

UNIT 4.1 GRADED ASSIGNMENT

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UNIT 4.1 GRADED ASSIGNMENT

Task:

Browse to:

tasks/4_microservices_development/day_1_microservices/docker_compose_example

Next you will:

- Start the system using docker-compose so that it runs in background,
- Visit <http://127.0.0.1/> to see WordPress installation panel,
- See the system logs
- Add a PHPMyAdmin service from

<https://hub.docker.com/r/phpmyadmin/phpmyadmin/>

so that you can manage the raw database contents.

Solution:

tasks/4_microservices_development/day_1_microservices/docker_compose_example:

```

services:
  db:
    image: mariadb:10.6.4-focal
    command: '--default-authentication-plugin=mysql_native_password'
    volumes:
      - db_data:/var/lib/mysql
    restart: always
    environment:
      - MYSQL_ROOT_PASSWORD=somewordpress
      - MYSQL_DATABASE=wordpress
      - MYSQL_USER=wordpress
      - MYSQL_PASSWORD=wordpress
    expose:
      - 3306
  wordpress:
    image: wordpress:latest
    volumes:
      - wp_data:/var/www/html
    ports:
      - 80:80
    restart: always
    environment:
      - WORDPRESS_DB_HOST=db
      - WORDPRESS_DB_USER=wordpress
      - WORDPRESS_DB_PASSWORD=wordpress
      - WORDPRESS_DB_NAME=wordpress
volumes:
  db_data:
  wp_data:

```

1. I added phpMyAdmin service in the above file using following commands:

```

phpmyadmin:
  image: phpmyadmin/phpmyadmin
  environment:
    MYSQL_PASSWORD: somewordpress
    MYSQL_USER: wordpress
    MYSQL_ROOT_PASSWORD: wordpress
  ports:
    - 8080:80
  restart: always

```

2. After adding the phpMyAdmin service I use **docker compose up** command. Docker compose is used to start all the services or set of containers defined in docker-compose.yml file.

```
(base) all@localhost:~/data_engineering_bootcamp_2303/tasks/day_1_microservices/docker_compose_example$ docker compose up
[+] Running 3/0
  ✓ Container docker_compose_example-phpmyadmin-1 Running 0.0s
  ✓ Container docker_compose_example-db-1 Running 0.0s
  ✓ Container docker_compose_example-wordpress-1 Running 0.0s
Attaching to docker_compose_example-db-1, docker_compose_example-phpmyadmin-1, docker_compose_example-wordpress-1
^CGracefully stopping... (press Ctrl+C again to force)
Aborting on container exit...
[+] Running 3/3
  ✓ Container docker_compose_example-phpmyadmin-1 Stopped 1.3s
  ✓ Container docker_compose_example-wordpress-1 Stopped 1.2s
  ✓ Container docker_compose_example-db-1 Stopped 0.4s
```

3. Then I use `docker compose up -d` command to start the containers defined in a `docker-compose.yml` file in detached mode, which means that the containers will run in the background.

```
(base) all@localhost:~/data_engineering_bootcamp_2303/tasks/day_1_microservices/docker_compose_example$ docker compose up -d
[+] Running 3/3
  ✓ Container docker_compose_example-wordpress-1 Started 0.6s
  ✓ Container docker_compose_example-db-1 Started 0.4s
  ✓ Container docker_compose_example-phpmyadmin-1 Started 0.6s
```

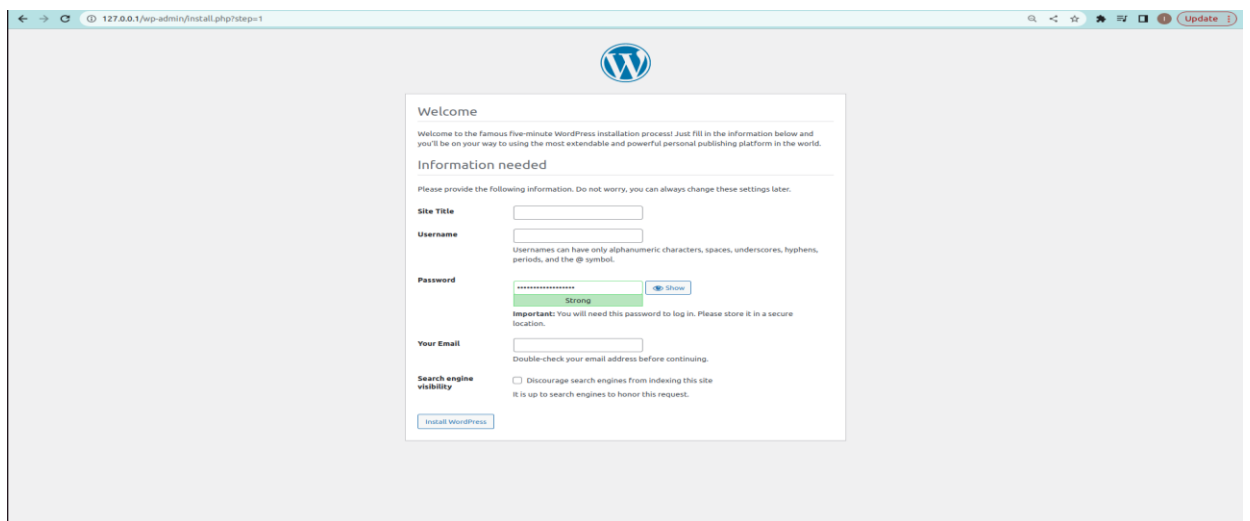
4. We can see the logs through `docker-compose logs` command.

```
docker_compose_example-wordpress-1 | 172.18.0.1 - - [04/May/2023:11:20:14 +0000] "GET /wp-includes/js/dist/vendor/wp-polyfill-inert.min.js?ver=3.1.2 HTTP/1.1" 200 2835 "http://127.0.0.1/wp-admin/install.php?step=1" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/107.0.0.0 Safari/537.36"
docker_compose_example-wordpress-1 | 172.18.0.1 - - [04/May/2023:11:20:14 +0000] "GET /wp-admin/js/password-strength-meter.min.js?ver=6.2 HTTP/1.1" 200 970 "http://127.0.0.1/wp-admin/install.php?step=1" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/107.0.0.0 Safari/537.36"
docker_compose_example-wordpress-1 | 172.18.0.1 - - [04/May/2023:11:20:14 +0000] "GET /wp-includes/js/dist/vendor/wp-polyfill.min.js?ver=3.15.0 HTTP/1.1" 200 6884 "http://127.0.0.1/wp-admin/install.php?step=1" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/107.0.0.0 Safari/537.36"
docker_compose_example-wordpress-1 | 172.18.0.1 - - [04/May/2023:11:20:14 +0000] "GET /wp-includes/js/dist/i18n.min.js?ver=9e794f35a71bb98672ae HTTP/1.1" 200 4218 "http://127.0.0.1/wp-admin/install.php?step=1" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/107.0.0.0 Safari/537.36"
docker_compose_example-wordpress-1 | 172.18.0.1 - - [04/May/2023:11:20:14 +0000] "GET /wp-includes/js/vendor/regenerator-runtime.min.js?ver=0.13.11 HTTP/1.1" 200 2850 "http://127.0.0.1/wp-admin/install.php?step=1" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/107.0.0.0 Safari/537.36"
docker_compose_example-wordpress-1 | 172.18.0.1 - - [04/May/2023:11:20:14 +0000] "GET /wp-includes/js/user-profile.min.js?ver=6.2 HTTP/1.1" 200 2677 "http://127.0.0.1/wp-admin/install.php?step=1" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/107.0.0.0 Safari/537.36"
docker_compose_example-wordpress-1 | 172.18.0.1 - - [04/May/2023:11:20:14 +0000] "GET /wp-includes/js/underscore.min.js?ver=1.13.4 HTTP/1.1" 200 7662 "http://127.0.0.1/wp-admin/install.php?step=1" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/107.0.0.0 Safari/537.36"
docker_compose_example-wordpress-1 | 172.18.0.1 - - [04/May/2023:11:20:14 +0000] "GET /wp-includes/js/zoom.min.js HTTP/1.1" 200 400400 "http://127.0.0.1/wp-admin/install.php?step=1" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/107.0.0.0 Safari/537.36"
docker_compose_example-wordpress-1 | 172.18.0.1 - - [04/May/2023:11:20:14 +0000] "GET /wp-admin/install.php HTTP/1.1" 200 4622 "http://127.0.0.1/wp-admin/install.php?step=1" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/107.0.0.0 Safari/537.36"
docker_compose_example-wordpress-1 | 127.0.0.1 - - [04/May/2023:11:20:22 +0000] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.56 (Debian) PHP/8.0.28 (internal dummy connection)"
docker_compose_example-wordpress-1 | 127.0.0.1 - - [04/May/2023:11:20:23 +0000] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.56 (Debian) PHP/8.0.28 (internal dummy connection)"
docker_compose_example-wordpress-1 | 172.18.0.1 - - [04/May/2023:11:20:26 +0000] "GET /favicon.ico HTTP/1.1" 302 400 "http://127.0.0.1/wp-admin/install.php" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/107.0.0.0 Safari/537.36"
docker_compose_example-wordpress-1 | 172.18.0.1 - - [04/May/2023:11:20:26 +0000] "GET /wp-admin/install.php HTTP/1.1" 200 4622 "http://127.0.0.1/wp-admin/install.php" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/107.0.0.0 Safari/537.36"
docker_compose_example-wordpress-1 | 172.18.0.1 - - [04/May/2023:11:21:17 +0000] "-" 408 0 "-"
docker_compose_example-wordpress-1 | 172.18.0.1 - - [04/May/2023:11:31:55 +0000] "POST /wp-admin/install.php?step=1 HTTP/1.1" 200 2687 "http://127.0.0.1/wp-admin/install.php" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/107.0.0.0 Safari/537.36"
docker_compose_example-wordpress-1 | 172.18.0.1 - - [04/May/2023:11:31:55 +0000] "GET /favicon.ico HTTP/1.1" 302 399 "http://127.0.0.1/wp-admin/install.php?step=1" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/107.0.0.0 Safari/537.36"
```

I saved the logs in a file named `logs.txt`.

```
(base) all@localhost:~/data_engineering_bootcamp_2303/tasks/day_1_microservices/docker_compose_example$ docker-compose logs > logs.txt
(base) all@localhost:~/data_engineering_bootcamp_2303/tasks/day_1_microservices/docker_compose_example$
```

Output:



localhost:8080/index.php?route=/&route=%2F

phpMyAdmin

Recent Favorites

information_schema

wordpress

Databases

SQL

Status

Export

Import

Settings

Variables

Charsets

Engines

Plugins

General settings

Change password

Server connection collation: utf8mb4_unicode_ci

More settings

Appearance settings

Language: English

Theme: pmahomme View all

Database server

- Server: db via TCP/IP
- Server type: MariaDB
- Server connection: SSL is not being used
- Server version: 10.6.4-MariaDB-1:10.6.4+maria-focal - mariadb.org binary distribution
- Protocol version: 10
- User: wordpress@172.18.0.3
- Server charset: UTF-8 Unicode (utf8mb4)

Web server

- Apache/2.4.56 (Debian)
- Database client version: libmysql - mysqlnd 8.1.17
- PHP extension: mysqli curl mbstring sodium
- PHP version: 8.1.17

phpMyAdmin

- Version information: 5.2.1 (up to date)
- Documentation
- Official Homepage
- Contribute
- Get support
- List of changes
- License

The phpMyAdmin configuration storage is not completely configured, some extended features have been deactivated. Find out why.

Or alternately go to "Operations" tab of any database to set it up there.