

Members:

1. Syed Mohammad Anjil Hussain Rizvi (2303.KHI.DEG.031)
2. Huzefa Anver (2303.KHI.DEG.002)

1. The provided docker-compose file was used and modified to include PHPMyAdmin service which is accessible through port 8080 of the host.
 - a. In addition wordpress is accessible though port 80.

```
docker-compose.yml
1 services:
2   db:
3     image: mariadb:10.6.4-focal
4     command: '--default-authentication-plugin=mysql_native_password'
5     volumes:
6       - db_data:/var/lib/mysql
7     restart: always
8     environment:
9       - MYSQL_ROOT_PASSWORD=somewordpress
10      - MYSQL_DATABASE=wordpress
11      - MYSQL_USER=wordpress
12      - MYSQL_PASSWORD=wordpress
13     expose:
14       - 3306
15   wordpress:
16     image: wordpress:latest
17     volumes:
18       - wp_data:/var/www/html
19     ports:
20       - 80:80
21     restart: always
22     environment:
23       - WORDPRESS_DB_HOST=db
24       - WORDPRESS_DB_USER=wordpress
25       - WORDPRESS_DB_PASSWORD=wordpress
26       - WORDPRESS_DB_NAME=wordpress
27   phpmyAdmin:
28     image: phpmyadmin
29     restart: always
30     ports:
31       - 8080:80
32     environment:
33       - PMA_ARBITRARY=1
34
35 volumes:
36   db_data:
37   wp_data:
```

2. “docker-compose up” inside the directory where docker-compose.yml file is present was run, which realized the following containers altogether:

```
(base) huzefaanver@all-MS-7035:~/Downloads/day_1_microservices/docker_compose_example$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
948ca1feb5a4   wordpress:latest "docker-entrypoint.s..." 2 minutes ago  Up 2 minutes  0.0.0.0:80->80/tcp, :::80->80/tcp   docker_compose_example-wordpress-1
15663637128f   phpmyadmin     "/docker-entrypoint.s..." 2 minutes ago  Up 2 minutes  0.0.0.0:8080->80/tcp, :::8080->80/tcp  docker_compose_example-phpmyAdmin-1
578345f4f7f6   mariadb:10.6.4-focal "docker-entrypoint.s..." 2 minutes ago  Up 2 minutes  3306/tcp                           docker_compose_example-db-1
```

3. Systems logs:
 - a. Wordpress logs:

```
(base) huzefaanver@all-MS-7035:~/Downloads/day_1_microservices/docker_compose_example$ docker logs 948ca1feb5a4
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.23.0.4. Set the 'ServerName' directive globally to suppress this message
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.23.0.4. Set the 'ServerName' directive globally to suppress this message
[Fri May 05 04:55:18.133622 2023] [mpm_prefork:notice] [pid 1] AH00163: Apache/2.4.54 (Debian) PHP/8.0.26 configured -- resuming normal operations
[Fri May 05 04:55:18.133655 2023] [core:notice] [pid 1] AH00994: Command line: 'apache2 -D FOREGROUND'
```

- b. PHPMyAdmin logs:

```

(base) huzefaanvergall-MS-7035:~/Downloads/day_1_microservices/docker_compose_example$ docker logs 15663637128f
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.23.0.3. Set the 'ServerName' directive globally to suppress this message
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.23.0.3. Set the 'ServerName' directive globally to suppress this message
[Fri May 05 04:55:18.077259 2023] [mpm_prefork:notice] [pid 1] AH00163: Apache/2.4.56 (Debian) PHP/8.1.18 configured -- resuming normal operations
[Fri May 05 04:55:18.077339 2023] [core:notice] [pid 1] AH00094: Command line: 'apache2 -D FOREGROUND'
172.23.0.1 - - [05/May/2023:05:04:16 +0000] "GET /index.php HTTP/1.1" 200 6053 "-" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/111.0.0.0 Safari/537.36"
172.23.0.1 - - [05/May/2023:05:04:32 +0000] "POST /index.php?route=/ HTTP/1.1" 302 999 "-" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/111.0.0.0 Safari/537.36"
172.23.0.1 - - [05/May/2023:05:04:32 +0000] "GET /index.php?route=/&route=%2F HTTP/1.1" 200 18705 "-" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/111.0.0.0 Safari/537.36"
172.23.0.1 - - [05/May/2023:05:04:32 +0000] "POST /index.php?route=/config/get HTTP/1.1" 200 2418 "-" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/111.0.0.0 Safari/537.36"
172.23.0.1 - - [05/May/2023:05:04:32 +0000] "POST /index.php?route=/navigation&ajax_request=1 HTTP/1.1" 200 3153 "-" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/111.0.0.0 Safari/537.36"
172.23.0.1 - - [05/May/2023:05:04:32 +0000] "POST /index.php?route=/config/get HTTP/1.1" 200 2508 "-" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/111.0.0.0 Safari/537.36"
172.23.0.1 - - [05/May/2023:05:04:32 +0000] "POST /index.php?route=/version-check HTTP/1.1" 200 1023 "-" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/111.0.0.0 Safari/537.36"
172.23.0.1 - - [05/May/2023:05:04:32 +0000] "POST /index.php?route=/config/set HTTP/1.1" 200 2411 "-" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/111.0.0.0 Safari/537.36"

```

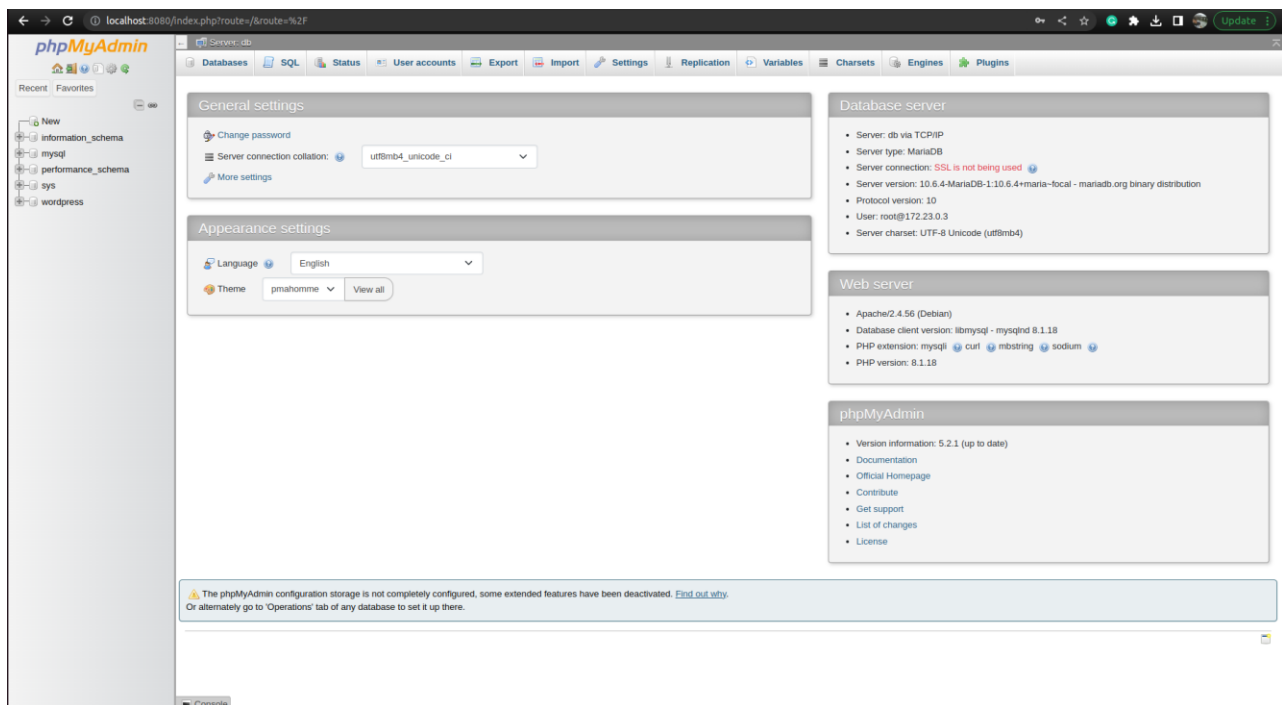
c. Mariadb logs:

```

(base) huzefaanvergall-MS-7035:~/Downloads/day_1_microservices/docker_compose_example$ docker logs 578345f47f6
2023-05-05 04:55:17+00:00 [Note] [Entrypoint]: Entrypoint script for MariaDB Server 1:10.6.4+maria-focal started.
2023-05-05 04:55:18+00:00 [Note] [Entrypoint]: Switching to dedicated user 'mysql'
2023-05-05 04:55:18+00:00 [Note] [Entrypoint]: Entrypoint script for MariaDB Server 1:10.6.4+maria-focal started.
2023-05-05 04:55:18 0 [Note] mysqld (server 10.6.4-MariaDB-1:10.6.4+maria-focal) starting as process 1 ...
2023-05-05 04:55:18 0 [Note] InnoDB: Compressed tables use zlib 1.2.11
2023-05-05 04:55:18 0 [Note] InnoDB: Number of pools: 1
2023-05-05 04:55:18 0 [Note] InnoDB: Using crc32 + pclmulqdq instructions
2023-05-05 04:55:18 0 [Note] mysqld: 0_TMPFILE is not supported on /tmp (disabling future attempts)
2023-05-05 04:55:18 0 [Note] InnoDB: Using Linux native AIO
2023-05-05 04:55:18 0 [Note] InnoDB: Initializing buffer pool, total size = 134217728, chunk size = 134217728
2023-05-05 04:55:18 0 [Note] InnoDB: Completed initialization of buffer pool
2023-05-05 04:55:18 0 [Note] InnoDB: 128 rollback segments are active.
2023-05-05 04:55:18 0 [Note] InnoDB: Creating shared tablespace for temporary tables
2023-05-05 04:55:18 0 [Note] InnoDB: Setting file './ibtmp1' size to 12 MB. Physically writing the file full; Please wait ...
2023-05-05 04:55:18 0 [Note] InnoDB: File './ibtmp1' size is now 12 MB.
2023-05-05 04:55:18 0 [Note] InnoDB: 10.6.4 started; log sequence number 43063; transaction id 14
2023-05-05 04:55:18 0 [Warning] Plugin 'FEEDBACK' is disabled.
2023-05-05 04:55:18 0 [Note] InnoDB: Loading buffer pool(s) from /var/lib/mysql/ib_buffer_pool
2023-05-05 04:55:18 [Warning] 'default-authentication-plugin' is MySQL 5.6 / 5.7 compatible option. To be implemented in later versions.
2023-05-05 04:55:18 [Warning] You need to use --log-bin to make --expire-logs-days or --binlog-expire-logs-seconds work.
2023-05-05 04:55:18 0 [Note] Server socket created on IP: '0.0.0.0'.
2023-05-05 04:55:18 0 [Note] Server socket created on IP: '::'.
2023-05-05 04:55:18 0 [Warning] 'proxies_priv' entry '@% root@fe9baedc42ef' ignored in --skip-name-resolve mode.
2023-05-05 04:55:18 0 [Note] InnoDB: Buffer pool(s) load completed at 230505 4:55:18
2023-05-05 04:55:18 0 [Note] mysqld: ready for connections
Version: '10.6.4-MariaDB-1:10.6.4+maria-focal' socket: '/run/mysqld/mysqld.sock' port: 3306 mariadb.org binary distribution

```

4. Dashboard page of phpMyAdmin



5. Installation page of wordpress:

