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Docker Compose

```
Contents [hide]
1 Copyright Notice
2 Author
3 Docker Compose Installation
4 Wordpress Example
    4.1 Start Wordpress without Docker Compose
    4.2 Start Wordpress with Docker Compose
5 Mongo Counter Example
```

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training@nobleprog.com tel: +44 20 7558 8274

Author

Kamil Baran

Docker Compose Installation

```
$ sudo -i
$ curl -L https://github.com/docker/compose/releases/download/1.26.2/docker-compose-`uname -s`-`uname -m` > /usr/local/bin/docker-compose
$ chmod +x /usr/local/bin/docker-compose
$ curl -L https://raw.githubusercontent.com/docker/compose/$(docker-compose version --short)/contrib/completion/bash/docker-compose >
/etc/bash_completion.d/docker-compose
$ exit
$ docker-compose --version
```

more info: docs.docker.com/compose/install

Wordpress Example

Start Wordpress without Docker Compose

To start a Wordpress site in containers, you need to complete following steps:

- 1. create custom network for the application
- 2. create volume for database container
- 3. create volume for web server container
- 4. create database container
- 5. create web server container

The commands below represents an example of all required steps:

```
$ docker network create wordpress_net
$ docker volume create wordpress_mysql_data
$ docker volume create wordpress_html
$ docker run -d --name wordpress_mysql --network wordpress_net -v wordpress_mysql_data:/var/lib/mysql -e MYSQL_ROOT_PASSWORD=NobleProg -e
MYSQL_DATABASE=wordpress -e MYSQL_USER=wordpress -e MYSQL_PASSWORD=wordpress mysql:5.7
$ docker run -d --name wordpress_apache --network wordpress_net -v wordpress_html:/var/www/html -p 80:80 -e
WORDPRESS_DB_HOST=wordpress_mysql:3306 -e WORDPRESS_DB_USER=wordpress -e WORDPRESS_DB_PASSWORD=wordpress wordpress:php7.2-apache
```

When you want to delete your Wordpress site completely you need to remove containers, volumes and network by executing following commands:

```
$ docker container rm -f wordpress_mysql wordpress_apache
$ docker volume rm wordpress_mysql_data wordpress_html
$ docker network rm wordpress_net
```

Start Wordpress with Docker Compose

Docker Compose allows you to manage your multi-container applications by running a straightforward command. For example, to start, stop and remove Wordpress site, you need to execute following commands accordingly:

```
$ docker-compose up -d
$ docker-compose stop
$ docker-compose down --volumes
```

There are only a few things you need to do before you can start Wordpress site by using Docker Compose:

- 1. Install Docker Compose (usually it's not installed with Docker)
- 2. create a docker-compose.yml (or .yaml) in an empty directory containing following content
- 3. run above commands in the same directory where the docker-compose.yml file is located (or use -f option to specify a path to the file).

```
version: '3'
services:
 mysql:
   image: mysql:latest
   volumes:
   - mysql_data:/var/lib/mysql
   environment:
   – MYSQL_ROOT_PASSWORD=NobleProg
   MYSQL_DATABASE=wordpress
   – MYSQL_USER=wordpress
   MYSQL PASSWORD=wordpress
   networks:
   net
  apache:
   depends_on:
   - mysql
   image: wordpress:latest
   volumes:
   - html:/var/www/html
   ports:
   - 80:80
   environment:
   - WORDPRESS_DB_HOST=mysql:3306
   – WORDPRESS_DB_USER=wordpress
   WORDPRESS_DB_PASSWORD=wordpress
   networks:
   net
volumes:
 mysql_data:
 html:
networks:
 net:
```

Mongo Counter Example

- create an empty directory called mc-app
- copy content from httpd (Dockerfile and html directory) and mongodb (Dockerfile) directories created previously
- create a docker-compose.yml file containing below configuration

```
version: '3'
services:
 httpd:
    build: ./httpd
    image: kamilbaran/training:httpd
    network_mode: host
  mongo:
    build: ./mongo
   image: kamilbaran/training:mongo
    network_mode: host
```

• in order to build all images at once and start entire application run below command

\$ docker-compose up --build -d

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more information about options available in docker-compose files: docs.docker.com/compose/compose-file

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