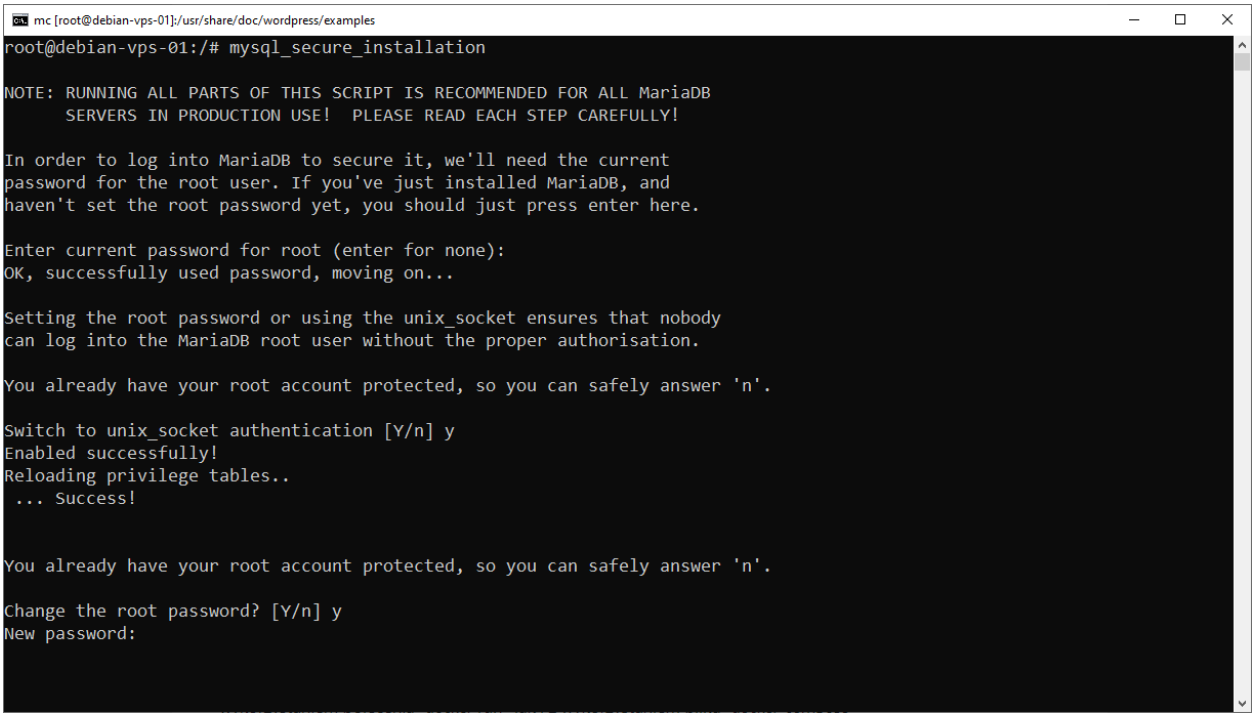
- Z wykorzystaniem serwera VPS (z publicznym adresem IPv4/IPv6) oraz skonfigurowanej domeny xdd.com.pl zarejestrowanej w publicznym systemie DNS, należy udostępnić witrynę internetową z wykorzystaniem aplikacji web'owej Wordpress w transmisji szyfrowanej (z wykorzystaniem darmowego certyfikatu SSL z 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)

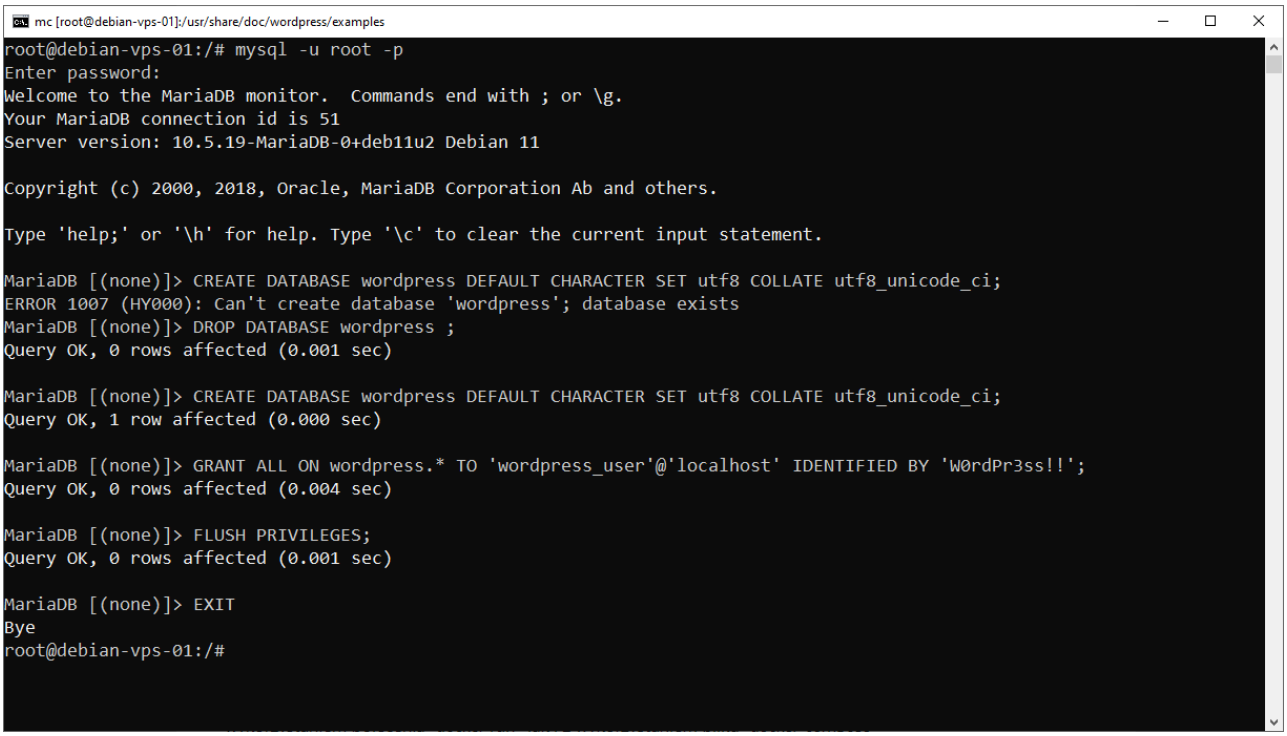
Na początku trzeba zainstalować poniższe pakiety oraz skonfigurować bazę mysql:

apt install apache2 mariadb-server mariadb-client curl

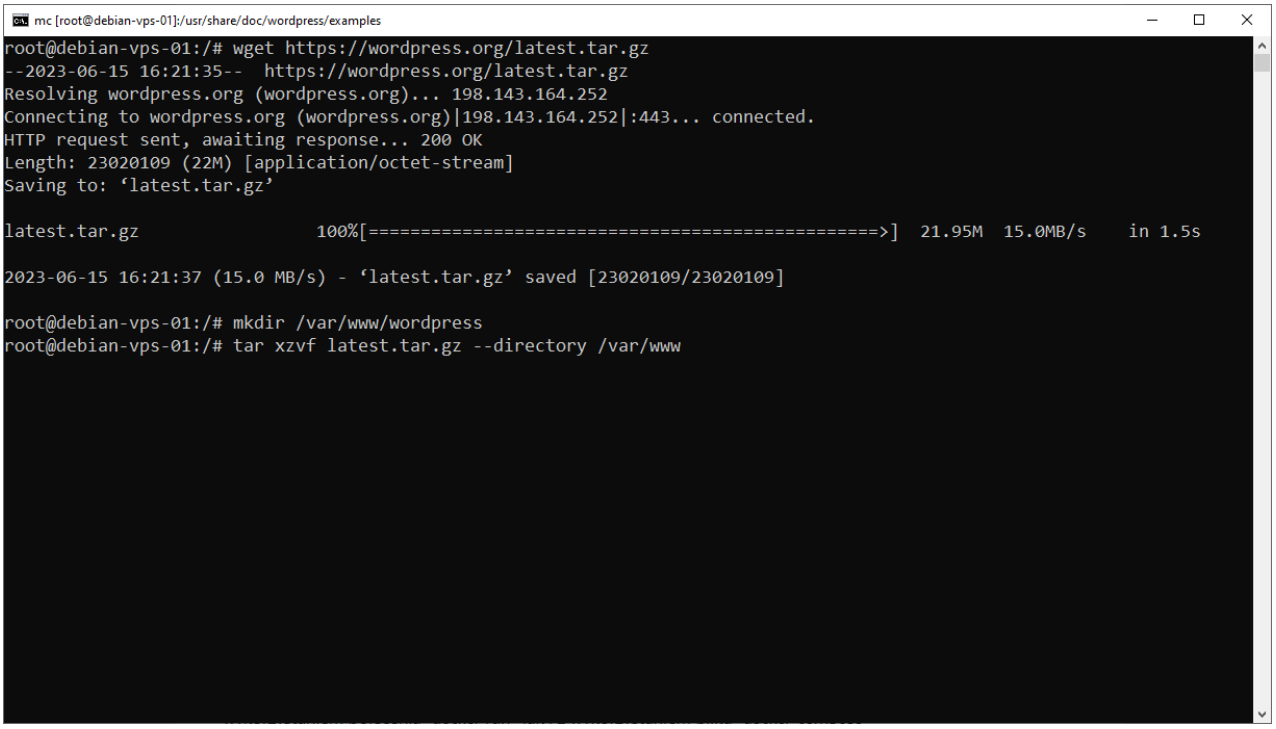
apt install php php-mysql php-curl php-gd php-mbstring php-xml php-xmlrpc php-soap php-intl php-zip

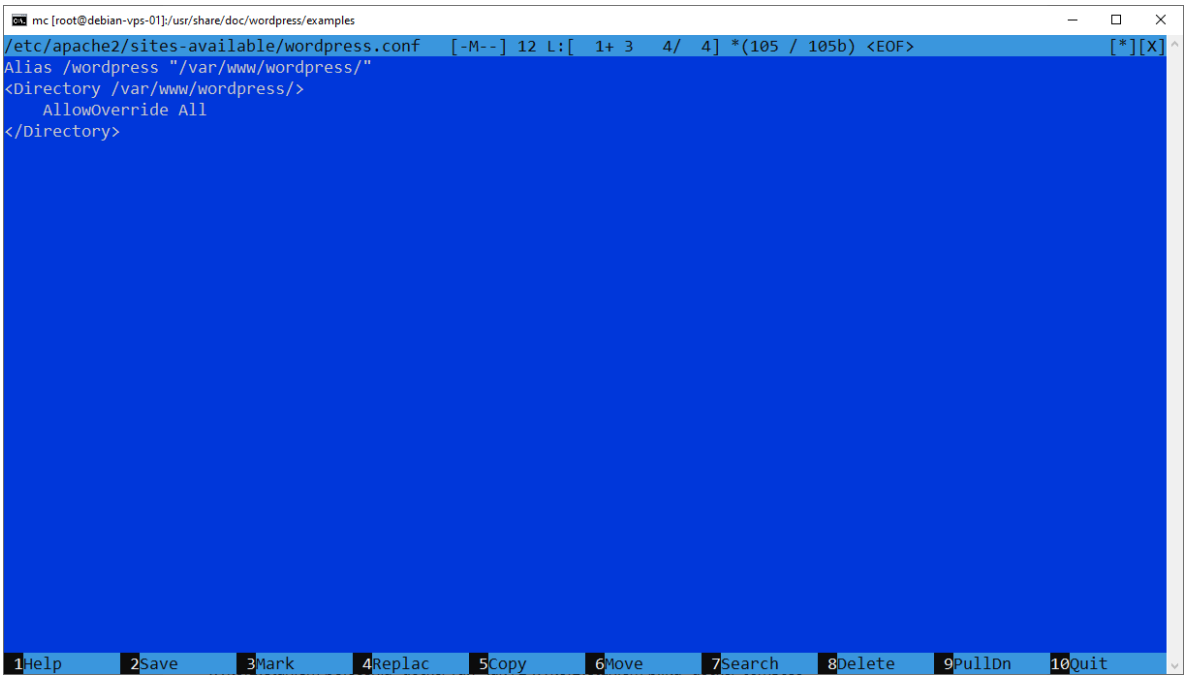


Konfiguracja bazy:



Pobieranie wordpressa:





Poniżej po kolei:

-włączanie witryny Wordpress i wymaganych modułów PHP

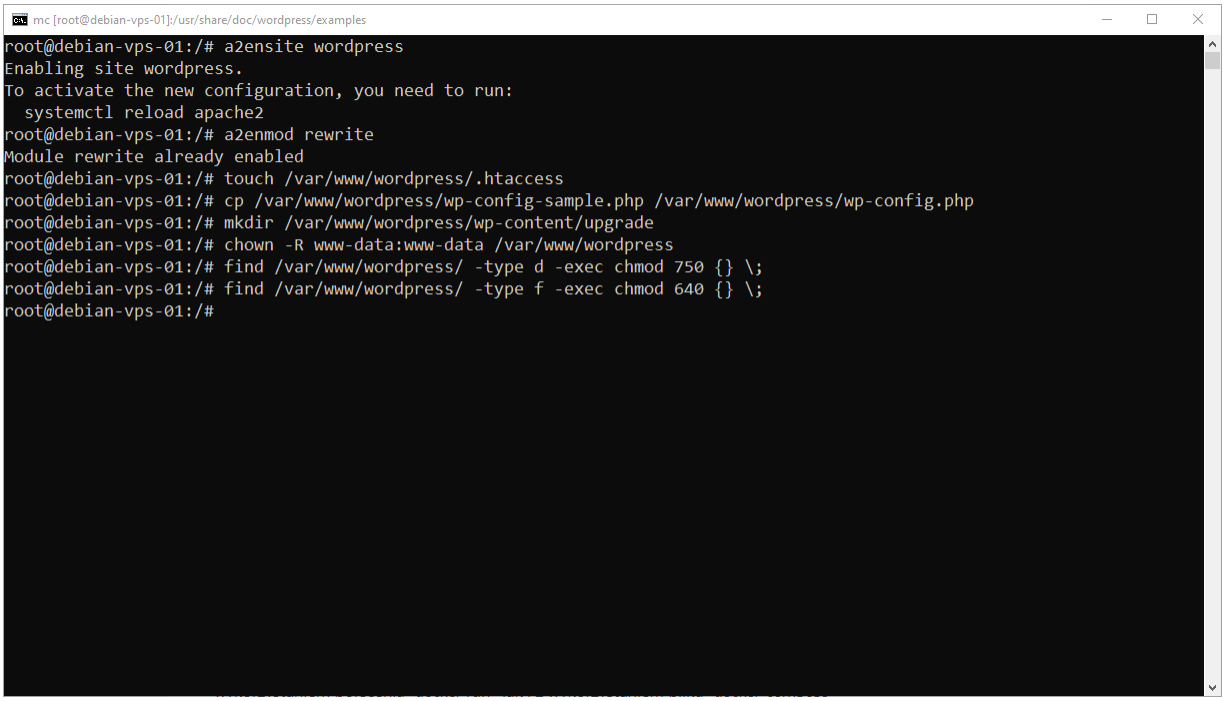
-utwórzenie pliku ***.htaccess***

-skopiowanie przykładowej konfiguracji wordpress

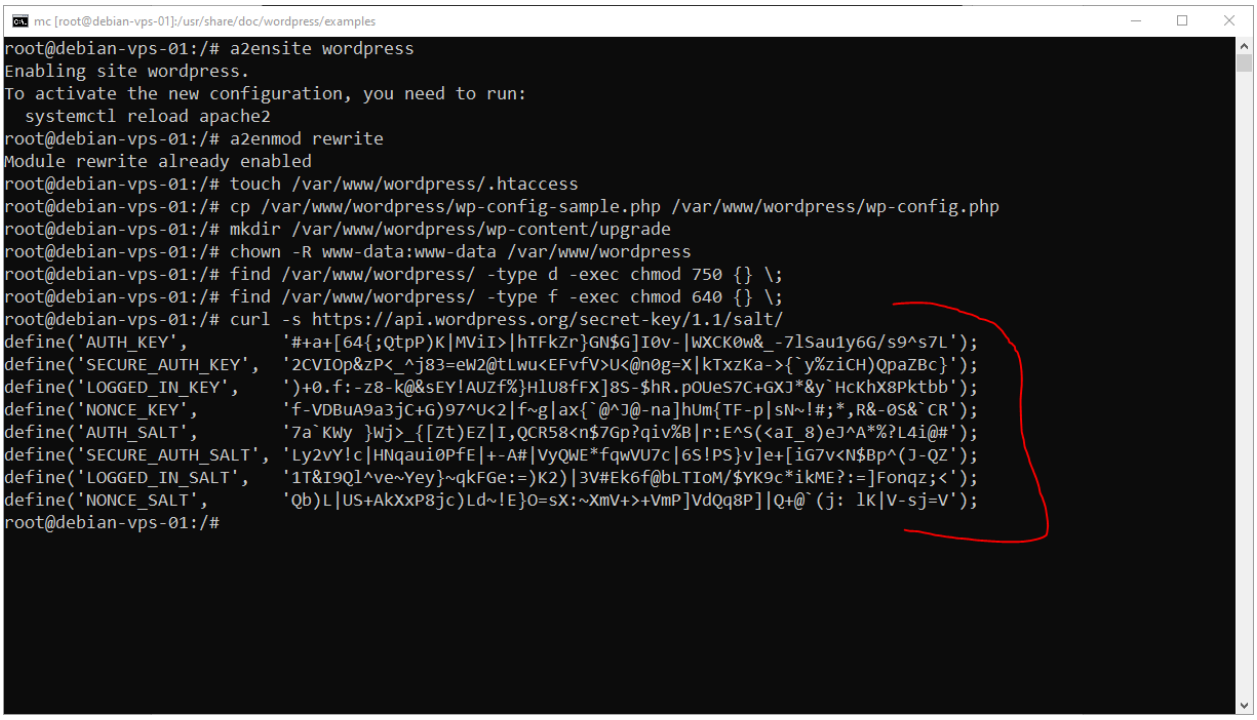
-utwórzenie katalogu aktualizacji

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

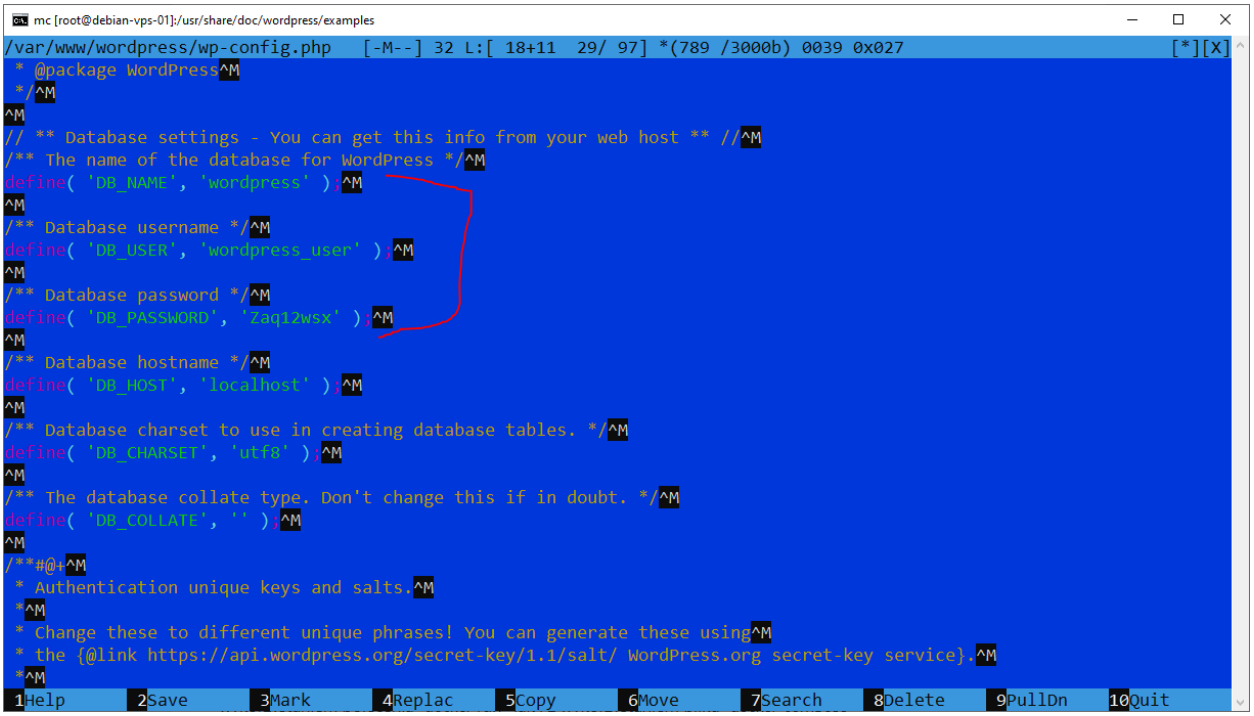
-zmienienie dodatkowych uprawnienień



Wygenerowanie bezpiecznych tajnych kluczy

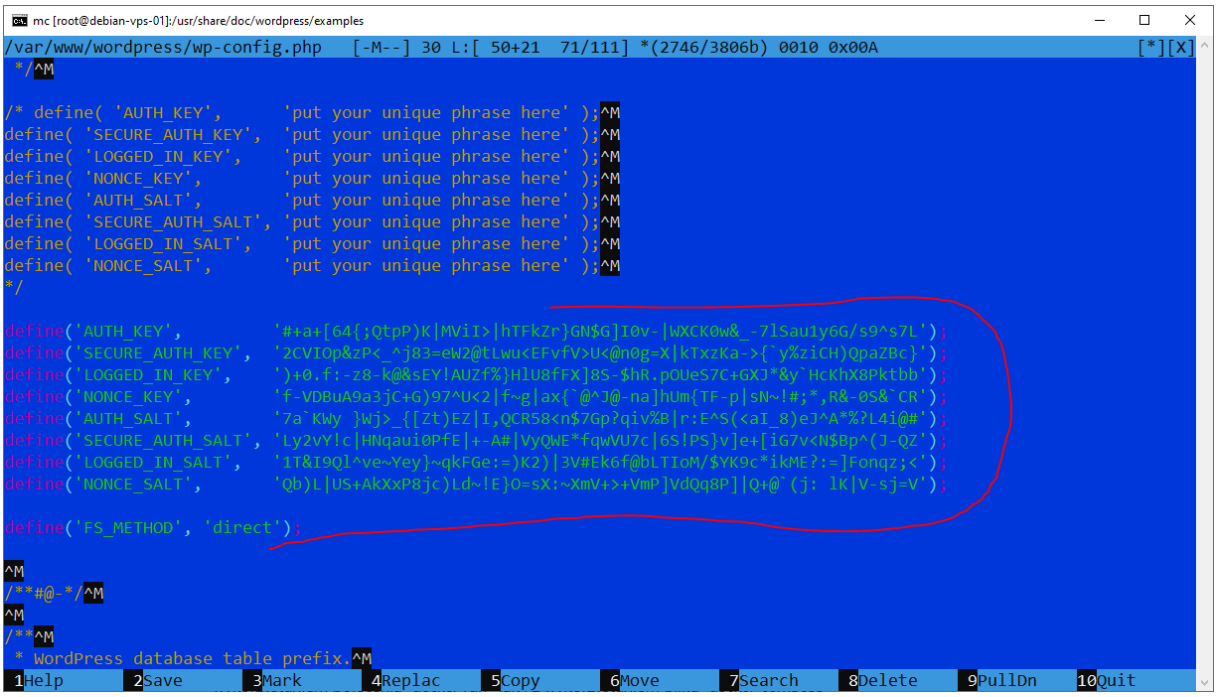


Potrzebne rzeczy do zalogowania się do wordpress’a

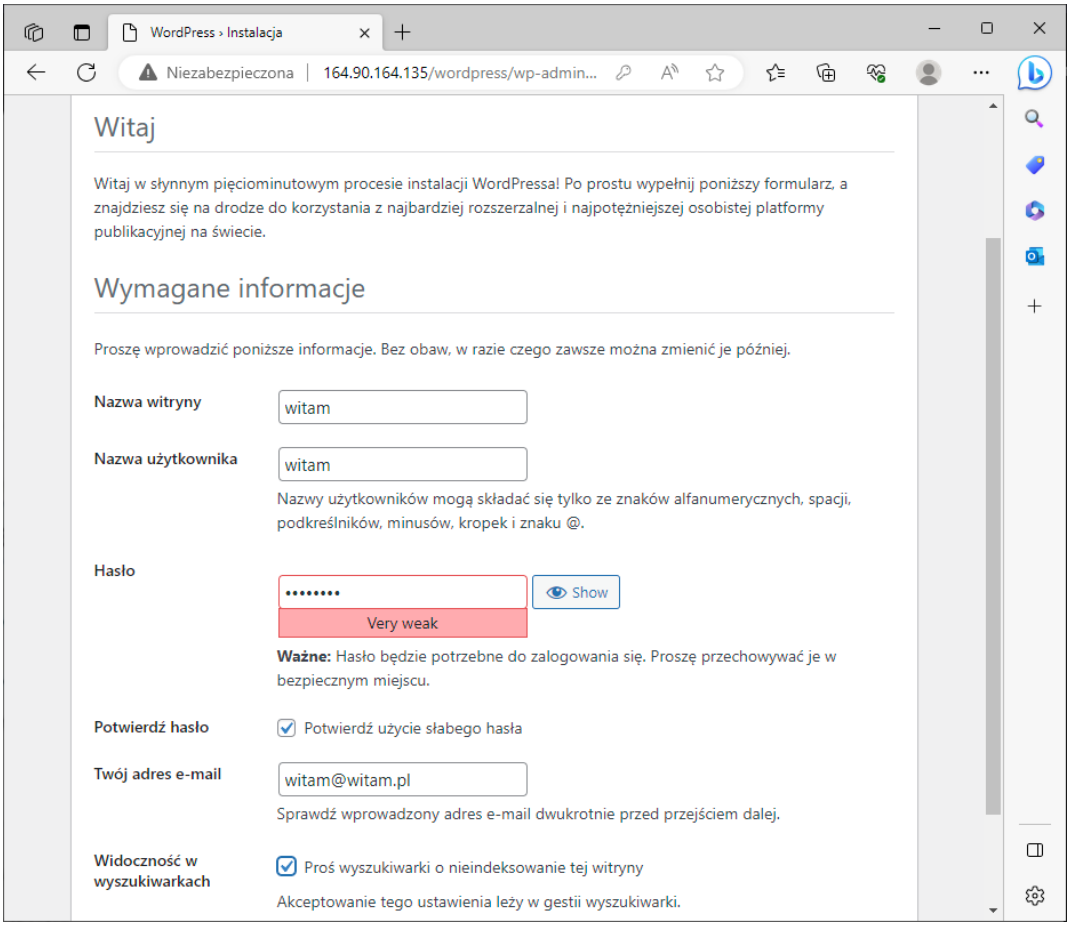


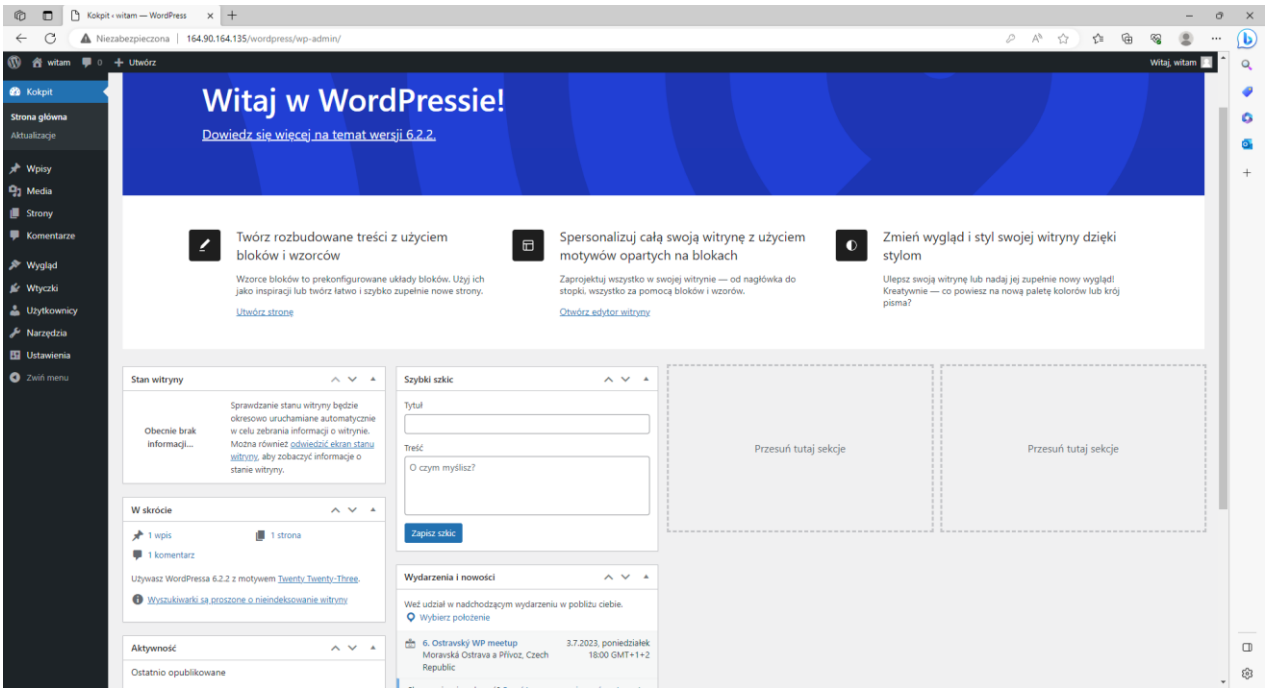
Tutaj gdzie jest **DB_USER** ma być samo ‘**wordpress**’ zamiast ‘**wordpress_user**’ bo nie wpuści nas do bazy danych

Skopiowanie wygenerowanych tajnych kluczy plus dodanie dodatkowej linii



Wykonujemy *systemctl restart apache2* i logujemy się do wordpress'a

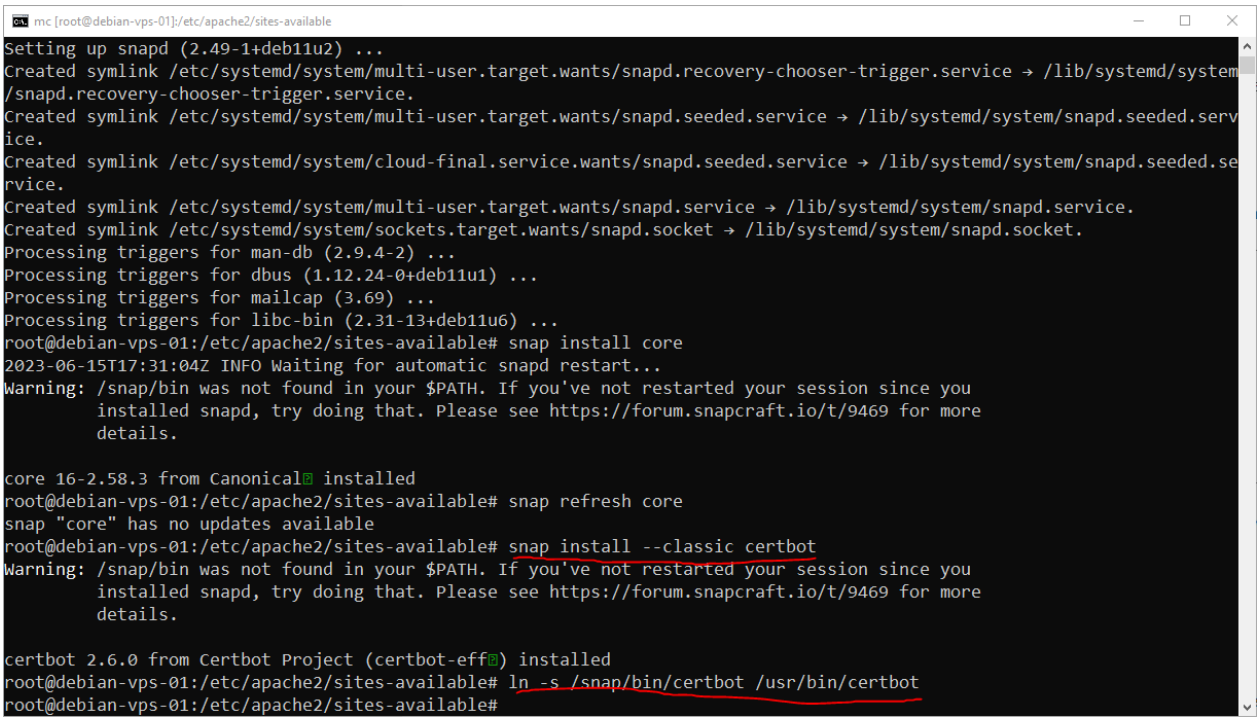


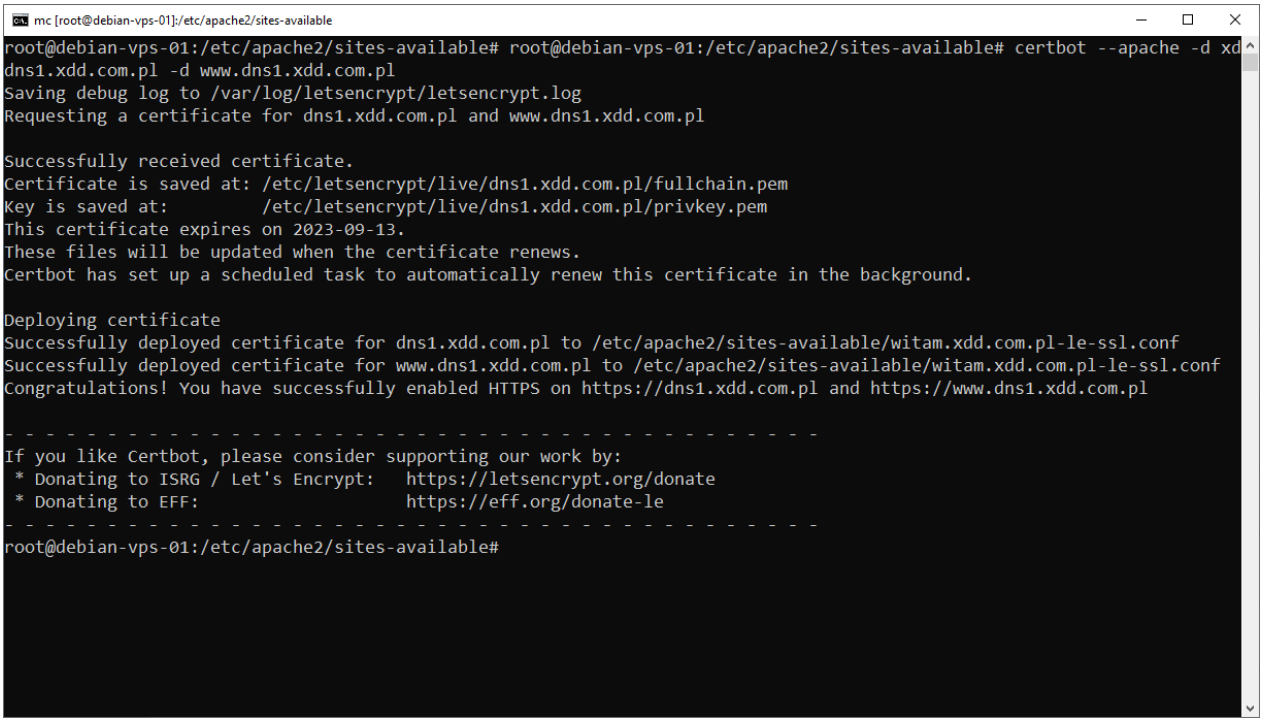


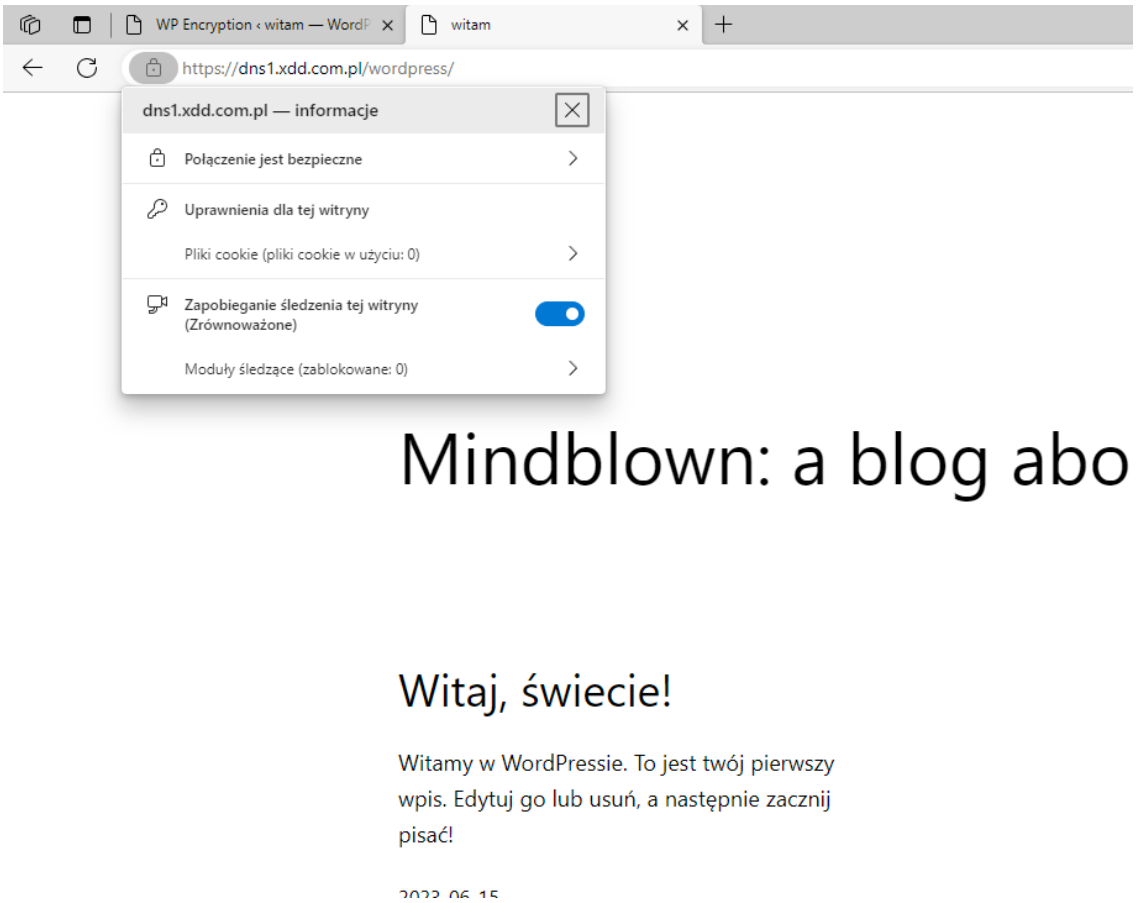
Ogarnianięcie certyfikatu z Let’s Encrypt

```
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 liblzo2-2: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.serv
ice.
Created symlink /etc/systemd/system/cloud-final.service.wants/snapd.seeded.service → /lib/systemd/system/snapd.seeded.se
rvice.
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
dns1.xdd.com.pl -d www.dns1.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#



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