

# Webtrees in einem docker container

## How to Set Up Nginx, MariaDB, and PHP with Docker Compose

- <https://linuxiac.com/how-to-set-up-lemp-stack-with-docker-compose/>

### docker-compose.yaml

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```
version: '3.8'

# Services
services:

  # PHP Service
  php:
    build:
      dockerfile: php-dockerfile
    volumes:
      - './php-files:/var/www/html'
      - './php.ini:/usr/local/etc/php/php.ini'

    depends_on:
      - mariadb

  # Nginx Service
  nginx:
    image: nginx:latest
    ports:
      - 8087:80
    links:
      - 'php'
    volumes:
      - './php-files:/var/www/html'
      - './nginx-conf:/etc/nginx/conf.d'
    depends_on:
      - php

  # MariaDB Service
  mariadb:
    image: mariadb:10.9
    environment:
      MYSQL_ROOT_PASSWORD: uhpc49C5+#
```

```
    volumes:
      - mysqldata:/var/lib/mysql

# phpMyAdmin Service
phpmyadmin:
  image: phpmyadmin/phpmyadmin:latest
  ports:
    - 8082:80
  environment:
    PMA_HOST: mariadb
    UPLOAD_LIMIT: 100M
  depends_on:
    - mariadb

# Volumes
volumes:

  mysqldata:
```

## php-dockerfile

### php-dockerfile

```
FROM php:8.1-fpm

# Installing dependencies for the PHP modules
RUN apt-get update && \
    apt-get install -y zip libzip-dev libpng-dev php-curl php-mbstring

# Installing additional PHP modules
RUN docker-php-ext-install mysqli pdo pdo_mysql gd zip mbstring curl
exif intl
```

## php-files/index.php

```
<?php phpinfo(); ?>
```

## nginx-conf/nginx.conf

### nginx.conf

```
server {
```

```
listen 80 default_server;
listen [::]:80 default_server;
server_name localhost;
client_max_body_size 30m;

root /var/www/html;
index index.php index.html;

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

location ~* \.php$ {
    fastcgi_pass php:9000;
    include fastcgi_params;
    fastcgi_param SCRIPT_FILENAME
$document_root$fastcgi_script_name;
    fastcgi_param SCRIPT_NAME $fastcgi_script_name;
}
}
```

## How to Create Nginx Virtual Host (Server Block)

- <https://linuxiac.com/nginx-virtual-host/>

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