

OpenWRT WireGuard Client Setup guide using LuCi

Latest iteration can be found at: <https://github.com/egc112/OpenWRT-egc-add-on/tree/main/notes>

There you can also find a guide to setup [WireGuard as a Server](#).

Version 12

Introduction

These are my notes for setting up WireGuard as a *Client*.

In essence WireGuard is a peer -to-peer protocol but because of differences in setup we still make a distinction between setting it up as a Client or as a Server, but a WireGuard interface can be setup to function as a Client and Server at the same time.

This guide was made on a NetGear R7800 running OpenWRT 24.10.0, screenshots are made with OpenWRT2020 theme which is not much different from the default theme.

My notes are using the easy way with a simple setup using LuCi although the corresponding config files are also listed.

This simple setup is done by importing a config file (.conf) from your VPN provider with necessary settings (see: [config file](#)).

Importing a config file is possible if you installed the *wg-tools* package (see [Install WireGuard](#)).

But just adding the settings manually will also do the trick.

Other useful information can be found in the [OpenWRT WireGuard wiki](#).

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Install WireGuard

LuCi > System > Software: click *Update Lists*

Install: *luci-proto-wireguard*, *wireguard-tools*.

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 ⓘ

wg_proton_nl

2. Select platform

☐ Android ☐ iOS ☐ 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:

^  Netherlands

Name	Status	Action
NL-FREE#1	 63%	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]

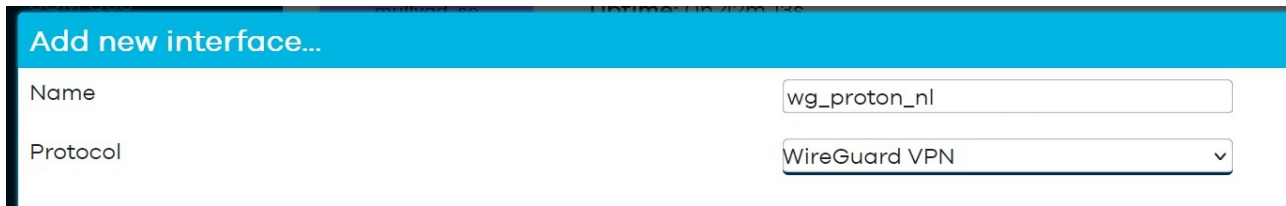
```
# Key for wg_proton_nl
# Bouncing = 3
# NAT-PMP (Port Forwarding) = off
# VPN Accelerator = on
PrivateKey = UJmovcwC7KQ/vfgnradTHoHD30WJ6SonkvXYg23ex0A=
Address = 10.2.0.2/32
DNS = 10.2.0.1
```

[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*



Add new interface...

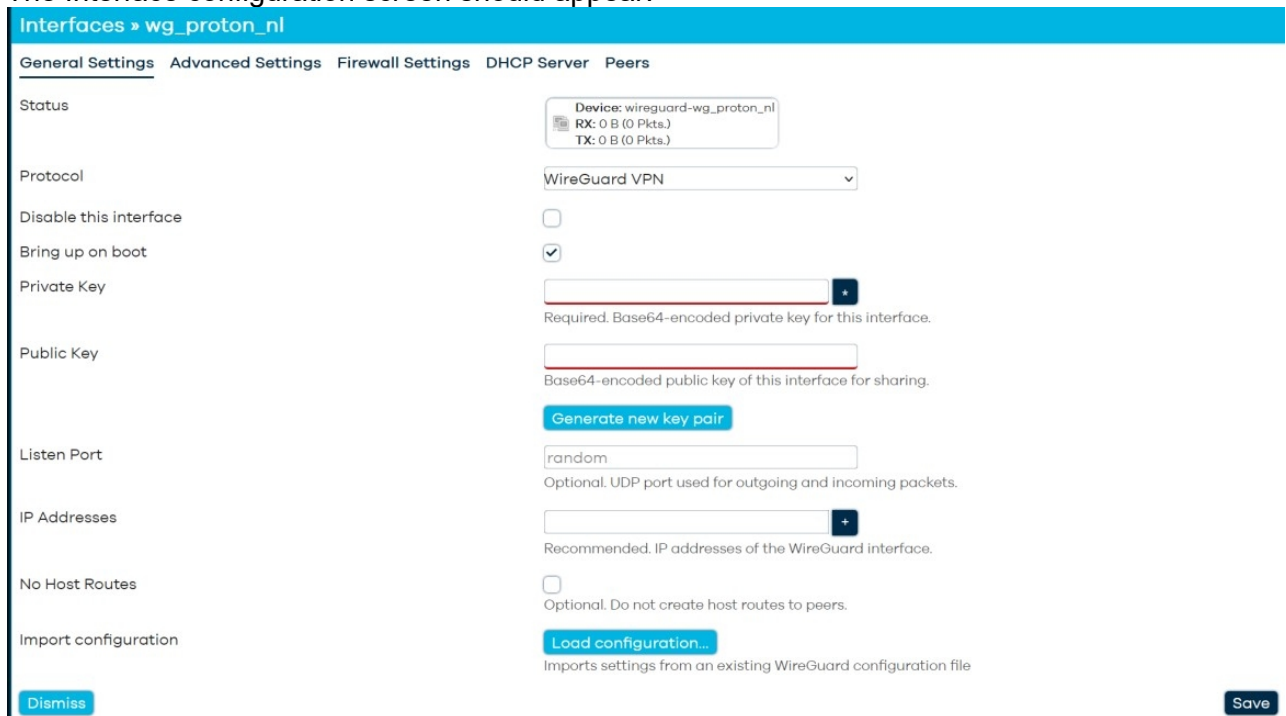
Name: wg_proton_nl

Protocol: WireGuard VPN

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:



Interfaces > wg_proton_nl

General Settings Advanced Settings Firewall Settings DHCP Server Peers

Status: Device: wireguard-wg_proton_nl
RX: 0 B (0 Pkts.)
TX: 0 B (0 Pkts.)

Protocol: WireGuard VPN

Disable this interface: ☐

Bring up on boot: ☒

Private Key: [Generate new key pair](#)
Required. Base64-encoded private key for this interface.

Public Key: [Generate new key pair](#)
Base64-encoded public key of this interface for sharing.

Listen Port: random
Optional. UDP port used for outgoing and incoming packets.

IP Addresses: [+](#)
Recommended. IP addresses of the WireGuard interface.

No Host Routes: ☐
Optional. Do not create host routes to peers.

Import configuration: [Load configuration...](#)
Imports settings from an existing WireGuard configuration file

[Dismiss](#) [Save](#)

We can now 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 automatically the settings should appear into the Interfaces configuration:

Interfaces » wg_proton_nl

General Settings

Advanced Settings

Firewall Settings

DHCP Server

Peers

Status

Device: wireguard-wg_proton_nl
RX: 0 B (0 Pkts.)
TX: 0 B (0 Pkts.)

Protocol

WireGuard VPN

Disable this interface

☐

Bring up on boot

☒

Private Key

.....*

Required. Base64-encoded private key for this interface.

Public Key

1rMnp6/8iXg4uMdFNgkzWrSgLb14uSqa6

Base64-encoded public key of this interface for sharing.

Generate new key pair

Listen Port

random

Optional. UDP port used for outgoing and incoming packets.

IP Addresses

10.2.0.2/32

-

+

MTU (Maximum Transmission Unit)

Interfaces » wg_proton_nl

General Settings

Advanced Settings

Firewall Settings

DHCP Server

Peers

Force link

☐
Set interface properties regardless of the link carrier (If set handlers).

MTU

1420

Optional. Maximum Transmission Unit of tunnel interface.

MTU setting on the Advanced Settings tab can usually be left at its default setting (1420 or 1412 for PPPoE).

On occasion if you have **slow or hanging connections** especially when streaming you have to lower the MTU, start lowering to 1280, but sometimes you have to go even lower. For some further explanation see [MTU size problems](#) at the end of this guide.

Note that you also have to **enable MSS clamping** (option mtu_fix '1') on the firewall zone the WireGuard interface is added to.

Create WireGuard Peers section

Network > Interfaces > wg_proton_nl : **click edit**
Go to *Peers* section:

Interfaces » wg_proton_nl

[General Settings](#) [Advanced Settings](#) [Firewall Settings](#) [DHCP Server](#) [Peers](#)

Further information about WireGuard interfaces and peers at wireguard.com.

Disabled	Description	Allowed IPs	Endpoint Host	
<input type="checkbox"/>	wg_proton_nl-NL-FREE-1.conf vH2i8_HgoUQ=	0.0.0.0/0 ::0/0	21723.3.76:51820	Edit
Add peer Import configuration as peer...				

[Dismiss](#)

Click: *Edit* and the Peers section will open:

Interfaces » wg_proton_nl » Edit peer

Disabled	<input type="checkbox"/> Enable / Disable peer. Restart wireguard interface to apply changes.
Description	<input type="text" value="wg_proton_nl-NL-FREE-1.conf"/> Optional. Description of peer.
Public Key	<input type="text" value="vH2i8RY1qc66XfqwrixBpvH4K9GYJatkug"/> Required. Public key of the WireGuard peer.
Private Key	<input type="text"/> Optional. Private key of the WireGuard peer. The key is not required if a peer configuration or QR code is available. It can be generated if available.
	Generate new key pair
Preshared Key	<input type="text"/> Optional. Base64-encoded preshared key. Adds in an additional layer of post-quantum resistance.
	Generate preshared key
Allowed IPs	<input type="text" value="0.0.0.0/0"/> <input type="text" value="::0/0"/> <input type="text"/> Optional. IP addresses and prefixes that this peer is allowed to use to tunnel IP addresses and the networks the peer routes through the router.
Route Allowed IPs	<input type="checkbox"/> Optional. Create routes for Allowed IPs for this peer.
Endpoint Host	<input type="text" value="217.23.3.76"/> Optional. Host of peer. Names are resolved prior to bringing up the peer.
Endpoint Port	<input type="text" value="51820"/> Optional. Port of peer.
Persistent Keep Alive	<input type="text" value="25"/> Optional. Seconds between keep alive messages. Default is 0 (disabled). If behind a NAT is 25.

Allowed IPs are set both for **IPv4** (0.0.0.0/0) and for **IPv6** (::0/0), for IPv6 only necessary if you have IPv6 implemented on your router.

Now the most important part which is often overlooked:

Route Allowed IPs: *Enable* (tick)

Route Allowed IPs	<input checked="" type="checkbox"/> 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**

```


/etc/config/network:
config interface 'wg_proton_nl'
    option proto 'wireguard'
    option private_key 'UJmovcwC7KQ/vfgnrasdfggdfgdfgdgddsgfdc='
    list dns '10.2.0.1'
    list addresses '10.2.0.2/24'

config wireguard_wg_proton_nl
    option description 'wg_proton_nl-NL-FREE-1.conf'
    option public_key 'vH2i8RY1qc66XfqwrrixBpvH4K9dsfge4egdfgdfger='
    option endpoint_host '217.23.3.76'
    option endpoint_port '51820'
    list allowed_ips '0.0.0.0/0'
    list allowed_ips ':::0' # leave in place for PBR
    list allowed_ips ':::1'
    list allowed_ips '8000:::1'
    option route_allowed_ips '1'
    option persistent_keepalive '25'

```

Note for IPv6 add `:::1` and `8000:::1` as Allowed IPs to create a default route, or disable Source routing (Interface wan6 > `option sourcefilter '0'`) and set appropriate metrics on WG interface and higher metrics on default route in wan and wan6

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

 <p>wg_proton_nl</p>	<p>Protocol: WireGuard VPN</p> <p>Uptime: 0h 1m 37s</p> <p>RX: 300 B (5 Pkts.)</p> <p>TX: 8.87 KB (30 Pkts.)</p> <p>IPv4: 10.2.0.2/32</p>
---	---

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

Firewall

Easy method

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

Network > Firewall > WAN zone > **Click: edit:**

Firewall - Zone Settings

General Settings

Advanced Settings

Conntrack Settings

This section defines common properties of "wan". The *input* and *output* options set the default policies for traffic entering and leaving the zone. The *intra zone forward* option sets the default policy for forwarded traffic between different networks within the zone. *Covered networks* specifies which available networks are covered by this zone.

Name	wan
Input	reject
Output	accept
Intra zone forward	reject
Masquerading	<input checked="" type="checkbox"/> Enable network address and port translation IPv4 typically enabled on the <i>wan</i> zone.
MSS clamping	<input checked="" type="checkbox"/>
Covered networks	wan: wan6:

Covered Networks: add `wg_proton_nl`

Covered networks

wan: wan6: wg_proton_nl:

For IPv6 enable IPv6 Masquerading on the WireGuard firewall zone:

Advanced settings > Enable IPv6 Masquerading

but restrict this to the IPv6 subnet of the WireGuard interface, this is the IPv6 IP/List Addresses in the WireGuard interface but with a /64 netmask

Firewall - Zone Settings

General Settings

Advanced Settings

Conntrack Settings

The options below control the forwarding policies between this zone (ovpn_client) and other zones. *Destination zones* cover forwarded traffic originating from ovpn_client. *Source zones* match forwarded traffic from other zones targeted at ovpn_client. The forwarding rule is *unidirectional*, e.g. a forward from lan to wan does *not* imply a permission to forward from wan to lan as well.

Covered devices	unspecified Use this option to classify zone traffic by raw, non-uci managed network devices.
Covered subnets	+ Use this option to classify zone traffic by source or destination subnet instead of networks or devices
IPv6 Masquerading	<input checked="" type="checkbox"/> Enable network address and port translation IPv6 (NAT6 or NAPT6) for outbound traffic on this zone.
Restrict to address family	IPv4 and IPv6
Restrict Masquerading to given source subnets	fc00:bbbb:bbbb:bb01:6:4edd/64

```
/etc/config/firewall:
config zone
    option name 'wan'
    option input 'REJECT'
```



```
option output 'ACCEPT'  
option forward 'REJECT'  
option masq '1'  
option mtu_fix '1'  
option masq6 '1'  
list masq_src 'fc00:bbbb:bbbb:bb01::6:4edd/64'  
list network 'wan'  
list network 'wan6'  
list network 'wg_proton_n1'
```

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*

Alternative Method

The Alternative method is to make a separate firewall zone for the VPN interface.

This can be useful if you want to make a killswitch (prevent traffic going out of the wan) or setup a Wireguard client on a [Bridged AP](#).

Note that a killswitch is not really necessary as the wireGuard interface stays up even if there is no connection but it will add an extra layer of security and guards against mis-configuration.

Furthermore a killswitch is not compatible with [Policy Based Routing \(PBR\)](#).

Network > Firewall > **Click: Add:**

Name: *vpn_client*

Input: *reject*

Output: *accept*

Intra zone forward: *reject*

Masquerading: *enabled*

MSS clamping: *enabled*

Allow forward from source zone: *lan*

Firewall - Zone Settings

General Settings Advanced Settings Conntrack Settings

This section defines common properties of "this new zone". The *input* and *output* options set the default policies for traffic entering and exiting the zone. The *intra zone forward* option describes the policy for forwarded traffic between different networks within the zone. *Covered networks* specifies which available networks are covered by this zone.

Name	<input type="text" value="vpn_client"/>
Input	<input type="text" value="reject"/>
Output	<input type="text" value="accept"/>
Intra zone forward	<input type="text" value="reject"/>
Masquerading	<input checked="" type="checkbox"/> Enable network address and port translation IPv4 (NAT). Typically enabled on the <i>wan</i> zone.
MSS clamping	<input checked="" type="checkbox"/>
Covered networks	<input type="text" value="wg_proton_nl: [icon]"/>

The options below control the forwarding policies between this zone (this new zone) and other zones. *Destination zones* cover forwarded traffic from other zones **targeted at this new zone**. The forwarding rule is *unidirectional*, e.g. a forward from *wan* to *lan* as well.

Allow forward to <i>destination zones</i> :	<input type="text" value="unspecified"/>
Allow forward from <i>source zones</i> :	<input type="text" value="lan [icon]"/>

If your VPN provider also supports **IPv6** (with ULA addresses) then on Advanced tab:
IPv6 Masquerading: enable

[General Settings](#) [Advanced Settings](#) [Conntrack Settings](#)

The options below control the forwarding policies between this zone (vpn_client) and other zones. *Destination zones* cover for match forwarded traffic from other zones **targeted at vpn_client**. The forwarding rule is *unidirectional*, e.g. a forward from lan to lan as well.

Covered devices	<div>unspecified</div> <div>Use this option to classify zone traffic by raw, non</div>
Covered subnets	<div></div> <div>Use this option to classify zone traffic by source c</div>
IPv6 Masquerading	<div><input checked="" type="checkbox"/></div> <div>Enable network address and port translation IPv6</div>
Restrict to address family	<div>IPv4 and IPv6</div>
Restrict Masquerading to given source subnets	<div>0.0.0.0/0</div>
Restrict Masquerading to given destination subnets	<div>0.0.0.0/0</div>

etc/config/firewall:

config zone

```
option name 'vpn_client'
option input 'REJECT'
option output 'ACCEPT'
option forward 'REJECT'
option masq '1'
option mtu_fix '1'
list network 'wg_proton_n1'
option masq6 '1'
```

To prevent traffic going out of the wan (the Killswitch) **Edit** the lan firewall zone and disable forwarding to wan and only allow forwarding to the vpn_client zone

Firewall - Zone Settings

General Settings Advanced Settings Conntrack Settings

This section defines common properties of "lan". The *input* and *output* options set the default policies for traffic entering and policy for forwarded traffic between different networks within the zone. *Covered networks* specifies which available networks:

Name	<input type="text" value="lan"/>
Input	<input type="text" value="accept"/>
Output	<input type="text" value="accept"/>
Intra zone forward	<input type="text" value="accept"/>
Masquerading	<input type="checkbox"/> Enable network address and port translation IP typically enabled on the <i>wan</i> zone.
MSS clamping	<input type="checkbox"/>
Covered networks	<input type="text" value="lan: 🌐"/>

The options below control the forwarding policies between this zone (lan) and other zones. *Destination zones* cover forwarded traffic from other zones **targeted at lan**. The forwarding rule is *unidirectional*, e.g. a forward from lan to wan does

Allow forward to *destination zones*:

/etc/config/firewall:

config zone

```
option name 'vpn_client'
option input 'REJECT'
option output 'ACCEPT'
option forward 'REJECT'
option masq '1'
option mtu_fix '1'
list network 'wg_proton_nl'
option masq6 '1' # only for IPv6
```

config forwarding

```
option src 'lan'
option dest 'vpn_client'
```

DNS Leak

On a typical phone (Android, iOS) or Windows the DNS is just set on the WireGuard interface and the DNS set is used after the tunnel is up.

On the OpenWRT router things are much more complicated (in contrast to other third party firmwares which handles this much better)

For some background reading: <https://github.com/egc112/OpenWRT-egc-add-on/tree/main/stop-dns-leak>

Be very careful with using the DNS server from your VPN provider as sole DNS server if that DNS server is not publicly available as you might end up in a catch 22 situation because the router must have the correct time (more or less) before it can connect and to get the correct time it needs DNS resolving which is not available.

So in that case instead of a domain for time server use IP addresses (System > System > Time Synchronization)

Of course if you stop the tunnel you do not have DNS resolution in that case you need a [scripting solution](#) to use the VPN DNS server after the tunnel is up.

WireGuard Client on a BridgedAP

If you want to setup a WireGuard Client on a BridgedAP, then be aware that normal traffic from your clients just bypasses your BridgedAP, so will not use the WireGuard tunnel unless you point the gateway of your clients to the BridgedAP (by using DNSMasq tagging with option 3 or iptables redirect) or setup a Guest Wifi on the BridgedAP.

In case of using a Guest wifi all clients using your Guest wifi will automatically use the WireGuard tunnel, so this is the more easier option.

First double check that you have setup your BridgedAP correctly see:

<https://openwrt.org/docs/guide-user/network/wifi/wifiextenders/bridgedap>

For a Guest Wifi on a BridgeAP see:

https://openwrt.org/docs/guide-user/network/wifi/guestwifi/guestwifi_dumbap

Setup the Guest wifi and **check that it is working without WireGuard!**

Note: do not forget to Enable Masquerading on the LAN zone

Setup a WireGuard client the regular way as described, but for firewall settings I recommend to use a separate zone for the WireGuard Interface ([Alternative Method](#)) as you need to enable MSS Clamping and then make a Forward rule to Forward from *guest* zone to *vpn_client* zone.

If you then remove the forwarding from guest zone to lan zone you will have an effective killswitch.

For IPv6 make sure your lan has an IPv6 with prefix delegated, the Guest interface will then get its own IPv6 address from Lan

Clients directly connected to the main router will bypass this router anyway but you can deal with this by manually setting the gateway on the client to point to your BridgedAP.

A second method is to have DNSMasq hand out a different gateway, this can be done per client with [DNSMasq tagging](#) with option 3(gateway), etc/config/dhcp"

```
config tag 'tag1'
    option dhcp_option '3,ipaddress-of-BridgedAP'
```

```
config host
    option name 'client1'
    option mac '00:21:63:75:aa:17'
    option ip '10.11.12.14'
    option tag 'tag1'
```

The third method is by using policy based routing on the main router:

Create a routing table with default route via the BridgedAP and also local route for br-lan e.g.:

```
ip route add default via 192.168.0.9 table 2 # 192.168.0.9 is my BridgeAP
ip route add 192.168.0.0/24 dev br-lan table 2
```

For IPv6 routing you need the IPv6 address of the br-lan interface of the BridgedAP see: [Setup IPv6 on a bridgedAP](#), you can get the address with ``ifstatus lan 6 | grep address`` or with `ifconfig`, you need the IPv6 address in the same subnet as the main router

This will get you a route like:

```
ip -6 route add default via 2001:8b11:234:1a33:a697:33ff:dcab:a3f2 dev br-lan table 2
```

Create a rule adding the lan clients involved to use this routing table 2 e.g.:

```
ip rule add 192.168.0.80 table 2 # 192.168.0.80 is the lan client I want to use the VPN
```

For IPv6 create the same rule with the IPv6 address of your client, unfortunately Windows uses its Temporary IPv6 address unless this is disabled and as it is temporary this is not a solid solution so disable the use of private IPv6 addresses e.g.:

```
ip -6 rule add from 2001:1ba2:236:a100::6f1 table 2
```

Make sure "Invalid traffic" is allowed or SNAT traffic from the LAN clients (e.g. 192.168.0.80) coming out of br-lan otherwise traffic can be blocked as there is asymmetric routing.

Asking for Help

You can ask for help at the [OpenWRT forum](#).

If you do, it helps if we can have a look at your configs, so please connect to your OpenWRT device [using ssh](#) and copy the output of the following commands and post it on the forum using the "Preformatted text </>" button



Remember to redact keys, passwords, MAC addresses and any public IP addresses you may have:

```
ubus call system board
cat /etc/config/network
cat /etc/config/wireless
cat /etc/config/firewall
wg show
```

To view the log for errors:

```
logread | grep -E -i 'netifd|wireguard'
```

References

<https://openwrt.org/docs/guide-user/services/vpn/wireguard/start>

<https://openwrt.org/docs/guide-user/services/vpn/wireguard/basics>

<https://openwrt.org/docs/guide-user/services/vpn/wireguard/client>

<https://protonvpn.com/support/openwrt-wireguard>

Miscellaneous

Setup IPv6 on a bridgedAP

/etc/config/network:

```
config interface 'lan6'
    option ifname '@lan'
    option proto 'dhcpv6'
    #option reqprefix 'no'
```

```
option reqprefix '62'    #for ipv6 guest interface
#option sourcefilter '0' # disable source routing for WG server routing of IPv6
```

Prevent Mullvad from hijacking your DNS

<https://schnerring.net/blog/use-custom-dns-servers-with-mullvad-and-any-wireguard-client/>

Port forwarding via Proton VPN with natpmc

<https://protonvpn.com/support/port-forwarding-manual-setup/>

<https://forum.openwrt.org/t/openwrt-protonvpn-and-pmp-port-forwarding-for-remote-ssh-access/229367>

MTU size problems (no traffic, hang, slow loading, no streaming media, bad VoIP, slow RDP)

The MTU (Maximum Transmission Units) is the maximum datagram size in bytes that can be sent unfragmented over a particular network path, so to have the highest throughput you want the highest value without fragmentation.

But if the MTU is too high and the packets fragment this will manifest as connections which hang during periods of active usage, or does not load the whole page when browsing. Or you can connect but not see or use streaming media (like an IP Camera) or your connection is unexpected slow, VoIP can also be affected.

In the log you can see messages like: read UDP [EMSGSIZE path-MTU=1388]: Message too long (code=90) but that is not always present.

To test for the highest value basically use ping from a client on your local LAN, search for the maximum packet size which can be send unfragmented , add 28 and that is your MTU value, see:

<https://hamy.io/post/000c/how-to-find-the-correct-mtu-and-mru-of-your-link/>

ICMP blackhole test to see if PMTUD is working:

<http://icmpcheck.popcount.org> or <http://icmpcheckv6.popcount.org/>

Packet loss test: <https://packetlosstest.com/>

Android, Windows and iOS can use their own defaults so when having problems connecting from Windows, Android or iOS try to delete the MTU entry in the conf file and let the OS itself decide what to use.

WireGuard Watchdog

<https://github.com/egc112/OpenWRT-egc-add-on/tree/main/wireguard-watchdog>

Purpose: WireGuard watchdog with fail-over, by pinging every x seconds through the WireGuard interface, the WireGuard tunnel is monitored.

In case of failure of the WireGuard tunnel the next tunnel is automatically started.

When the last tunnel has failed, the script will start again with the first tunnel.

So in case you have only one tunnel this is just a watchdog which restarts the one tunnel you have.

with prioritizing :

<https://forum.openwrt.org/t/bash-script-for-automatic-change-between-2-wireguard-tunnels/228696/11>

WireGuard Companion

<https://github.com/egc112/OpenWRT-egc-add-on/tree/main/wireguard-companion>

Purpose: Toggle WireGuard tunnels on/off, show status and log.

Custom user files for Azure, AWS etc

<https://forum.openwrt.org/t/policy-based-routing-pbr-package-discussion/140639/2051?u=egc>