

# IKEv2 clients configuring

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# IKEv2 Official clients

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Our solution works great with official client programs. We strongly invite you to use them.

You can download from the <https://www.strongswan.org/download.html>

Please always download latest versions. The following list is intended as a general direction only.

## strongSwan Downloads

### NetworkManager Plugin

strongSwan's NetworkManager plugin is available as **binary package** for several distributions (e.g. `network-manager-strongswan` on Debian/Ubuntu).

#### Current Release

Version: **1.6.0**

[NetworkManager-strongswan-1.6.0.tar.bz2](#)

This version supports GTK 4 (in addition to GTK 3), but doesn't support compiling against libnm-glib anymore.

### Android App

The strongSwan Android app can be installed from App stores, or manually by downloading the APK from our download server.

#### Current Release

Version: **2.3.3**

<https://play.google.com/store/apps/details?id=org.strongswan.android>

<https://f-droid.org/en/packages/org.strongswan.android/>

# Android IKEv2 client configuration

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In order to connect to a VPN, follow these steps:

1. Open the link you received in a browser to get instructions and configuration for your new VPN connection. And you will see the following page in the browser window

2. To continue, you need to install a connection client for your Android device. To download and install your IKEv2 connection client, go to the IKEv2 section and click on the "Download client Android" button.

11:21

...0.6KB/s

3. Install the app from your app store.

4. After the app is installed. Download your connection profile in the IKEv2 section. To download the connection profile, click "Download Profile"

11:22

...0.1KB/s

5. After you have downloaded the connection profile, you need to import this profile into your application. Open the app and click "Import VPN Profile" on the menu.

6. You need to enter your password, which is provided to you. We cannot pass the password as it is not secure in terms of the IKEv2 protocol.

11:22

...11.8KB/s

Import VPN profile

7. All done. But that's not all. We need to download the key, you need to click on the "Download Certificate CA" button. And save the certificate for further integration. To start importing a certificate, simply open it and select an application to open it.

Profile name

8. Next click open.

11:24

...0.8KB/s

9. After you click open, select an application from those offered. And click on the "Import Certificate" button.

10. After importing the certificate, you can start using the VPN network. Agree to the system warnings if you want to activate the connection.

11:24

...0.8KB/s

11. Congratulations, your connection is set up.

11:24

...16.5KB/s

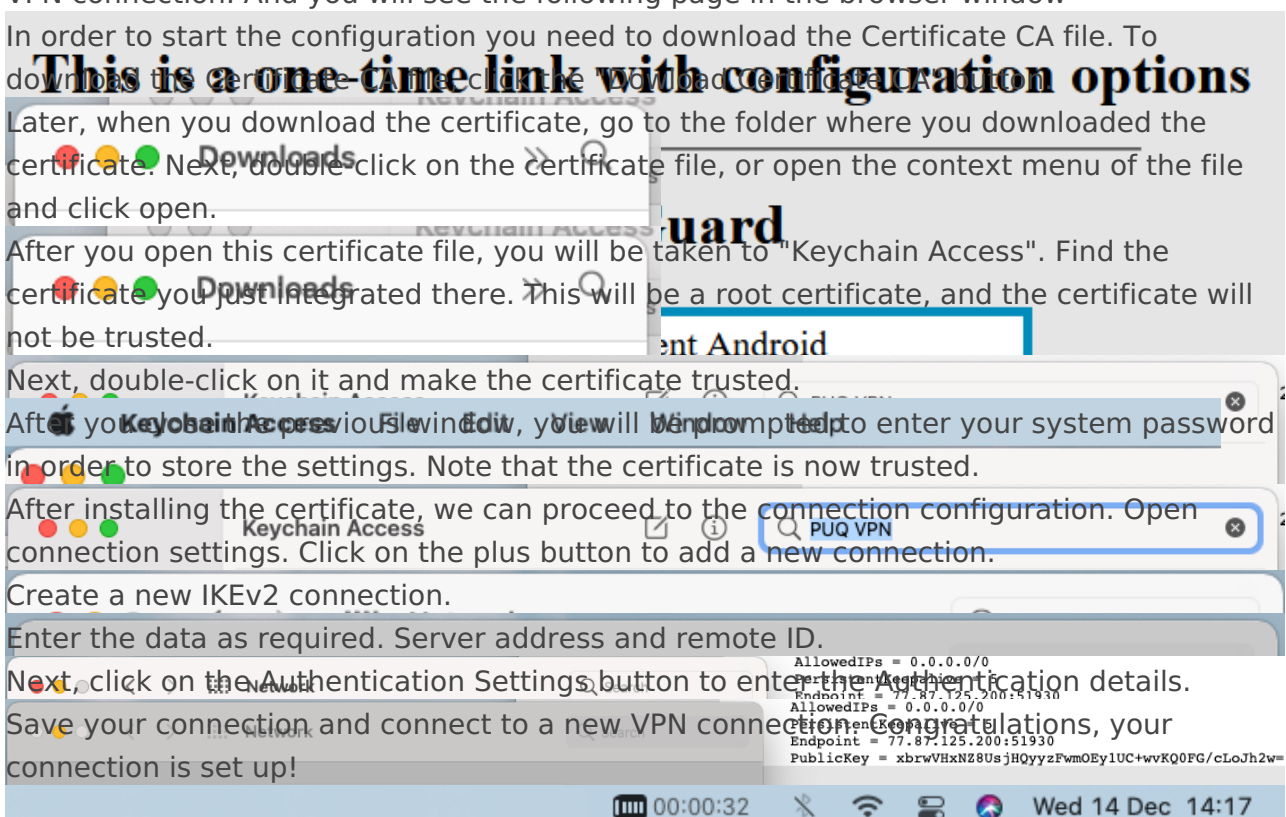


# macOS IKEv2 client configuration

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In order to connect to a VPN, follow these steps:

1. Open the link you received in a browser to get instructions and configuration for your new VPN connection. And you will see the following page in the browser window
2. In order to start the configuration you need to download the Certificate CA file. To download the Certificate CA file click on the Download Certificate CA button
3. Later, when you download the certificate, go to the folder where you downloaded the certificate. Next, double click on the certificate file, or open the context menu of the file and click open.
4. After you open this certificate file, you will be taken to "Keychain Access". Find the certificate you just integrated there. This will be a root certificate, and the certificate will not be trusted.
5. Next, double-click on it and make the certificate trusted.
6. After you open this certificate file, you will be prompted to enter your system password in order to store the settings. Note that the certificate is now trusted.
7. After installing the certificate, we can proceed to the connection configuration. Open connection settings. Click on the plus button to add a new connection.
8. Create a new IKEv2 connection.
9. Enter the data as required. Server address and remote ID.
10. Next, click on the Authentication Settings button to enter the Authentication details.
11. Save your connection and connect to a new VPN connection. Congratulations, your connection is set up!



# Windows IKEv2 client configuration

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In order to connect to a VPN, follow these steps:

1. Open the link you received in a browser to get instructions and configuration for your new VPN connection. And you will see the following page in the browser window

2. In order to configure the VPN connection on Windows. You need to install a certificate.

**This is a one time link with configuration options**  
First, download the certificate from the IKEv2 section and save it on your device. For example, in the Downloads folder.

3. Go to the download folder, then double-click or in the context menu of the downloaded certificate file, click Open

4. You will see a warning window, click open.

5. After that, a window will open in which information about the certificate will be described. Click the "Install Certificate" button.

6. The Certificate Installation Wizard opens. Follow hints and logic. For example, select "For Local Machine" to have the certificate trusted by all users on your system. Next.

7. Select a location to save the certificate. This is the root certificate, so we will save it to the root certificates.

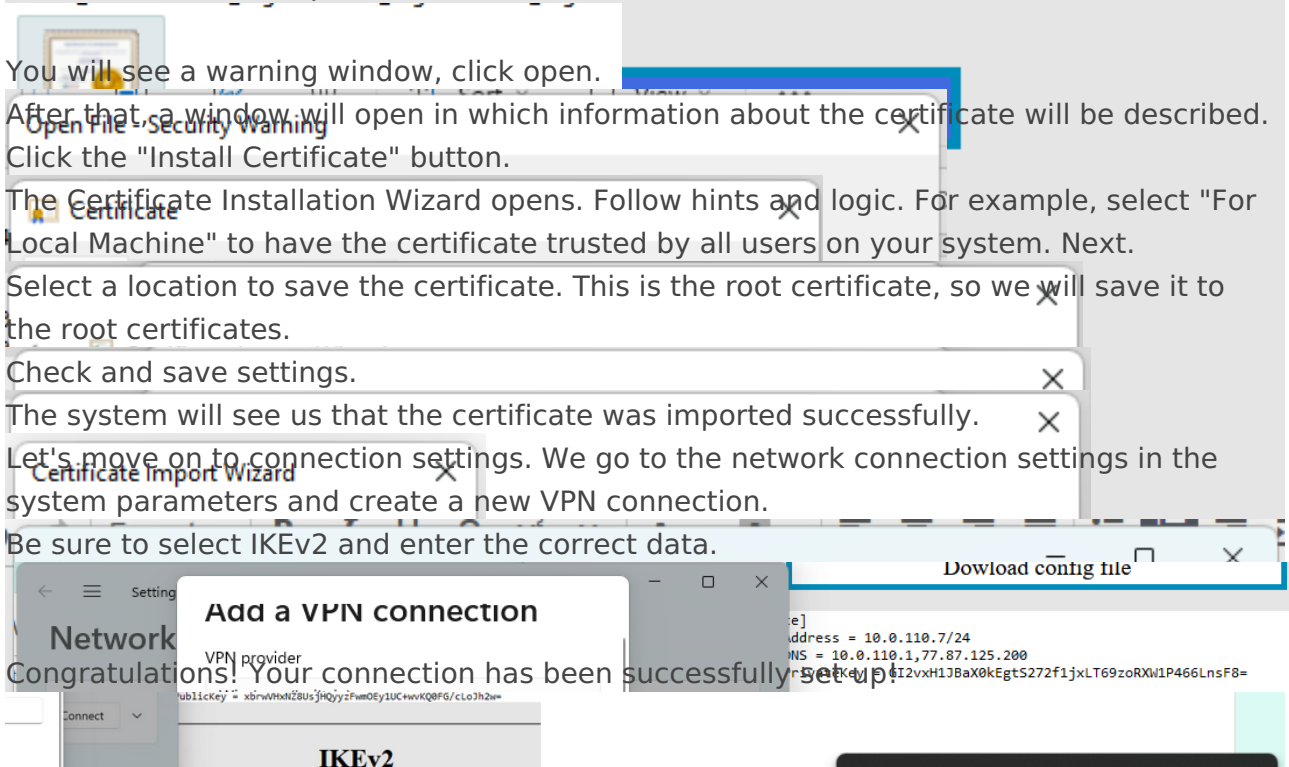
8. Check and save settings.

9. The system will see us that the certificate was imported successfully.

10. Let's move on to connection settings. We go to the network connection settings in the system parameters and create a new VPN connection.

11. Be sure to select IKEv2 and enter the correct data.

12. Congratulations! Your connection has been successfully set up!



# Linux IKEv2 client configuration

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In order to connect to a VPN, follow these steps:

1. Open the link you received in a browser to get instructions and configuration for your new VPN connection. And you will see the following page in the browser window

2. In order to start the configuration you need install some software, before installing the software, you need first to update the package list using the command `sudo apt update`. After the package list is updated, install additional software:

```
sudo apt install strongswan libcharon-extra-plugins
```

3. Next, prepare a certificate to encrypt the connection. You can download the certificate, open the certificate file as text and create a new file at `nano /etc/ipsec.d/cacerts/ca-cert.pem`

4. To prevent automatic connection, use `systemctl` to disable StrongSwan from starting automatically

```
sudo systemctl disable --now strongswan-starter
```

5. Next, you need to edit or create a file with authentication data

```
sudo nano /etc/ipsec.secrets
```

In this file, you need to enter your login and password data from the IKEv2 section

```
your_username : EAP "your_password"
```

6. The next step is to edit the configuration file

```
nano /etc/ipsec.conf
```

The contents of the configuration file should be the following

## config setup

```
conn ikev2-rw
    right=adres_server
    # This should match the `leftid` value on your server's configuration
    rightid=adres_server
    rightsubnet=0.0.0.0/0
    rightauth=pubkey
    leftsourceip=%cfg
    leftauth=eap-mschapv2
    leftid=your_username
    eap_identity=%identity
    auto=start
```

**Attention!** Please note that you need to enter your data in the configuration file and the authentication file.

7. To activate the connection, enter the command `sudo ipsec start` and to disable run the command `sudo ipsec stop`



# 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

WinBox (64bit) v6.49.7 on CCR1009-7G-1C (tile)

Session Settings Dashboard

Certificates SCEP Servers SCEP RA Requests OTP CRL

Import Card Reinstall Card Verify Revoke Settings

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=Warsaw,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.

Certificates SCEP Servers SCEP RA Requests OTP CRL

Import Card Reinstall Card Verify Revoke Settings

Name	Issuer	Value
dev.softkeel.com		address= <b>dev.softkeel.com</b>
mikrotik		my-id=user-fqdn: <b>mikrotik</b> AND username= <b>mikrotik</b>
NX9%B3&3YG		password= <b>NX9%B3&amp;3YG</b>
dev.softkeel.com.crt_0		certificate= <b>dev.softkeel.com.crt_0</b>

Import

Name:

File Name:

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

```

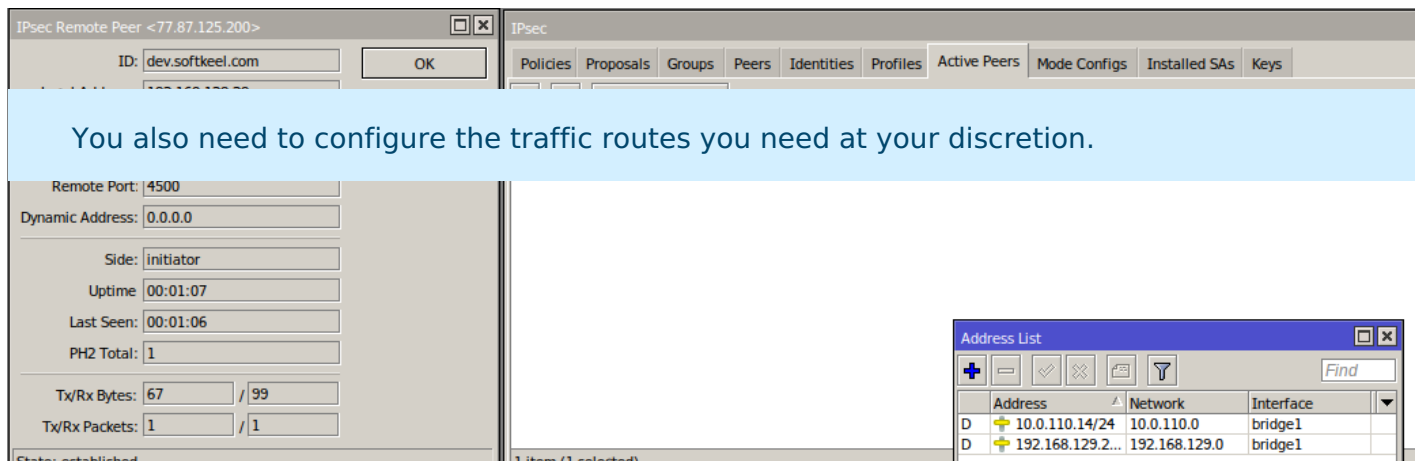
```

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 IP->IPsec configuration

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



The screenshot shows the Mikrotik WinBox interface. The main window is titled 'IPsec Remote Peer <77.87.125.200>' and displays the configuration for a remote peer with ID 'dev.softkeel.com'. The status is 'State: established'. The configuration includes 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, and Tx/Rx Packets: 1 / 1. An 'Address List' window is open in the bottom right corner, showing a table with columns 'Address', 'Network', and 'Interface'. The table contains two entries: '10.0.110.14/24' with network '10.0.110.0' and interface 'bridge1', and '192.168.129.2...' with network '192.168.129.0' and interface 'bridge1'.

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

# iOS IKEv2 client configuration

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To connect to the VPN, follow these steps:

1. Open the provided link in your browser to get instructions and settings for your new VPN connection. You will see the following page in your browser window.

## This is a one-time link with configuration options

### WireGuard

[Download client Android](#)[Download client iOS](#)[Download client Windows](#)[Download client macOS](#)[Official clients WireGuard](#)[Download config file](#)

```
[Interface]
Address = 10.0.111.16/24,2a11:ff00::111/120
DNS = 10.0.111.1,2a11:ff00::101,2a11:ff00::8
PrivateKey = G0mgdb66DPex6YdP2/A4YDGtoAdAllgVAPsyhm1HQeB=

[Peer]
PersistentKeepalive = 25
Endpoint = dev.softkeel.com:51030
PublicKey = xbrwVhtN280sJH0yyzFumOEy1UC+vvKQ8FG/cLoJh2w=
AllowedIPs = 0.0.0.0/0, ::0
```

### IKEv2

[Download Certificate CA](#)

**Server:** dev.softkeel.com

**Username:** user\_3

**Password:** dupa

[Download Profile](#)

2. To proceed, you need to install the Certificate CA. Click the "Download Certificate CA" button and allow the download of the file.

## IKEv2

### Download Certificate CA

**Server:** dev.softkeel.com  
**Username:** user\_3  
**Password:** dupa

### Download Profile

### Download client Android

### Download client Debian/Ubuntu

### Official clients strongSwan

[doc.puq.info](http://doc.puq.info)  
[www.puqcloud.com](http://www.puqcloud.com)

3. Next, navigate to the following path: Settings -> General -> VPN & Device Management, and wait for the profile to download and appear in this window.

12:19



[< Back](#) VPN & Device Management



VPN

Not Connected >

[Sign In to Work or School Account...](#)

DOWNLOADED PROFILE



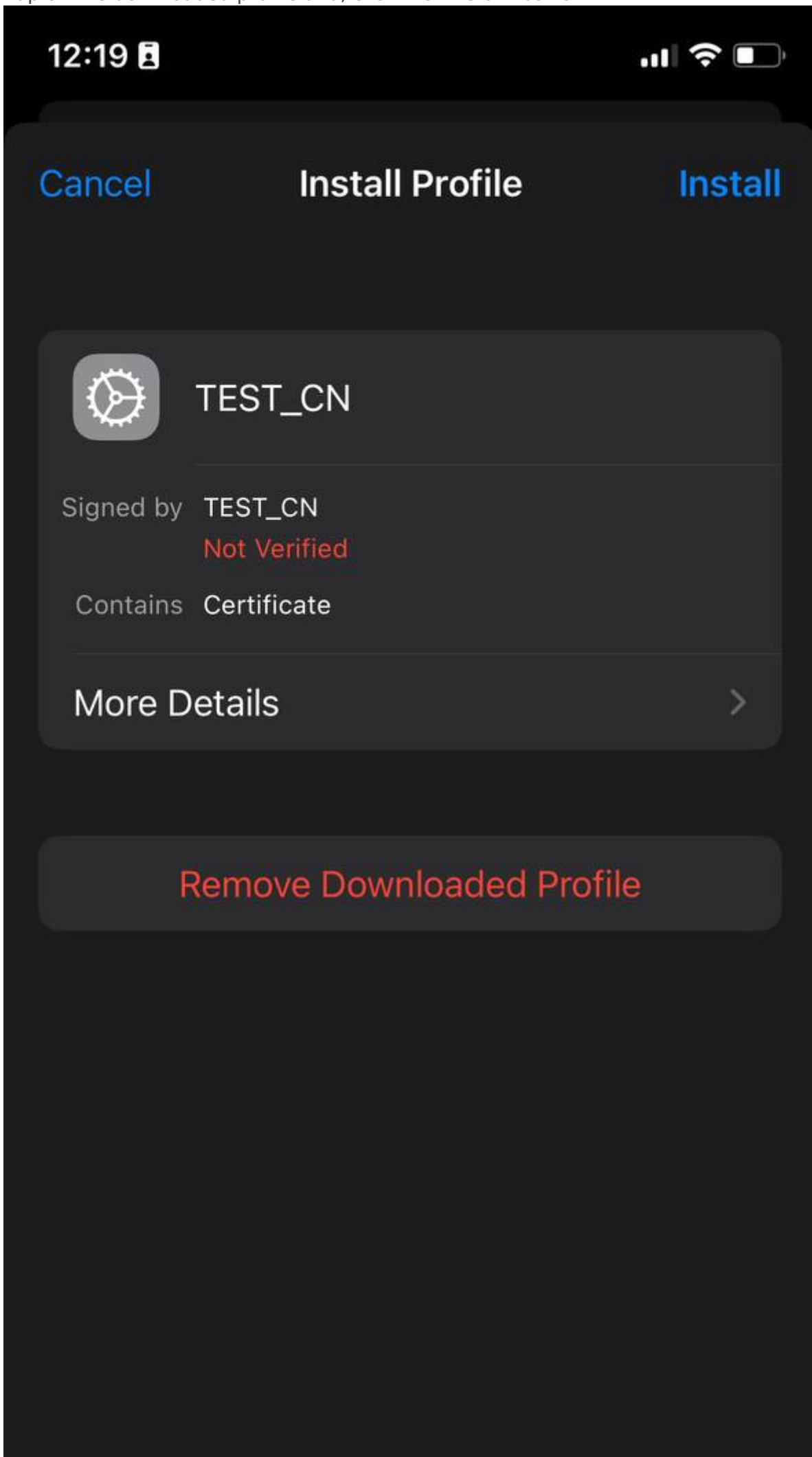
TEST\_CN







4. Tap on the downloaded profile and, click the "Install" button.



5. Enter your password.

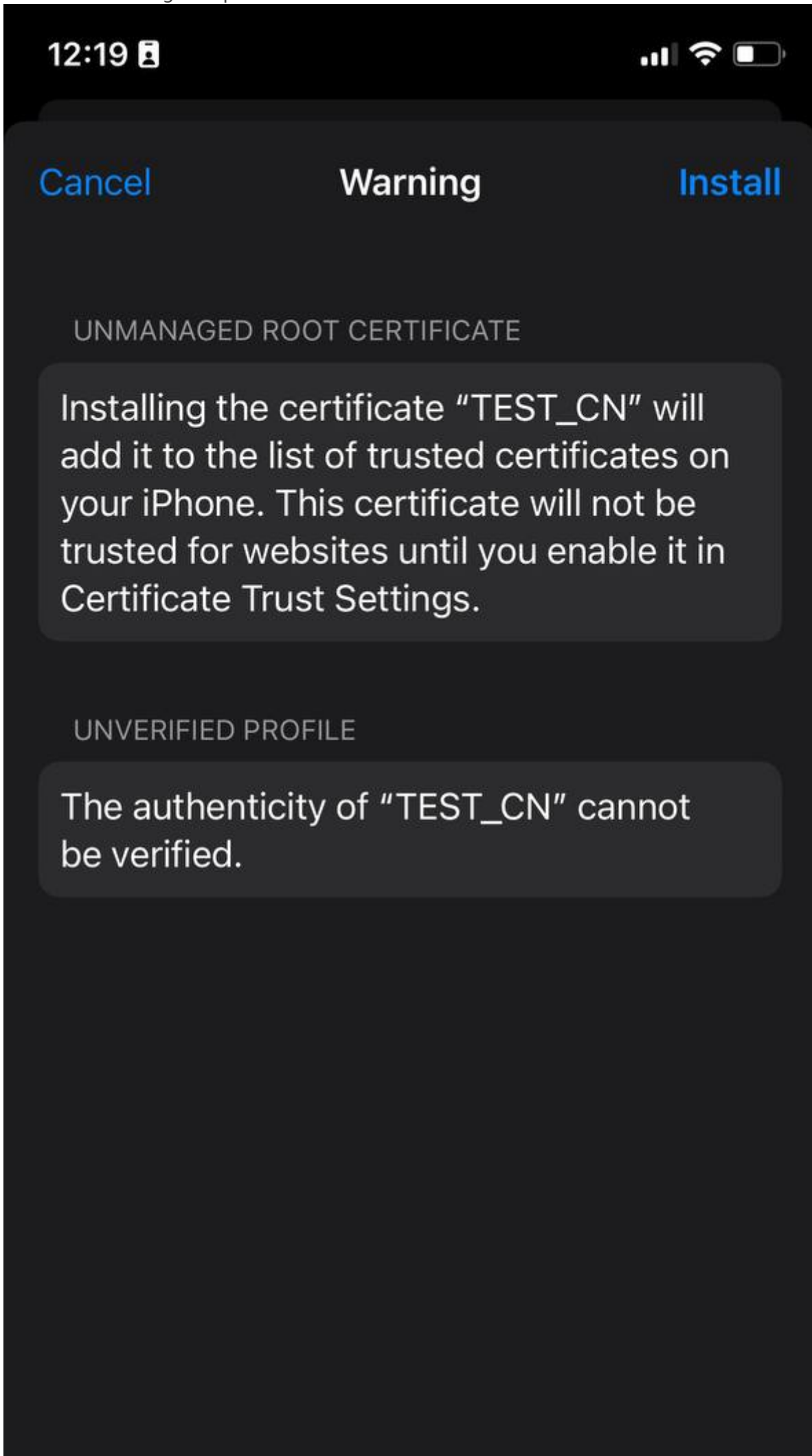
12:19

Enter Passcode Cancel

Enter your passcode

○ ○ ○ ○ ○ ○

6. Read the warning and press the "Install" button



7. Press "Install" again to confirm.

12:19



Cancel

Warning

Install

UNMANAGED ROOT CERTIFICATE

Installing the certificate "TEST\_CN" will add it to the list of trusted certificates on your iPhone. This certificate will not be trusted for websites until you enable it in Certificate Trust Settings.

UNVERIFIED PROFILE

The authenticity of "TEST\_CN" cannot be verified.

Install



8. A window will appear, showing that the profile has been downloaded and verified.

12:19



## Profile Installed

[Done](#)



TEST\_CN

Signed by TEST\_CN

Verified ✓

Contains Certificate


[More Details](#)





**Next, you need to configure the VPN.**

1. To do this, go to Settings -> General -> VPN & Device Management -> VPN and tap on "Add VPN Configuration..."

14:09 

 LTE 

 Settings

## VPN

VPNs can be set up to control the routing of certain network traffic. [About VPNs & Privacy...](#)

### VPN CONFIGURATIONS

Status

Not Connected



To connect using "vpn.puq.pl", use the "OpenVPN" application.



vpn.puq.pl

OpenVPN



[Add VPN Configuration...](#)

2. Enter the required details and click "Done."
  1. Description: [Enter a description for this VPN connection]
  2. Server: [Enter the server address]
  3. Remote ID: [Enter the remote ID]
  4. Username: [Enter your VPN username]
  5. Password: [Enter your VPN password]
  6. Type: IKEv2

7. Proxy: Off

13:48

LTE

Cancel

Add Configuration

Done

Type

IKEv2 >

Description PuqCloud

Server dev.softkeel.com

Remote ID dev.softkeel.com

Local ID

AUTHENTICATION

User Authentication

Username >

Username user\_3

Password

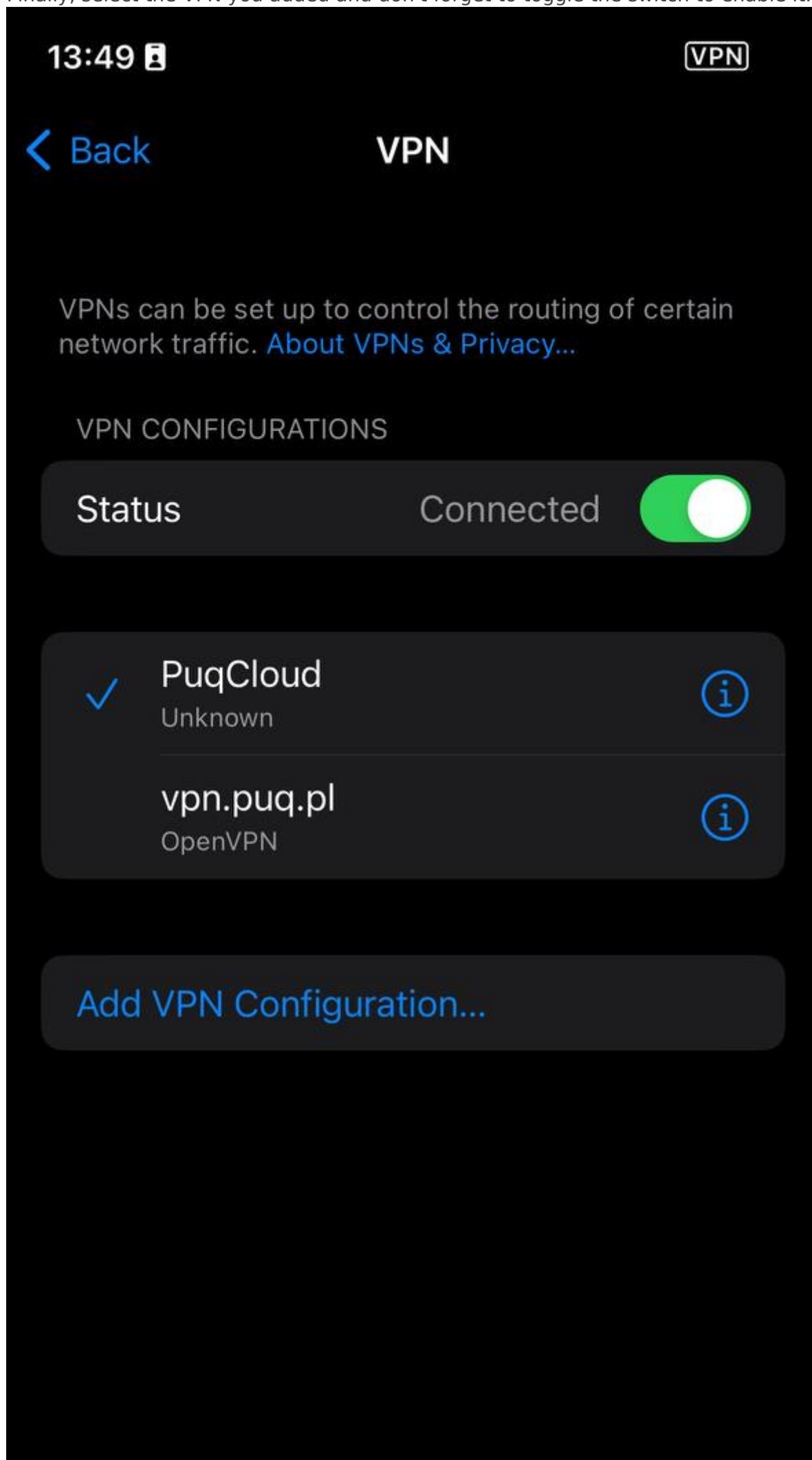
PROXY

Off

Manual

Auto

3. Finally, select the VPN you added and don't forget to toggle the switch to enable it.



4. By tapping on the (i) icon, you can check the information for this VPN or make any necessary changes

13:49

LTE

< VPN

PuqCloud

Edit

Type	IKEv2
------	-------

Server	dev.softkeel.com
--------	------------------

Account	user_3
---------	--------

Server Address	77.87.125.200
----------------	---------------

Address	10.0.111.16
---------	-------------

Address	2a11:ff00::111
---------	----------------

Connect Time	0:14
--------------	------

Delete VPN