

DOCKER

DEVELOPMENT TO PRODUCTION

@kellyjandrews - @nexmodev



SOFTWARE ARCHITECT

INCONSISTENT TOOLCHAIN

2 WEEK

ON-BOARDING

**NO RELIABLE
TESTING ENV**

ENVIRONMENT SPECIFIC BUGS

MANUAL RELEASES

HEAVY GROWTH

=

BIG PROBLEMS

SOLUTION?

**WHAT *IS*
DOCKER?**

**SO A VIRTUAL
MACHINE?**

NO!

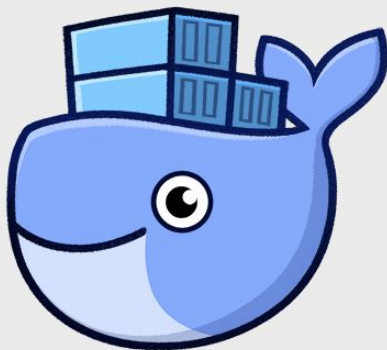
Application



READ/WRITE CONTAINER LAYER

READ-ONLY IMAGE LAYERS

TOOLCHAIN



Docker Desktop

Community

Version 2.0.0.0-mac81 (29211)

Channel: stable

4271b9e6a8



Engine: 18.09.0



Notary: 0.6.1



Compose: 1.23.2



Credential Helper: 0.6.0



Machine: 0.16.0



Kubernetes: v1.10.3

[Release Notes](#)

[Acknowledgements](#)

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FROM node:11.8.0-alpine

WORKDIR /usr/app

RUN apk update && apk add postgresql

COPY package.json .

RUN npm install --quiet

COPY . .

CMD ["npm", "start"]

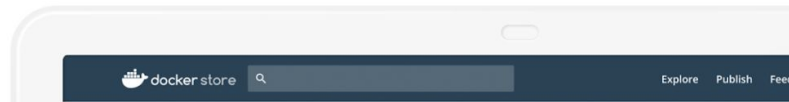
The Docker Store

Find Trusted and Enterprise Ready Containers, Plugins, and Docker Editions

 Docker EE Docker CE Containers Plugins

GET DOCKER

Get started with Docker





node

By [Docker](#)

Node.js is a JavaScript-based platform for server-side and networking applications.

 10M+

Container

Linux

x86-64

IBM Z

Application Infrastructure

Official Image

\$0.00

[Terms of Service](#)

Linux - x86-64

Copy and paste to pull this image

`docker pull node`



[View Available Tags](#)

DESCRIPTION

REVIEWS

RESOURCES

Supported tags and respective Dockerfile links

- [8.6.0](#), [8.6](#), [8](#), [latest](#) ([8.6/Dockerfile](#))
- [8.6.0-alpine](#), [8.6-alpine](#), [8-alpine](#), [alpine](#) ([8.6/alpine/Dockerfile](#))
- [8.6.0-onbuild](#), [8.6-onbuild](#), [8-onbuild](#), [onbuild](#) ([8.6/onbuild/Dockerfile](#))
- [8.6.0-slim](#), [8.6-slim](#), [8-slim](#), [slim](#) ([8.6/slim/Dockerfile](#))
- [8.6.0-stretch](#), [8.6-stretch](#), [8-stretch](#), [stretch](#) ([8.6/stretch/Dockerfile](#))
- [8.6.0-wheezy](#), [8.6-wheezy](#), [8-wheezy](#), [wheezy](#) ([8.6/wheezy/Dockerfile](#))
- [6.11.4](#), [6.11](#), [6](#), [boron](#) ([6.11/Dockerfile](#))
- [6.11.4-alpine](#), [6.11-alpine](#), [6-alpine](#), [boron-alpine](#) ([6.11/alpine/Dockerfile](#))
- [6.11.4-onbuild](#), [6.11-onbuild](#), [6-onbuild](#), [boron-onbuild](#) ([6.11/onbuild/Dockerfile](#))

Average Rating:



11 Ratings

```
version: '3.7'
services:
  web:
    build: .
    command: npm run dev
    volumes:
      - ./usr/app/
      - /usr/app/node_modules
    ports:
      - "3000:3000"
    depends_on:
      - postgres
    environment:
      DATABASE_URL: postgres://postgres@postgres
  postgres:
    image: postgres:9.6.2-alpine
```

NOW WHAT?

CREATE DOCKERFILE

```
FROM node:11.8.0-alpine as dev-stage
```

```
MAINTAINER Kelly J Andrews <kelly@kellyjandrews.com>
```

```
WORKDIR /usr/src
```

```
COPY package.json .
```

```
RUN npm install --quiet
```

```
ENV PATH /usr/src/node_modules/.bin:$PATH
```

```
COPY . .
```

```
EXPOSE 3000
```

```
CMD ["npm", "start"]
```

**DEFINE DEV
ENVIRONMENT**


```
version: "3.7"
services:
  app:
    build:
      context: .
      target: dev-stage
    command: ["npm", "run", "dev"]
    volumes:
      - ./usr/src/
      - /usr/src/node_modules
    ports:
      - "3000:3000"
```

**RUN THE
ENVIRONMENT**

STREAMLINED TOOLCHAIN

IMMEDIATE ON-BOARDING

CONTROL OVER ENVIRONMENTS

**WHAT ABOUT
TESTS?**

DOCKER IS
EPHEMERAL

RELIABLE TESTING ENVIRONMENT

REMOTE TESTING
IS HARD

DEPLOYMENTS?

MANUAL OR
AUTOMATED

ENVIRONMENT
IS DONE

SWARM/K8S FOR ORCHESTRATION

TEXT “JOKE”

613-482-0609

THANKS!

@kellyjandrews