Konfigurasi Open VPN Server Mikrotik Dengan Mikrotik

Tujuan : agar client terhubung secara lokal pada jaringan 192.168.80.0/24

1. Informasi Sistem

- Router: **MikroTik RouterOS**
- VPN Protocol: **OpenVPN**
- LAN Server: 192.168.80.0/24
- Gateway LAN: 192.168.80.1
- Subnet VPN: 10.10.10.0/24
- Port OVPN: 1194 (TCP)

2. Pembuatan Sertifikat di MikroTik

2.1 Buat CA (Certificate Authority)

Buka terminal mikrotik:

```
/certificate
add name=ca-template common-name=MyCA key-usage=key-cert-sign,crl-sign
sign ca-template name=MyCA
```

Cek status Pastikan CA statusnya: `trusted=yes`

```
/certificate print
```

Jika belum:

```
/certificate set MyCA trusted=yes
```

2.2 Buat Sertifikat Server

```
/certificate
add name=server-template common-name=ovpn-server
sign server-template ca=MyCA name=ovpn-server
```

```
/certificate set ovpn-server trusted=yes
```

2.3 Buat Sertifikat Client

```
/certificate
add name=client1-template common-name=client1
sign client1-template ca=MyCA name=client1
```

2.4 Export Sertifikat ke Client

```
/certificate export-certificate client1 export-passphrase=1234
/certificate export-certificate MyCA
```

File yang akan muncul di Files:

- client1.crt
- client1.key
- MyCA.crt

Download file tersebut ke PC client.

3. Konfigurasi OVPN Server

3.1 Buat IP Pool

```
/ip pool
add name=ovpn-pool ranges=10.10.10.10-10.10.10.50
```

3.2 Buat PPP Profile

```
/ppp profile
add name=ovpn-profile \
local-address=10.10.10.1 \
remote-address=ovpn-pool \
dns-server=8.8.8.8
```

3.3 Buat User VPN

```
/ppp secret
add name=user1 \
password=123456 \
service=ovpn \
profile=ovpn-profile
```

3.4 Aktifkan OVPN Server

```
/interface ovpn-server server
set enabled=yes \
port=1194 \
mode=ip \
netmask=24 \
authentication=sha1 \
cipher=aes256 \
certificate=ovpn-server \
require-client-certificate=yes
```

4. Firewall

4.1 Allow Port OVPN

```
/ip firewall filter
add chain=input protocol=tcp port=1194 action=accept comment="Allow OVPN"
```

4.2 NAT Internet

```
/ip firewall nat
add chain=srcnat out-interface=ether3-WAN action=masquerade
```

5. Konfigurasi Client Windows

5.1 Install OpenVPN Client

Download pada https://openvpn.net/community/ atau untuk mencari repository lama pada https://build.openvpn.net/downloads/releases/?C=M&O=D

lalu Install OpenVPN GUI.

5.2 Copy File Sertifikat

File:

- **MyCA.crt**
- **client1.crt**
- **client1.key**

untuk dibuat **client1.ovpn** :

```
client
dev tun
proto tcp-client
remote 36.67.22.18 1194
route 192.168.80.0 255.255.255.0
resolv-retry infinite
nobind
persist-key
persist-tun

auth SHA1
cipher AES-256-CBC
data-ciphers AES-256-GCM:AES-128-GCM:AES-256-CBC
data-ciphers-fallback AES-256-CBC

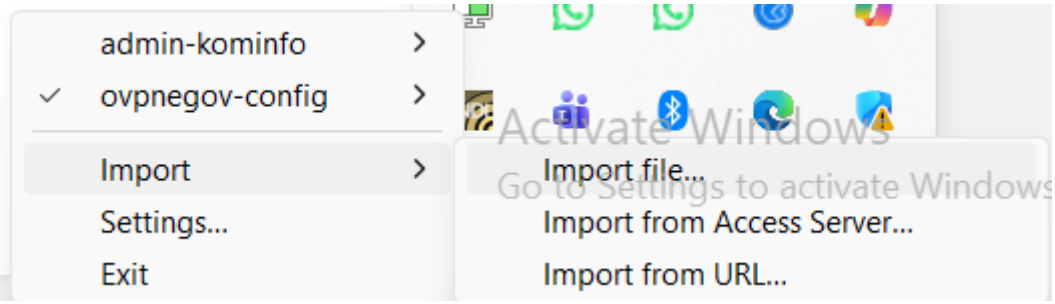
remote-cert-tls server
auth-user-pass
auth-nocache

<ca>
sertifikat dalam MyCA.crt
</ca>
```

```
<cert>
sertifikat dalam client1.crt
</cert>
```

```
<key>
sertifikat dalam client1.key
</key>
```

5.3 Import File Sertifikat client1.ovpn pada OpenVPN GUI

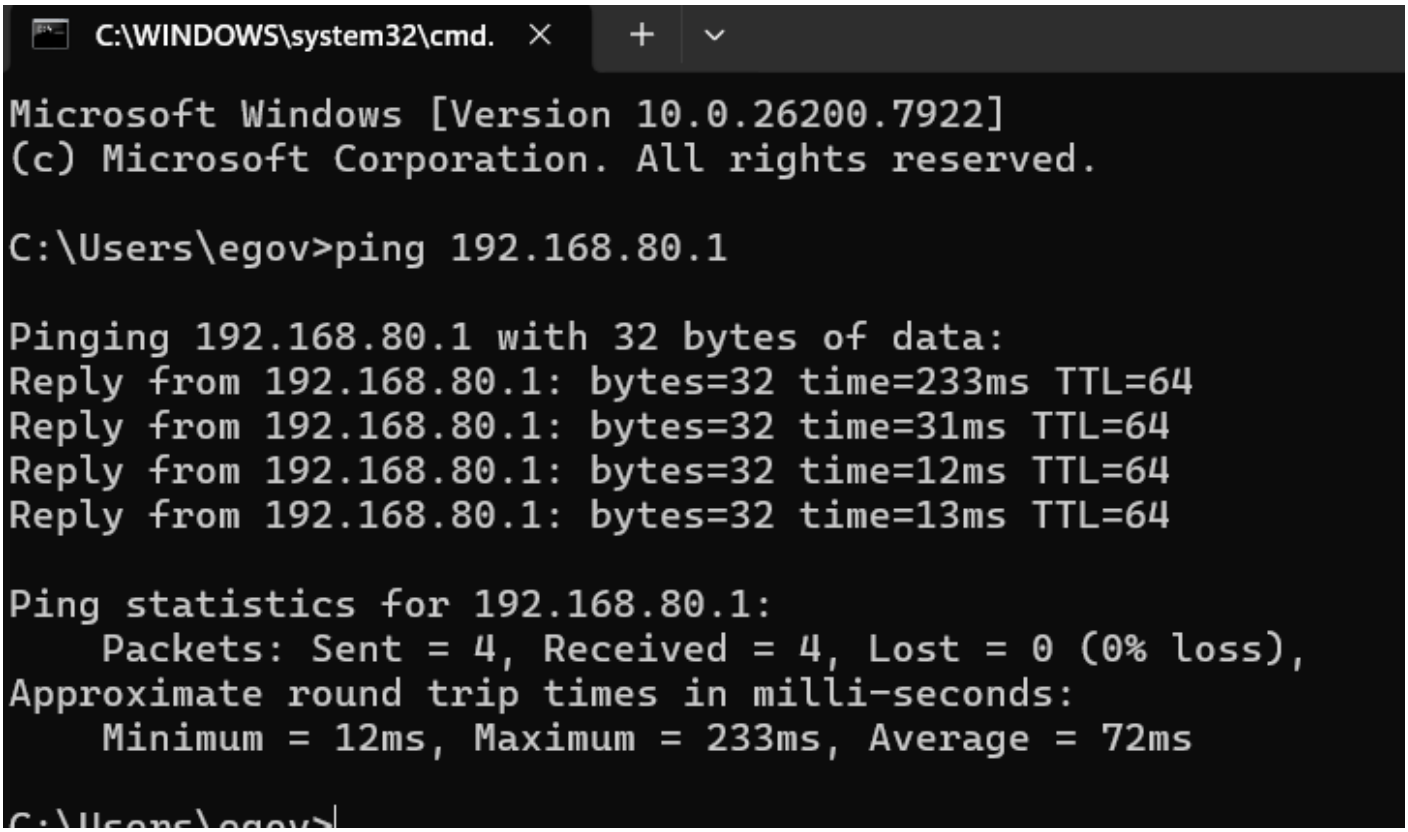


6. Connect VPN

- Jalankan OpenVPN GUI
- Klik kanan → Connect
- Masukkan username & password secret PPP

7. Verifikasi

Uji koneksi ke 192.168.80.1



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