OpenWRT Installing WireGuard client with Luci

Install WireGuard:

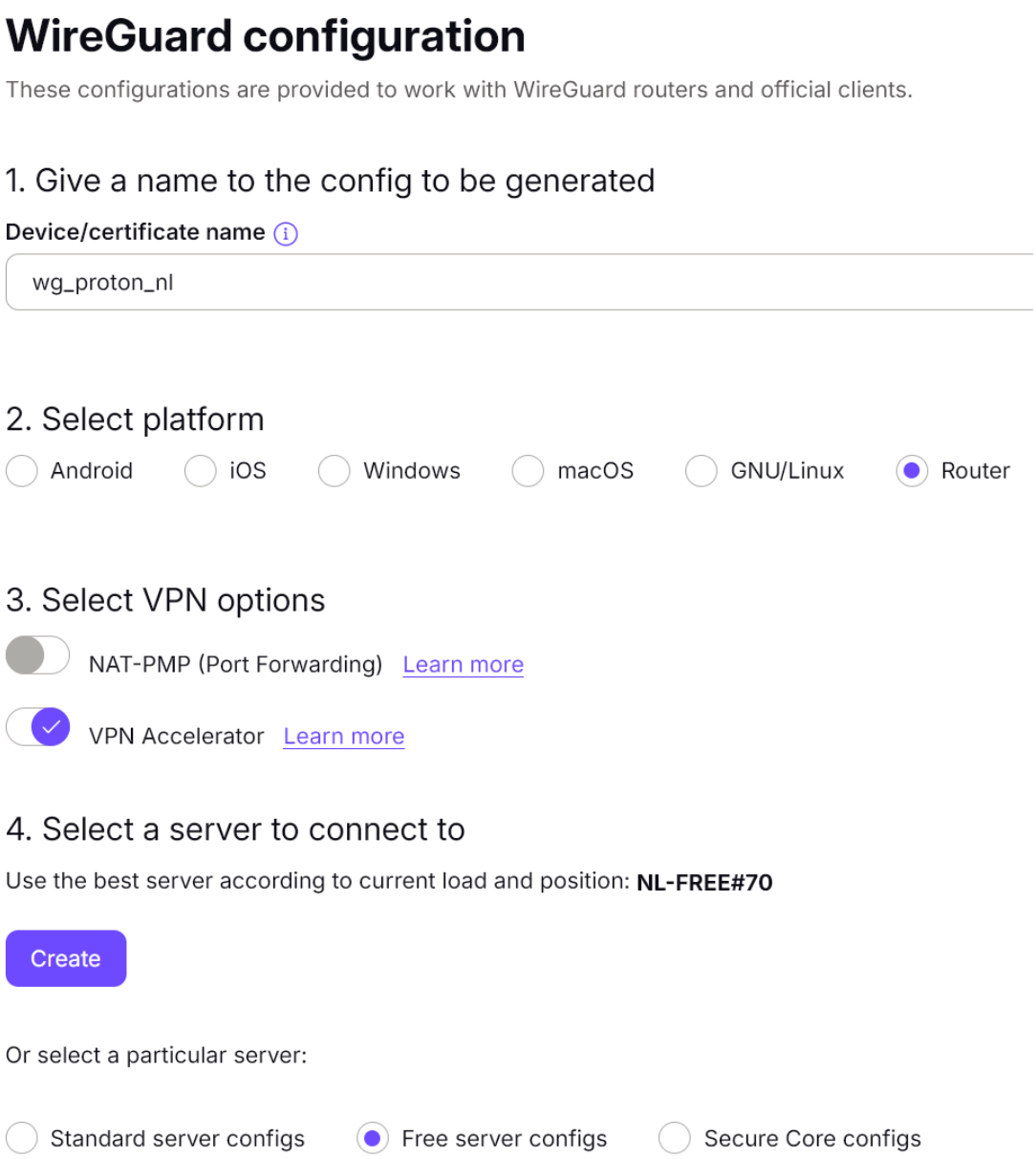
LuCi > System > Software: click `Update Lists`

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

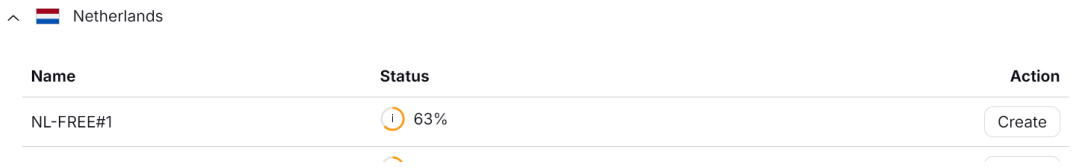
Download a WireGuard configuration file from your provider or WireGuard server
In this example I wil download a WireGuard configuration file from Proton which is free but it will expire after a week.

Create an account on https://protonvpn.com/
Login
Goto Downloads and scroll to the bottom for the WireGuard configuration

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



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

```

We are going to 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`

So in the end we have:

```

[Interface]

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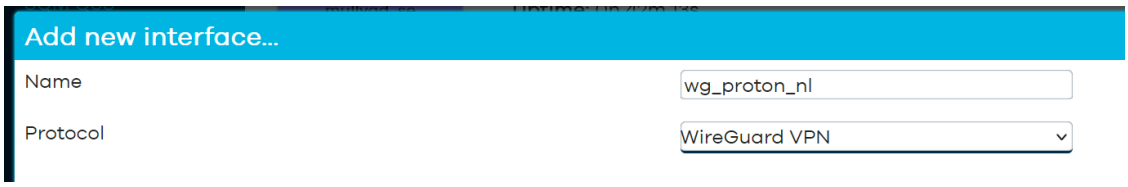
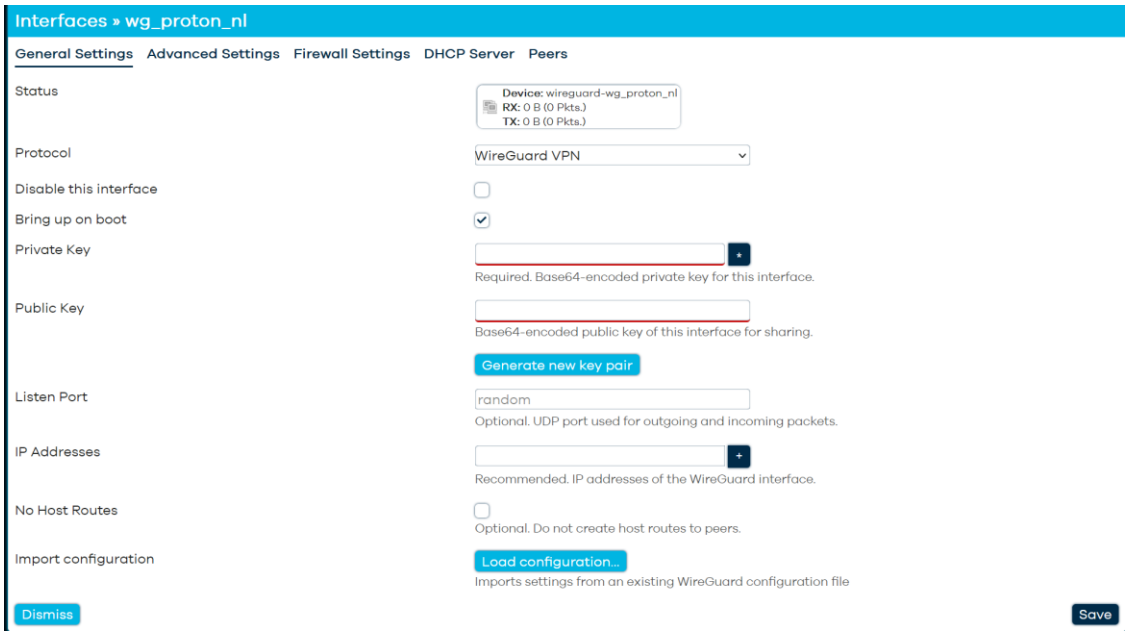
PublicKey = vH2i8RY1qc66XfqwrixBpvH4K9GYJatkugJj0GHgoUQ=

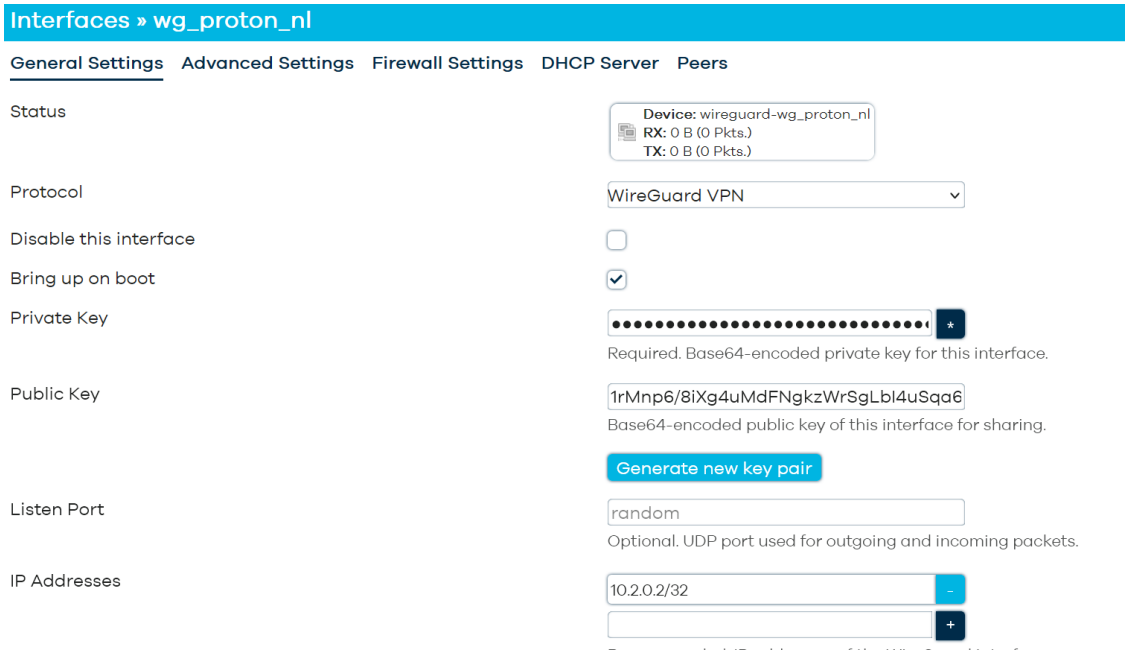
AllowedIPs = 0.0.0.0/0, ::0/0

Endpoint = 217.23.3.76:51820

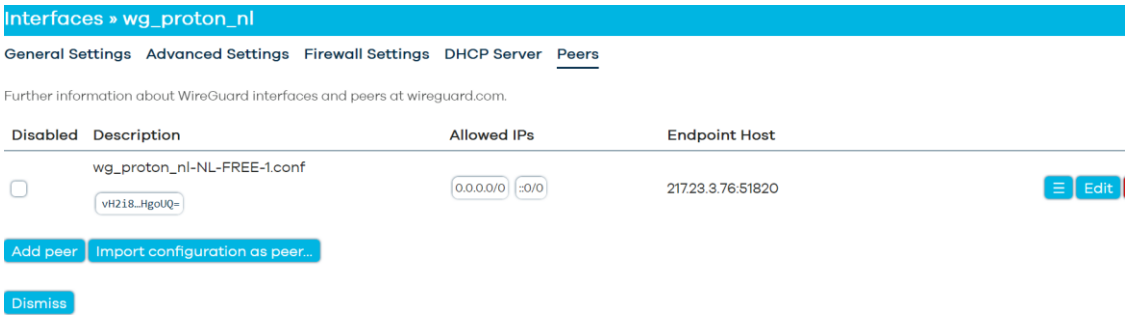
PersistentKeepalive = 25

```

Next up we are going to create the WireGuard Interface:

Network > Interfaces on the bottom click: `Add New interface`




Give the interface a name (hyphens are not allowed and the name has to be below 15 chracters!)

Choose as Protocol `WireGuard VPN`

Click `Create interface` and the Interface configuration scree should appear:




As we have installed the `wg-installer-client` we can Import our configuration file by clicking the button `Load configuration`
```

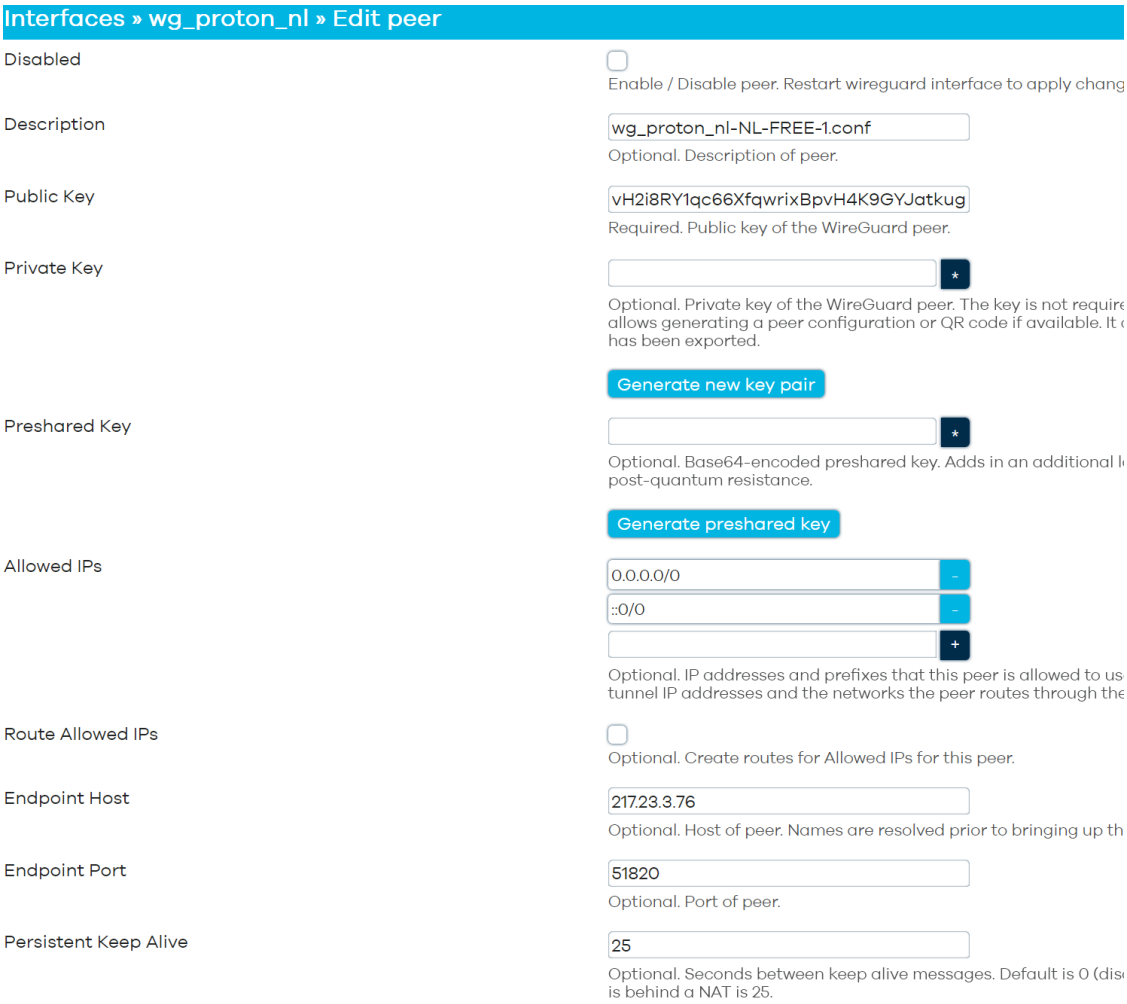
After clicking the button `Load configuration` we get a box to drop our configuration file from the file manager into this box and automagically the settings should appear into our `Interface configuration`



Next up is configuring the `Peers` section, click on `Peers` in the menu



Click on the `Edit` button:



Now the most important part which is often overlooked:

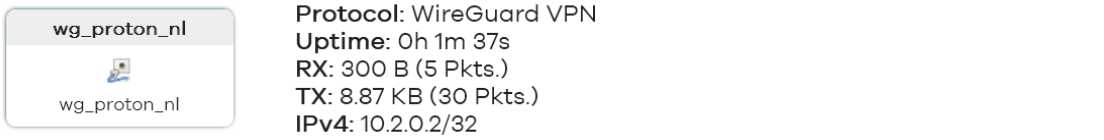
Tick/Enable `Route Allowed IPs`:

Click `Save`

In the next window click `Save` again

In the Interface window click `Save & Apply`

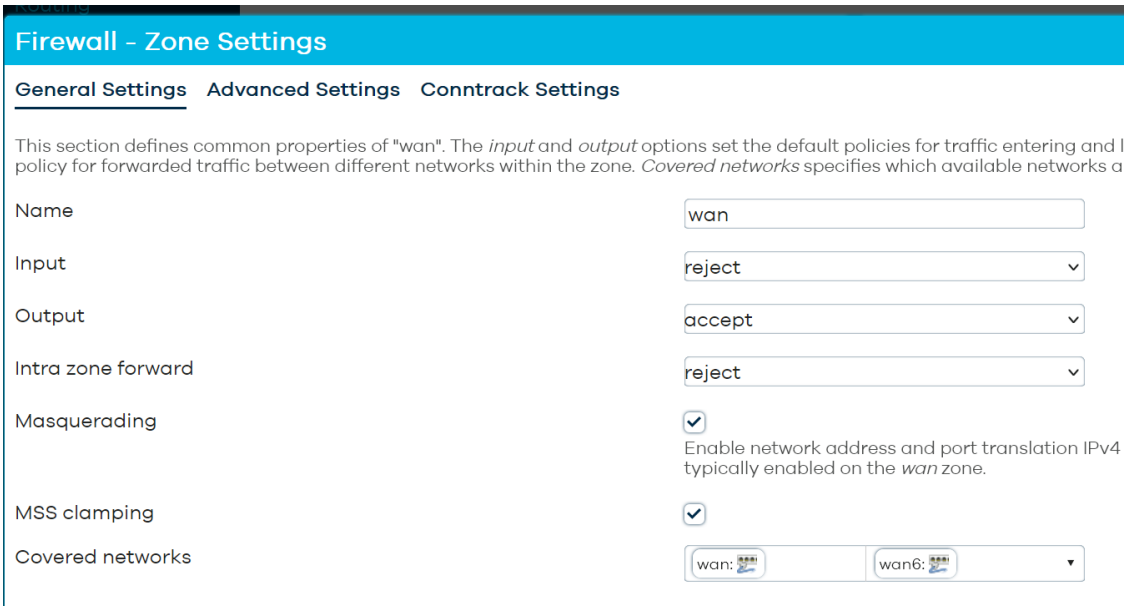
After a few moments we can see that the interface is up and traffic is flowing both Tx and RX indicating the setup is correct:



However this is depending on your default firewall setting with OUTPUT Accept, if not there will no be traffic yet.

Next up Firewall

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



Under Covered Networks add wg_proton_nl:

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`