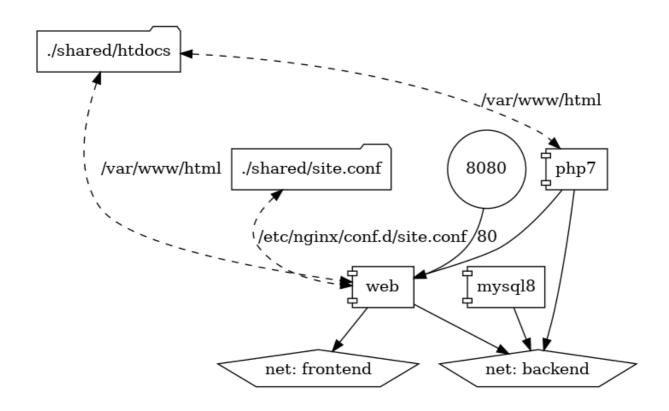
# Sprawozdanie PwChO: docker-compose

Ernest Grzeszczak 7.3/5 88694



#### Uruchamianie

#### Budowanie projektu

```
$ sudo docker-compose build
$ sudo docker-compose up
```

#### Otworz

```
$ curl 127.0.0.1:6666
```

#### albo

```
$ firefox 127.0.0.1:6666
```

#### Drzewo projektu

### Podać zawartość plików Dockerfile dla każdej usługi cząstkowej

• /web/Dockerfile (Dockerfile dla serwera nginx)

```
FROM nginx:alpine
RUN apk update
RUN apk upgrade
```

• /php/Dockerfile (Dockerfile dla serwera PHP)

```
FROM php:7-fpm-alpine
RUN apk update
RUN apk upgrade
RUN docker-php-ext-install mysqli && docker-php-ext-enable mysqli
```

• /db/Dockerfile (Dockerfile dla serwera MySQL)

```
FROM mysql:5.7
RUN apt-get update -y
```

## Podać zawartość innych, niezbędnych plików

W folderze shared znajduje sie plik /htdocs/index.php ktory bedziemy umieszczac w plikach nginx

```
...
<div class="page-container">
<div class="page">
```

```
<h1>docker-compose</h1>
       Ernest Grzeszczak 7.3/5 88694
       mysql-client:
           <?php
               if($link = mysqli_connect('mysql5', 'admin', 'admin')){
                   echo "<span style='color: green'>".$link->client_info."
</span>";
               } else {
                   echo "ERROR";
       >
           phpversion:
           <?php
               echo "<span style='color: green'>".phpversion()."</span>";;
       </div>
</div>
```

Natomiast w pliku <a href="mailto:site.conf">site.conf</a> bedziemy mieli konfiguracje dla naszego serwera nginx, aby skonfigurowac obsluge plikow .php

```
server {
    listen 80;
    index index.php;
    server_name 127.0.0.1;
    root /var/www/html/;

    location ~ \.php$ {
        try_files $uri = 404;
        fastcgi_split_path_info ^(.+\.php)(/.+)$;
        fastcgi_pass php7:9000;
        fastcgi_index index.php;
        include fastcgi_params;
        fastcgi_param SCRIPT_FILENAME $document_root$fastcgi_script_name;
        fastcgi_param PATH_INFO $fastcgi_path_info;
    }
}
```

#### Podac zawartosc pliku docker-compose.yaml

```
version: "3.7"
# Definicja sieci
networks:
```

```
frontend:
    name: frontend
   driver: bridge
 backend:
   name: backend
   driver: bridge
services:
 web:
   build:
     context: ./web
      dockerfile: Dockerfile
    image: web:6z1
   container_name: nginx
   ports:
      - "6666:80"
    volumes:
      - ./shared/htdocs:/var/www/html
      - ./shared/site.conf:/etc/nginx/conf.d/site.conf
    links:
     - php7
   networks:
      - frontend
      - backend
 php7:
   build:
     context: ./php
     dockerfile: Dockerfile
    image: php:6z1
    container_name: php7
      - ./shared/htdocs:/var/www/html
   networks:
      - backend
 mysql5:
   build:
     context: ./db
      dockerfile: Dockerfile
    image: mysql:6z1
    container_name: mysql5
    networks:
     - backend
    environment:
     MYSQL_DATABASE: "database"
      MYSQL_ROOT_PASSWORD: "admin"
     MYSOL PASSWORD: "admin"
      MYSQL_USER: "admin"
```

```
lenovo@melbourne:~/Workspace/PWCH07/compose$ sudo docker-compose up
lenovo@melbourne: ~/Workspace/PWCH07/compose
[sudo] password for lenovo:
   NING: Found orphan containers (mysql8) for this project. If you removed or renamed this service in your compose fil
  you can run this command with the --remove-orphans flag to clean it up.
starting php7 ... done
Starting mysql5 ... done
Recreating nginx ... don
Attaching to php7, mysql5, nginx
               2020-11-29 21:16:29+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 5.7.32-1debian10 started
               /docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration /docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
               2020-11-29 21:16:29+00:00 [Note] [Entrypoint]: Switching to dedicated user 'mysql'
               /docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh [29-Nov-2020 21:16:29] NOTICE: fpm is running, pid 1
               2020-11-29 21:16:29+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 5.7.32-1debian10 started
               10-listen-on-ipv6-by-default.sh: Getting the checksum of /etc/nginx/conf.d/default.conf
               [29-Nov-2020 21:16:29] NOTICE: ready to handle connections
               2020-11-29T21:16:29.743448Z 0 [Warning] TIMESTAMP with implicit DEFAULT value is deprecated. Please use ---
kplicit_defaults_for_timestamp server option (see documentation for more details).
              2020-11-29T21:16:29.744837Z 0 [Note] mysqld (mysqld 5.7.32) starting as process 1 ... 2020-11-29T21:16:29.748405Z 0 [Note] InnoDB: PUNCH HOLE support available 2020-11-29T21:16:29.748432Z 0 [Note] InnoDB: Mutexes and rw_locks use GCC atomic builtins
               2020-11-29T21:16:29.748436Z 0 [Note] InnoDB: Uses event mutexes
2020-11-29T21:16:29.748439Z 0 [Note] InnoDB: GCC builtin __atomic_thread_fence(2020-11-29T21:16:29.748442Z 0 [Note] InnoDB: Compressed tables use zlib 1.2.11
                                                                                          atomic thread fence() is used for memory barrie
               2020-11-29T21:16:29.748445Z 0 [Note] InnoDB: Using Linux native AIO 2020-11-29T21:16:29.748728Z 0 [Note] InnoDB: Number of pools: 1
               2020-11-29T21:16:29.748872Z 0 [Note] InnoDB: Using CPU crc32 instructions
               2020-11-29T21:16:29.750784Z 0 [Note] InnoDB: Initializing buffer pool, total size = 128M, instances = 1, c
unk size = 128M
              2020-11-29T21:16:29.761730Z 0 [Note] InnoDB: Completed initialization of buffer pool
2020-11-29T21:16:29.764128Z 0 [Note] InnoDB: If the mysqld execution user is authorized, page cleaner thre
  priority can be changed. See the man page of setpriority().
               2020-11-29T21:16:29.775814Z O [Note] InnoDB: Highest supported file format is Barracuda. 2020-11-29T21:16:29.813949Z O [Note] InnoDB: Creating shared tablespace for temporary tables
               2020-11-29T21:16:29.814080Z 0 [Note] InnoDB: Setting file './ibtmpl' size to 12 MB. Physically writing the
file full; Please wait
               2020-11-29T21:16:29.874557Z 0 [Note] InnoDB: File './ibtmp1' size is now 12 MB.
2020-11-29T21:16:29.876703Z 0 [Note] InnoDB: 96 redo rollback segment(s) found. 96 redo rollback segment(s
 are active.
               2020-11-29T21:16:29.876747Z 0 [Note] InnoDB: 32 non-redo rollback segment(s) are active. 2020-11-29T21:16:29.877535Z 0 [Note] InnoDB: Waiting for purge to start
               2020-11-29T21:16:29.927725Z 0 [Note] InnoDB: 5.7.32 started; log sequence number 12618574
               2020-11-29T21:16:29.928152Z 0 [Note] Plugin 'FEDERATED' is disabled.
2020-11-29T21:16:29.930908Z 0 [Note] InnoDB: Loading buffer pool(s) from /var/lib/mysql/ib_buffer_pool
               2020-11-29T21:16:29.933080Z 0 [Note] InnoDB: Buffer pool(s) load completed at 201129 21:16:29
               2020-11-29T21:16:29.935801Z 0 [Note] Found ca.pem, server-cert.pem and server-key.pem in data directory. T
ying to enable SSL support using them.
              2020-11-29T21:16:29.935815Z 0 [Note] Skipping generation of SSL certificates as certificate files are pres-
nt in data directory
               2020-11-29T21:16:29.936505Z 0 [Warning] CA certificate ca.pem is self signed.
               2020-11-29T21:16:29.936539Z 0 [Note] Skipping generation of RSA key pair as key files are present in data
irectory.
               2020-11-29T21:16:29.937000Z 0 [Note] Server hostname (bind-address): '*'; port: 3306
               2020-11-29T21:16:29.937127Z 0 [Note] IPv6 is available.
               2020-11-29T21:16:29.937149Z 0 [Note]
                                                                 - '::' resolves to '::';
               2020-11-29T21:16:29.937179Z 0 [Note] Server socket created on IP: '::'.
```

\$ sudo docker-compose up

```
color: #222222;
    min-height: 50vh;
    display: flex;
    justify-content: center;
}
.page{
    font-family: 'Sarabun';
}
.page h1{
    font-size: 160px;
    margin: 0;
}
```

curl 127.0.0.1:6666

# docker-compose

Ernest Grzeszczak 7.3/5 88694

mysql-client: mysqlnd 7.4.12

phpversion: 7.4.12

firefox 127.0.0.1:6666