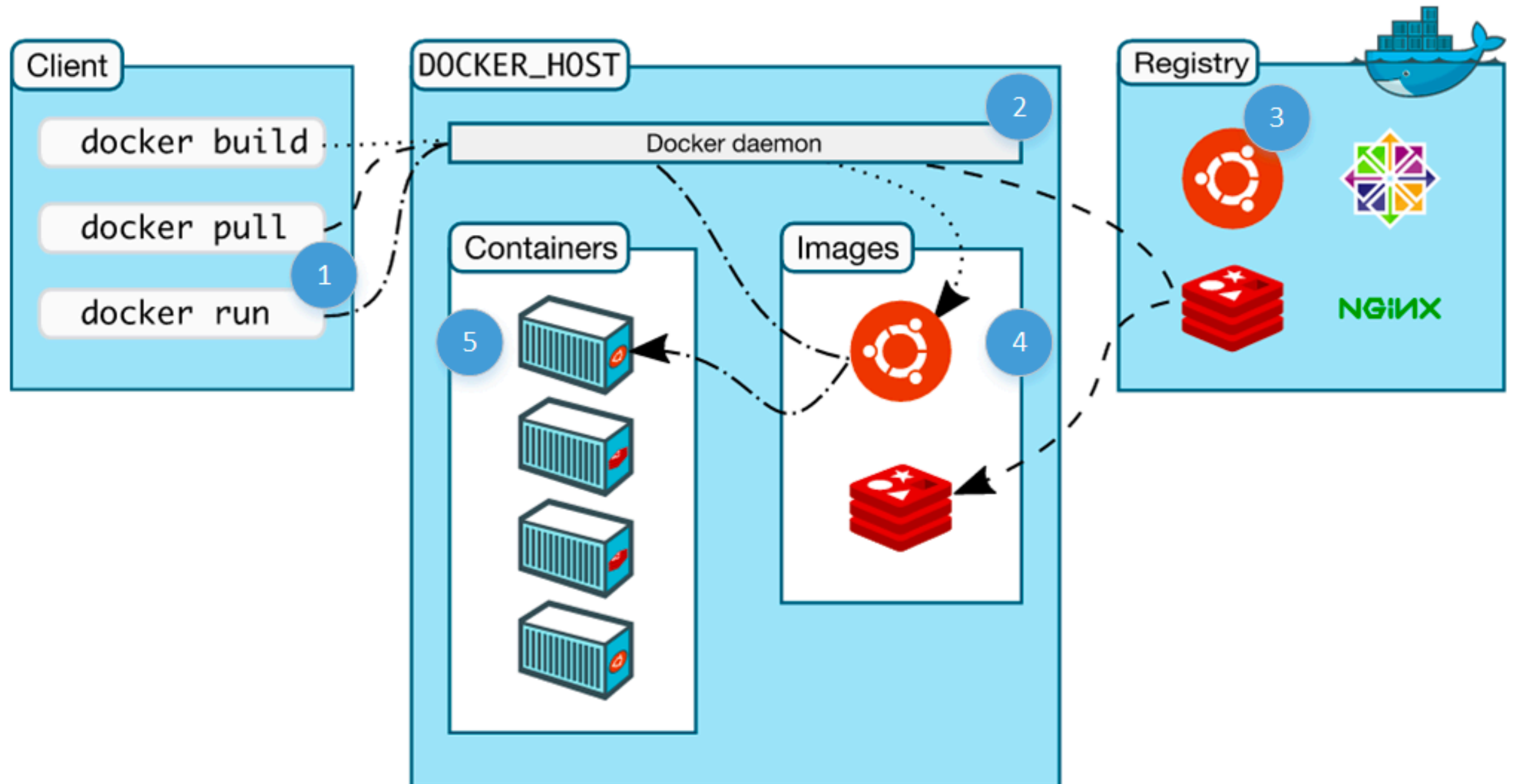


Docker Workshop





Docker Ecosystem



Docker commands

\$docker image
\$docker container

<https://docs.docker.com/engine/reference/commandline/docker/>

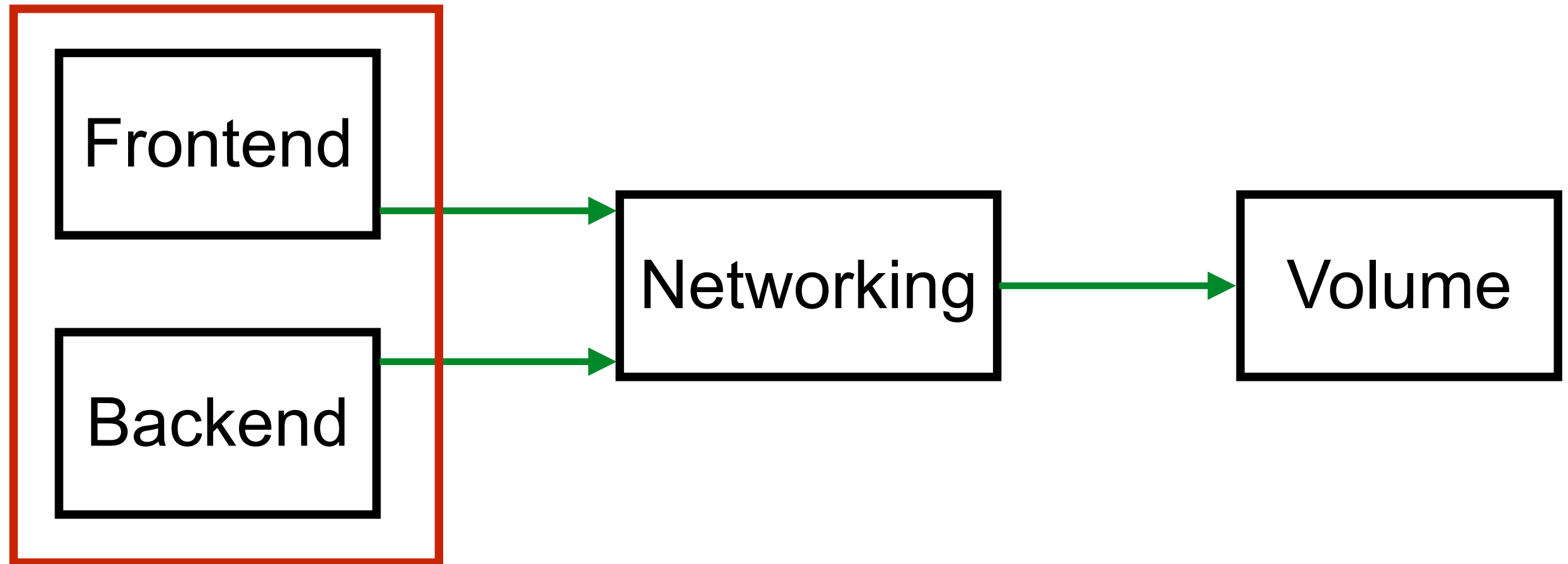


Docker Workshop

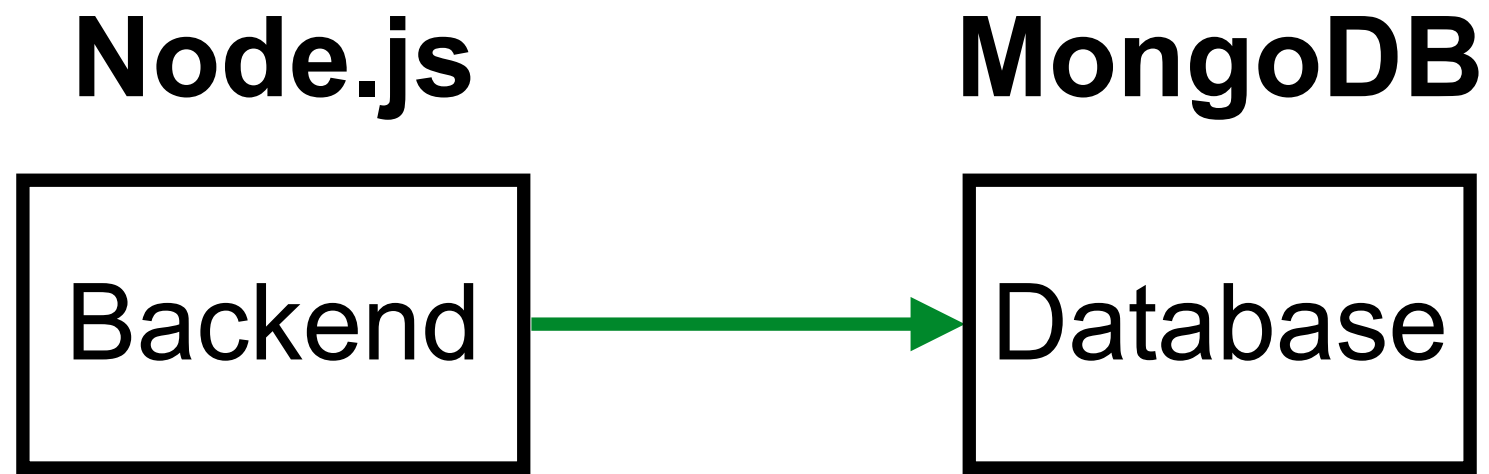


Docker components

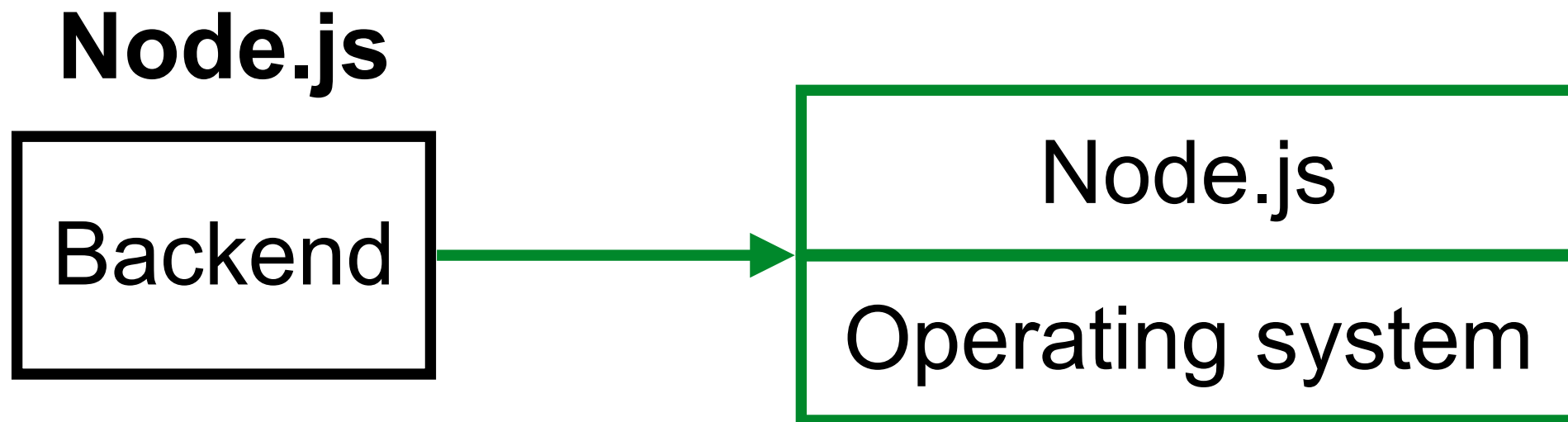
Docker Container



Application

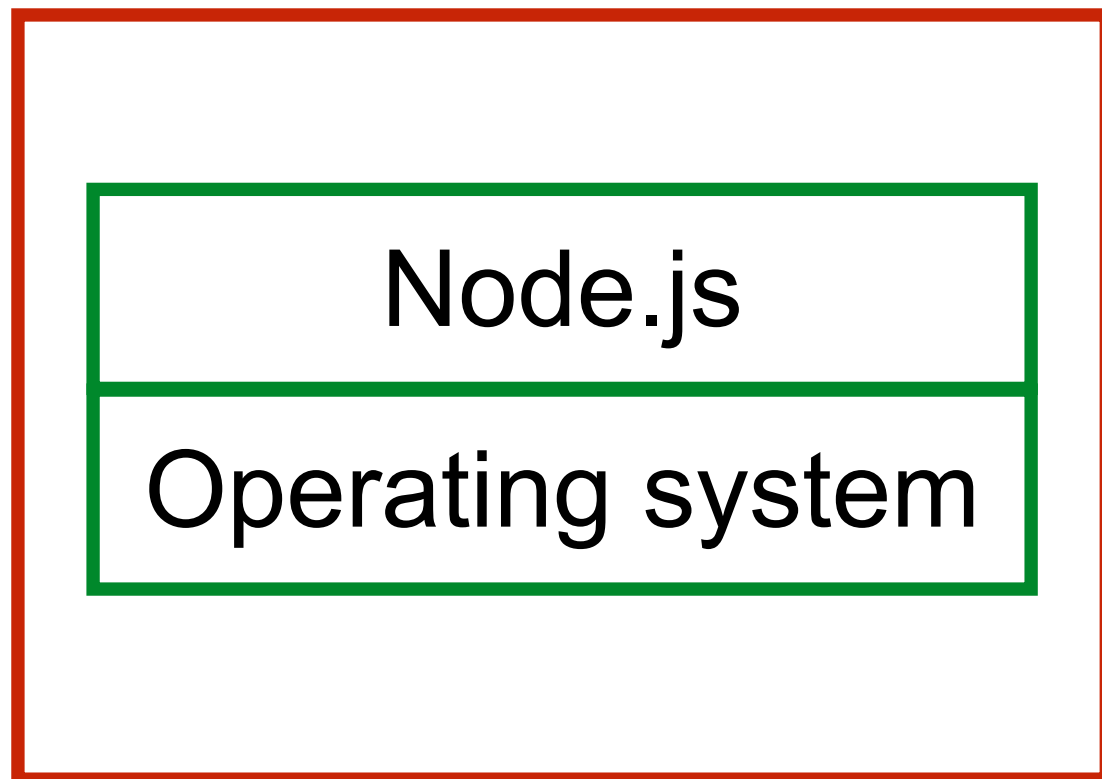


Application

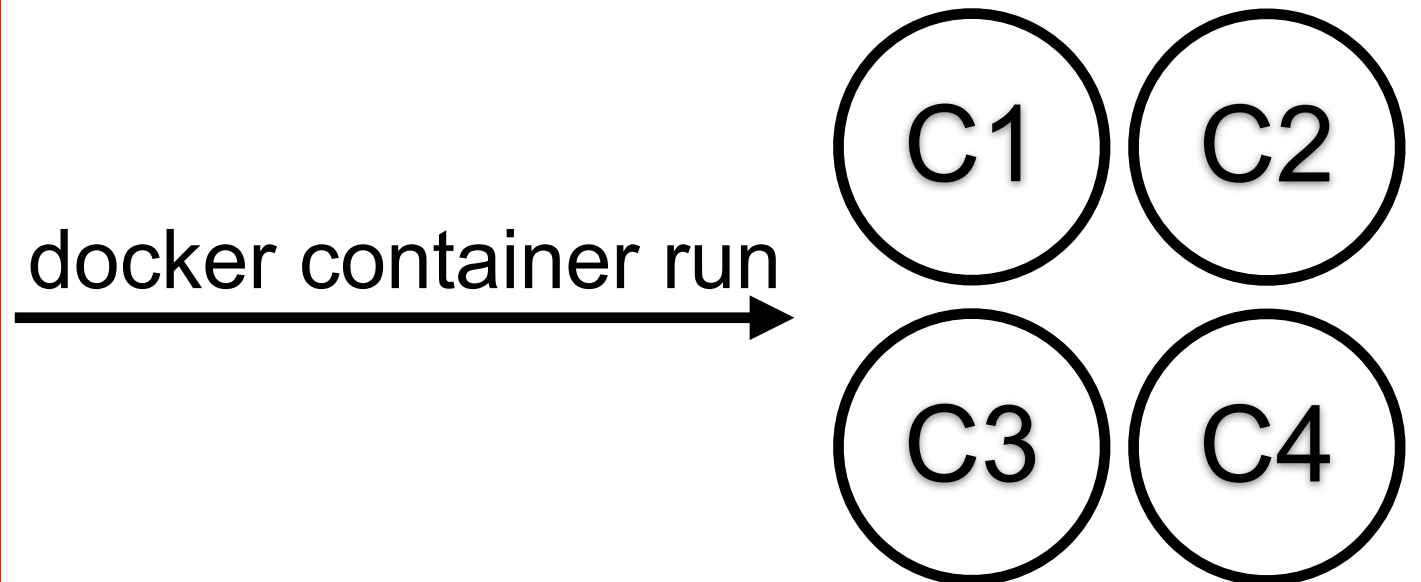


Application

Docker Image



Docker Container



Run workshop in local

\$npm install

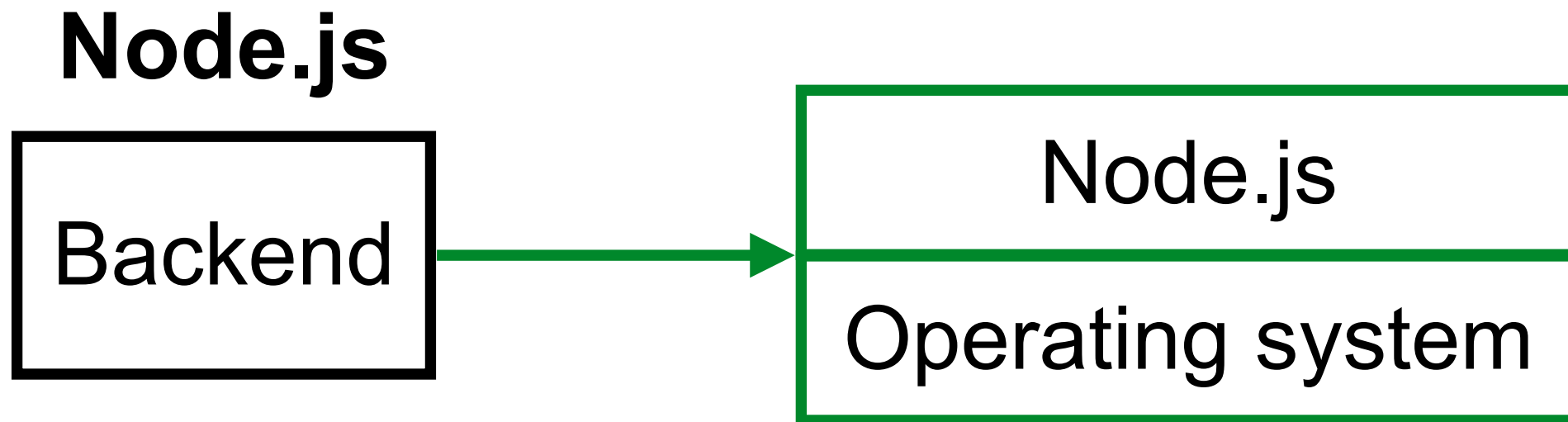
\$npm start



Run with Docker

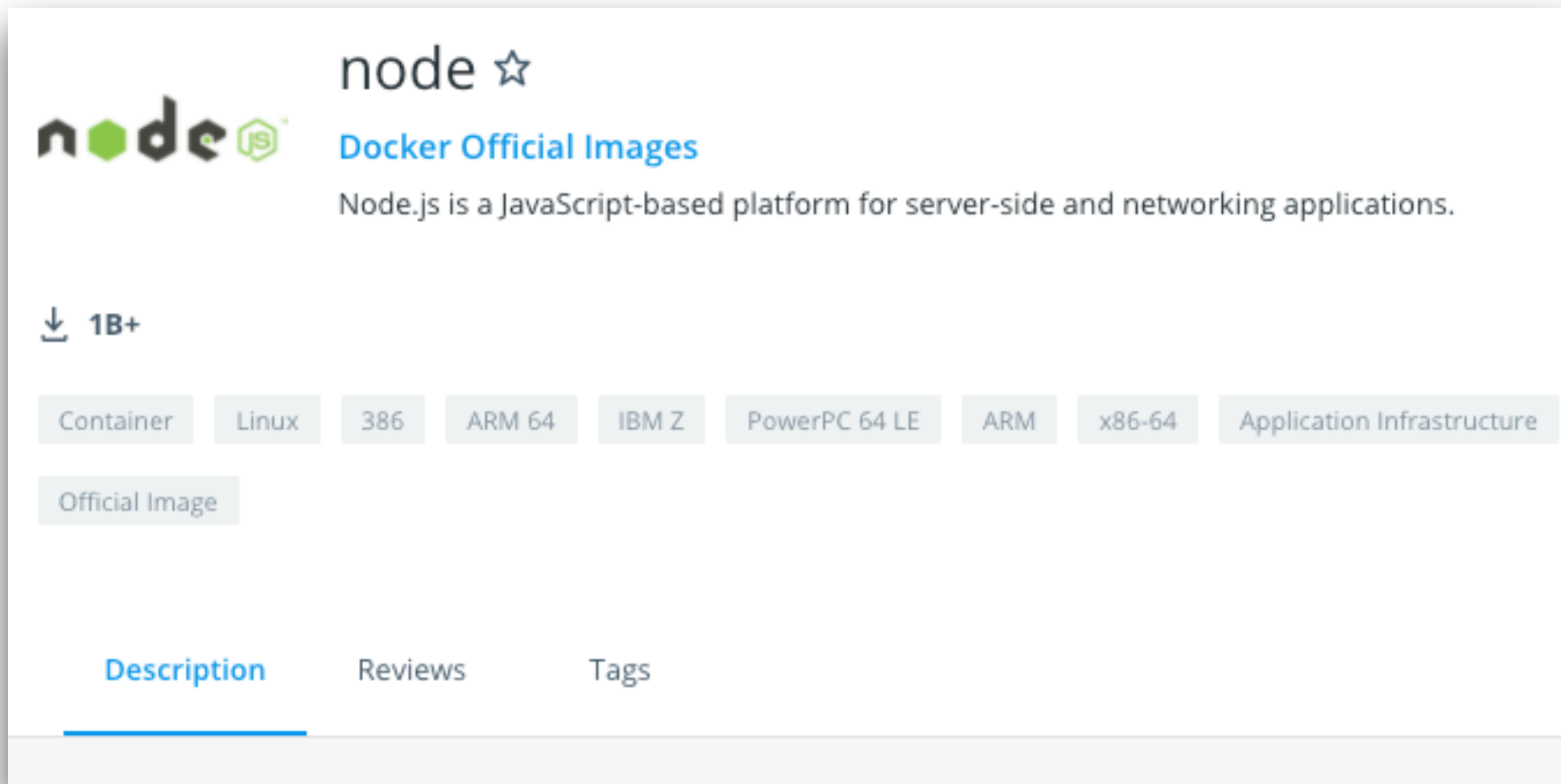


Backend



Node.js image

\$docker image pull node:<tag>



https://hub.docker.com/_/node



Create file Dockerfile

```
FROM node:14.5.0-stretch
WORKDIR /app
COPY . .
RUN npm install
EXPOSE 4000
CMD [ "npm", "start" ]
```

C



Create Docker Image

`$docker image build -t myapp:1.0.0 .`

```
Sending build context to Docker daemon 154.6kB
Step 1/6 : FROM node:14.5.0-stretch
14.5.0-stretch: Pulling from library/node
81fc19181915: Already exists
ee49ee6a23d1: Already exists
828510924538: Already exists
a8f58c4fcca0: Already exists
33699d7df21e: Pull complete
923705ffa8f8: Pull complete
7867af19f69c: Pull complete
6fa330d99257: Pull complete
48582f1cafc0: Pull complete
```

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



Create container from image

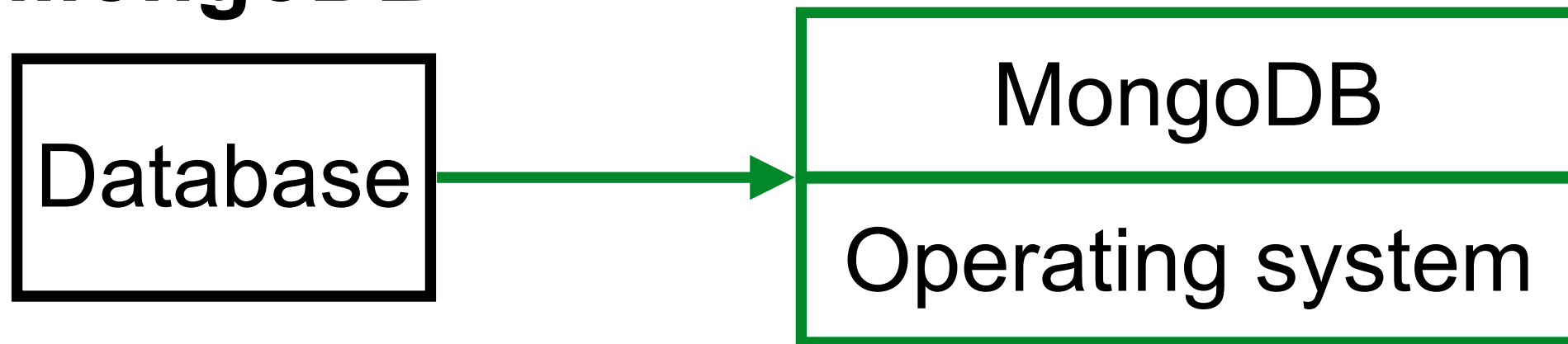
```
$docker container run -p 4000:4000  
myapp:1.0.0
```

```
$docker container ps
```



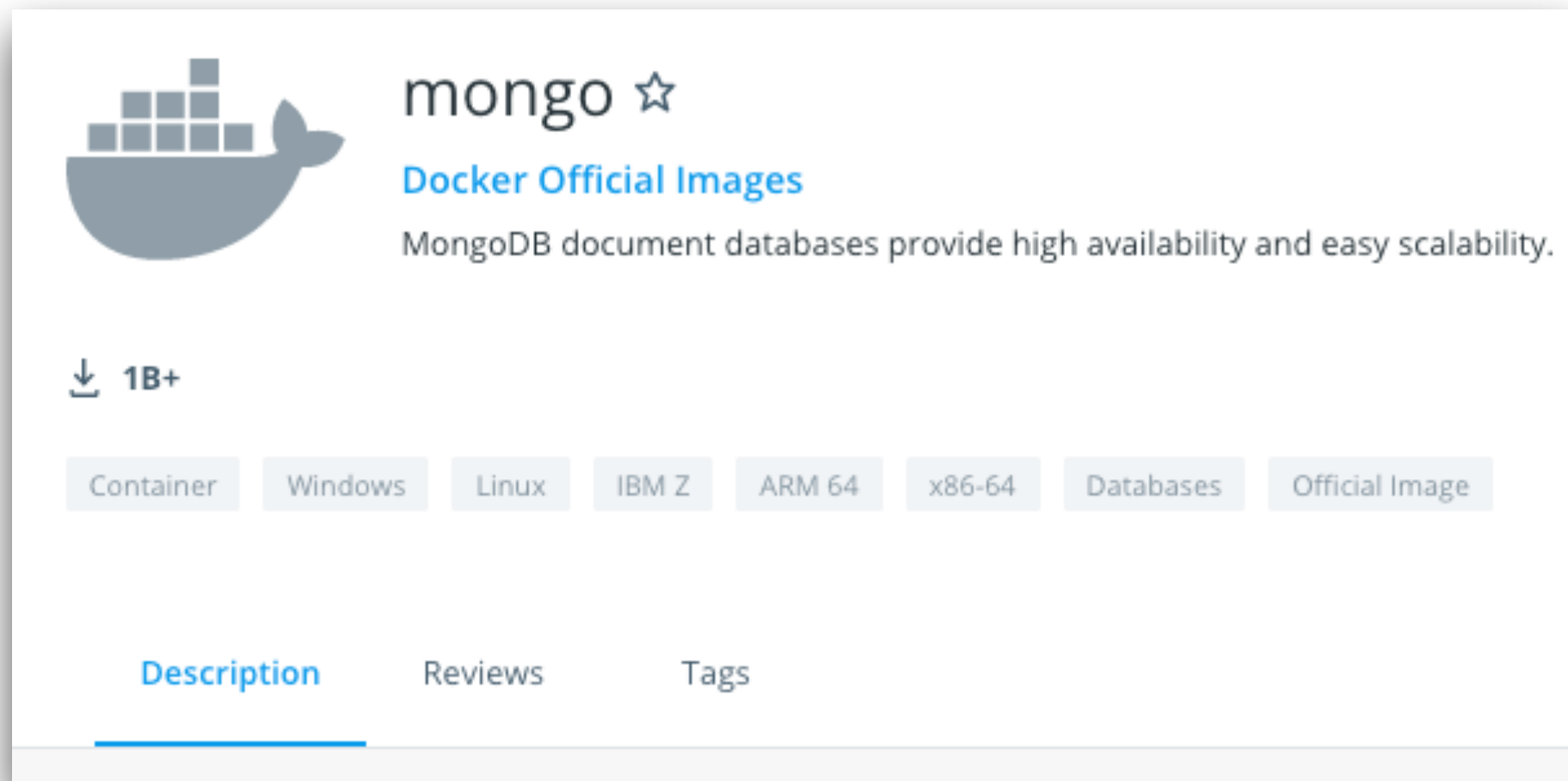
MongoDB

MongoDB



MongoDB image

`$docker image pull mongo:<tag>`



https://hub.docker.com/_/mongo



Create container from image

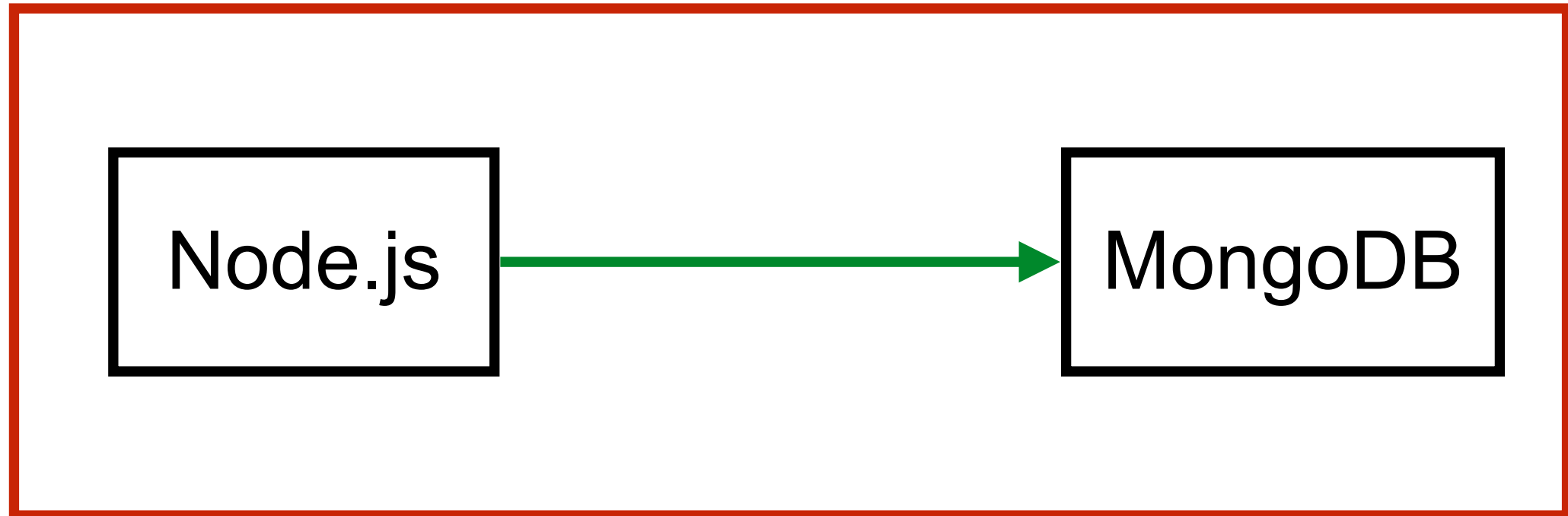
```
$docker container run -p 4000:4000  
myapp:1.0.0
```

```
$docker container ps
```



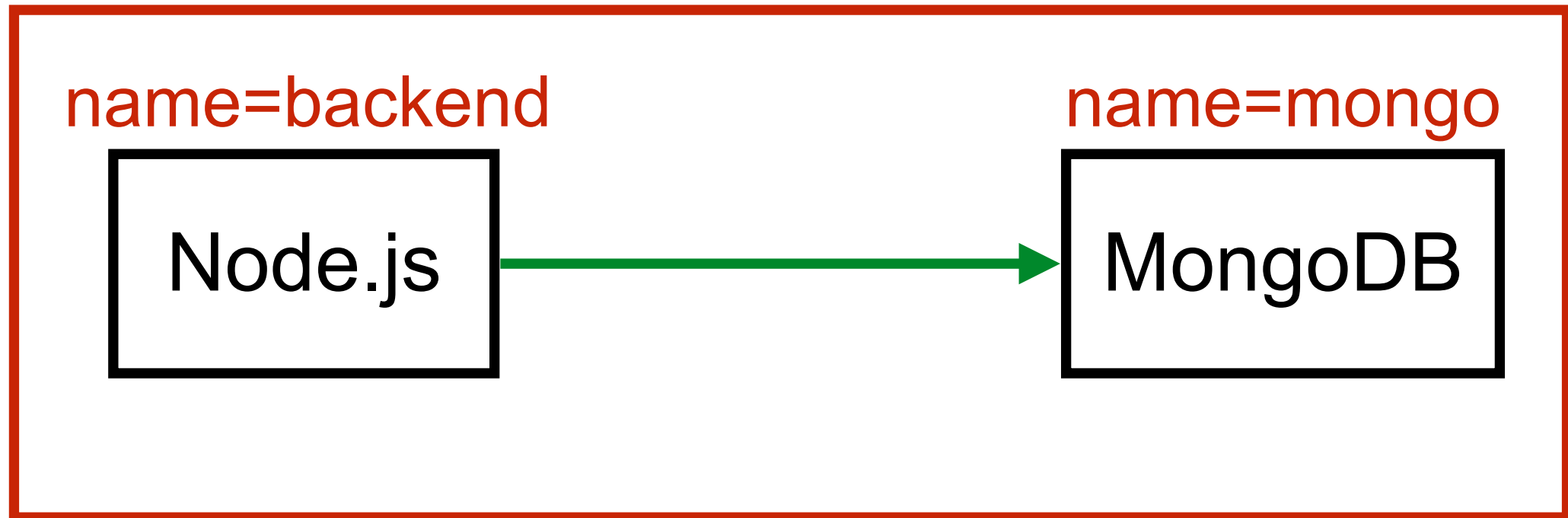
Working with network

Docker Network



Working with network

Docker Network = demo-network



Docker compose

<https://docs.docker.com/compose/>



Continuous Integration with Docker

