



Instalacja moodle na serwerze opartym o dystrybucję debianową

(w tym przykładzie wykorzystuję Ubuntu Server 18.04.3 LTS)

1. Instalacja i konfiguracja bazy danych MariaDB

1.1. Instalujemy paczkę mariadb-server:

```
root@moodle:/home/moodle# apt-get install mariadb-server_
```

1.2. Po zainstalowaniu logujemy się do bazy danych jako root:

```
moodle@moodle:~$ sudo mariadb -u root
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 54
Server version: 10.1.44-MariaDB-0ubuntu0.18.04.1 Ubuntu 18.04

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
+-----+
3 rows in set (0.00 sec)
```

1.3. Tworzymy database, którą następnie wykorzystamy jako bazę dla moodle:

```
MariaDB [(none)]> CREATE DATABASE moodledb DEFAULT CHARACTER SET utf8 COLLATE utf8_unicode_ci;
Query OK, 1 row affected (0.00 sec)

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| moodledb |
| mysql |
| performance_schema |
+-----+
4 rows in set (0.00 sec)
```



- 1.4. Tworzymy usera dedykowanego pod moodle, by potem ograniczyć jego prawa do jednej tylko bazy danych (radzę użyć innego hasła niż "1234"):

```
MariaDB [(none)]> create user moodle@localhost identified by '1234';
Query OK, 0 rows affected (0.00 sec)

MariaDB [(none)]> SELECT User FROM mysql.user;
+-----+
| User      |
+-----+
| moodle    |
| root      |
+-----+
2 rows in set (0.00 sec)
```

- 1.5. Jak możemy zauważyć, po samym tylko stworzeniu i zalogowaniu się użytkownik 'moodle' nie widzi bazy 'moodledb':

```
moodle@moodle:~$ sudo mariadb -u moodle -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 48
Server version: 10.1.44-MariaDB-0ubuntu0.18.04.1 Ubuntu 18.04

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> show databases;
+-----+
| Database          |
+-----+
| information_schema |
+-----+
1 row in set (0.00 sec)
```

- 1.6. Nadajmy mu więc uprawnienia do wspomnianej bazy:

```
moodle@moodle:~$ sudo mariadb -u root
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 53
Server version: 10.1.44-MariaDB-0ubuntu0.18.04.1 Ubuntu 18.04

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> show databases;
+-----+
| Database          |
+-----+
| information_schema |
| moodledb          |
| mysql             |
| performance_schema |
+-----+
4 rows in set (0.00 sec)

MariaDB [(none)]> GRANT ALL PRIVILEGES ON moodledb.* TO 'moodle'@'localhost' IDENTIFIED BY '1234';
Query OK, 0 rows affected (0.00 sec)
```



2. Instalacja i konfiguracja serwisów Apache i PHP

2.1. Instalujemy pakiet apache2:

```
root@moodle:/home/moodle# apt-get install apache2
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils libapr1 libaprutil1 libaprutil1-dbd-sqlite3
  libaprutil1-ldap liblua5.2-0 ssl-cert
Suggested packages:
  www-browser apache2-doc apache2-suexec-pristine | apache2-suexec-custom openssl-blacklist
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils libapr1 libaprutil1 libaprutil1-dbd-sqlite3
  libaprutil1-ldap liblua5.2-0 ssl-cert
0 upgraded, 10 newly installed, 0 to remove and 143 not upgraded.
Need to get 1,729 kB of archives.
After this operation, 6,986 kB of additional disk space will be used.
Do you want to continue? [Y/n] y_
```

2.2. Doinstalowywujemy pakiety php do apache:

```
moodle@moodle:~/moodle/admin/cli$ sudo apt-get install php libapache2-mod-php
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  libapache2-mod-php7.2 libsodium23 php-common php7.2 php7.2-cli php7.2-common php7.2-json
  php7.2-opcache php7.2-readline
Suggested packages:
  php-pear
The following NEW packages will be installed:
  libapache2-mod-php libapache2-mod-php7.2 libsodium23 php php-common php7.2 php7.2-cli
  php7.2-common php7.2-json php7.2-opcache php7.2-readline
0 upgraded, 11 newly installed, 0 to remove and 143 not upgraded.
Need to get 4,013 kB of archives.
After this operation, 17.6 MB of additional disk space will be used.
Do you want to continue? [Y/n]
```

2.3. Dodatkowo instalujemy pakiet php odpowiedzialny za komunikację z mysql

```
moodle@moodle:/etc/php/7.2/apache2/conf.d$ apt-get install php7.2-mysql
```

2.4. A także poboczne pakiety z których będzie korzystał moodle:

```
moodle@moodle:/etc/php/7.2/apache2/conf.d$ sudo apt-get install php-xml
```

```
moodle@moodle:/etc/php/7.2/apache2/conf.d$ sudo apt-get install php7.2-gd php7.2-intl
```

3. Instalacja i konfiguracja moodle – czyli spinanie wszystkiego w całość

3.1. Pobieray paczkę instalacyjną moodle:

```
moodle@moodle:~$ wget https://download.moodle.org/stable38/moodle-latest-38.tgz
--2020-05-02 12:32:27-- https://download.moodle.org/stable38/moodle-latest-38.tgz
Resolving download.moodle.org (download.moodle.org)... 104.22.64.81, 104.22.65.81, 2606:4700:10::681
6:4051, ...
Connecting to download.moodle.org (download.moodle.org)|104.22.64.81|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 53202413 (51M) [application/x-gzip]
Saving to: 'moodle-latest-38.tgz'

moodle-latest-38.tgz  100%[=====] 50.74M  552KB/s  in 88s

2020-05-02 12:33:56 (588 KB/s) - 'moodle-latest-38.tgz' saved [53202413/53202413]
```



3.2. Rozpakowujemy paczkę:

```
moodle@moodle:~$ sudo tar xvzf moodle-latest-38.tgz -C /var/www/html/  
[sudo] password for moodle: _
```

3.3. Zmieniamy właściciela (użytkownika oraz grupę) katalogu i podkatalogów /var/www/ z root:root na apach'owy www-data:www-data:

```
moodle@moodle:~$ ls -lahd /var/www/  
drwxr-xr-x 3 root root 4.0K May  1 21:39 /var/www/  
moodle@moodle:~$ sudo chown -R www-data:www-data /var/www/  
moodle@moodle:~$ ls -lahd /var/www/  
drwxr-xr-x 3 www-data www-data 4.0K May  1 21:39 /var/www/
```

3.4. Sprawdzamy przy okazji wersję PHP, czy by na pewno wszystko poszło dobrze:

```
moodle@moodle:~$ php -v  
PHP 7.2.24-0ubuntu0.18.04.4 (cli) (built: Apr  8 2020 15:45:57) ( NTS )  
Copyright (c) 1997-2018 The PHP Group  
Zend Engine v3.2.0, Copyright (c) 1998-2018 Zend Technologies  
    with Zend OPcache v7.2.24-0ubuntu0.18.04.4, Copyright (c) 1999-2018, by Zend Technologies  
moodle@moodle:~$ sudo a2enmod php7.2
```

W razie problemu:

"error module mpm_event is enabled - cannot proceed due to conflicts. it needs to be disabled first"

wyluczamy mpm_event:

```
sudo a2dismod mpm_event
```

restartujemy service:

```
sudo systemctl restart apache2
```

następnie znowu wpisujemy:

```
sudo a2enmod php7.2
```

3.5. Dla pewności restartujemy service apache

```
Creating config file /etc/php/7.2/mods-available/zip.ini with new version  
Processing triggers for libapache2-mod-php7.2 (7.2.24-0ubuntu0.18.04.4) ...  
moodle@moodle:~$ systemctl restart apache2  
==== AUTHENTICATING FOR org.freedesktop.systemd1.manage-units ====  
Authentication is required to restart 'apache2.service'.  
Authenticating as: moodle  
Password:  
==== AUTHENTICATION COMPLETE ====  
moodle@moodle:~$
```



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