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r/openwrt • 6 yr. ago

REDGuineaPig



OpenWRT WireGuard VPN Server Tutorial

Adapted from [this guide](#).

Introduction

I recently figured out how to set up a WireGuard VPN on my Raspberry Pi 3 running OpenWRT and I decided to write an up-to-date guide on how to do it. It should work on any device running a recent-ish build of OpenWRT/LEDE, provided you have enough storage space for it.

This will let you connect to your home network from anywhere, as well as route all your traffic through your home internet so you can avoid content filters at School/Work, as well as keeping your traffic encrypted.

I don't use IPv6 on my network so you'll have to figure that stuff out for yourself.

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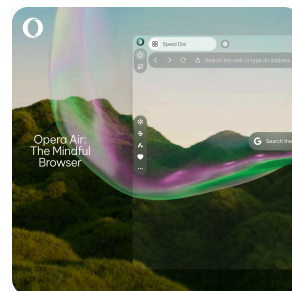
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Nice guide! I just went through this and definitely hit a few snags making it work. The way you've laid it out would have made it easier.

edit: The question below was before a correction in the guide.

One question - should Step 6.6 not have the tunnel IP for the client as the AllowedIPs entry (10.14.0.3/32 rather than 0.0.0.0/0)? I was under the impression that the zero IP was used on the client side to force all local traffic through the tunnel, while the client static IP was used on the server side to permit only connections from that endpoint.

Or is what you're doing more of a point-to-point configuration rather than point-to-lan/wan?

My config uses two OpenWRT routers to create a lan-to-lan tunnel. The goal is to enable tunneling to my home network while away from home in a client-transparent way to reduce exposure to untrusted wifi connections, and also stream US media sources while traveling abroad. So the SSID on the travel router is the same as I use at home, meaning that devices don't know they're off-lan. The first goal is good, but I have a DNS leak I'm troubleshooting which would break the second. The client isn't using the DNS assigned in the WG config, rather it's using the server assigned in the hotspot/wifi DHCP config. Still trying to figure that out.

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**Swedophone** • 6y ago

I don't understand the port forward. Are you forwarding a port on your Raspberry Pi 3 to itself?

If you want to allow incoming traffic you would normally add a rule on the page Firewall -Traffic Rule, see section "Open ports on router".

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instead.



Ocean572 • 2y ago

Is it possible to create a separate wireless interface just for VPN traffic? Hence, if you connect to the ssid "vpn" all traffic will be routed through the vpn. However, you still have guest, iot, and main networks that are separate and not routed through the vpn.

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tacticaltaco • 6y ago

This is fantastic! Wireguard is somewhat lacking in good examples/tutorials, especially ones for OpenWRT. Thanks for writing this up.



REDGuineaPig OP • 6y ago

No problem!

I wrote this up after trying casept's guide and running into a whole bunch of snags.

I intended to write it as a guide for myself in case I needed to do it again in the future but I decided to chuck it on reddit for you guys :)



banqueiro_anarquista • 6y ago

How much data can you push thru the VPN interface before you become CPU constrained?

+ 4 more replies



cdg77 • 6y ago

Confirmed working, thanks!!

PS: I spent all day yesterday trying to make this work on my own, today I found your post and "bam!" I can ping.

+ 1 more reply

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Thanks for the write up! I'm trying to follow the steps, but was unsuccessful. I currently have an OpenWRT router added to my existing network, 192.168.1.1. The original modem/router is combined and sitting on 192.168.0.1. Not sure if I should move the OpenWRT to the other network first or am good to leave as is. Secondly, I have followed the [steps outlined here](#), and now any device, when connected to one of the networks on the network is using a VPN connection to a Mullvad public server using Wireguard. I think my questions are:

- Can I add your steps alongside the firewall and interface settings I currently have? My goal is to connect from my phone into my network when not home, but also (if possible) use the VPN connection for all traffic on this network
- Am I wrong to have Mullvad in the mix and should ditch connecting in that manner?

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