

# OpenVPN

## Wstęp

Poradnik jak skonfigurować OpenVPN'a, aby móc się logować za pomocą nazwy użytkownika i hasła oraz zarządzać nim z poziomu prostego panelu dostępnego po http. Panel jest napisany w PHPie i bazuje na bazie danych MySQL.

## Instalacja

Instalujemy OpenVPN, Nginx + PHP:

```
aptitude install openvpn nginx php-auth php-auth-http php-auth-sasl php-db  
php-doc php-file php-fpdf php-gettext php-html-template-it php-http php-  
http-request php-http-upload php-image-text php-log php-mail php-mail-mime  
php-mail-mimedecode php-mime-type php-net-checkip php-net-ftp php-net-imap  
php-net-ipv4 php-net-ipv6 php-net-smtp php-net-socket php-net-url php-net-  
url2 php-pear php-soap php-timer php-xml-parser php5 php5-cgi php5-cli php5-  
curl php5-fpm php5-gd php5-geoip php5-gmp php5-imagick php5-imap php5-intl  
php5-mcrypt php5-mysql php5-rrd php5-sasl php5-xcache php5-xsl mysql-server  
mysql-client
```

Tworzymy katalog i kopiujemy do niego zawartość archiwum panelu:

```
mkdir -p /usr/share/nginx/o/  
cd /usr/share/nginx/o/  
wget http://kamil.orchia.pl/tmp/simple_openvpn_panel.7z  
7z x simple_openvpn_panel.7z  
chmod +x ./scripts/*  
chmod -R o-rwx /usr/share/nginx/o  
chown -R www-data:www-data /usr/share/nginx/o  
rm simple_openvpn_panel.7z
```

## Konfiguracja

OpenVPN:

```
cd /usr/share/doc/openvpn/examples/easy-rsa/2.0  
source ./vars  
./clean-all  
./build-ca  
./build-key-server server  
./build-dh  
mkdir /etc/openvpn/server  
cp ./keys/{ca.crt,dh1024.pem,server.crt,server.key} /etc/openvpn/server/
```

Przykładowy plik /etc/openvpn/server/server.ovpn:

```
local 1.2.2.33
port 12345
proto tcp
dev tap
ca /etc/openvpn/server/ca.crt
cert /etc/openvpn/server/server.crt
key /etc/openvpn/server/server.key
dh /etc/openvpn/server/dh1024.pem
server 1.2.3.0 255.255.255.0
ifconfig-pool-persist /etc/openvpn/server/ipp.txt
push "route 10.20.0.0 255.255.255.0"
client-to-client
keepalive 10 120
persist-key
persist-tun
status /usr/share/nginx/o/openvpn-status.log
log /etc/openvpn/server/openvpn.log
verb 3
auth SHA1
cipher AES-128-CBC
tls-cipher DHE-RSA-AES128-SHA
client-cert-not-required
username-as-common-name
client-connect /usr/share/nginx/o/scripts/client_connect.sh
client-disconnect /usr/share/nginx/o/scripts/client_disconnect.sh
script-security 2
auth-user-pass-verify /usr/share/nginx/o/scripts/checkpass.sh via-file
up chmod o+r /usr/share/nginx/o/openvpn-status.log
```

Przykładowy plik /etc/openvpn/server/openvpn.sh:

```
#!/bin/bash

pidfile="/etc/openvpn/server/pid"

pid=""

if [ -f $pidfile ];
then
    pid=`cat $pidfile`
fi

start()
{
    if [ "$pid" != "" ];
    then
        if [ "`ps aux | grep $pid | grep -v grep | wc -l`" == "1" ];
```

```
        then
            echo "OpenVPN is already started!"
        else
            openvpn --cd /etc/openvpn/server/ --config
server.ovpn --daemon --writepid $pidfile
        fi
    else
        openvpn --cd /etc/openvpn/server/ --config server.ovpn --
daemon --writepid $pidfile
    fi
}

stop()
{
    if [ "$pid" != "" ];
    then
        if [ "`ps aux | grep $pid | grep -v grep | wc -l`" == "1" ];
        then
            kill $pid
            echo "" > $pidfile
        fi
    fi
}

restart()
{
    stop
    sleep 5
    start
}

case "$1" in
    'start')
        echo -ne "Starting OpenVPN... "
        start
        echo "OK"
        ;;
    'restart')
        echo -ne "Restarting OpenVPN... "
        stop
        sleep 5
        start
        echo "OK"
        ;;
    'stop')
        echo -ne "Stopping OpenVPN... "
        stop
        echo "OK"
        ;;
    *)
        echo -e "\n Usage: openvpn.sh { start | stop | restart }"
```

```
;;  
esac
```

Plik /etc/openvpn/server/up.sh:

```
#!/bin/sh  
  
chmod o+r /usr/share/nginx/o/openvpn-status.log
```

Nadajemy uprawnienia:

```
chmod 700 /etc/openvpn/server/*.sh  
/etc/openvpn/server/openvpn.sh start
```

Przykładowy plik client.ovpn, który dołączamy z plikiem ca.crt:

```
client  
dev tap  
proto tcp  
remote 1.2.2.33 12345  
resolv-retry infinite  
nobind  
persist-key  
persist-tun  
ca ca.crt  
ns-cert-type server  
verb 3  
auth-user-pass  
auth SHA1  
cipher AES-128-CBC  
tls-cipher DHE-RSA-AES128-SHA
```

MySQL:

```
cd /usr/share/nginx/o/  
mysql -p  
Enter password:  
Welcome to the MySQL monitor.  Commands end with ; or \g.  
Your MySQL connection id is 43  
Server version: 5.5.44-0+deb7u1 (Debian)  
  
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affiliates. Other names may be trademarks of their respective  
owners.  
  
Type 'help;' or '\h' for help. Type '\c' to clear the current input  
statement.
```

```
mysql> CREATE USER 'openvpn'@'localhost' IDENTIFIED BY 'tajnepass';
Query OK, 0 rows affected (0.00 sec)

mysql> CREATE DATABASE openvpn;
Query OK, 1 row affected (0.00 sec)

mysql> GRANT ALL PRIVILEGES ON openvpn.* TO openvpn@'localhost';
Query OK, 0 rows affected (0.00 sec)

mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.00 sec)

mysql> use openvpn;
Database changed
mysql> source ./initdb.sql;
Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected (0.11 sec)

Query OK, 0 rows affected (0.08 sec)

Query OK, 0 rows affected (0.07 sec)

Query OK, 0 rows affected (0.08 sec)

Query OK, 0 rows affected (0.32 sec)
Records: 0 Duplicates: 0 Warnings: 0

Query OK, 0 rows affected (0.22 sec)
Records: 0 Duplicates: 0 Warnings: 0

Query OK, 0 rows affected, 1 warning (0.09 sec)

mysql> \q
Bye
```

Nginx:

```
location /o/ {
    alias /usr/share/nginx/o/public/;
    allow 1.2.3.0/24;
    deny all;
    auth_basic "Restricted!";
    auth_basic_user_file /etc/nginx/htpasswd;
    index index.php;
    #try_files $uri /o/index.php;
    location ~ /\.php$ {
        fastcgi_split_path_info ^(.+\.(php))(/.+)$;
        fastcgi_pass unix:/var/run/php5-fpm.sock;
```

```
        fastcgi_index index.php;  
        include fastcgi_params;  
    }  
}
```

Przy generowaniu htpasswd pomoże nam link: <http://kamil.orchia.pl/php/nginx.php>

Sekcję allow i deny ustawiamy dopiero po dodaniu pierwszego użytkownika.

Kopiujemy plik /usr/share/nginx/o/config/config.ini.example:

```
cp /usr/share/nginx/o/config/config.ini.example  
/usr/share/nginx/o/config/config.ini
```

Konfiguracja panelu jest odczytywana z pliku: /usr/share/nginx/o/config/config.ini

Uwaga! Pliki /usr/share/nginx/o/scripts/genfw.php oraz /usr/share/nginx/o/scripts/reload.php należy dostosować pod swoją konfigurację.

Crontab:

```
*/5 * * * * root cd /usr/share/nginx/o/scripts && ./reload.php
```

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