

**Name: - Muhammad Huzaifa Waseem (2303-KHI-DEG-021)**

**Pair Partner 1: - Muhammad Faizan Rafique (2303.005.KHI.DEG)**

**Pair Partner 2: - Syed Muhammad Hammad Irshad(2303.KHI.DEG.032)**

## UNIT 4.1:

# Assignment

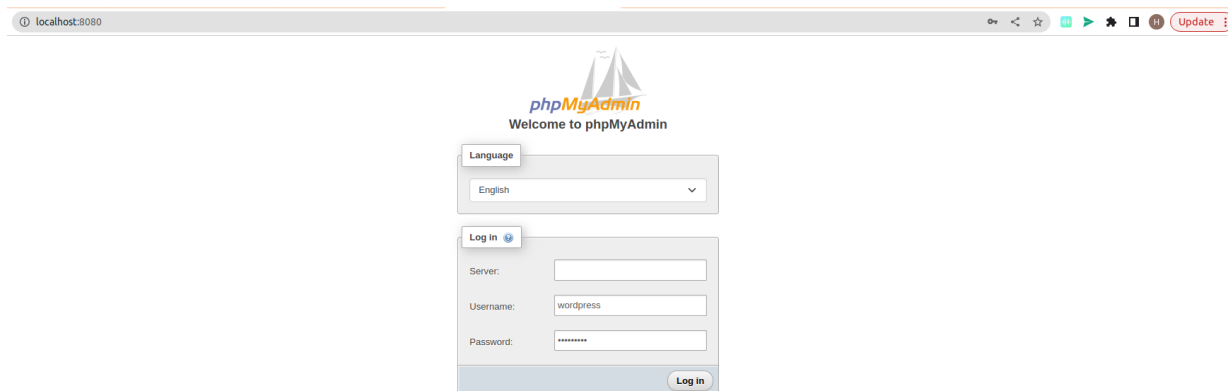
### Browse to:

tasks/4\_microservices\_development/day\_1\_microservices/docker\_compose\_example

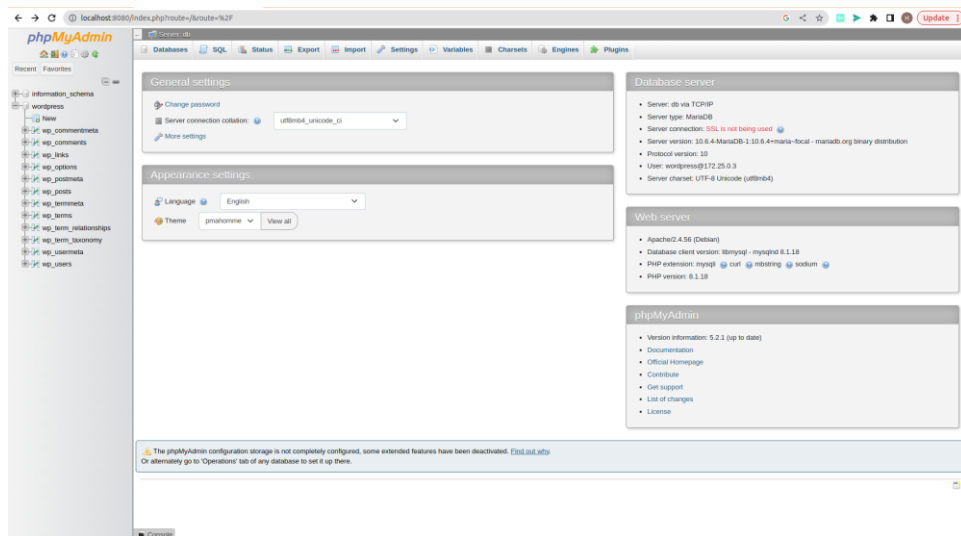
### Next you will:

- 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.

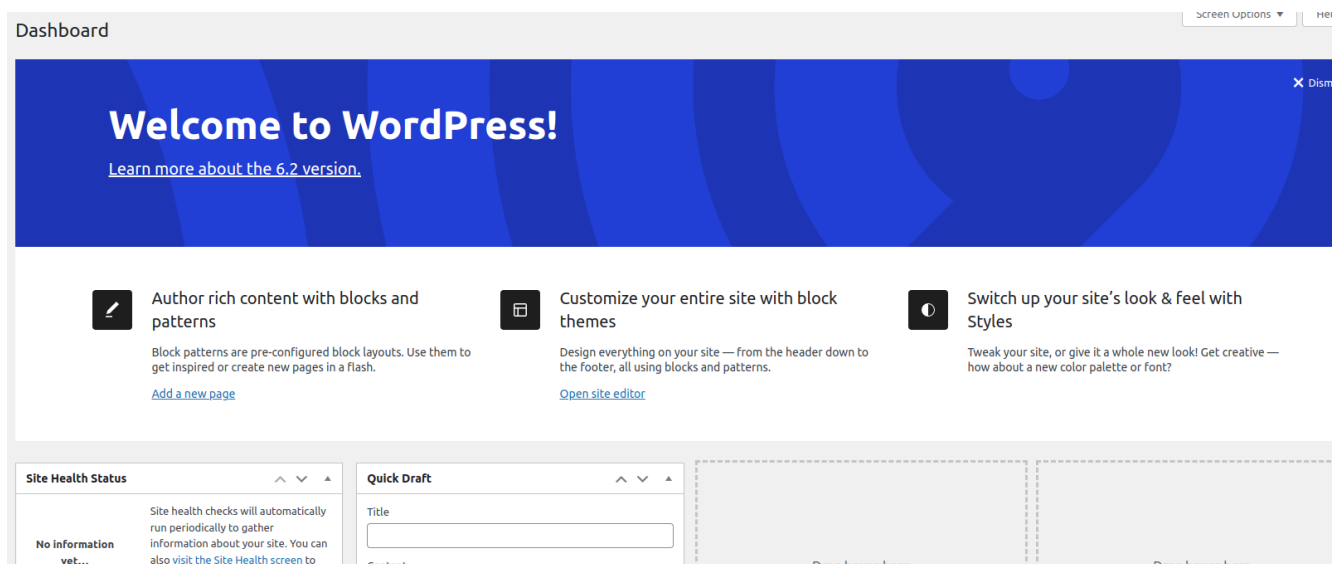
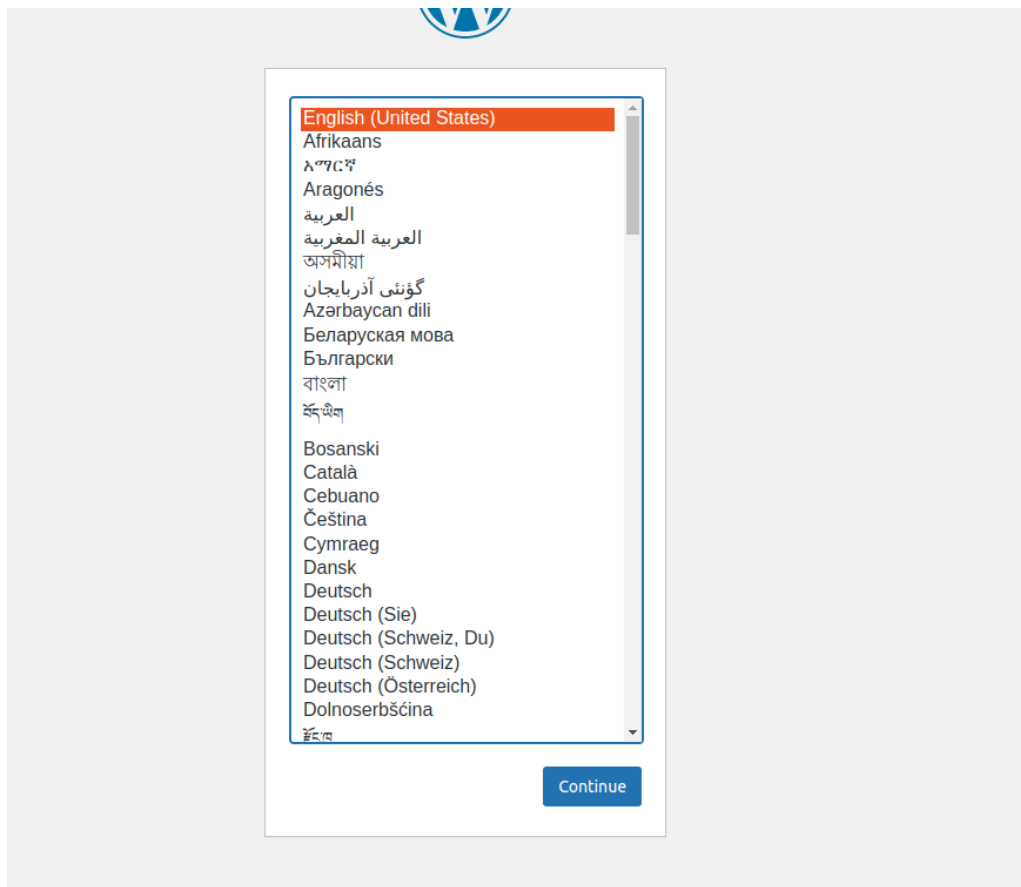
## PHP web page



The screenshot shows a web browser window with the address bar displaying 'localhost:8080'. The page content is the phpMyAdmin login interface. At the top, there is a logo with a sailboat and the text 'phpMyAdmin' and 'Welcome to phpMyAdmin'. Below this, there is a 'Language' dropdown menu set to 'English'. Underneath is a 'Log in' button with a blue plus icon. The login form contains three input fields: 'Server:' (empty), 'Username:' (containing 'wordpress'), and 'Password:' (containing '\*\*\*\*\*'). At the bottom right of the form is a 'Log in' button.



# Wordpress web page



# Docker compose code

```
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    volumes:
30      - php_data:/var/www/html
31    restart: always
32    ports:
33      - 8080:80
34    environment:
35      - PMA_HOST=db
36      - PMA_ARBITRARY=1
37
38  volumes:
39    db_data:
40    wp_data:
41    php_data:
```

# Docker log (wordpress)

```
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS          NAMES
dca43196b55   wordpress:late "docker-entrypoint.s..." 36 minutes ago Up 21 minutes 0.0.0.0:80->80/tcp, :::80->80/tcp docker_compose_example-wordpress-1
2f8f8544b1bb   mariadb:10.6.4-focal "docker-entrypoint.s..." 36 minutes ago Up 21 minutes 3306/tcp       docker_compose_example-phpmyadmin-1

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] AH00904: Command Line: 'apache2 -D FOREGROUND'
[Thu May 04 11:23:30.415014 2023] [mpm_prefork:notice] [pid 1] AH00170: caught SIGWINCH, shutting down gracefuly
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] AH00904: 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 36968 "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 (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/js/language-chooser.min.js?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, 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) 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/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) Chrome/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 Gecko) 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/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/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 x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/111.0.0.0 Safari/537.36"
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) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/111.0.0.0 Safari/537.36"
```

# Docker log (PHP)

```

muhammadhuzafawaseem@ll-MS-7035:~/Desktop/docker_compose_examples$ docker logs c75f2e4c3bf9
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.21.0.3. Set the 'ServerName' directive globally to suppress this message
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.21.0.3. Set the 'ServerName' directive globally to suppress this message
[Thu May 04 11:09:08.064201 2023] [mpm_prefork:notice] [pid 1] AH00163: Apache/2.4.56 (Debian) PHP/8.1.18 configured -- resuming normal operations
[Thu May 04 11:09:08.064242 2023] [core:notice] [pid 1] AH00094: Command line: 'apache2 -D FOREGROUND'
[Thu May 04 11:23:39.415182 2023] [mpm_prefork:notice] [pid 1] AH00170: caught SIGMCH, shutting down gracefully
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.21.0.3. Set the 'ServerName' directive globally to suppress this message
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.21.0.3. Set the 'ServerName' directive globally to suppress this message
[Thu May 04 11:23:42.198164 2023] [mpm_prefork:notice] [pid 1] AH00163: Apache/2.4.56 (Debian) PHP/8.1.18 configured -- resuming normal operations
[Thu May 04 11:23:42.198186 2023] [core:notice] [pid 1] AH00094: Command line: 'apache2 -D FOREGROUND'
172.21.0.1 - - [04/May/2023:11:30:35 +0000] "GET / HTTP/1.1" 200 6192 "-" "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/2023:11:30:35 +0000] "GET /themes/pmahomme/jquery/jquery-ui.css HTTP/1.1" 200 8823 "-" "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/2023:11:30:35 +0000] "GET /js/vendor/codemirror/lib/codemirror.css?v=5.2.1 HTTP/1.1" 200 2847 "-" "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/2023:11:30:35 +0000] "GET /js/vendor/codemirror/addon/hint/show-hint.css?v=5.2.1 HTTP/1.1" 200 668 "-" "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/2023:11:30:35 +0000] "GET /js/vendor/codemirror/addon/lint/lint.css?v=5.2.1 HTTP/1.1" 200 1634 "-" "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/2023:11:30:35 +0000] "GET /js/vendor/sprintf.js?v=5.2.1 HTTP/1.1" 200 2982 "-" "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/2023:11:30:35 +0000] "GET /js/dist/ajax.js?v=5.2.1 HTTP/1.1" 200 8165 "-" "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/2023:11:30:35 +0000] "GET /js/dist/name-conflict-fixes.js?v=5.2.1 HTTP/1.1" 200 338 "-" "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/2023:11:30:35 +0000] "GET /js/dist/keyhandler.js?v=5.2.1 HTTP/1.1" 200 1123 "-" "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/2023:11:30:35 +0000] "GET /js/vendor/jquery/jquery.min.js?v=5.2.1 HTTP/1.1" 200 31433 "-" "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/2023:11:30:35 +0000] "GET /js/vendor/js.cookie.js?v=5.2.1 HTTP/1.1" 200 1876 "-" "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/2023:11:30:35 +0000] "GET /js/vendor/jquery/jquery.validate.min.js?v=5.2.1 HTTP/1.1" 200 8268 "-" "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/2023:11:30:35 +0000] "GET /js/vendor/jquery/jquery.debounce-1.0.6.js?v=5.2.1 HTTP/1.1" 200 976 "-" "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/2023:11:30:35 +0000] "GET /js/vendor/bootstrap/bootstrap.bundle.min.js?v=5.2.1 HTTP/1.1" 200 23663 "-" "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/2023:11:30:35 +0000] "GET /themes/pmahomme/css/theme.css?v=5.2.1 HTTP/1.1" 200 63093 "-" "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/2023:11:30:35 +0000] "GET /js/vendor/jquery/jquery-ui-timepicker-addon.js?v=5.2.1 HTTP/1.1" 200 19282 "-" "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/2023:11:30:35 +0000] "GET /js/dist/menu_resizer.js?v=5.2.1 HTTP/1.1" 200 2277 "-" "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/2023:11:30:35 +0000] "GET /js/vendor/jquery/jquery-ui.min.js?v=5.2.1 HTTP/1.1" 200 68348 "-" "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/2023:11:30:35 +0000] "GET /js/dist/cross_framing_protection.js?v=5.2.1 HTTP/1.1" 200 613 "-" "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/2023:11:30:35 +0000] "GET /js/dist/config.js?v=5.2.1 HTTP/1.1" 200 6724 "-" "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/2023:11:30:35 +0000] "GET /js/dist/docLinks.js?v=5.2.1 HTTP/1.1" 200 4088 "-" "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/2023:11:30:35 +0000] "GET /js/dist/navigation.js?v=5.2.1 HTTP/1.1" 200 11804 "-" "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/2023:11:30:35 +0000] "GET /js/dist/page_settings.js?v=5.2.1 HTTP/1.1" 200 1827 "-" "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/2023:11:30:35 +0000] "GET /js/dist/common.js?v=5.2.1 HTTP/1.1" 200 1892 "-" "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/2023:11:30:35 +0000] "GET /js/dist/indexes.js?v=5.2.1 HTTP/1.1" 200 6668 "-" "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/2023:11:30:35 +0000] "GET /js/dist/functions.js?v=5.2.1 HTTP/1.1" 200 38352 "-" "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/2023:11:30:35 +0000] "GET /js/vendor/codemirror/addon/runmode/runmode.js?v=5.2.1 HTTP/1.1" 200 1582 "-" "Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/111.0.0.0 Safari/537.36"
Ln 41, Col 12  Spaces: 2  UTF-8  LF  Compose
```