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ASSIGNMENT NO: 4.1

Browse to:

tasks/4_microservices_development/day_1_microservices/doc ker_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:

STEP#1:

First we opened the yaml file from that example in vs code, that will be like this:

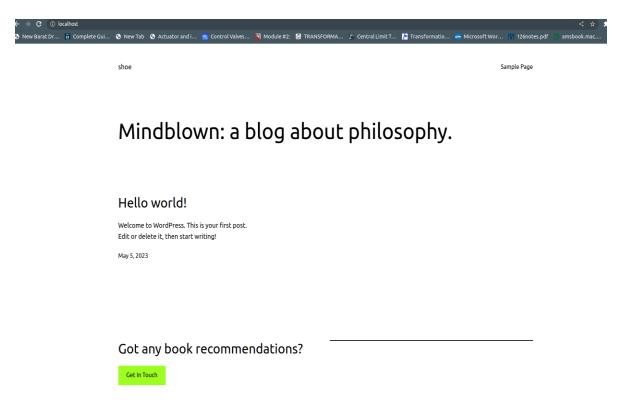
```
docker-compose yml

1 services:
2 db:
2 image: mariadb:10.6.4-focal
3 command: '.-default-authentication-plugin=mysql_native_password'
5 volumes:
6 db_data:/var/lib/mysql
7 restart: always
8 environment:
9 HYSOL_DATRABSE=wordpress
10 HYSOL_DATRABSE=wordpress
11 MYSOL_USER=wordpress
12 HYSOL_DATRABSE=wordpress
13 expose:
14 3306
15 wordpress:
16 image: wordpress:latest
17 volumes:
18 - ym data:/var/www/html
19 ports:
19 - 38:80
11 restart: always
22 environment:
23 - WORDPRESS DB_DESER=wordpress
24 - WORDPRESS DB_PASSWORD=wordpress
25 - WORDPRESS DB_PASSWORD=wordpress
26 - WORDPRESS DB_PASSWORD=wordpress
27 volumes:
28 db_data:
29 wp_data:
39 db_data:
30 db_
```

Now we run command docker-compose up -d. This will start the two containers defined in the docker-compose file - db and wordpress - in detached mode (in the background).

STEP#2

http://localhost:80



Here I have already installed the word press and set up it so it looks like above.

STEP#3:

To see the logs for the system, run the following command: docker compose logs

```
docker compose example-wordpress-1 | 172.19.0.1 - - [05/May/2023:04:59:12 +0000] "GET /favicon.ico HTTP/1.1" 302 390 "http://localhost/" "Mozilla/5.0 (X11; Linux x86 64) AppleWebKit/53
7.36 (KHTML, like Gecko) Chrome/112.0.0.0 Safari/537.36

        docker_compose_example-wordpress-1
        | 172.19.0.1 - - [05/May/2023:05:00:04 +0000] "-" 408 0 "-" "-" docker_compose_example-wordpress-1
        | 172.19.0.1 - - [05/May/2023:05:00:40 +0000] "GET / HTTP/1.1" 72.19.0.1

                                                                [05/May/2023:05:00:40 +0000] "GET / HTTP/1.1" 200 10311 "http://localhost/hello-words/" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit
/537.36 (KHTML, like Gecko) Chrome/112.0.0.0 Safari/537.36
docker_compose_example-wordpress-1 | 172.19.0.1 - - [05/May/2023:05:00:40 +0000] "GET / HTTP/1.1" 200 10310 "http://localhost/" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHT ML, like Gecko) Chrome/112.0.0.0 Safari/537.36"
docker_compose_example-wordpress-1 | 172.19.0.1 - - [05/May/2023:05:00:41 +0000] "GET / HTTP/1.1" 200 10310 "http://localhost/" "Mozilla/5.0 (X11; Linux X86_64) AppleWebKit/537.36 (KHT
ML, like Gecko) Chrome/112.0.0.0 Safari/537.36
 docker compose example-wordpress-1 | 172.19.0.1
                                                              - [05/May/2023:05:00:41 +0000] "GET / HTTP/1.1" 200 10310 "http://localhost/" "Mozilla/5.0 (X11; Linux x86 64) AppleWebKit/537.36 (KHT
ML, like Gecko) Chrome/112.0.0.0 Safari/537.36"
docker compose example-wordpress-1 | 172.19.0.1 - - [05/May/2023:05:00:41 +0000] "GET / HTTP/1.1" 200 10310 "http://localhost/" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHT ML, like Gecko) Chrome/112.0.0.0 Safari/537.36"
docker compose_example-wordpress-1 | 172.19.0.1 - - [05/May/2023:05:00:42 +0000] "GET / HTTP/1.1" 200 10310 "http://localhost/" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHT ML, like Gecko) Chrome/112.0.0.0 Safari/537.36"
docker compose example-wordpress-1 | 172.19.0.1
                                                                [05/May/2023:05:00:42 +0000] "GET / HTTP/1.1" 200 10310 "http://localhost/" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHT
ML, like Gecko) Chrome/112.0.0.0 Safari/537.36"
docker compose example-wordpress-1 | 172.19.0.1 - - [05/May/2023:05:01:02 +0000] "GET / HTTP/1.1" 200 10311 "http://localhost/" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHT ML, like Gecko) Chrome/112.0.0.0 Safari/537.36"
docker compose example-wordpress-1 | 172.19.0.1 - - [05/May/2023:05:01:04 +0000] "GET / HTTP/1.1" 200 10310 "http://localhost/" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHT ML, like Gecko) Chrome/112.0.0.0 Safari/537.36"
 docker compose example-wordpress-1 | 172.19.0.1 - - [05/May/2023:05:01:05 +0000] "GET /hello-words/ HTTP/1.1" 200 9268 "http://localhost/" "Mozilla/5.0 (X11; Linux x86 64) AppleWebKit/
537.36 (KHTML, like Gecko) Chrome/112.0.0.0 Safari/537.36"
docker_compose_example-wordpress-1 | 172.19.0.1 -- [05/May/2023:05:01:05 +0000] "GET /hello-words/ HTTP/1.1" 200 9268 "http://localhost/hello-words/" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/112.0.0.0 Safari/537.36"
docker_compose_example-wordpress-1 | 172.19.0.1 -- [05/May/2023:05:01:07 +0000] "GET /hello-words/ HTTP/1.1" 200 9268 "http://localhost/hello-words/" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/112.0.0.0 Safari/537.36" docker_compose_example-wordpress-1 | 172.19.0.1 -- [05/May/2023:05:01:07 +0000] "GET /hello-words/ HTTP/1.1" 200 9268 "http://localhost/hello-words/" "Mozilla/5.0 (X11; Linux x86_64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/112.0.0.0 Safari/537.36"
docker_compose_example-wordpress-1 | 172.19.0.1 - - [05/May/2023:05:01:08 +0000] "GET /hello-words/ HTTP/1.1" 200 9268 "http://localhost/hello-words/" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/112.0.0.0 Safari/537.36"
 docker_compose_example-wordpress-1 | 172.19.0.1 - - [05/May/2023:05:01:08 +0000] "GET /hello-words/ HTTP/1.1" 200 9268 "http://localhost/hello-words/" "Mozilla/5.0 (X11; Linux x86_64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/112.0.0.0 Safari/537.36
      er compose example-wordpress-1 | 172.19.0.1 - - [05/May/2023:05:01:08 +0000] "GET /hello-words/ HTTP/1.1" 200 9268 "http://localhost/hello-words/" "Mozilla/5.0 (X11; Linux x86 64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/112.0.0.0 Safari/537.36"
docker_compose_example-wordpress-1 | 172.19.0.1 - - [05/May/2023:05:01:31 +0000] "GET /hello-words/logout/ HTTP/1.1" 404 42341 "-" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (
KHTML, like Gecko) Chrome/112.0.0.0 Safari/537.36"
 docker compose example-wordpress-1 | 172.19.0.1 - - [05/May/2023:05:01:34 +0000] "GET /hello-words/logout HTTP/1.1" 404 42340 "-" "Mozilla/5.0 (X11; Linux x86 64) AppleWebKit/537.36 (K
HTML, like Gecko) Chrome/112.0.0.0 Safari/537.36"
             ose_example-wordpress-1 | 172.19.0.1 - - [05/May/2023:05:01:46 +0000] "GET /logout HTTP/1.1" 404 42341 "-" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like G
ecko) Chrome/112.0.0.0 Safari/537.36"
docker_compose_example-wordpress-1 | 172.19.0.1 - - [05/May/2023:05:02:05 +0000] "GET / HTTP/1.1" 200 10311 "http://localhost/hello-words/" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit /537.36 (KHTML, like Gecko) Chrome/112.0.0.0 Safari/537.36"
 docker_compose_example-wordpress-1 | 172.19.0.1 - - [05/May/2023:05:02:10 +0000] "GET /2023/05/04/hello-world/ HTTP/1.1" 200 12727 "http://localhost/" "Mozilla/5.0 (X11; Linux x86_64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/112.0.0.0 Safari/537.36" docker_compose_example-wordpress-1 | 172.19.0.1 - - [65/May/2023:05:02:10 +0000] "GET /wp-includes/js/comment-reply.min.js?ver=6.2 HTTP/1.1" 200 1701 "http://localhost/2023/05/04/hello
 -world/" "Mozilla/5.0 (X11; Linux x86 64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/112.0.0.0 Safari/537.36"
docker_compose_example-wordpress-1 [ 172.19.0.1 - - [05/May/2023:05:02:15 +0000] "GET / HTTP/1.1" 200 10310 "http://localhost/2023/05/04/hello-world/" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/112.0.0.0 Safari/537.36"
docker_compose_example-wordpress-1 | 172.19.0.1 - - [05/May/2023:05:03:02 +0000] "-" 408 0 "-" "-" (base) maviaalamkhan@all-MS-7035:~/Downloads/day_1_microservices/docker_compose_example$
```

This will display the logs for all the services running in the docker-compose environment.

STEP#4:

Modifiying the yaml file by new service PHPMyAdmin service, so file should look like as:

STEP#5

Now we use the docker compose up -d command again.

```
• (base) maviaalamkhan@all-MS-7D35:~/Downloads/day_l_microservices/docker_compose_example$ docker compose up -d
[+] Running 3/3

✓ Container docker_compose_example-db-1 Running

✓ Container docker_compose_example-phpmyadmin-1 Started

✓ Container docker_compose_example-wordpress-1 Running

○ (base) maviaalamkhan@all-MS-7D35:~/Downloads/day_l_microservices/docker_compose_example$
```

STEP#6

Visit http://localhost:8080/ in your web browser to access the PHPMyAdmin interface and manage the database contents.



After login:

