

MongoDB and Laravel with Docker

Docker Compose

```
version: '3'

services:
  nginx:
    build:
      context: .
      dockerfile: nginx.dockerfile
    ports:
      - 80:80
    volumes:
      - ./:/var/www/html
    depends_on:
      - php
      - mongo
    networks:
      - app-network

  php:
    build:
      context: .
      dockerfile: php.dockerfile
    volumes:
      - ./:/var/www/html
    networks:
      - app-network

  mongo-express:
    image: mongo-express
    ports:
      - 8081:8081
    environment:
      ME_CONFIG_BASICAUTH_USERNAME: gustavo
      ME_CONFIG_BASICAUTH_PASSWORD: gustavo
      ME_CONFIG_MONGODB_PORT: 27017
      ME_CONFIG_MONGODB_ADMINUSERNAME: root
      ME_CONFIG_MONGODB_ADMINPASSWORD: gustavo
    links:
```

```

        - mongo
    networks:
        - app-network

mongo:
    image: mongo
    environment:
        MONGO_INITDB_ROOT_USERNAME: root
        MONGO_INITDB_ROOT_PASSWORD: gustavo
    ports:
        - "27017:27017"
    volumes:
        - .docker/dbdata:/data/db
    networks:
        - app-network

networks:
    app-network:
        driver: bridge

```

Docker file PHP

```

FROM php:7.4-fpm-alpine

# ADD ./php/www.conf /usr/local/etc/php-fpm.d/www.conf

RUN addgroup -g 1000 wp && adduser -G wp -g wp -s /bin/sh -D wp

RUN mkdir -p /var/www/html

RUN chown wp:wp /var/www/html

WORKDIR /var/www/html

RUN docker-php-ext-install mysqli pdo pdo_mysql && docker-php-ext-enable pdo_mysql \
    && apk --update add --virtual build-dependencies build-base openssl-dev autoconf \
    && pecl install mongodb \
    && docker-php-ext-enable mongodb \
    && apk del build-dependencies build-base openssl-dev autoconf \

```

```
&& rm -rf /var/cache/apk/*
```

Docker file NGINX

```
FROM nginx:stable-alpine
ADD ./nginx/default.conf /etc/nginx/conf.d/default.conf
```

NGINX default.conf

```
upstream php {
    server unix:/tmp/php-cgi.socket;
    server php:9000;
}

server {
    listen 80;
    server_name wordpress-docker.test;

    root /var/www/html/public;

    index index.php;

    location / {
        try_files $uri $uri/ /index.php?$args;
    }

    location ~ \.php$ {
        include fastcgi.conf;
        fastcgi_intercept_errors on;
        fastcgi_pass php;
    }

    location ~* \.(js|css|png|jpg|jpeg|gif|ico)$ {
        expires max;
        log_not_found off;
    }
}
```

Laravel config/database.php

```
'mongodb' => [
    'driver' => 'mongodb',
```

```

        'host'      => env('MONGO_DB_HOST'),
        'port'      => env('MONGO_DB_PORT', 27017),
        'database' => env('MONGO_DB_DATABASE'),
        'username' => env('MONGO_DB_USERNAME'),
        'password' => env('MONGO_DB_PASSWORD'),
        'options'   => []
    ],

```

Laravel app providers

```
Jenssegers\Mongodb\MongodbServiceProvider::class,
```

Laravel Model Example

```

<?php

namespace App\Models;

use Illuminate\Database\Eloquent\Factories\HasFactory;
use Jenssegers\Mongodb\Eloquent\Model as Model;

class Post extends Model
{
    use HasFactory;
    protected $connection = 'mongodb';
    protected $collection = 'posts';
    protected $fillable = [
        'title', 'content'
    ];
}

```

Disable auth on API routes

Script: app/Http/Middleware/VerifyCsrfToken.php

Add the route in the except array

```

protected $except = [
    'posts/'
];

```

Docker commands

```

docker-compose up -d --build
docker exec -it mongolaravel_php_1 sh
apk update

```

```
apk add composer
composer require jenssegers/mongodb
docker exec -it mongolaravel_nginx_1 sh
chmod -R 777 /var/www/html/storage/
```

Result GET

The screenshot shows a web browser window with the URL `localhost/posts`. The response body is a JSON array of two objects, each representing a post. The first post has a title of "test" and content "test". The second post has a title of "gustavo is the best one!" and content "gustavo is the best one!". The response is displayed in a REST client interface.

Below the response, a network waterfall chart is visible, showing the loading of various resources. The chart includes a table with the following columns: Name, Status, Type, Initiator, Size, Time, and Waterfall.

Name	Status	Type	Initiator	Size	Time	Waterfall
posts	200	doc...	Other	560 B	22...	
CircularXXWeb-B...	200	font	posts	(m...	0 ms	
content.css	200	xhr	content...	61...	47 ...	
favicon.ico	200	x-ic...	Other	311 B	8 ms	