Jorge Dias

Docker on Rails

— mgm —

About me

— mgm —

Devops @ Xing / Development & Testing infrastructure

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Docker introduction

Docker - An open platform for distributed applications for developers and sysadmins.

Docker enables apps to be quickly assembled from components

Eliminates the friction between development, QA, and production environments.

Run the same app, unchanged, on laptops, data center VMs, and any cloud.

Docker Basics Demo

Our test app: https://github.com/copycopter/copycopter-server

Dockerizing our applications dependencies



5e70c8a494ea731e9d365662d8009b6e0e5fb3fca277263dbe7dbbec97823cd3

docker ps

CONTAINER ID 5e70c8a494ea

IMAGE postgres:latest COMMAND "/docker-entrypoint.

CREATED 2 days ago STATUS

PORTS Up Less than a second 0.0.0.0:5432->5432/tcp copycopter-postgres

NAMES

Updating our config/database.yml

development: &default
 adapter: postgresql

database: copycopter_development

min_messages: WARNING

host: <%= ENV['POSTGRES_HOST'] %>
username: <%= ENV['POSTGRES_USER'] %>
password: <%= ENV['POSTGRES_PASSWORD'] %>

test: &test
 <<: *default</pre>

database: copycopter_test

Let's run our application locally with our changes

Dockerizing the app



```
FROM ruby:2.1.5

RUN apt-get update && DEBIAN_FRONTEND=noninteractive apt-get install -y nodejs libqt4-dev && rm -rf /var/lib/apt/lists/*

RUN usr/sbin/useradd --c-ate-home --home-dir /app --shell /bin/bash copycopter

WORKDIR /app

COPY Gemfile* /app/

RUN bundle install

ADD . /app

RUN chown -R copycopter:copycopter /app

USER copycopter

CMD ["rails", "server"]
```

docker build -t copycopter-app .

```
Sending build context to Docker daemon 4.231 MB
Sending build context to Docker daemon
Step 0 : FROM ruby:2.1.5
---> 2555e4979e69
                                  DEBIAN_FRONTEND=noninteractive apt-get install -y
                                                                                                   libqt4-dev &&
                                                                                                                     rm -rf /var/lib/apt/lists/*
Step 1 : RUN apt-get update &&
                                                                                        nodejs
---> Using cache
---> 144fc3b2021b
Step 2 : RUN usr/sbin/useradd --create-home --home-dir /app --shell /bin/bash copycopter
---> Using cache
---> aef3c31b9b19
Step 3: WORKDIR /app
---> Using cache
---> 8ebe02812d9e
Step 4 : COPY Gemfile* /app/
---> Using cache
---> b0da3d4fb821
Step 5 : RUN bundle install
---> Using cache
---> a10705098e5e
Step 6 : ADD . /app
---> Using cache
---> f3ebfb7860c7
Step 7: RUN chown -R copycopter:copycopter /app
---> Using cache
---> 80d612aee4f9
Step 8 : USER copycopter
---> Using cache
---> 2a6591b4cfc6
Step 9 : CMD rails server
---> Using cache
---> caf23490eebe
Successfully built caf23490eebe
```

Let's run our application inside docker

______ we's _____

Fig introduction

______ wgs _____

Fast, isolated development environments using Docker

Creating our fig.yml

```
web:
  build: .
  ports:
   - "3000:3000"
  links:
   postgres
 volumes:
   - ".:/app"
 environment:
   POSTGRES_HOST: 'postgres'
   POSTGRES_PASSWORD: 'copycopter-dev'
    POSTGRES_USER: 'copycopter'
postgres:
  image: 'postgres'
  environment:
   POSTGRES_USER: 'copycopter'
   POSTGRES_PASSWORD: 'copycopter-dev'
```

Let's run our application using fig

______ wgs _____

That's all, thanks!

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