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UNIT 4.1:

Assignment

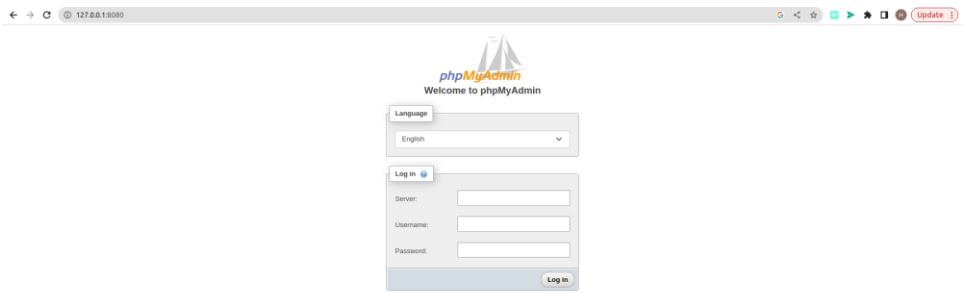
Browse to:

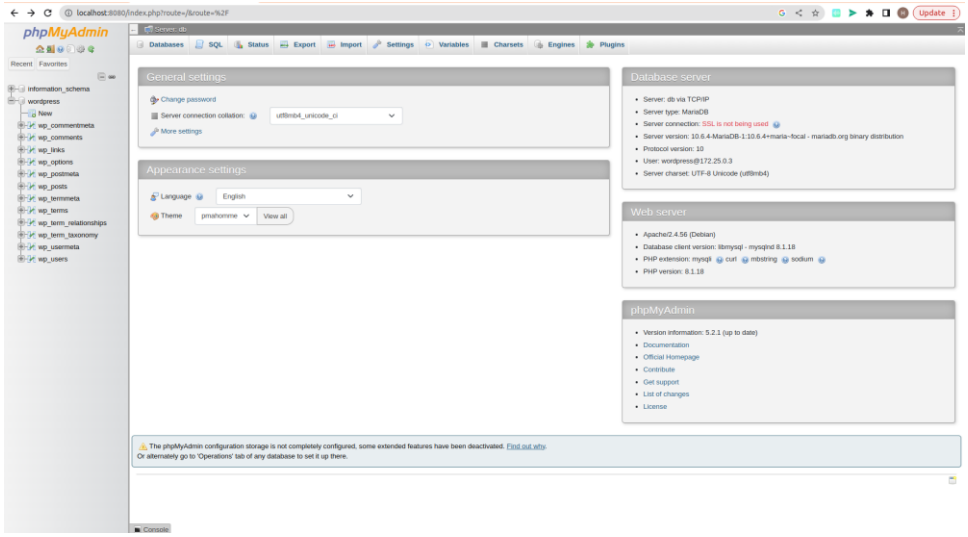
tasks/4_microservices_development/day_1_microservices/docker_compose_example

Next you will:

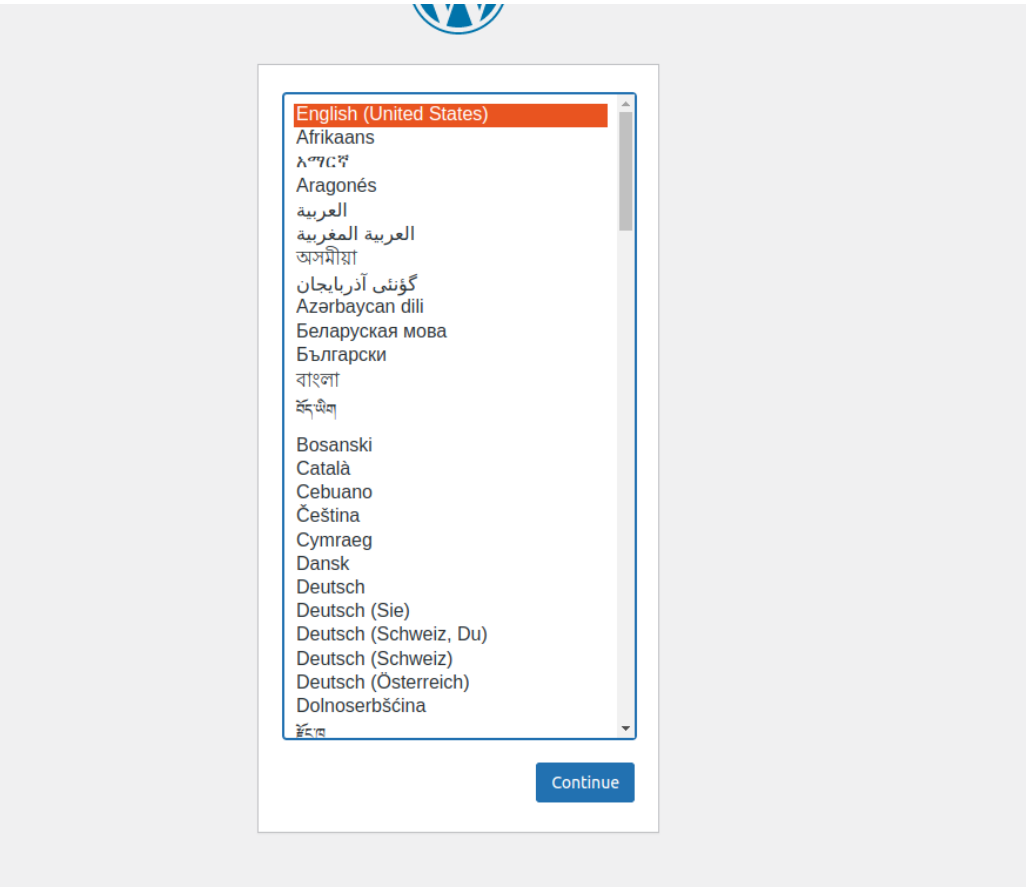
- Start the system using docker-compose so that it runs in background,
- Visit http://127.0.0.1/ to see WordPress installation panel,
- See the system logs
- Add a PHPMyAdmin service from https://hub.docker.com/r/phpmyadmin/phpmyadmin/ so that you can manage the raw database contents.

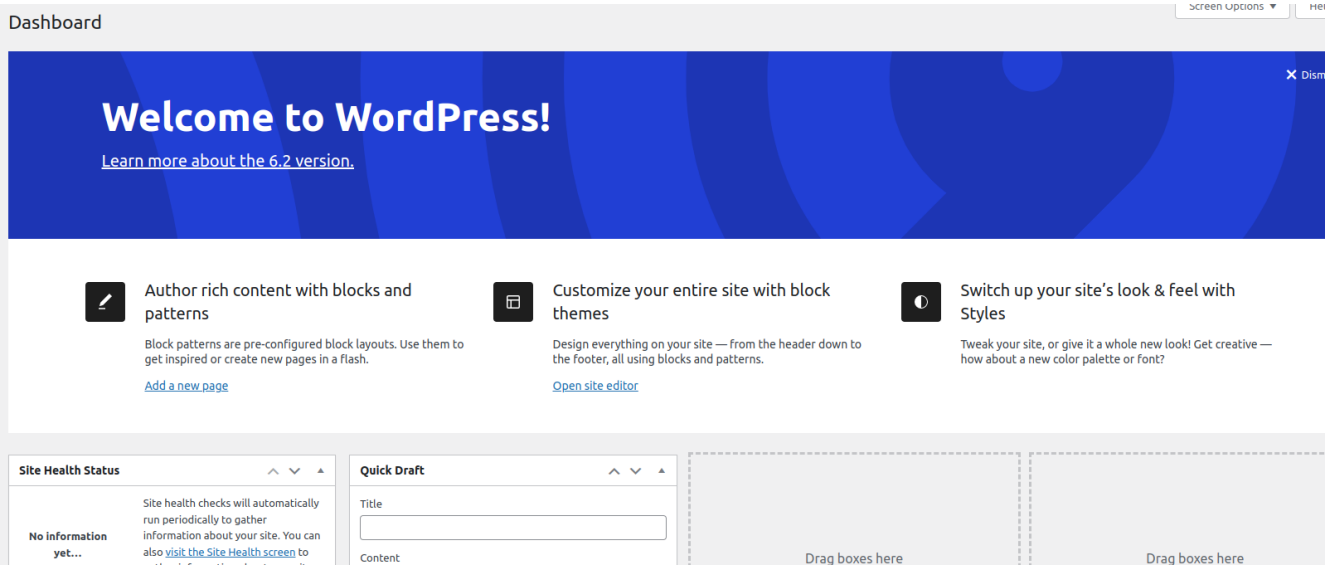
PHP web page



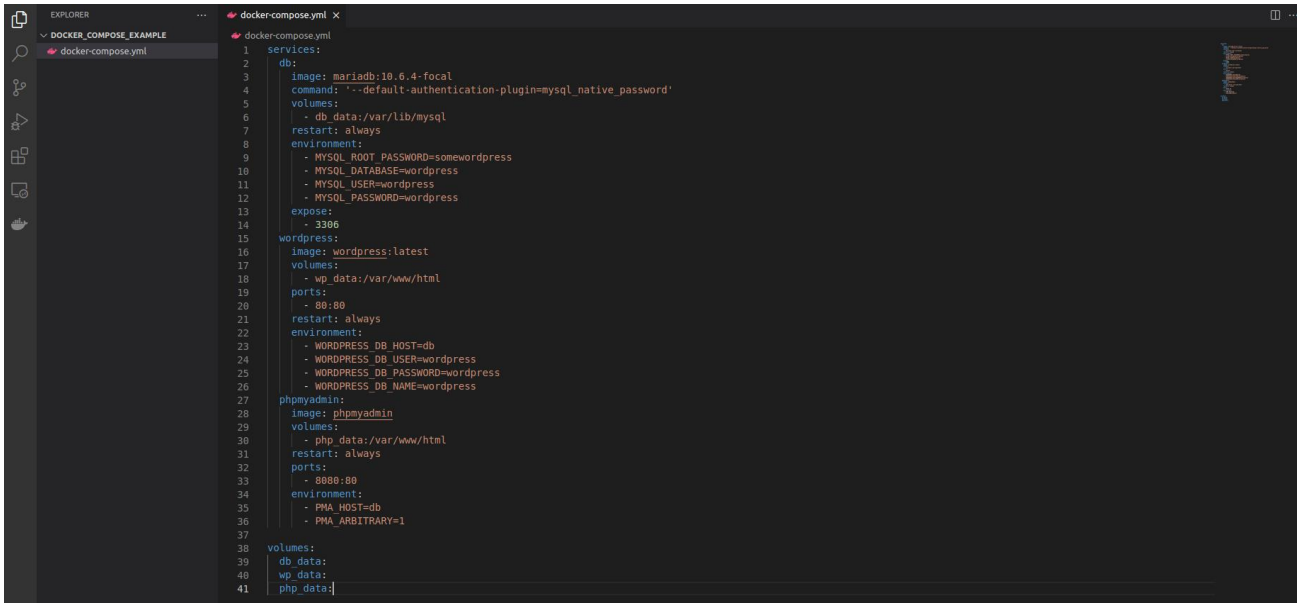

localhost:8080/index.php?route=/&route=%2F
Update
phpMyAdmin
Recent
Favorites
information_schema
wordpress
New
wp_commentmeta
wp_comments
wp_links
wp_options
wp_postmeta
wp_posts
wp_termmeta
wp_terms
wp_term_relationships
wp_term_taxonomy
wp_usermeta
wp_users
Server: db
Databases
SQL
Status
Export
Import
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@172.25.0.3
Server charset: UTF-8 Unicode (utf8mb4)
Web server
Apache/2.4.56 (Debian)
Database client version: libmysql - mysqlnd 8.1.18
PHP extension: mysqli curl mbstring sodium
PHP version: 8.1.18
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.
Console

Wordpress web page





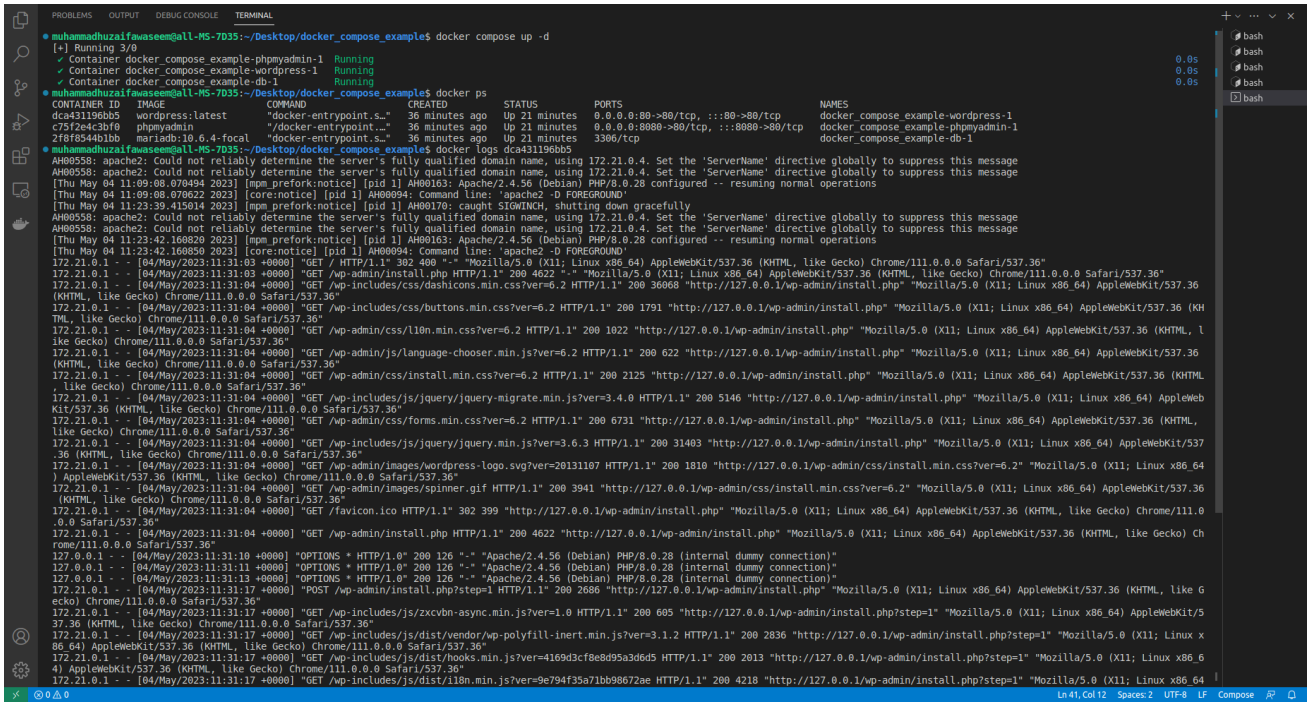
Docker compose code

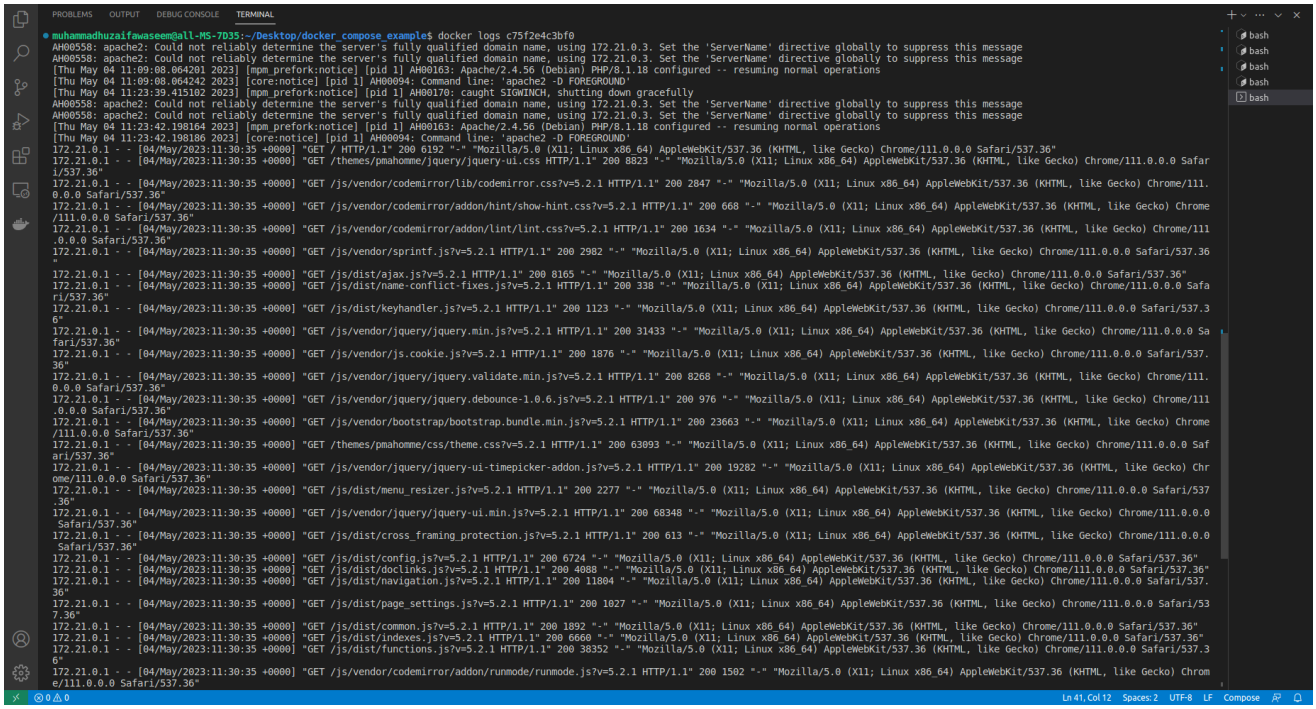


```yaml
services:
  db:
    image: mariadb:10.6.4-focal
    command: '--default-authentication-plugin=mysql_native_password'
    volumes:
      - db_data:/var/lib/mysql
    restart: always
    environment:
      - MYSQL_ROOT_PASSWORD=somewordpress
      - MYSQL_DATABASE=wordpress
      - MYSQL_USER=wordpress
      - 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
  phpmyadmin:
    image: phpmyadmin
    volumes:
      - php_data:/var/www/html
    restart: always
    ports:
      - 8080:80
    environment:
      - PMA_HOST=db
      - PMA_ARBITRARY=1

volumes:
  db_data:
  wp_data:
  php_data:
```

Docker log (wordpress)



```
muhammadhuzaifawaseem@all-MS-7D35:~/Desktop/docker_compose_example$ docker compose up -d
[+] Running 3/0
 ✔ Container docker_compose_example-phpmyadmin-1  Running                                                    0.0s
 ✔ Container docker_compose_example-wordpress-1   Running                                                    0.0s
 ✔ Container docker_compose_example-db-1          Running                                                    0.0s
muhammadhuzaifawaseem@all-MS-7D35:~/Desktop/docker_compose_example$ docker ps
CONTAINER ID   IMAGE              COMMAND                  CREATED          STATUS          PORTS                                   NAMES
dca431196bb5   wordpress:latest   "docker-entrypoint.s…"   36 minutes ago   Up 21 minutes   0.0.0.0:80->80/tcp, :::80->80/tcp       docker_compose_example-wordpress-1
c75f2e4c3bf9   phpmyadmin         "/docker-entrypoint.…"   36 minutes ago   Up 21 minutes   0.0.0.0:8080->80/tcp, :::8080->80/tcp   docker_compose_example-phpmyadmin-1
2f8f8544b1bb   mariadb:10.6.4-focal   "docker-entrypoint.s…"   36 minutes ago   Up 21 minutes   3306/tcp                                docker_compose_example-db-1
muhammadhuzaifawaseem@all-MS-7D35:~/Desktop/docker_compose_example$ docker logs dca431196bb5
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.21.0.4. Set the 'ServerName' directive globally to suppress this message
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.21.0.4. Set the 'ServerName' directive globally to suppress this message
[Thu May 04 11:09:08.070494 2023] [mpm_prefork:notice] [pid 1] AH00163: Apache/2.4.56 (Debian) PHP/8.0.28 configured -- resuming normal operations
[Thu May 04 11:09:08.070622 2023] [core:notice] [pid 1] AH00094: Command line: 'apache2 -D FOREGROUND'
[Thu May 04 11:23:39.415014 2023] [mpm_prefork:notice] [pid 1] AH00170: caught SIGWINCH, shutting down gracefully
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.21.0.4. Set the 'ServerName' directive globally to suppress this message
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.21.0.4. Set the 'ServerName' directive globally to suppress this message
[Thu May 04 11:23:42.160820 2023] [mpm_prefork:notice] [pid 1] AH00163: Apache/2.4.56 (Debian) PHP/8.0.28 configured -- resuming normal operations
[Thu May 04 11:23:42.160850 2023] [core:notice] [pid 1] AH00094: Command line: 'apache2 -D FOREGROUND'
172.21.0.1 - - [04/May/2023:11:31:03 +0000] "GET / HTTP/1.1" 302 400 "-" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/111.0.0.0 Safari/537.36"
172.21.0.1 - - [04/May/2023:11:31:03 +0000] "GET /wp-admin/install.php HTTP/1.1" 200 4622 "-" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/111.0.0.0 Safari/537.36"
172.21.0.1 - - [04/May/2023:11:31:04 +0000] "GET /wp-includes/css/dashicons.min.css?ver=6.2 HTTP/1.1" 200 36068 "http://127.0.0.1/wp-admin/install.php" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36
(KHTML, like Gecko) Chrome/111.0.0.0 Safari/537.36"
172.21.0.1 - - [04/May/2023:11:31:04 +0000] "GET /wp-includes/css/buttons.min.css?ver=6.2 HTTP/1.1" 200 1791 "http://127.0.0.1/wp-admin/install.php" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KH
TML, like Gecko) Chrome/111.0.0.0 Safari/537.36"
172.21.0.1 - - [04/May/2023:11:31:04 +0000] "GET /wp-admin/css/l10n.min.css?ver=6.2 HTTP/1.1" 200 1022 "http://127.0.0.1/wp-admin/install.php" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, l
ike Gecko) Chrome/111.0.0.0 Safari/537.36"
172.21.0.1 - - [04/May/2023:11:31:04 +0000] "GET /wp-admin/js/language-chooser.min.js?ver=6.2 HTTP/1.1" 200 622 "http://127.0.0.1/wp-admin/install.php" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36
(KHTML, like Gecko) Chrome/111.0.0.0 Safari/537.36"
172.21.0.1 - - [04/May/2023:11:31:04 +0000] "GET /wp-admin/css/install.min.css?ver=6.2 HTTP/1.1" 200 2125 "http://127.0.0.1/wp-admin/install.php" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML
, like Gecko) Chrome/111.0.0.0 Safari/537.36"
172.21.0.1 - - [04/May/2023:11:31:04 +0000] "GET /wp-includes/js/jquery/jquery-migrate.min.js?ver=3.4.0 HTTP/1.1" 200 5146 "http://127.0.0.1/wp-admin/install.php" "Mozilla/5.0 (X11; Linux x86_64) AppleWeb
Kit/537.36 (KHTML, like Gecko) Chrome/111.0.0.0 Safari/537.36"
172.21.0.1 - - [04/May/2023:11:31:04 +0000] "GET /wp-admin/css/forms.min.css?ver=6.2 HTTP/1.1" 200 6731 "http://127.0.0.1/wp-admin/install.php" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML,
like Gecko) Chrome/111.0.0.0 Safari/537.36"
172.21.0.1 - - [04/May/2023:11:31:04 +0000] "GET /wp-includes/js/jquery/jquery.min.js?ver=3.6.3 HTTP/1.1" 200 31403 "http://127.0.0.1/wp-admin/install.php" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537
.36 (KHTML, like Gecko) Chrome/111.0.0.0 Safari/537.36"
172.21.0.1 - - [04/May/2023:11:31:04 +0000] "GET /wp-admin/images/wordpress-logo.svg?ver=20131107 HTTP/1.1" 200 1810 "http://127.0.0.1/wp-admin/css/install.min.css?ver=6.2" "Mozilla/5.0 (X11; Linux x86_64
) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/111.0.0.0 Safari/537.36"
172.21.0.1 - - [04/May/2023:11:31:04 +0000] "GET /wp-admin/images/spinner.gif HTTP/1.1" 200 3941 "http://127.0.0.1/wp-admin/css/install.min.css?ver=6.2" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36
 (KHTML, like Gecko) Chrome/111.0.0.0 Safari/537.36"
172.21.0.1 - - [04/May/2023:11:31:04 +0000] "GET /favicon.ico HTTP/1.1" 302 399 "http://127.0.0.1/wp-admin/install.php" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/111.0
.0.0 Safari/537.36"
172.21.0.1 - - [04/May/2023:11:31:04 +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) Ch
rome/111.0.0.0 Safari/537.36"
127.0.0.1 - - [04/May/2023:11:31:10 +0000] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.56 (Debian) PHP/8.0.28 (internal dummy connection)"
127.0.0.1 - - [04/May/2023:11:31:11 +0000] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.56 (Debian) PHP/8.0.28 (internal dummy connection)"
127.0.0.1 - - [04/May/2023:11:31:13 +0000] "OPTIONS * HTTP/1.0" 200 126 "-" "Apache/2.4.56 (Debian) PHP/8.0.28 (internal dummy connection)"
172.21.0.1 - - [04/May/2023:11:31:17 +0000] "POST /wp-admin/install.php?step=1 HTTP/1.1" 200 2686 "http://127.0.0.1/wp-admin/install.php" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like G
ecko) Chrome/111.0.0.0 Safari/537.36"
172.21.0.1 - - [04/May/2023:11:31:17 +0000] "GET /wp-includes/js/zxcvbn-async.min.js?ver=1.0 HTTP/1.1" 200 605 "http://127.0.0.1/wp-admin/install.php?step=1" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/5
37.36 (KHTML, like Gecko) Chrome/111.0.0.0 Safari/537.36"
172.21.0.1 - - [04/May/2023:11:31:17 +0000] "GET /wp-includes/js/dist/vendor/wp-polyfill-inert.min.js?ver=3.1.2 HTTP/1.1" 200 2836 "http://127.0.0.1/wp-admin/install.php?step=1" "Mozilla/5.0 (X11; Linux x
86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/111.0.0.0 Safari/537.36"
172.21.0.1 - - [04/May/2023:11:31:17 +0000] "GET /wp-includes/js/dist/hooks.min.js?ver=4169d3cf8e8d95a3d6d5 HTTP/1.1" 200 2013 "http://127.0.0.1/wp-admin/install.php?step=1" "Mozilla/5.0 (X11; Linux x86_6
4) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/111.0.0.0 Safari/537.36"
172.21.0.1 - - [04/May/2023:11:31:17 +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
```

Docker log (PHP)