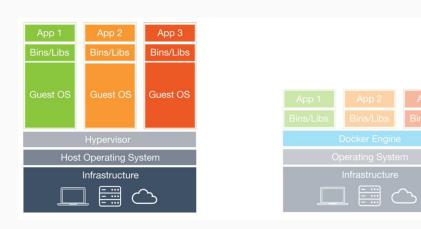


DevCouch 05/05/2016

What is Docker?

Docker containers wrap up a piece of software in a complete filesystem that contains everything it needs to run: code, OS, php, node (etc) – anything you can install on a server.

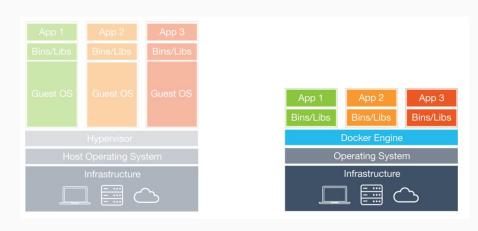
Vagrant vs Docker



Vagrant

- Downloads/Installs an OS and programmes for every machine you create
- Uses more disk space
- Slow build times

Vagrant vs Docker



Docker

- Share resources between containers (OS and libraries)
- Quicker build times
- Less disk space
- Ability to create versions and images

Docker Toolbox



Docker toolbox includes everything you need to get started

- Docker command line
- Docker engine
- Docker compose (?)
- And a program called kitematic

Apply for docker (beta) instead - https://beta.docker.com/

Dockerfile

FROM debian:latest

MAINTAINER Luke Barratt luke.barratt@creare.uk

Add dotdeb.org package

RUN echo 'deb http://packages.dotdeb.org jessie all' >> /etc/apt/sources.list RUN echo 'deb-src http://packages.dotdeb.org jessie all' >> /etc/apt/sources.list

ADD https://www.dotdeb.org/dotdeb.gpg .

RUN apt-key add dotdeb.gpg

RUN apt-get update -v

RUN apt-get install -y nginx php-fpm php-mysql php-curl curl git redis-server nodejs npm cron rsyslog supervisor php7.0-gd vim nano

RUN echo "daemon off;" >> /etc/nginx/nginx.conf

RUN echo "cgi.fix_pathinfo=0" >> /etc/php/7.0/fpm/php.ini

RUN sed -i -e"s/^memory_limit\s=\s128M/memory_limit = 512M/" /etc/php/7.0/fpm/php.ini

RUN sed -i -e"s/^;clear_env\s=\sno/clear_env = no/" /etc/php/7.0/fpm/pool.d/www.conf

RUN sed -i -e"s/^;daemonize\s=\syes/daemonize = no/" /etc/php/7.0/fpm/php-fpm.conf

RUN sed -i -e"s/^bind\s*127.0.0.1/#bind 0.0.0.0/" /etc/redis/redis.conf

RUN sed -i -e"s/^variables_order\s*=\s*\"GPCS\"/variables_order=\"EGPCS\"/" /etc/php/7.0/fpm/php.ini

RUN sed -i -e"s/^variables_order\s*=\s*\"GPCS\"/variables_order=\"EGPCS\"/" /etc/php/7.0/cli/php.ini

ADD /var/www/html

RUN In -s /usr/bin/nodejs /usr/bin/node

RUN cd /var/www/html/public; npm install

ADD docker_files/default /etc/nginx/sites-available/default

ADD docker files/envs.php /opt/envs.php

ADD docker_files/supervisor /etc/supervisor/conf.d

RUN touch /var/www/html/.env

RUN php -f /opt/envs.php

RUN service php7.0-fpm start

RUN curl -sS https://getcomposer.org/installer | php -- -install-dir=/usr/local/bin -filename=composer

RUN composer --working-dir=/var/www/html install --prefer-source --no-interaction

RUN chgrp -R www-data /var/www/html

RUN chmod -R 777 /var/www/html/storage

RUN chmod -R 777 /var/www/html/vendor/mpdf

RUN chmod -R 775 /var/www/html/bootstrap/cache

RUN crontab -I | { cat; echo "* * * * * php /var/www/html/artisan schedule:run"; } | crontab -RUN cron -I 15

EXPOSE 80 3000 3001 6379

EXPUSE 80 3000 3001 6379

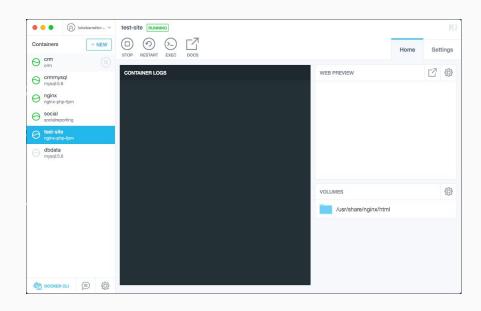
CMD (php -f /opt/envs.php && /usr/bin/supervisord -n)

Building and Running

- Navigate to folder with dockerfile
- docker build -t lukebarrattcreare/crm .
- docker run -p 80:80 --name crm -v \$(pwd):/var/www/html -d lukebarrattcreare/crm

More simple way to get a container

- docker pull richarvey/nginx-php-fpm (example of nginx and php container)
- docker run -p 8080:80 --name test-site -v \$(pwd):/usr/share/nginx/html -d richarvey/nginx-php-fpm
- Your site should then be at your docker ip which is usually - http://192.168.99.100: 8082/



Any questions? Come ask me!