OpenWRT WireGuard Client Setup guide using Luci

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Install WireGuard

LuCi > System > Software: click *Update Lists*

Install: luci-proto-wireguard, wireguard-tools and wg-installer-client

Download configuration

Download a WireGuard configuration file from your provider or WireGuard server.

In this example we are going to download a WireGuard configuration file from Proton which is free but it will expire after a week or so:

Create an account on https://protonvpn.com/

Login

Go to Downloads and scroll to the bottom for the WireGuard configuration.

Give a name to your config and choose router for your Platform :

WireGuard configuration

These configurations are provided to work with WireGuard routers and official clients.

1. Give a name to the config to be generated Device/certificate name (i) wg_proton_nl 2. Select platform Android oios Windows macOS GNU/Linux Router 3. Select VPN options NAT-PMP (Port Forwarding) Learn more VPN Accelerator Learn more 4. Select a server to connect to Use the best server according to current load and position: NL-FREE#70 Create Or select a particular server: Standard server configs Free server configs Secure Core configs

Scroll down to the server you want to connect to and Choose Create:



Download the config file to your computer, the config file (wg_proton_nl-NL-FREE-1.conf) looks like this:

[Interface]

Key for wg_proton_nl

Bouncing = 3

NAT-PMP (Port Forwarding) = off

VPN Accelerator = on

PrivateKey = UJmovcwC7KQ/vfgnradTHoHD30WJ6SonkvXYg23ex0A=

Address = 10.2.0.2/32

DNS = 10.2.0.1

[Peer]

NL-FREE#1

PublicKey = vH2i8RY1qc66XfqwrixBpvH4K9GYJatkugJj0GHgoUQ=

AllowedIPs = 0.0.0.0/0

Endpoint = 217.23.3.76:51820

Add the 'PersistentKeepAlive' so that the connection stays open:

PersistentKeepalive = 25 and if you use IPv6 add `::0/0` to allowed IPs:

AllowedIPs = 0.0.0.0/0, ::/0

The result:

[Interface]

Key for wg_proton_nl

Bouncing = 3

NAT-PMP (Port Forwarding) = off

VPN Accelerator = on

PrivateKey = UJmovcwC7KQ/vfgnradTHoHD30WJ6SonkvXYg23ex0A=

Address = 10.2.0.2/32

DNS = 10.2.0.1

[Peer]

NL-FREE#1

PublicKey = vH2i8RY1qc66XfqwrixBpvH4K9GYJatkugJj0GHgoUQ=

AllowedIPs = 0.0.0.0/0, ::0/0

Endpoint = 217.23.3.76:51820

PersistentKeepalive = 25

Create WireGuard interface

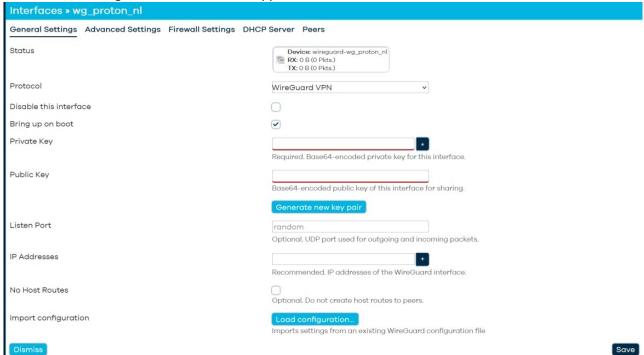
Network > Interfaces on the bottom click: Add New interface



Name: give a descriptive name, hyphens are not allowed and the name has to be less than 15 characters! **Protocol**: *WireGuard VPN*

Click: Create interface

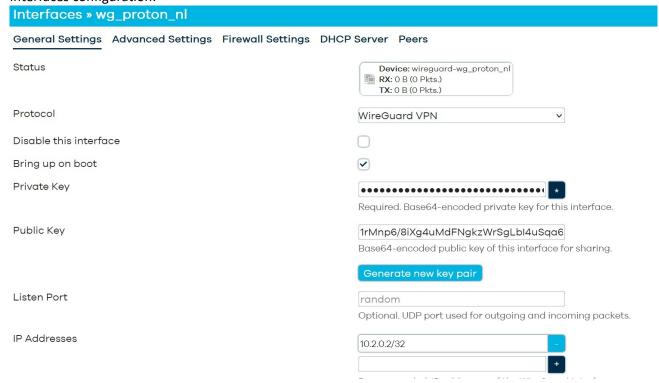
The Interface configuration screen should appear:



As the wg-installer-client is installed we can import our configuration file by clicking the button Load configuration

Click: Load configuration

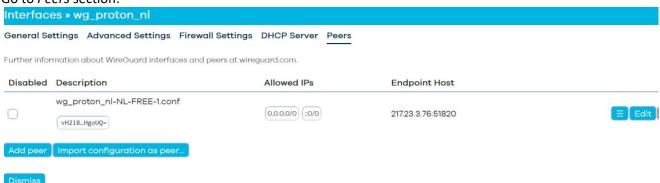
Drop the configuration file from the file manager into this box and automagically the settings should appear into the Interfaces configuration:

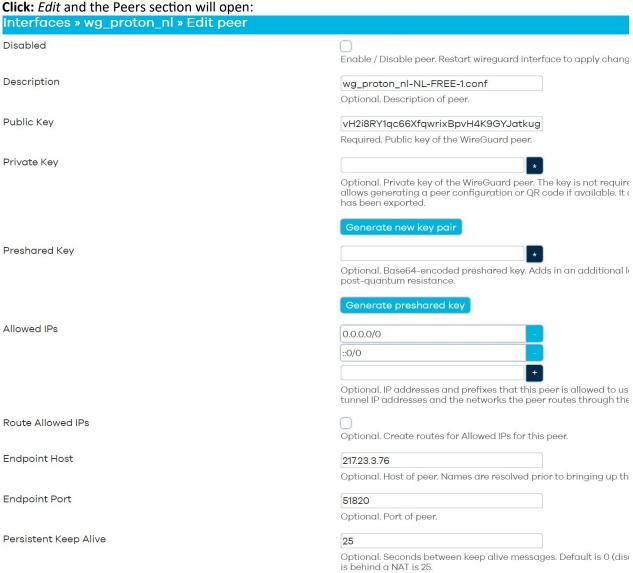


Create WireGuard Peers section

Network > Interfaces > wg_proton_nl : click edit

Go to Peers section:





Now the most important part which is often overlooked:

Route Allowed IPs: Enable (tick)

Route Allowed IPs

Optional. Create routes for Allowed IPs for this peer

Click: Save

In the next window Click: Save again

In the Interface window click Save & Apply

After a few moments the interface appears and should be up and traffic should flow, both Tx and RX indicating the setup is correct:



Protocol: WireGuard VPN

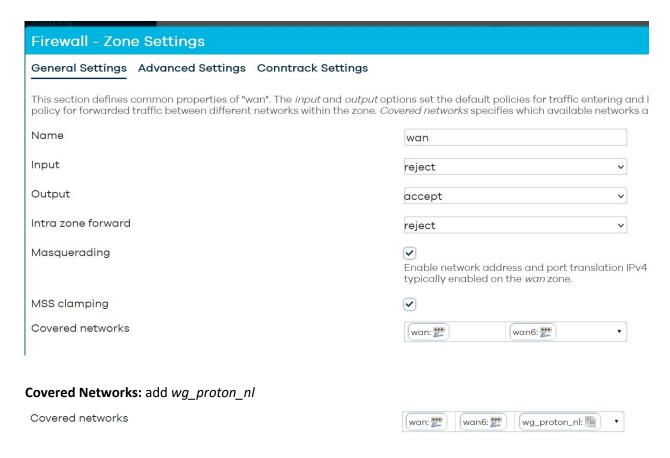
Uptime: Oh 1m 37s RX: 300 B (5 Pkts.) **TX**: 8.87 KB (30 Pkts.) IPv4: 10.2.0.2/32

However this is depending on your default firewall setting with OUTPUT Accept, if not there will not be traffic yet. Next up Firewall

Firewall

Easiest method is to just add the wg_proton_nl interface to the WAN zone

Network > Firewall > WAN zone > Click: edit:



Click: Save and click Save & Apply

This should give you a working WireGuard Client

Check from the routers console with curl ipinfo.io and/or from your LAN clients with ipleak.net