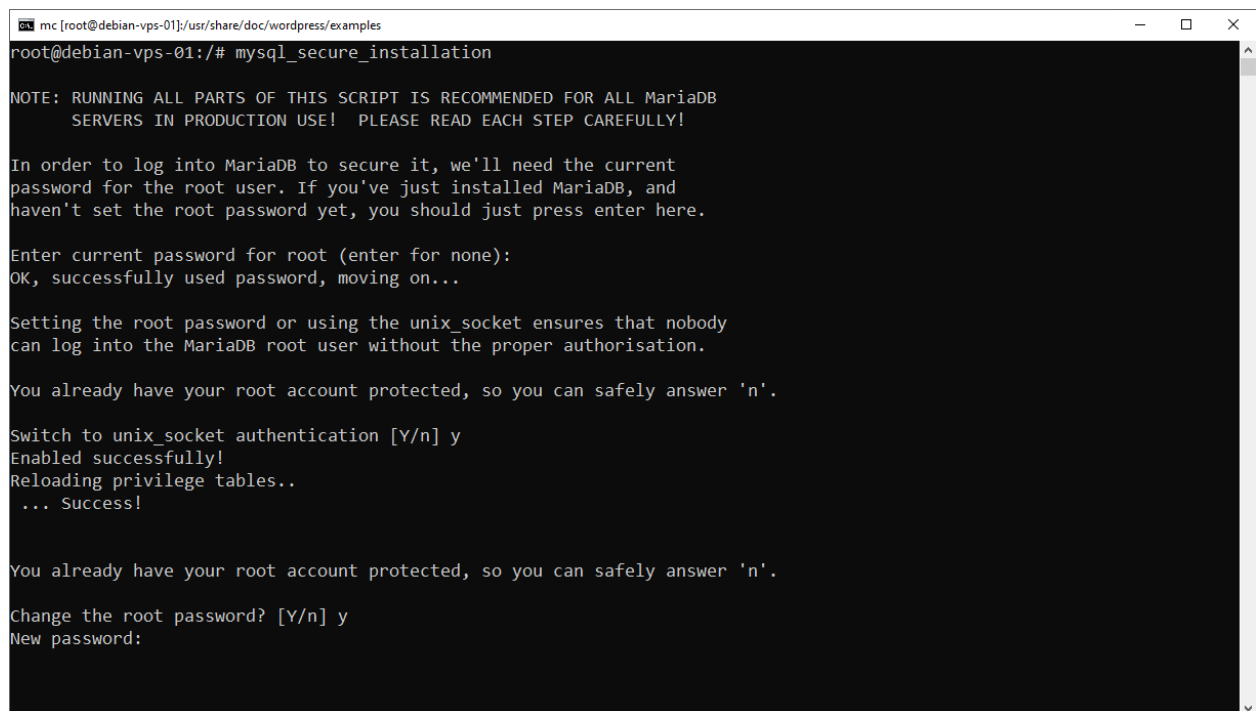


- Z wykorzystaniem serwera VPS (z publicznym adresem IPv4/IPv6) oraz skonfigurowanej domeny xdd.com.pl zarejestrowanej w publicznym systemie DNS, należy udostępnić witrynę internetową z wykorzystaniem aplikacji web'owej Wordpress w transmisji szyfrowanej (z wykorzystaniem darmowego certyfikatu SSL z Let's Encrypt) i opierając się o zakupioną wcześniej na potrzeby firmy domeny xdd.com.pl, a konkretniej udostępnić ją pod dwoma adresami: *http://* oraz *http://www.* (tylko przygotować, na domyślnej konfiguracji, do dalszego zarządzania przez inną osobą)

Na początku trzeba zainstalować poniższe pakiety oraz skonfigurować bazę mysql:

***apt install apache2 mariadb-server mariadb-client curl***

***apt install php php-mysql php-curl php-gd php-mbstring php-xml php-xmlrpc php-soap php-intl php-zip***



```
mc [root@debian-vps-01]:/usr/share/doc/wordpress/examples
root@debian-vps-01:~# mysql_secure_installation

NOTE: RUNNING ALL PARTS OF THIS SCRIPT IS RECOMMENDED FOR ALL MariaDB
      SERVERS IN PRODUCTION USE!  PLEASE READ EACH STEP CAREFULLY!

In order to log into MariaDB to secure it, we'll need the current
password for the root user. If you've just installed MariaDB, and
haven't set the root password yet, you should just press enter here.

Enter current password for root (enter for none):
OK, successfully used password, moving on...

Setting the root password or using the unix_socket ensures that nobody
can log into the MariaDB root user without the proper authorisation.

You already have your root account protected, so you can safely answer 'n'.

Switch to unix_socket authentication [Y/n] y
Enabled successfully!
Reloading privilege tables..
... Success!

You already have your root account protected, so you can safely answer 'n'.

Change the root password? [Y/n] y
New password:
```

## Konfiguracja bazy:

```
mc [root@debian-vps-01]:/usr/share/doc/wordpress/examples
root@debian-vps-01:/# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 51
Server version: 10.5.19-MariaDB-0+deb11u2 Debian 11

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)]> CREATE DATABASE wordpress DEFAULT CHARACTER SET utf8 COLLATE utf8_unicode_ci;
ERROR 1007 (HY000): Can't create database 'wordpress'; database exists
MariaDB [(none)]> DROP DATABASE wordpress ;
Query OK, 0 rows affected (0.001 sec)

MariaDB [(none)]> CREATE DATABASE wordpress DEFAULT CHARACTER SET utf8 COLLATE utf8_unicode_ci;
Query OK, 1 row affected (0.000 sec)

MariaDB [(none)]> GRANT ALL ON wordpress.* TO 'wordpress_user'@'localhost' IDENTIFIED BY 'W0rdPr3ss!';
Query OK, 0 rows affected (0.004 sec)

MariaDB [(none)]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.001 sec)

MariaDB [(none)]> EXIT
Bye
root@debian-vps-01:/#
```

## Pobieranie wordpressa:

```
mc [root@debian-vps-01]:/usr/share/doc/wordpress/examples
root@debian-vps-01:/# wget https://wordpress.org/latest.tar.gz
--2023-06-15 16:21:35-- https://wordpress.org/latest.tar.gz
Resolving wordpress.org (wordpress.org)... 198.143.164.252
Connecting to wordpress.org (wordpress.org)|198.143.164.252|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 23020109 (22M) [application/octet-stream]
Saving to: 'latest.tar.gz'

latest.tar.gz          100%[=====>] 21.95M  15.0MB/s   in 1.5s

2023-06-15 16:21:37 (15.0 MB/s) - 'latest.tar.gz' saved [23020109/23020109]

root@debian-vps-01:/# mkdir /var/www/wordpress
root@debian-vps-01:/# tar xzvf latest.tar.gz --directory /var/www
```

```
mc [root@debian-vps-01]:/usr/share/doc/wordpress/examples
/etc/apache2/sites-available/wordpress.conf [-M--] 12 L: [ 1+ 3 4/ 4] *(105 / 105b) <EOF> [*][X] ^
Alias /wordpress "/var/www/wordpress/"
<Directory /var/www/wordpress/>
    AllowOverride All
</Directory>
```

Poniżej po kolei:

-włączanie witryny Wordpress i wymaganych modułów PHP

-utwórczenie pliku **.htaccess**

-skopiowanie przykładowej konfiguracji wordpress

-utwórczenie katalogu aktualizacji

-ustawienie właściciela nowego katalogu wordpress na **www-data**

-zmienienie dodatkowych uprawnień

```
mc [root@debian-vps-01]:/usr/share/doc/wordpress/examples
root@debian-vps-01:/# a2ensite wordpress
Enabling site wordpress.
To activate the new configuration, you need to run:
    systemctl reload apache2
root@debian-vps-01:/# a2enmod rewrite
Module rewrite already enabled
root@debian-vps-01:/# touch /var/www/wordpress/.htaccess
root@debian-vps-01:/# cp /var/www/wordpress/wp-config-sample.php /var/www/wordpress/wp-config.php
root@debian-vps-01:/# mkdir /var/www/wordpress/wp-content/upgrade
root@debian-vps-01:/# chown -R www-data:www-data /var/www/wordpress
root@debian-vps-01:/# find /var/www/wordpress/ -type d -exec chmod 750 {} \;
root@debian-vps-01:/# find /var/www/wordpress/ -type f -exec chmod 640 {} \;
root@debian-vps-01:/#
```

## Wygenerowanie bezpiecznych tajnych kluczy

```
mc [root@debian-vps-01]:/usr/share/doc/wordpress/examples
root@debian-vps-01:/# a2ensite wordpress
Enabling site wordpress.
To activate the new configuration, you need to run:
  systemctl reload apache2
root@debian-vps-01:/# a2enmod rewrite
Module rewrite already enabled
root@debian-vps-01:/# touch /var/www/wordpress/.htaccess
root@debian-vps-01:/# cp /var/www/wordpress/wp-config-sample.php /var/www/wordpress/wp-config.php
root@debian-vps-01:/# mkdir /var/www/wordpress/wp-content/upgrade
root@debian-vps-01:/# chown -R www-data:www-data /var/www/wordpress
root@debian-vps-01:/# find /var/www/wordpress/ -type d -exec chmod 750 {} \;
root@debian-vps-01:/# find /var/www/wordpress/ -type f -exec chmod 640 {} \;
root@debian-vps-01:/# curl -s https://api.wordpress.org/secret-key/1.1/salt/
define('AUTH_KEY',
    '#+a+[64{;QtpP)K|MVlI>|hTFkZr}GN$G|I0v-|wXCK0w&-7lSau1y6G/s9^s7L');
define('SECURE_AUTH_KEY',
    '2CVIOp&zP<_aj83=eW2@tLwukEFvfv>U<@n0g=X|kTxzKa->{'`y%ziCH)QpaZBc}');
define('LOGGED_IN_KEY',
    ')+0.f:-z8-k@&sEY!AUzf%}HlU8ffX]8S-$hR.pOUeS7C+GXJ*&y`HckhX8Pktbb');
define('NONCE_KEY',
    'f-VDBuA9a3jC+G)97^U<2|f~g|ax{`^@J@-na]hUm{TF-p|sN~!#;*,R&-0S&`CR');
define('AUTH_SALT',
    '7a`KWy`Wj>_{{Zt}EZ|I,QCR58<n$7Gp?qiv%B|r:E^S(<aI_8)eJ^A*%?L4i@#');
define('SECURE_AUTH_SALT',
    'Ly2vY|c|HNqauioPfe|+-A#|VyQWfE*fqwVU7c|6S!PS)v|e+[ig7v<N$Bp^(J-QZ');
define('LOGGED_IN_SALT',
    '1T&I9Ql^ve~Yey)~qkFge(=)K2)|3V#Ek6f@bLTIoM/$YK9c*ikME?:=]Fonqz;<');
define('NONCE_SALT',
    'Qb)L|US+AkXxP8jc)Ld~!E}O=sX:~XmV+>+VmP|VdQq8P|Q+@`'(j: 1K|V-sj=V');
root@debian-vps-01:/#
```

## Potrzebne rzeczy do zalogowania się do wordpress'a

```
mc [root@debian-vps-01]:/usr/share/doc/wordpress/examples
/var/www/wordpress/wp-config.php [-M--] 32 L: [ 18+11 29/ 97] *(789 /3000b) 0039 0x027 [*][X]
* @package WordPress^M
*/^M
^M
// ** Database settings - You can get this info from your web host ** //^M
/** The name of the database for WordPress */^M
define( 'DB_NAME', 'wordpress' );^M
^M
/** Database username */^M
define( 'DB_USER', 'wordpress_user' ) ^M
^M
/** Database password */^M
define( 'DB_PASSWORD', 'ZaqI2wsx' );^M
^M
/** Database hostname */^M
define( 'DB_HOST', 'localhost' );^M
^M
/** Database charset to use in creating database tables. */^M
define( 'DB_CHARSET', 'utf8' );^M
^M
/** The database collate type. Don't change this if in doubt. */^M
define( 'DB_COLLATE', '' );^M
^M
/**#@+^M
 * Authentication unique keys and salts.^M
 *^M
 * Change these to different unique phrases! You can generate these using^M
 * the {@link https://api.wordpress.org/secret-key/1.1/salt/ WordPress.org secret-key service).^M
 *^M
1Help 2Save 3Mark 4Replac 5Copy 6Move 7Search 8Delete 9PullDn 10Quit
```

Tutaj gdzie jest **DB\_USER** ma być samo **'wordpress'** zamiast **'wordpress\_user'** bo nie wpuści nas do bazy danych

## Skopiowanie wygenerowanych tajnych kluczy plus dodanie dodatkowej linii

```
mc [root@debian-vps-01]:/usr/share/doc/wordpress/examples
/var/www/wordpress/wp-config.php [-M--] 30 L: [ 50+21 71/111] *(2746/3806b) 0010 0x00A [*][X]
*/^M

/* define( 'AUTH_KEY',          'put your unique phrase here' );^M
define( 'SECURE_AUTH_KEY',      'put your unique phrase here' );^M
define( 'LOGGED_IN_KEY',        'put your unique phrase here' );^M
define( 'NONCE_KEY',            'put your unique phrase here' );^M
define( 'AUTH_SALT',            'put your unique phrase here' );^M
define( 'SECURE_AUTH_SALT',      'put your unique phrase here' );^M
define( 'LOGGED_IN_SALT',        'put your unique phrase here' );^M
define( 'NONCE_SALT',           'put your unique phrase here' );^M
*/

define( 'AUTH_KEY',              '1+!+{64{;QtPp}K}Mv1t>|hTfKzr|6MfG|Tev-|Wxck0w8_-7l%au1y6G/s9^s7l(');
define( 'SECURE_AUTH_KEY',      '2CVIOp&Zp<_ ^j83~ew2@tiwu<Efv(v>U&@n0g-x|ktxzka->{`y%ziCH)QpazBc(');
define( 'LOGGED_IN_KEY',        ')+0,fi-z8-k@%eYIAUZF%)HlUbfX|85-5hR,p0ue57C+GXI*8y`Hckhx0Pktbb(');
define( 'NONCE_KEY',            'f-VDBuA9a3jC+6)97^U<2|f~g|ax[ `^J@-na]hum{TF-p|sh~l#;* ,R8-058^CR(');
define( 'AUTH_SALT',            'Za`KMy`JWj>_{|Zl)EZ|L,QCR5B<n$7qp?qi v%0|re|E^%(<aI_8)eJ^A^%?L4i@#(');
define( 'SECURE_AUTH_SALT',     'Ly2vYlc|Hnqaul0Pfe|+-A#|VyQwE*fqwVU7c|6s|P5|v|e+|I67v<n$8p^ (J-QZ(');
define( 'LOGGED_IN_SALT',       '1T&I9Q|^ve~Yey~qkfGe;-)K2)|3V#fkef@blTlOm/$VK9c*ikM?;-}Fonqz|<(');
define( 'NONCE_SALT',           'Qb)l|US+AkxxP8jc)Ld~lE|O=sk:~xmV+>+Vmf|VdQq8P|]Q+@ (j) 1K|V-5|=V(');

define( 'FS_METHOD', 'direct' );

^M
/***#@-*/^M
^M
/***^M
* WordPress database table prefix.^M

1Help 2Save 3Mark 4Replac 5Copy 6Move 7Search 8Delete 9PullDn 10Quit
```

## Wykonujemy `systemctl restart apache2` i logujemy się do wordpress'a

WordPress - Instalacja

Niebezpieczona | 164.90.164.135/wordpress/wp-admin...

### Witaj

Witaj w słynnym pięciominutowym procesie instalacji WordPressa! Po prostu wypełnij poniższy formularz, a znajdziesz się na drodze do korzystania z najbardziej rozszerzalnej i najpotężniejszej osobistej platformy publikacyjnej na świecie.

### Wymagane informacje

Proszę wprowadzić poniższe informacje. Bez obaw, w razie czego zawsze można zmienić je później.

Nazwa witryny

Nazwa użytkownika

Nazwy użytkowników mogą składać się tylko ze znaków alfanumerycznych, spacji, podkreślników, minusów, kropek i znaku @.

Hasło

Very weak

**Ważne:** Hasło będzie potrzebne do zalogowania się. Proszę przechowywać je w bezpiecznym miejscu.

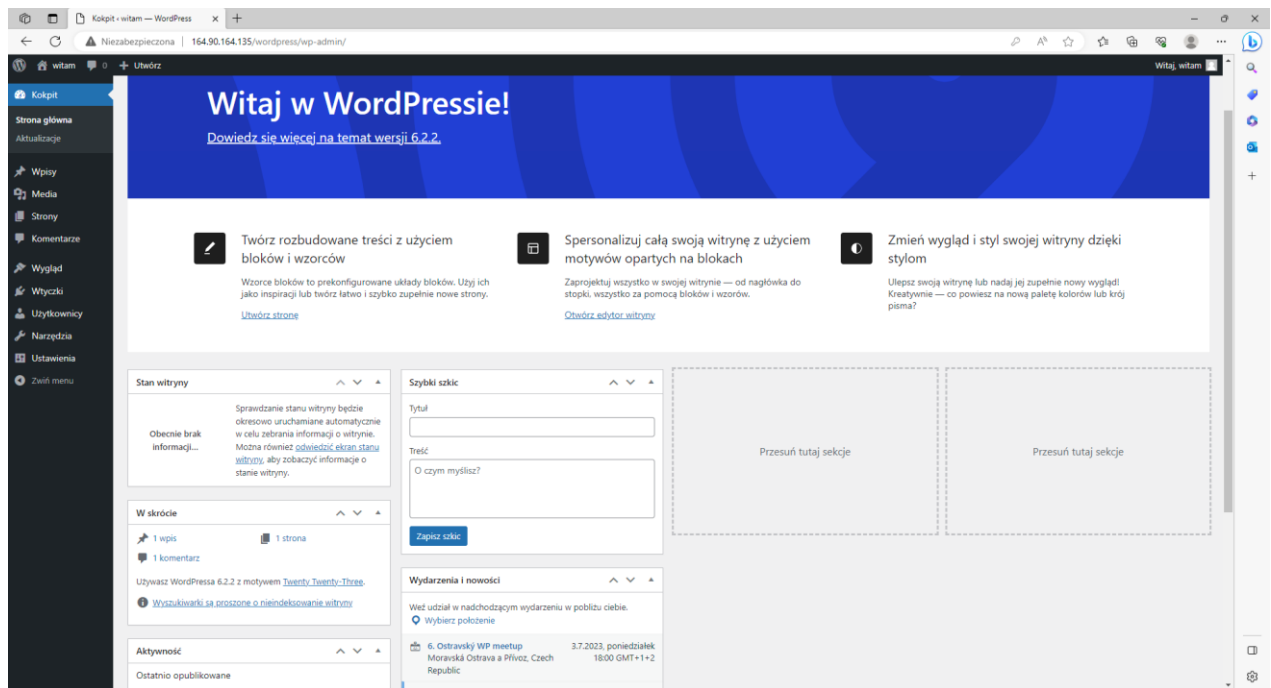
Potwierdź hasło ☒ Potwierdź użycie słabego hasła

Twój adres e-mail

Sprawdź wprowadzony adres e-mail dwukrotnie przed przejściem dalej.

Widoczność w wyszukiwarkach ☒ Proś wyszukiwarki o nieindeksowanie tej witryny

Akceptowanie tego ustawienia leży w gestii wyszukiwarki.



## Ogarnianie certyfikatu z Let's Encrypt

```
mc [root@debian-vps-01]:/etc/apache2/sites-available
Preparing to unpack .../squashfs-tools_1%3a4.4-2+deb11u2_amd64.deb ...
Unpacking squashfs-tools (1:4.4-2+deb11u2) ...
Selecting previously unselected package snapd.
Preparing to unpack .../snapd_2.49-1+deb11u2_amd64.deb ...
Unpacking snapd (2.49-1+deb11u2) ...
Setting up liblz2-2:amd64 (2.10-2) ...
Setting up squashfs-tools (1:4.4-2+deb11u2) ...
Setting up snapd (2.49-1+deb11u2) ...
Created symlink /etc/systemd/system/multi-user.target.wants/snapd.recovery-chooser-trigger.service → /lib/systemd/system/snapd.recovery-chooser-trigger.service.
Created symlink /etc/systemd/system/multi-user.target.wants/snapd.seeded.service → /lib/systemd/system/snapd.seeded.service.
Created symlink /etc/systemd/system/cloud-final.service.wants/snapd.seeded.service → /lib/systemd/system/snapd.seeded.service.
Created symlink /etc/systemd/system/multi-user.target.wants/snapd.service → /lib/systemd/system/snapd.service.
Created symlink /etc/systemd/system/sockets.target.wants/snapd.socket → /lib/systemd/system/snapd.socket.
Processing triggers for man-db (2.9.4-2) ...
Processing triggers for dbus (1.12.24-0+deb11u1) ...
Processing triggers for mailcap (3.69) ...
Processing triggers for libc-bin (2.31-13+deb11u6) ...
root@debian-vps-01:/etc/apache2/sites-available# snap install core
2023-06-15T17:31:04Z INFO Waiting for automatic snapd restart...
Warning: /snap/bin was not found in your $PATH. If you've not restarted your session since you
installed snapd, try doing that. Please see https://forum.snapcraft.io/t/9469 for more
details.

core 16-2.58.3 from Canonical installed
root@debian-vps-01:/etc/apache2/sites-available# snap refresh core
snap "core" has no updates available
root@debian-vps-01:/etc/apache2/sites-available#
```

```

mc [root@debian-vps-01]:/etc/apache2/sites-available
Setting up snapd (2.49-1+deb11u2) ...
Created symlink /etc/systemd/system/multi-user.target.wants/snapd.recovery-chooser-trigger.service → /lib/systemd/system/snapd.recovery-chooser-trigger.service.
Created symlink /etc/systemd/system/multi-user.target.wants/snapd.seeded.service → /lib/systemd/system/snapd.seeded.service.
Created symlink /etc/systemd/system/cloud-final.service.wants/snapd.seeded.service → /lib/systemd/system/snapd.seeded.service.
Created symlink /etc/systemd/system/multi-user.target.wants/snapd.service → /lib/systemd/system/snapd.service.
Created symlink /etc/systemd/system/sockets.target.wants/snapd.socket → /lib/systemd/system/snapd.socket.
Processing triggers for man-db (2.9.4-2) ...
Processing triggers for dbus (1.12.24-0+deb11u1) ...
Processing triggers for mailcap (3.69) ...
Processing triggers for libc-bin (2.31-13+deb11u6) ...
root@debian-vps-01:/etc/apache2/sites-available# snap install core
2023-06-15T17:31:04Z INFO Waiting for automatic snapd restart...
Warning: /snap/bin was not found in your $PATH. If you've not restarted your session since you
         installed snapd, try doing that. Please see https://forum.snapcraft.io/t/9469 for more
         details.

core 16-2.58.3 from Canonical✓ installed
root@debian-vps-01:/etc/apache2/sites-available# snap refresh core
snap "core" has no updates available
root@debian-vps-01:/etc/apache2/sites-available# snap install --classic certbot
Warning: /snap/bin was not found in your $PATH. If you've not restarted your session since you
         installed snapd, try doing that. Please see https://forum.snapcraft.io/t/9469 for more
         details.

certbot 2.6.0 from Certbot Project (certbot-eff✓) installed
root@debian-vps-01:/etc/apache2/sites-available# ln -s /snap/bin/certbot /usr/bin/certbot
root@debian-vps-01:/etc/apache2/sites-available#

```

```

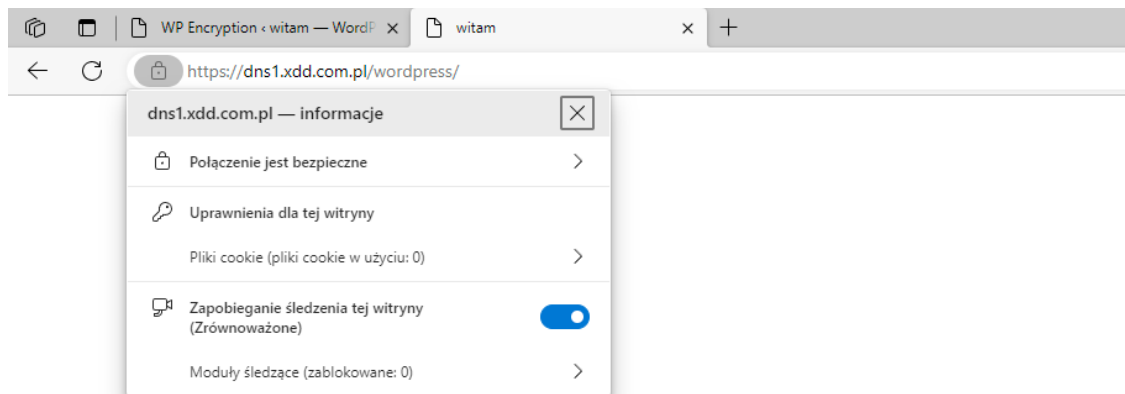
mc [root@debian-vps-01]:/etc/apache2/sites-available
root@debian-vps-01:/etc/apache2/sites-available# root@debian-vps-01:/etc/apache2/sites-available# certbot --apache -d xdd.com.pl
Saving debug log to /var/log/letsencrypt/letsencrypt.log
Requesting a certificate for dns1.xdd.com.pl and www.dns1.xdd.com.pl

Successfully received certificate.
Certificate is saved at: /etc/letsencrypt/live/dns1.xdd.com.pl/fullchain.pem
Key is saved at: /etc/letsencrypt/live/dns1.xdd.com.pl/privkey.pem
This certificate expires on 2023-09-13.
These files will be updated when the certificate renews.
Certbot has set up a scheduled task to automatically renew this certificate in the background.

Deploying certificate
Successfully deployed certificate for dns1.xdd.com.pl to /etc/apache2/sites-available/witam.xdd.com.pl-le-ssl.conf
Successfully deployed certificate for www.dns1.xdd.com.pl to /etc/apache2/sites-available/witam.xdd.com.pl-le-ssl.conf
Congratulations! You have successfully enabled HTTPS on https://dns1.xdd.com.pl and https://www.dns1.xdd.com.pl

-----
If you like Certbot, please consider supporting our work by:
 * Donating to ISRG / Let's Encrypt: https://letsencrypt.org/donate
 * Donating to EFF: https://eff.org/donate-le
-----
root@debian-vps-01:/etc/apache2/sites-available#

```



# Mindblown: a blog abo

## Witaj, świecie!

Witamy w WordPressie. To jest twój pierwszy wpis. Edytuj go lub usuń, a następnie zacznij pisać!

2023-06-15

Jak widać strona ma wprowadzony certyfikat SSL

Zostaje tylko weryfikacja pod kątem konfiguracji obsługi protokołu SSL/TLS z wykorzystaniem strony <https://www.ssllabs.com/ssltest/index.html>

