

# Openvpn

## Certification Authority

Create certificate folder

```
apt-get install easy-rsa
make-cadir /etc/easy-rsa-legnago
cd /etc/easy-rsa-legnago
```

Edit vars and

```
source vars
./clean-all
./build-dh
./pkitool --initca
```

### server certificate

```
NAME=legnago-gw
./pkitool --pass --server $NAME # create passphrase here
openssl rsa -in keys/$NAME.key -out keys/$NAME.pem # give passphrase here
```

### client certificate

```
NAME=nms
./pkitool --pass $NAME
openssl rsa -in keys/$NAME.key -out keys/$NAME.pem
```

## Mikrotik server

Upload and import certificates

```
/certificate
import file=server.crt
import file=server.pem
import file=ca.crt
```

ip pool

```
/ip pool add name=ovpn-pool ranges=10.15.32.34-10.15.32.38
```

profile and vpn user

```
/ppp profile
add change-tcp-mss=default comment="" local-address=10.15.32.33 \
name="your_profile" only-one=default remote-address=ovpn-pool \
use-compression=default use-encryption=required use-vj-compression=default
```

define vpn user

```
/ppp secret
add caller-id="" comment="" disabled=no limit-bytes-in=0 \
limit-bytes-out=0 name="username" password="password" \
routes="" service=any
```

openvpn instance

```
/interface ovpn-server server
set auth=sha1,md5 certificate=router_cert \
cipher=blowfish128,aes128,aes192,aes256 default-profile=your_profile \
enabled=yes keepalive-timeout=disabled max-mtu=1500 mode=ip netmask=29 \
port=1194 require-client-certificate=no
```

## Linux client

```
apt-get install openvpn
```

/etc/openvpn/client1.conf

```
dev tun
proto tcp-client

remote legnago.csgalileo.org 1194

ca /etc/easy-rsa-legnago/keys/ca.crt
cert /etc/easy-rsa-legnago/keys/nms.crt
key /etc/easy-rsa-legnago/keys/nms.pem

tls-client
port 1194

user nobody
group nogroup

#comp-lzo # Do not use compression. It doesn't work with RouterOS (at least
up to RouterOS 3.0rc9)

# More reliable detection when a system loses its connection.
ping 15
ping-restart 45
ping-timer-rem
```

```
persist-tun
persist-key

# Silence the output of replay warnings, which are a common false
# alarm on WiFi networks. This option preserves the security of
# the replay protection code without the verbosity associated with
# warnings about duplicate packets.
mute-replay-warnings

# Verbosity level.
# 0 = quiet, 1 = mostly quiet, 3 = medium output, 9 = verbose
verb 3

cipher AES-256-CBC
auth SHA1
pull

auth-user-pass auth.cfg
script-security 2
up /etc/openvpn/up.sh
```

/etc/openvpn/up.sh (chmod +x)

```
#!/bin/sh

ip route add 10.90.0.0/16 via 10.15.32.33
```

/etc/openvpn/auth.cfg

```
username
password
```

Start service with systemd

```
systemctl start openvpn@client1
```

## Linux server

[/etc/openvpn/server.conf](#)

## LXD

To enable tun inside container

```
lxc config device add <NAME> tun unix-char path=/dev/net/tun
```

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