

Mikrotik IKEv2 client configuration

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Configuring Mikrotik as an IKEv2 Client.

Make sure you have an up to date routerOS system.

Version must be at least: 6.49.7

```
[admin@VPN-CLIENT] > system package print
Flags: X - disabled
#  NAME                      VERSION
SCHEDULED
0  ntp                        6.49.7
1  ppp                        6.49.7
2  dhcp                       6.49.7
3  mpls                       6.49.7
4  security                   6.49.7
5  advanced-tools            6.49.7
6  system
```

```

6. 49. 7
7   openflow
6. 49. 7
8   multicast
6. 49. 7
9   routing
6. 49. 7

```

Open a one-time link to obtain authorization data and a root certificate.

Download the certificate and place it on the Mikrotik router using the Winbox program

Import the certificate into the system

Open a Terminal and enter the following commands

Name	Issuer	Common N...	Subject Alt...	Key Size	Days Valid	Trusted	SCE
dev.softkeel.com.crt_0	CN=PUQ VPN,O=PUQ sp. z o.o.,OU=PUQ VPN,L=Warszaw,C=PL	PUQ VPN		4096	3650	yes	

Replace the authorization data with the data that is in the one-time link

the example contains the following data. You need to replace them with your own.

Name	Issuer	Address	Username	Password	Certificate
dev.softkeel.com		address= dev.softkeel.com			
mikrotik		my-id=user-fqdn: mikrotik AND username= mikrotik			
NX9%B3&3YG		password= NX9%B3&3YG			
dev.softkeel.com.crt_0		certificate= dev.softkeel.com.crt_0			

Import dialog box:

Name:

File Name:

Buttons: Import, Cancel

It is a strong recommendation to use only the terminal command line in setup. We encountered cases when, during the configuration of Mikrotik through *winbox*, some parameters were not correctly entered into the configuration. Commands entered through the terminal are always correctly processed.

```

/ip ipsec settings
set accounting=no
/ip ipsec mode-config
add name=MY_VPN responder=no

```

```

/ip ipsec policy group
add name=MY_VPN

/ip ipsec profile
add dh-group=modp1024 enc-algorithm=aes-256 name=MY_VPN

/ip ipsec peer
add address=dev.softkeel.com exchange-mode=ike2 name=MY_VPN profile=MY_VPN

/ip ipsec proposal
add name=MY_VPN pfs-group=none

/ip ipsec policy
add dst-address=0.0.0.0/0 group=MY_VPN proposal=MY_VPN src-address=0.0.0.0/0 template=yes

/ip ipsec identity
add auth-method=eap \
eap-methods=eap-mschapv2 generate-policy=port-strict \
mode-config=MY_VPN \
peer=MY_VPN policy-template-group=MY_VPN \
certificate=dev.softkeel.com.crt_0 \
my-id=user-fqdn:mikrotik \
username=mikrotik \
password=NX9%B3&3YG

```

After the work done, you can see the connection status in the IPsec > IPsec configuration

You also need to configure the traffic routes you need at your discretion.

IPsec Remote Peer <77.87.125.200>

ID: dev.softkeel.com

Remote Port: 4500

Dynamic Address: 0.0.0.0

Side: initiator

Uptime: 00:01:07

Last Seen: 00:01:06

PH2 Total: 1

Tx/Rx Bytes: 67 / 99

Tx/Rx Packets: 1 / 1

State: established

Terminal <1>

```

# Dec 14 2022 09:51:00 by Ruslan
Updated 16 October 2023 02:04:15 by Yulia Noha

```

Address	Network	Interface
D 10.0.110.14/24	10.0.110.0	bridge1
D 192.168.129.2...	192.168.129.0	bridge1