

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

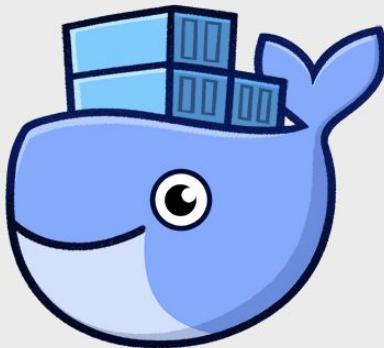


READ/WRITE CONTAINER LAYER

READ-ONLY IMAGE LAYERS

TOOLCHAIN

About Docker Desktop



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

 Search for great content (e.g. mysql)

 Docker EE

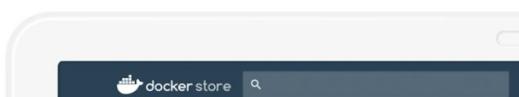
Docker CE

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