

Урок 8. Запуск веб-приложения из контейнеров

Задание.

Установить в виртуальную машину или VDS Docker, настроить набор контейнеров через docker compose по инструкции по ссылке:

<https://www.digitalocean.com/community/tutorials/how-to-install-wordpress-with-docker-compose-ru>. Часть с настройкой certbot и HTTPS опустить, если у вас нет настоящего домена и белого IP.

Введенные команды, согласно инструкции.

```
$ echo "*****HomeWork*****"
*****HomeWork*****
vdellinubun@vdellinubunPC:
~
$ mkdir wordpress && cd wordpress
vdellinubun@vdellinubunPC:
~/wordpress
$ mkdir nginx-conf
vdellinubun@vdellinubunPC:
~/wordpress
$ nano nginx-conf/nginx.conf
vdellinubun@vdellinubunPC:
~/wordpress
$ nano .env
vdellinubun@vdellinubunPC:
~/wordpress
$ nano .env
vdellinubun@vdellinubunPC:
~/wordpress
$ nano .env
vdellinubun@vdellinubunPC:
~/wordpress
$ nano .dockerignore
vdellinubun@vdellinubunPC:
~/wordpress
$ nano docker-compose.yml
vdellinubun@vdellinubunPC:
~/wordpress
$ sudo docker-compose up -d
[sudo] пароль для vdellinubun:
Creating network "wordpress_app-network" with driver "bridge"
Creating volume "wordpress_wordpress" with default driver
Creating volume "wordpress_dbdata" with default driver
Pulling db (mysql:8.0)...
8.0: Pulling from library/mysql
3e0c3751e648: Pull complete
7914193c6f0e: Pull complete
fe4b3f820487: Pull complete
63683b304e3d: Pull complete
6ad9069836bd: Pull complete
de90cd4c0e5d: Pull complete
892e565e2cf0: Pull complete
73057d123da0: Pull complete
af1a3c0ec34e: Pull complete
62fe8dc4ffe9: Pull complete
8807488ae889: Pull complete
```

```
Digest: sha256:4bae98614cd6ad1aecbdd32ff1b37b93fb0ee22b069469e7bc9679bacef1abd2
Status: Downloaded newer image for mysql:8.0
Pulling wordpress (wordpress:5.1.1-fpm-alpine)...
5.1.1-fpm-alpine: Pulling from library/wordpress
bdf0201b3a05: Pull complete
ea6e561c50e0: Pull complete
f581654c6ada: Pull complete
f205a7399250: Pull complete
be168a59f377: Pull complete
073e30dbac02: Pull complete
d94cea587efe: Pull complete
6ed026e6424c: Pull complete
695dbe186452: Pull complete
79f0d83843fe: Pull complete
f57cd0d319e8: Pull complete
838d818ea958: Pull complete
0f06001e8eff: Pull complete
42b2e684670e: Pull complete
e95bc5b9eb59: Pull complete
537d24b2e974: Pull complete
Digest: sha256:4d6db7f7b368d6ade40510f27ac6d16e2b690b49bbdb237435f1f21234d8436a
Status: Downloaded newer image for wordpress:5.1.1-fpm-alpine
Pulling webserver (nginx:1.15.12-alpine)...
1.15.12-alpine: Pulling from library/nginx
e7c96db7181b: Pull complete
264026bbe255: Pull complete
a71634c55d29: Pull complete
5595887beb81: Pull complete
Digest: sha256:57a226fb6ab6823027c0704a9346a890ffb0cacde06bc19bbc234c8720673555
Status: Downloaded newer image for nginx:1.15.12-alpine
Creating db ... done
Creating wordpress ... done
Creating webserver ... done
```

```
vdellinubun@vdellinubunPC:
```

```
~/wordpress
```

```
$ sudo docker-compose ps
```

Name	Command	State	Ports
db	docker-entrypoint.sh --def ...	Up	3306/tcp, 33060/tcp
webserver	nginx -g daemon off;	Up	0.0.0.0:80->80/tcp, :::80->80/tcp
wordpress	docker-entrypoint.sh php-fpm	Up	9000/tcp

```
vdellinubun@vdellinubunPC:
```

```
~/wordpress
```

```
$ sudo docker-compose stop
```

```
Stopping webserver ... done
```

```
Stopping wordpress ... done
```

```
Stopping db ... done
```

Содержимое nginx.conf (nano nginx-conf/nginx.conf)

```
server {
    listen 80;
    listen [::]:80;

    server_name example.com www.example.com;

    index index.php index.html index.htm;

    root /var/www/html;

    location ~ /\.well-known/acme-challenge {
        allow all;
        root /var/www/html;
    }

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

    location ~ \.php$ {
        try_files $uri =404;
        fastcgi_split_path_info ^(.+\.(php))(/.+)$;
        fastcgi_pass wordpress:9000;
        fastcgi_index index.php;
        include fastcgi_params;
        fastcgi_param SCRIPT_FILENAME $document_root$fastcgi_script_name;
        fastcgi_param PATH_INFO $fastcgi_path_info;
    }

    location ~ /\.ht {
        deny all;
    }

    location = /favicon.ico {
        log_not_found off; access_log off;
    }
    location = /robots.txt {
        log_not_found off; access_log off; allow all;
    }
    location ~* \.(css|gif|ico|jpeg|jpg|js|png)$ {
        expires max;
        log_not_found off;
    }
}
```

Содержимое docker-compose.yml (nano docker-compose.yml)

```
version: '3'

services:
  db:
    image: mysql:8.0
    container_name: db
    restart: unless-stopped
    env_file: .env
    environment:
      - MYSQL_DATABASE=wordpress
    volumes:
      - dbdata:/var/lib/mysql
    command: '--default-authentication-plugin=mysql_native_password'
    networks:
      - app-network

  wordpress:
    depends_on:
      - db
    image: wordpress:5.1.1-fpm-alpine
    container_name: wordpress
    restart: unless-stopped
    env_file: .env
    environment:
      - WORDPRESS_DB_HOST=db:3306
      - WORDPRESS_DB_USER=$MYSQL_USER
      - WORDPRESS_DB_PASSWORD=$MYSQL_PASSWORD
      - WORDPRESS_DB_NAME=wordpress

  volumes:
    - wordpress:/var/www/html
  networks:
    - app-network

  webserver:
    depends_on:
      - wordpress
    image: nginx:1.15.12-alpine
    container_name: webserver
    restart: unless-stopped
    ports:
      - "80:80"
    volumes:
      - wordpress:/var/www/html
      - ./nginx-conf:/etc/nginx/conf.d
    networks:
      - app-network

volumes:
  wordpress:
  dbdata:

networks:
  app-network:
    driver: bridge
```



Nederlands (Belgie)

Nederlands

Norsk nynorsk

Occitan

ਪੰਜਾਬੀ

Polski

پښتو

Português de Angola

Português do Brasil

Português

Português (AO90)

Ruáinga

Română

Русский

Саха тыла

සිංහල

Slovenčina

سرائیکی

Slovenščina

Shqip

Српски језик

Svenska

Kiswahili

Ślōnskŏ gŏdka

தமிழ்

Продолжить