**Manual técnico - Sistema de información LLANURA**

**Ambiente de desarrollo:**

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| --- | --- |
| **Software** | **Versión** |
| S.O. Gnu/Linux - Ubuntu | 22.04 |
| Docker | 26.1.3 |
| Docker Compose | 2.27.0 |

**Herramientas aplicación:**

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| **Software** | **Versión** |

|  |  |
| --- | --- |
| PHP | 8.2 |
| MySql | 5.7.44 |
| Phpmyadmin | 5.2.1 |
| Apache | 2.4.57 |
| Composer | 2.7.6 |

Estructura inicial de archivos en el archivo **estructura.txt**

**Contenedores:**

**Dockerfile** para php:

FROM php:8.2-apache

RUN apt-get update && apt-get install -y \

libzip-dev \

zip \

unzip \

libpng-dev \

libjpeg-dev \

libfreetype6-dev \

&& docker-php-ext-configure gd --with-freetype --with-jpeg \

&& docker-php-ext-install pdo pdo\_mysql gd zip

RUN a2enmod rewrite

**docker-compose.yml** del sistema informático:

version: '3.8'

services:

app:

build:

context: .

dockerfile: docker/php/Dockerfile

container\_name: app

ports:

- "8080:80"

volumes:

- ./laravel:/var/www/html

- ./docker/php/vhost.conf:/etc/apache2/sites-available/000-default.conf

- ./docker/php/php.ini:/usr/local/etc/php/php.ini

environment:

APACHE\_DOCUMENT\_ROOT: /var/www/html/public

networks:

- lamp-network

depends\_on:

- db

db:

image: mysql:5.7

container\_name: db

environment:

MYSQL\_ROOT\_PASSWORD: alvarado123

MYSQL\_DATABASE: llanura\_bd

MYSQL\_USER: alvarado

MYSQL\_PASSWORD: alvarado123

volumes:

- db-data:/var/lib/mysql

networks:

- lamp-network

phpmyadmin:

image: phpmyadmin/phpmyadmin

container\_name: phpmyadmin

environment:

PMA\_HOST: db

MYSQL\_ROOT\_PASSWORD: alvarado123

ports:

- "8081:80"

depends\_on:

- db

networks:

- lamp-network

composer:

image: composer:latest

container\_name: composer

volumes:

- ./laravel:/app

networks:

- lamp-network

entrypoint: ["tail", "-f", "/dev/null"] # Mantener el contenedor en ejecución

volumes:

db-data:

networks:

lamp-network:

**comandos de consola**

en raiz del directorio que contiene el proyecto:

docker-compose up -d

docker-compose exec composer composer create-project --prefer-dist laravel/laravel .

**Permisos:**

sudo chown -R $USER:www-data laravel/storage laravel/bootstrap/cache

sudo chmod -R 775 laravel/storage laravel/bootstrap/cache

docker-compose exec app bash

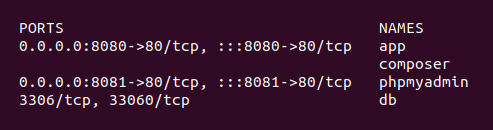
chown -R www-data:www-data /var/www/html/storage /var/www/html/bootstrap/cache

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

exit

docker-compose exec app php artisan migrate

**dockers corriendo:**

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