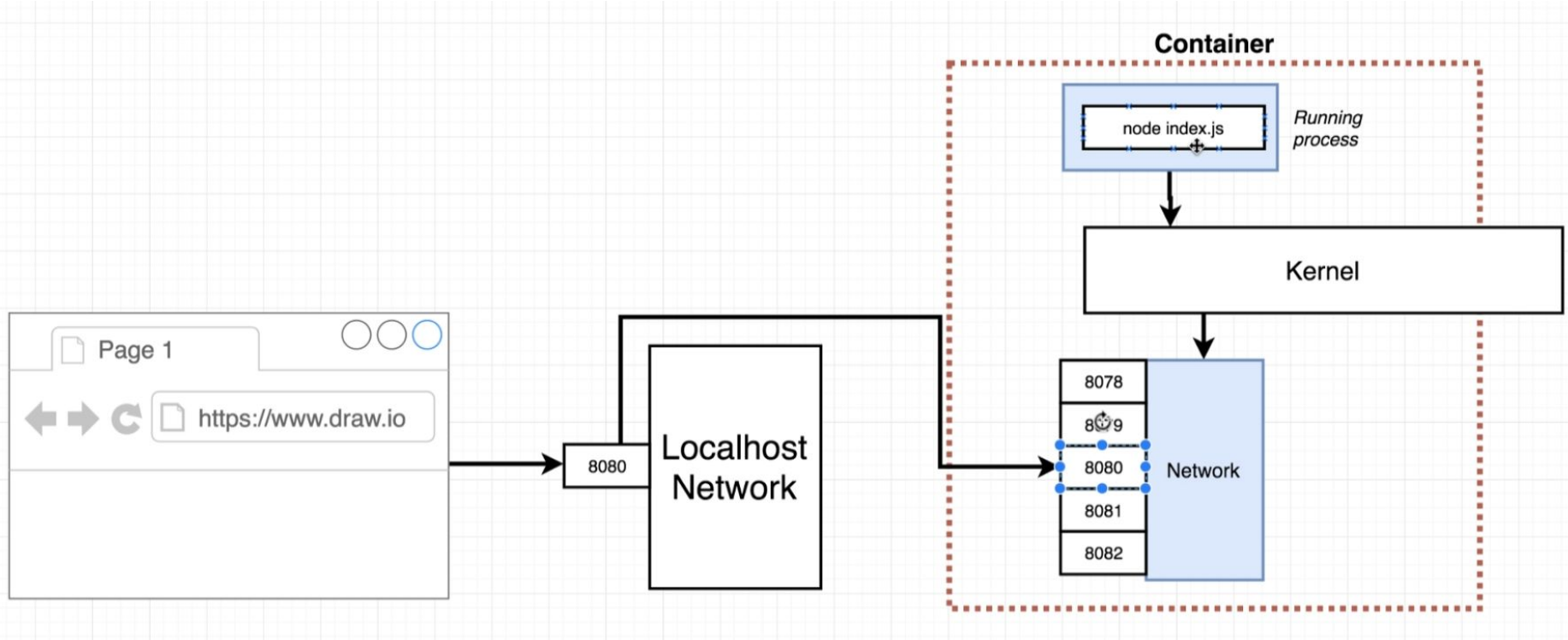
1. Steps to perform
2. About Nodejs App
3. Template(dockerfile) Flow
4. Docker build
5. WORKDIR /usr/app
6. COPY ./ ./
7. localhost:8080
8. Port (-p host-port:container-port) mapping
9. Unnecessary rebuilds

Project outline

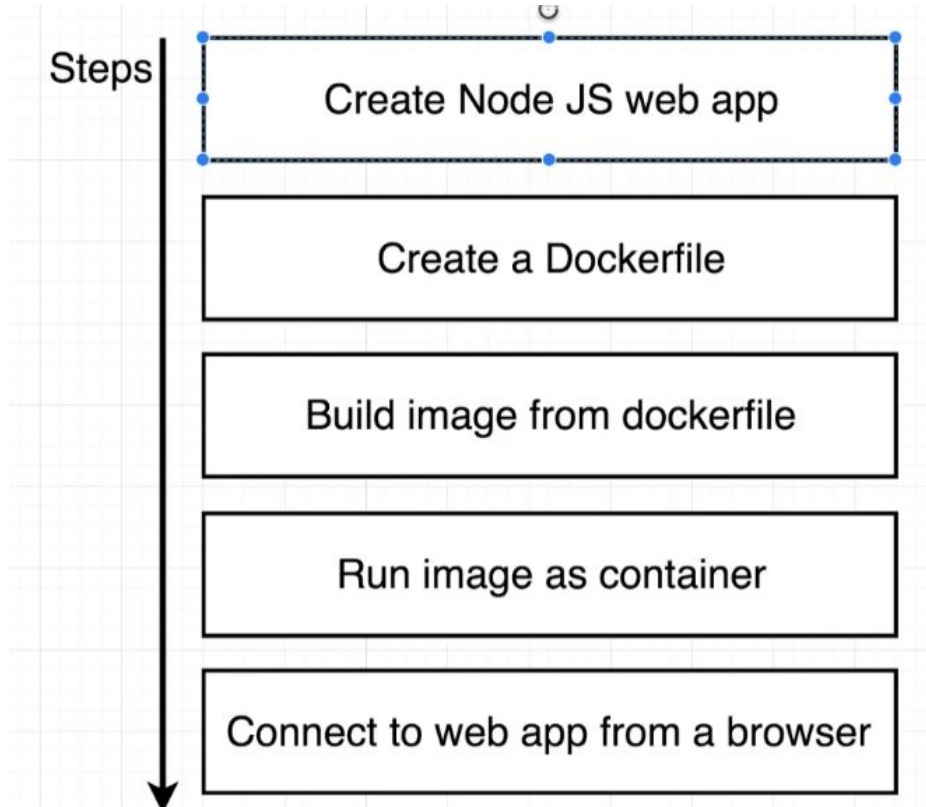


Download app: <https://github.com/rupeshpanwar/simpleapp-docker.git>

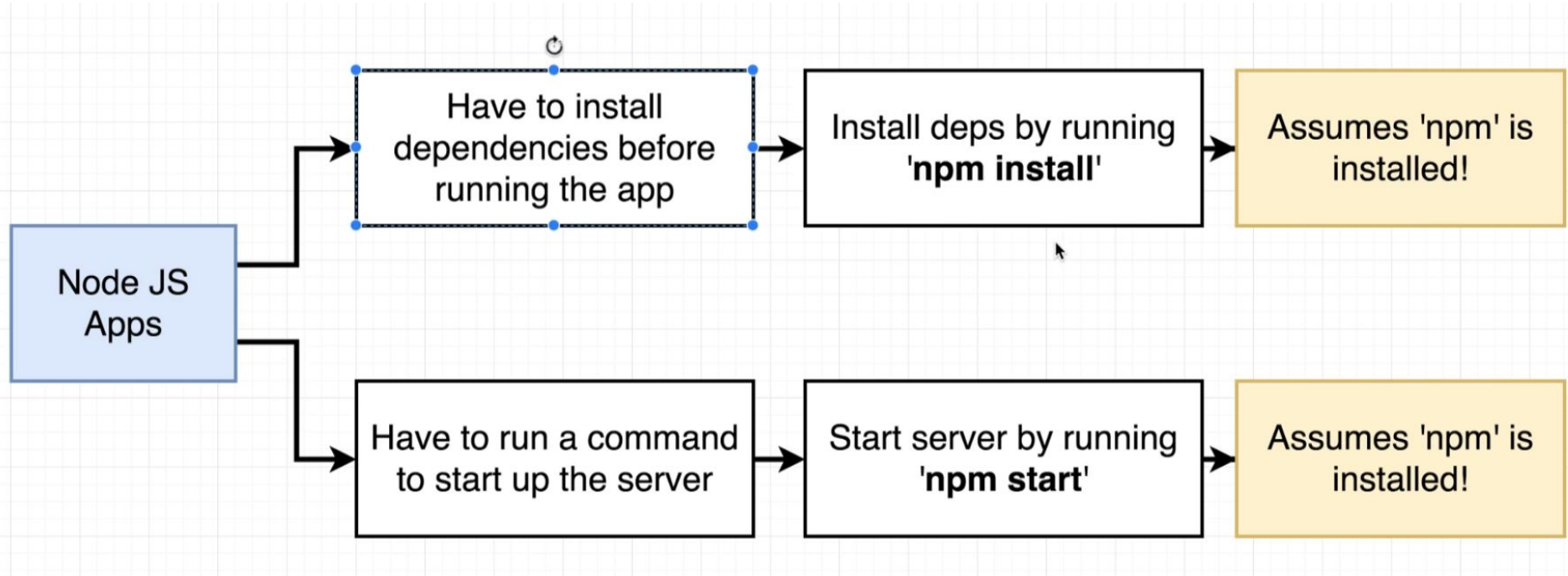
Behind the scene



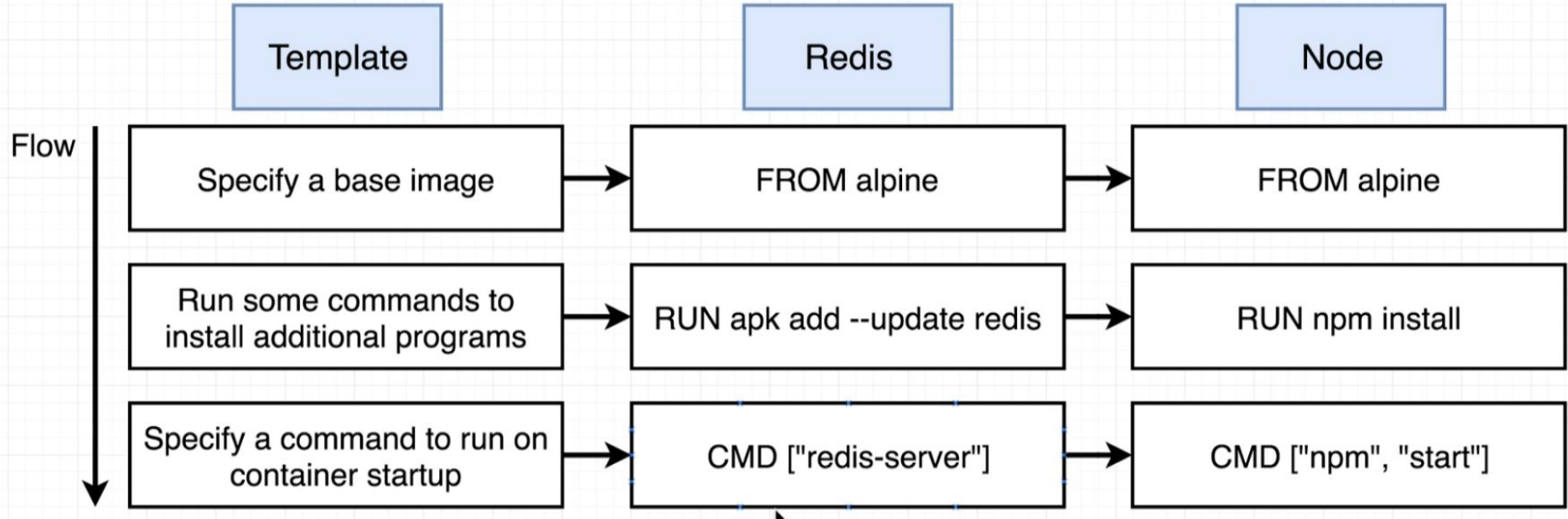
Steps to perform



About Nodejs App



Template(dockerfile) Flow



Build docker image

> docker build .

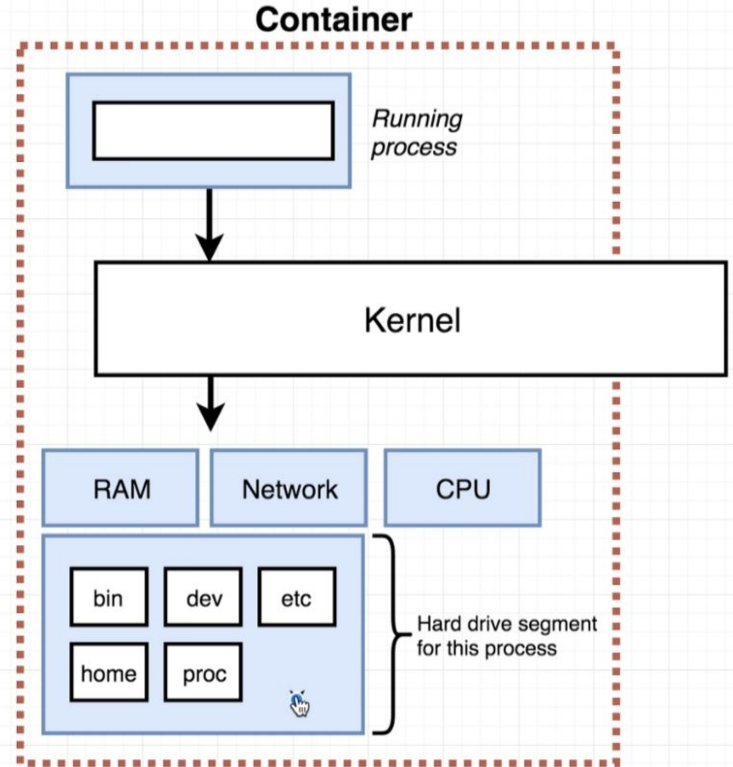
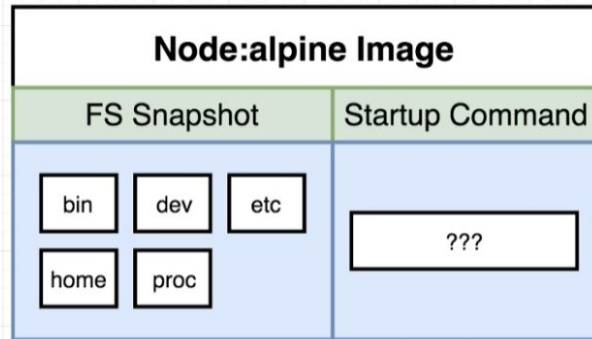
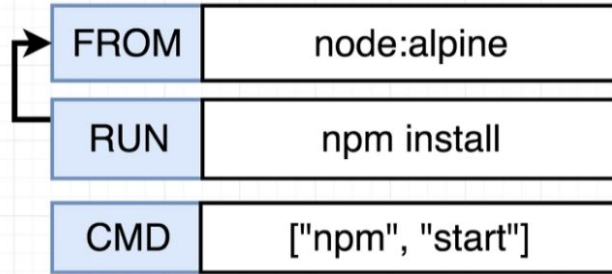
Include right image

> node:alpine

Few missing files

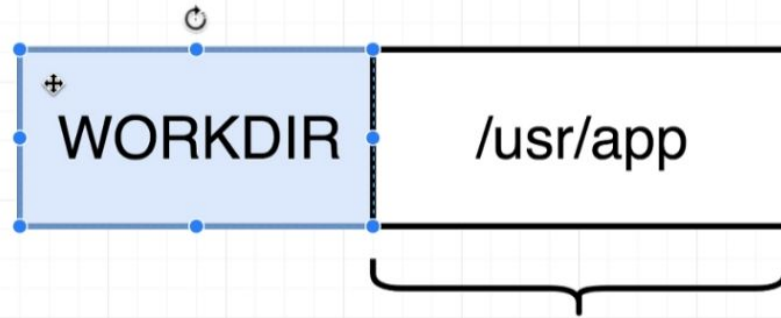
> package.json

Build docker image



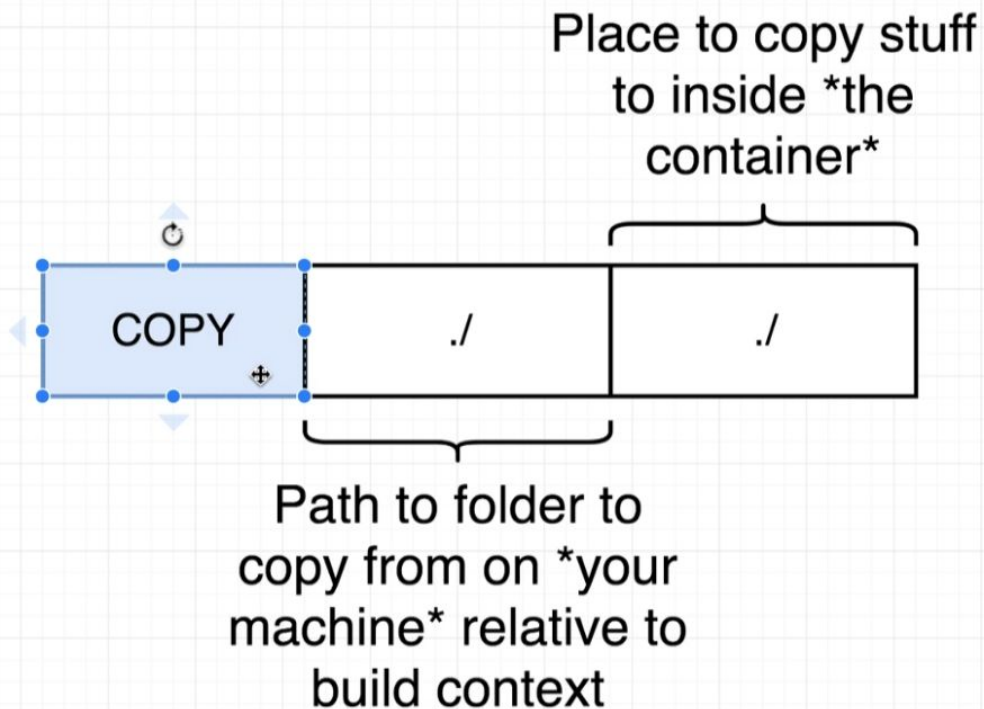
WORKDIR /usr/app

```
> docker run -it rupeshpanwar/simpleapp sh
```



Any following command
will be executed relative
to this path in the
container

COPY



Container FS

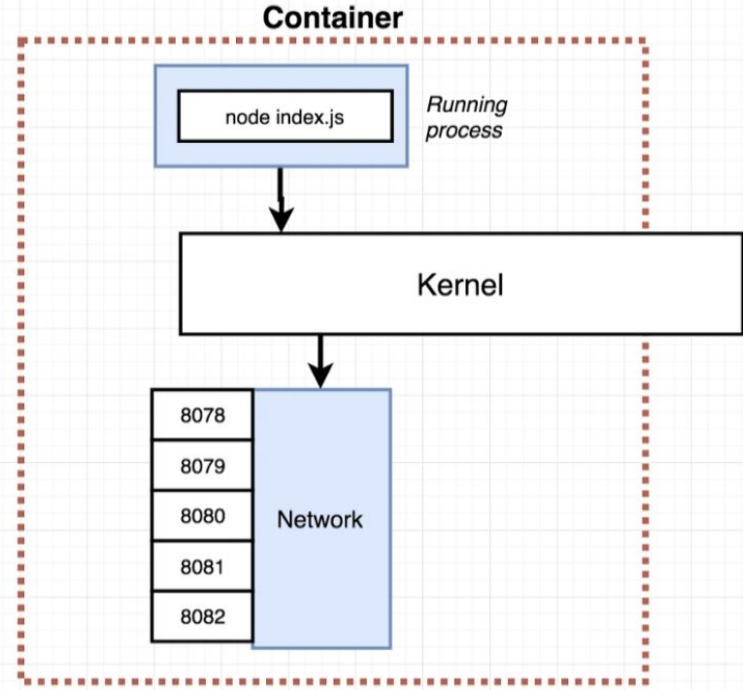
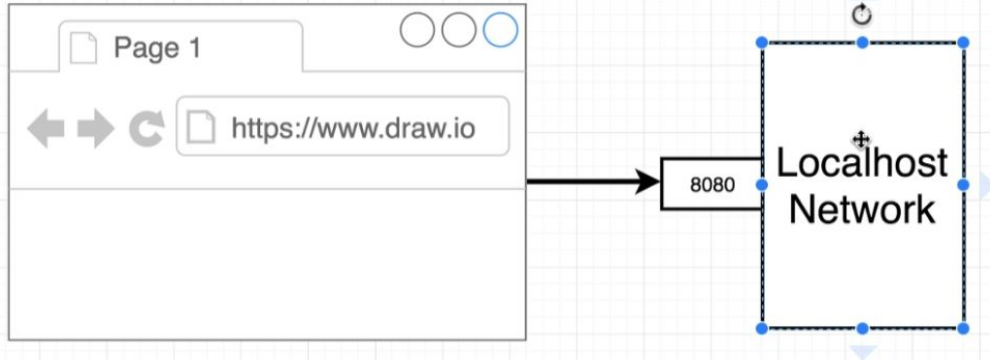
```
simpleweb $ docker run -it rupeshpanwar/simpleapp sh
/usr/app # ls
Dockerfile          node_modules        workspace.code-workspace
README.md           package-lock.json
index.js            package.json
```

- > **docker run -p 8080:8080 rupeshpanwar/simpleapp**
- > **docker ps**
- > **docker exec -it container-id sh**

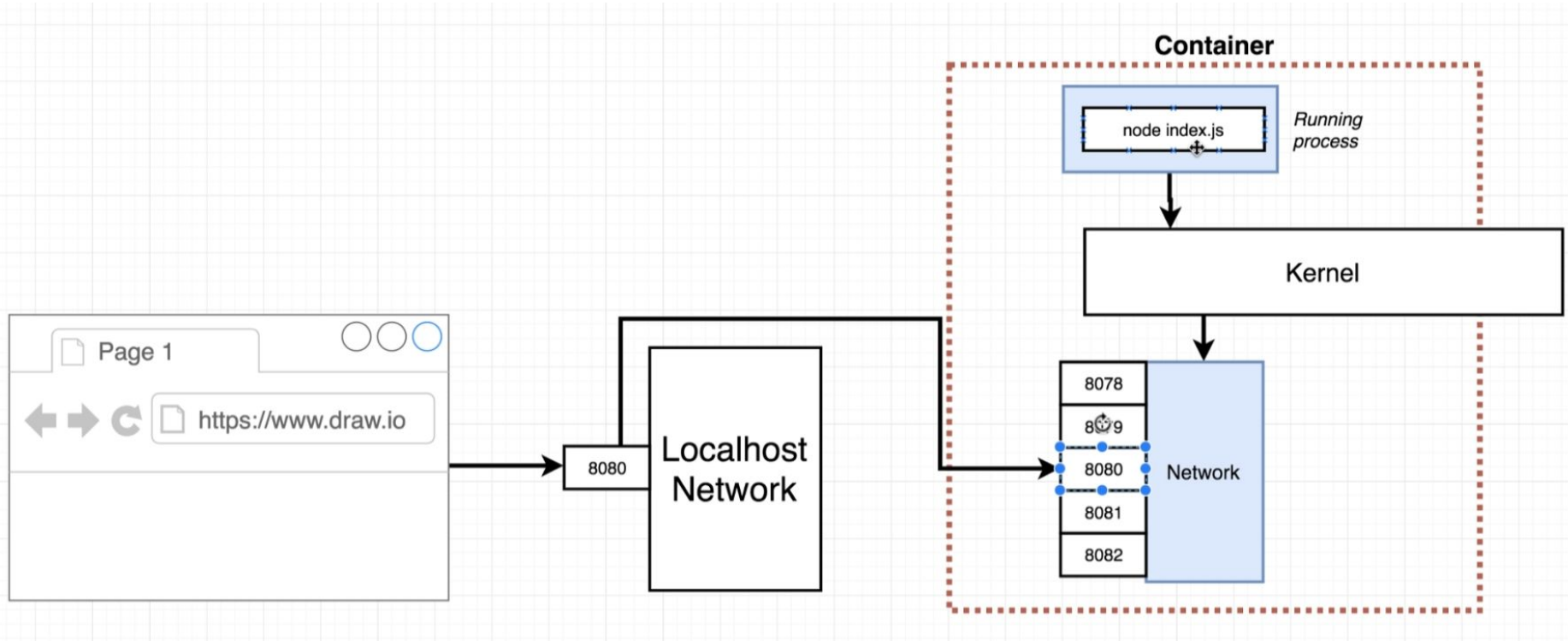
Build docker image

- > **docker build -t rupeshpanwar/simpleapp .**
- > **docker run rupeshpanwar/simpleapp**

localhost:8080

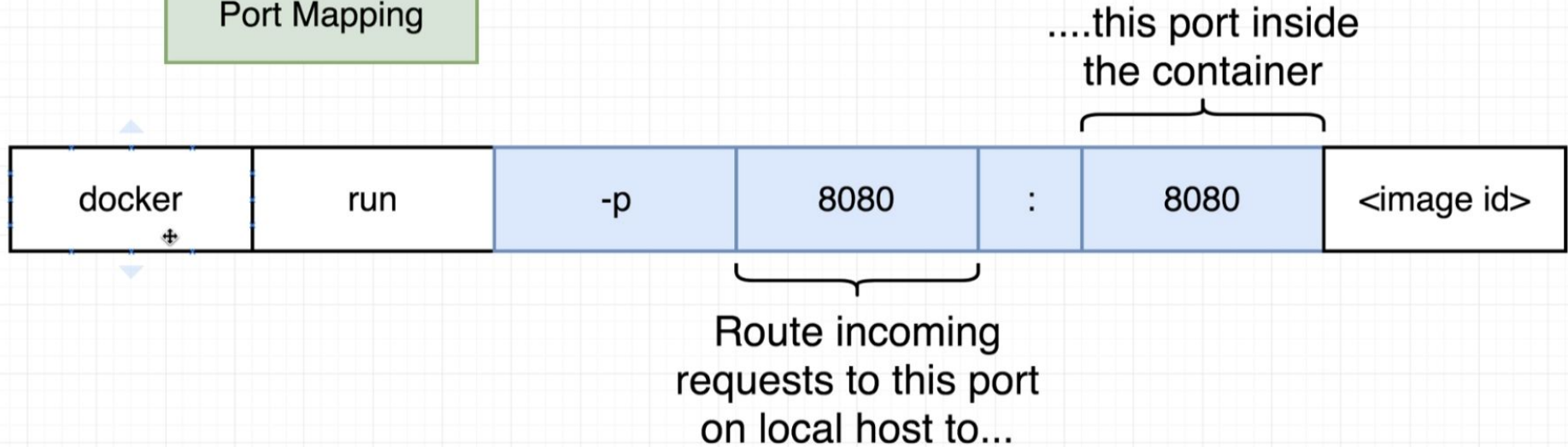


localhost:8080



Port (-p) mapping

Docker Run with
Port Mapping



- > **docker run -p 8080:8080 rupeshpanwar/simpleapp**
- > **docker ps**
- > **docker exec -it container-id sh**

Unnecessary rebuilds

> change the application source code

> docker build -t rupeshpanwar/simpleapp .

```
COPY ./package.json ./
```

```
RUN npm install
```

```
COPY ./ ./
```