

Exercise Worksheet

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From the Course:

Understanding Docker Run, Dockerfile, Docker-Compose for Beginners

Data Persistence in the Wordpress Docker standard installation

This is the standard wordpress docker-compose.yml file. What is wrong with it?

```
version: '3.7'

services:

  wordpress:
    image: wordpress
    restart: always
    ports:
      - 8080:80
    environment:
      WORDPRESS_DB_HOST: db
      WORDPRESS_DB_USER: exampleuser
      WORDPRESS_DB_PASSWORD: examplepass
      WORDPRESS_DB_NAME: exampledb

  db:
    image: mysql:5.7
    restart: always
    environment:
      MYSQL_DATABASE: exampledb
      MYSQL_USER: exampleuser
      MYSQL_PASSWORD: examplepass
      MYSQL_RANDOM_ROOT_PASSWORD: '1'
```

If you fire up this with

```
docker-compose up
```

- Both the database and wordpress will come up
- You will be able to surf to localhost port 8080

Open <http://localhost:8080>

- Run through the setup quickly, don't bother entering "real" values
- It's just for a demo

Now close the docker-compose on your terminal

```
Ctrl+c
```

- This closes the docker compose

```
docker-compose rm
```

- Removes the containers

```
docker-compose up
```

- Will restart the containers
- But the data is gone

The “right” version for the docker-compose.yml file would be something like this. I don’t claim it’s production ready, but it doesn’t lose any data.

```
version: "3.7"

services:
  db:
    image: mysql:5.7
    volumes:
      - db_data:/var/lib/mysql
    restart: always
    environment:
      MYSQL_ROOT_PASSWORD: somewordpress
      MYSQL_DATABASE: wordpress
      MYSQL_USER: wordpress
      MYSQL_PASSWORD: wordpress
    networks:
      - wpnet

  wordpress:
    depends_on:
      - db
    image: wordpress:latest
    ports:
      - "8000:80"
    restart: always
    volumes:
      - ./wp-content:/var/www/html/wp-content
    environment:
      WORDPRESS_DB_HOST: db:3306
      WORDPRESS_DB_USER: wordpress
      WORDPRESS_DB_PASSWORD: wordpress
      WORDPRESS_DB_NAME: wordpress
    networks:
      - wpnet

volumes:
  db_data:

networks:
  wpnet:
```

Start again docker compose:

```
docker-compose up -d
```

- This time you will get a network
- The Database will be volume mounted
- The wordpress will load its content to “wp-content” directory
- All data is persistent