

DevOps I'm Not a Programer

Infrastructure as Code

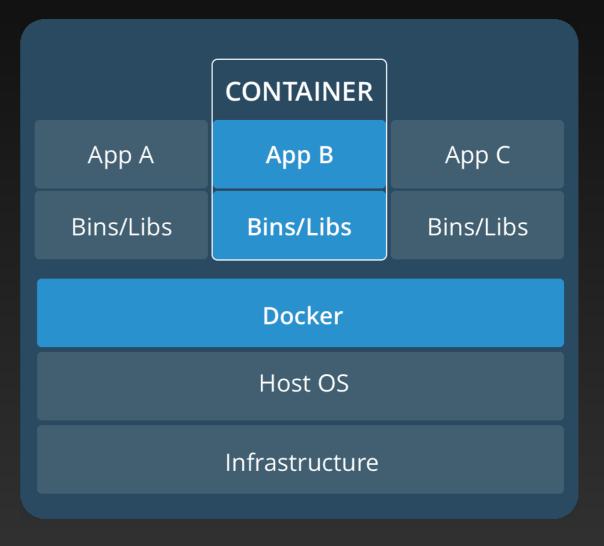
I'm Not a Programer

```
function register()
   if (lempty(S_POST)) (
       Details - 1 1
       if (5 FOST[ weer name 1) {
           if (# POST['user password new']) {
               if ($ POST( user password new') --- $ POST( user password repeat 1) (
                    if (strlen(5 POST[ user password new']) > 5) (
                        if (atrion(& POST( neer name 1) < 65 &# atrion(& POST( aner name 1) > 1) (
                            if (prog match('/'(a-s\d](7,64)$/1', $ 2057['sser name'])) {
                                funer = read_user(% POST( user_name 1))
                                if (timest(funnt['unnt_nonn'])) {
                                    if (0 7007] user enail'1) {
                                        if (strich(& POST[ meer email 1) < 65) {
                                            if (filter_var(% POST('sess_email'), FILTER_VALIDATE_EMAIL)) (
                                                dreate user();
                                                5 SERSIONI'mag' I - 'You are now registered so please login's
                                                header( Location: " . 4 SERVER[ PEP SELF ]);
                                                exit();
                                              else ineq - "You must provide a valid email address';
                                        ) else frag - 'Smail must be less than 64 characters';
                                    | clac Smay = "Email cannot be empty's
                                ) else twog - 'Unername already exists';
                            ) else Caso - 'Document must be only a-c, A-2, 0-0';
                        | else Amog = 'Dampnann must be between 2 and 62 characters';
                    ) else fing - "Pennword must be at least & characters";
                ) else fineg " 'Fannwords do not match';
           } olse Smag - 'Empty Pansword';
        ) else trag - 'Empty Coername';
        s sussicht nog 1 - dang;
    return register_form();
                                                                                                     विद्विभागा
```

VM

Docker

	VM	
Арр А	App B	Арр С
Bins/Libs	Bins/Libs	Bins/Libs
Guest OS	Guest OS	Guest OS
Hypervisor		
Infrastructure		



Containerization

Shopping Web

CONTAINER

PHP

Debian

Image

phpMyAdmin

CONTAINER

phpMyAdmi

Ubuntu

Image

Database

CONTAINER

MySQL

Ubuntu

Image

Containerization

Shopping Web

CONTAINER

ReactJS

Alpine

Image

Shopping API

CONTAINER

JAVA

Debian

Image

Database

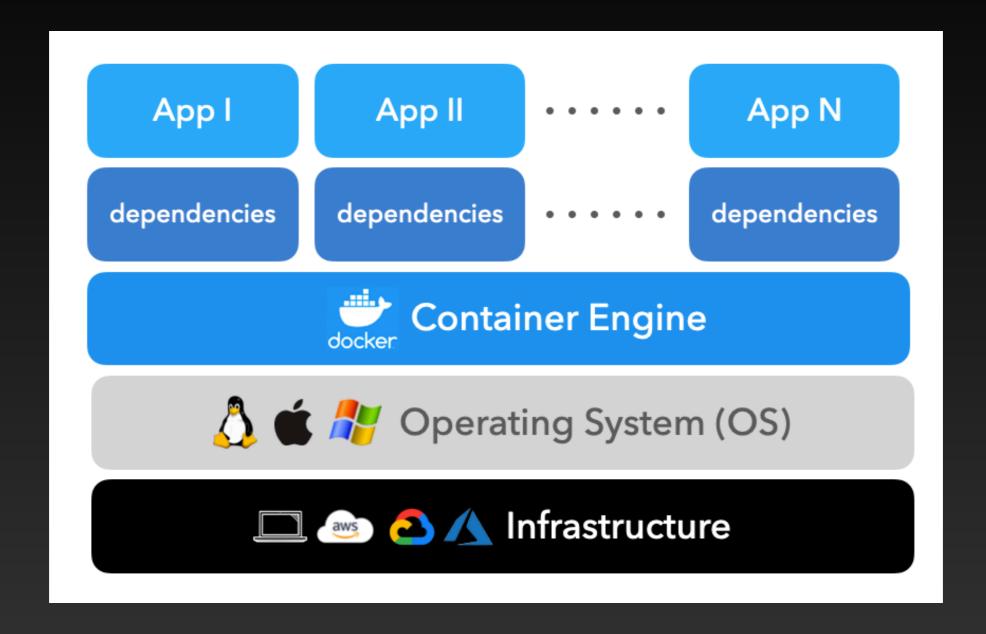
CONTAINER

MySQL

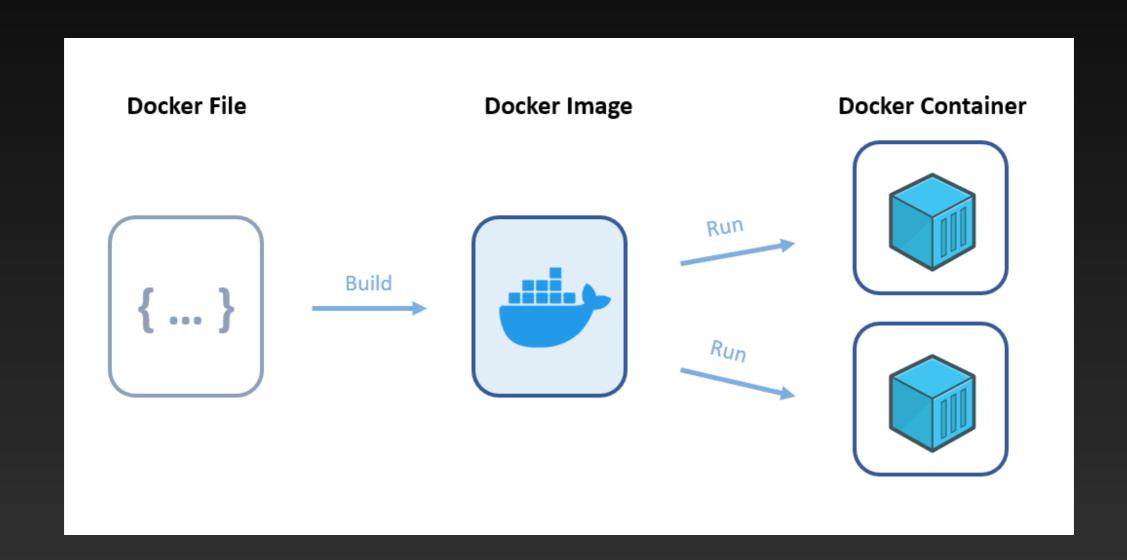
Ubuntu

Image

Architecture



Infrastructure as Code



DevOpsMicroservices Architecture

https://www.blognone.com/node/95873

Workshop Docker

Hello World Docker

Hello World Docker

\$ docker run hello-world

Create Project Docker

Dockerfile Docker

Dockerfile

./php/Dockerfile

```
FROM php:8.0-apache
RUN docker-php-ext-install mysqli && docker-php-ext-enable mysqli
RUN apt-get update && apt-get upgrade -y
```

EXPOSE 80

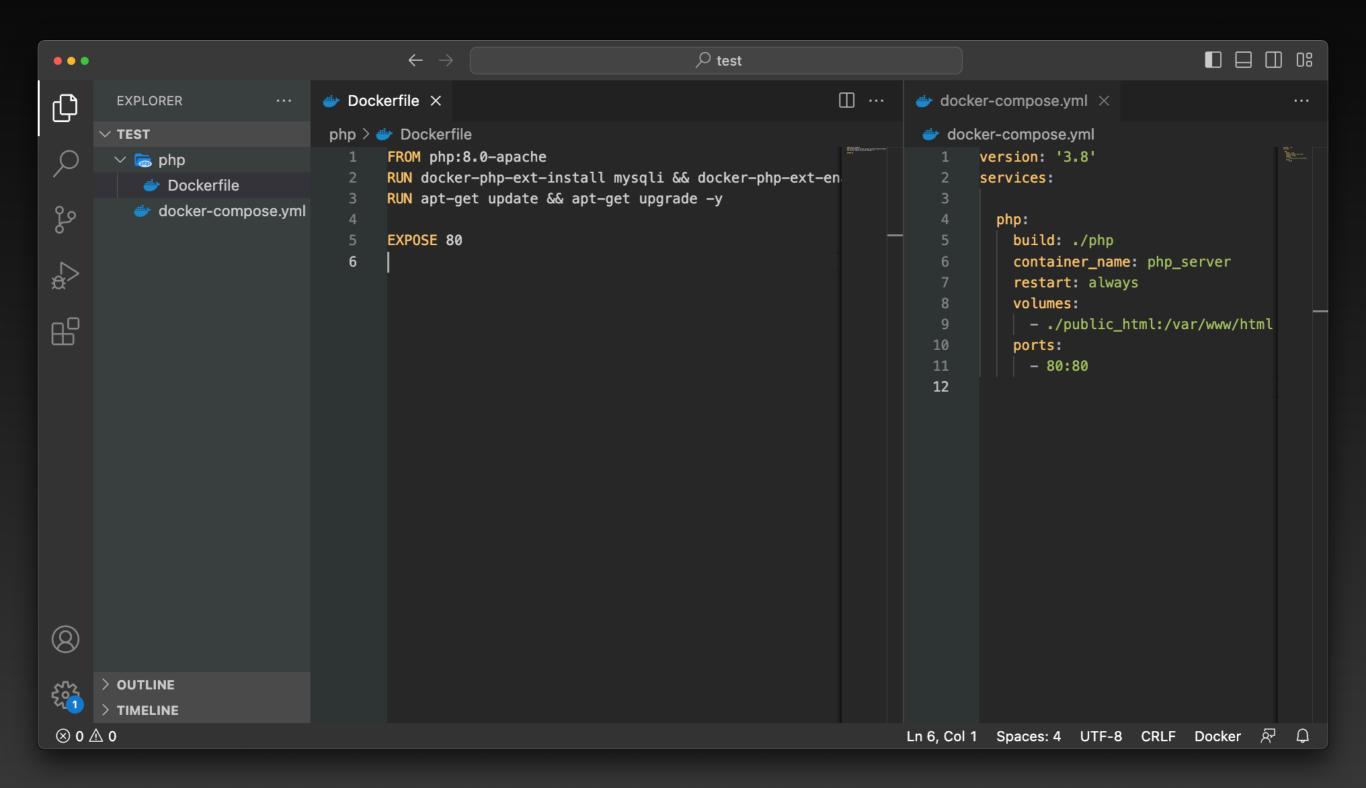
Docker Compose Docker

Docker Compose

./docker-compose.yml

```
version: '3.8'
services:
 php:
   build: ./php
    container name: php server
    restart: always
    depends on:
      - db
    volumes:
      - ./public html:/var/www/html
    ports:
      - 80:80
```

Project



Test Run Docker Docker

Test Run Docker Docker

- 1. Build Image
 - \$ docker compose build
- 2. Run
 - \$ docker compose up -d
- 3. Down
 - \$ docker compose down

Docker CLI

docker command-line interface

- 1. Show Image?
 - \$ docker images
- 2. Show Running Container, All Container
 - \$ docker ps
 - \$ docker ps -a
- 3. Show Log Container
 - \$ docker logs -f <container_name>
- 4. Delete Container
 - \$ docker rm -f <container_name>
- 5. Delete Container
 - \$ docker rmi <image_name>
- 6. etc,...

Deployment Docker

LMP Stack

Linux + Mysql + Php

github.com/foptun/kvc-docker

Server Example Docker

WSL Install WSL2

- wsl —version
- wsl —update

Ref

• https://9mza.net/post/docker-apache-php-mysql