

Пишем Dockerfile для PHP-FPM

Что такое PHP?

PHP — это язык сценариев на стороне сервера, предназначенный для веб-разработки, но его также можно использовать как язык программирования общего назначения



Создание Dockerfile с PHP

Первый вариант:

```
FROM php:7.4-cli
COPY . /usr/src/myapp
WORKDIR /usr/src/myapp
CMD [ "php", "./your-script.php" ]
```

```
$ docker build -t my-php-app .
$ docker run -it --rm --name my-running-app my-php-app
```

Второй вариант:

```
$ docker run -it --rm --name my-running-script -v "$PWD":/usr/src/myapp
-w /usr/src/myapp php:7.4-cli php your-script.php
```

Как установить дополнительные расширения PHP




```
FROM php:7.4-cli  
RUN docker-php-source extract \  
    # do important things \  
    && docker-php-source delete
```

Расширения ядра PHP

```
FROM php:7.4-fpm
RUN apt-get update && apt-get install -y \
    libfreetype6-dev \
    libjpeg62-turbo-dev \
    libpng-dev \
    && docker-php-ext-configure gd --with-freetype --with-jpeg \
    && docker-php-ext-install -j$(nproc) gd
```

Сделаем Dockerfile с nginx и PHP

1. Создаём каталоги

 config	remove default packages
 src	rearrange folders versioning
 .dockerignore	rearrange folders versioning
 Dockerfile	change to alpine 3.11

2. Сконфигурируем наш сервер в папке config

Все файлы, для удобства, мы положили сюда:

<https://github.com/darkbenladan/docker-phpfpm-nginx>

Чтобы их скачать, необходимо выполнить

`git clone https://github.com/darkbenladan/docker-phpfpm-nginx`

Если у вас не установлен git — выполните `apt-get install git -y`

3. Мы всё скачали, теперь давайте разберёмся в содержимом dockerfile

Pa36op Dockerfile

```
FROM alpine:3.11
ADD https://dl.bintray.com/php-alpine/key/php-alpine.rsa.pub /etc/apk/keys/php-alpine.rsa.pub
RUN apk --update add ca-certificates
RUN echo "https://dl.bintray.com/php-alpine/v3.11/php-7.4" >> /etc/apk/repositories
RUN apk --no-cache add php php-fpm php-opcache php-openssl php-curl \
    nginx supervisor curl
RUN ln -s /usr/bin/php7 /usr/bin/php
COPY config/nginx.conf /etc/nginx/nginx.conf
RUN rm /etc/nginx/conf.d/default.conf
COPY config/fpm-pool.conf /etc/php7/php-fpm.d/www.conf
COPY config/php.ini /etc/php7/conf.d/custom.ini
COPY config/supervisord.conf /etc/supervisor/conf.d/supervisord.conf
RUN mkdir -p /var/www/html
RUN chown -R nobody.nobody /var/www/html && \
    chown -R nobody.nobody /run && \
    chown -R nobody.nobody /var/lib/nginx && \
    chown -R nobody.nobody /var/log/nginx
USER nobody
WORKDIR /var/www/html
COPY --chown=nobody src/ /var/www/html/
EXPOSE 8080
CMD ["/usr/bin/supervisord", "-c", "/etc/supervisor/conf.d/supervisord.conf"]
HEALTHCHECK --timeout=10s CMD curl --silent --fail http://127.0.0.1:8080/fpm-ping
```

Запускаем наше ПО


```
docker build -t php-fpm-nginx .
docker images -a
docker run -d -p 8080:8080 php-fpm-nginx
docker ps
http://localhost:8080
```

```
root@hell:/home/kryl/newhell/docker-phpfpm-nginx/7.4# docker build .
Sending build context to Docker daemon 16.38kB
Step 1/19 : FROM alpine:3.11
3.11: Pulling from library/alpine
0a6724ff3fcd: Pull complete
Digest: sha256:0bd0e9e03a022c3b0226667621da84fc9bf562a9056130424b5bfbd8bcb0397f
Status: Downloaded newer image for alpine:3.11
--> 5c534be56eca
Step 2/19 : ADD https://dl.bintray.com/php-alpine/key/php-alpine.rsa.pub /etc/apk/keys/php-alpine.rsa.pub
Downloading [=====] 451B/451B
--> 3427065920eb
Step 3/19 : RUN apk --update add ca-certificates
--> Running in 3b34f20ba128
fetch http://dl-cdn.alpinelinux.org/alpine/v3.11/main/x86_64/APKINDEX.tar.gz
fetch http://dl-cdn.alpinelinux.org/alpine/v3.11/community/x86_64/APKINDEX.tar.gz
(1/1) Installing ca-certificates (20191127-r2)
Executing busybox-1.31.1-r9.trigger
Executing ca-certificates-20191127-r2.trigger
OK: 6 MiB in 15 packages
Removing intermediate container 3b34f20ba128
--> aff51c77d255
Step 4/19 : RUN echo "https://dl.bintray.com/php-alpine/v3.11/php-7.4" >> /etc/apk/repositories
--> Running in e69c54fcf488
Removing intermediate container e69c54fcf488
--> 4187230c0430
Step 5/19 : RUN apk --no-cache add php php-fpm php-opcache php-openssl php-curl nginx supervisor curl
--> Running in 550530884bf3
```

localhost:8080

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PHP Version 7.4.14



System	Linux 18caa3b3898a 5.4.0-65-generic #73~18.04.1-Ubuntu SMP Tue Jan 19 09:02:24 UTC 2021 x86_64
Build Date	Jan 10 2021 13:43:12
Configure Command	./configure '--build=x86_64-alpine-linux-musl' '--host=x86_64-alpine-linux-musl' '--prefix=/usr' '--program-suffix=7' '--libdir=/usr/lib/php7' '--datadir=/usr/share/php7' '--sysconfdir=/etc/php7' '--localstatedir=/var' '--with-layout=GNU' '--with-pic' '--with-password-argon2' '--with-pear=/usr/share/php7' '--with-config-file-path=/etc/php7' '--with-config-file-scan-dir=/etc/php7/conf.d' '--disable-short-tags' '--with-openssl=shared' '--with-kerberos' '--with-system-ciphers' '--with-external-pcre=/usr' '--with-zlib=shared' '--enable-bcmath=shared' '--with-bz2=shared' '--enable-calendar=shared' '--enable-ctype=shared' '--with-curl=shared' '--enable-dba=shared' '--with-gdbm' '--with-db4' '--enable-dom=shared' '--with- enchant=shared' '--enable-exif=shared' '--enable-ftp=shared' '--enable-gd=shared' '--with-webp=shared' '--with-jpeg=shared' '--with-xpm=shared' '--with-external-gd' '--with-freetype=shared' '--enable-gd-native-ttf' '--enable-gd-jis-conv' '--with-gettext=shared' '--with-gmp=shared' '--with-sodium=shared' '--enable-iconv=shared' '--with-imap=shared' '--with-imap-ssl' '--enable-intl=shared' '--enable-json=shared' '--with-libxml=shared' '--with-expat=shared' '--with-ldap=shared' '--with-ldap-sasl' '--enable-mbstring=shared' '--enable-mbregex' '--with-sqlite3=shared,/usr' '--with-pdo-sqlite=shared,/usr' '--with-pdo-dblib=shared' '--with-mysqli=shared,mysqld' '--enable-mysqld=shared' '--with-pdo-mysql=shared,mysqld' '--with-mysql-sock=/run/mysqld/mysqld.sock' '--with-pgsql=shared' '--with-pdo-pgsql=shared' '--with-unixODBC=shared,/usr' '--with-pdo-odbc=shared,unixODBC,/usr' '--with-dbmaker=shared' '--enable-opcache=shared' '--enable-pdo=shared' '--enable-pcntl=shared' '--enable-posix=shared' '--enable-phar=shared' '--with-pspell=shared' '--without-readline' '--with-libedit' '--enable-session=shared' '--enable-shmop=shared' '--with-snmp=shared' '--enable-soap=shared' '--enable-sockets=shared' '--enable-sysvmsg=shared' '--enable-sysvsem=shared' '--enable-sysvshm=shared' '--with-tidy=shared' '--enable-xml=shared' '--enable-xmlreader=shared' '--with-xmllrpc=shared' '--with-xsl=shared' '--with-zip=shared' '--disable-phpdbg' '--enable-fpm' '--enable-embed' '--enable-litespeed' 'build_alias=x86_64-alpine-linux-musl' 'host_alias=x86_64-alpine-linux-musl'

Итоги

- Узнали, что такое PHP
- Узнали, как создавать простые Dockerfile с PHP
- Узнали, как установить дополнительные опции PHP
- Узнали, как создавать Dockerfile nginx + PHP

**Спасибо
за внимание!**