What is WireGuard?

WireGuard is a fairly new Layer 3 VPN protocol that runs on top of UDP. It's main selling points are that it is very **easy** to configure and also very **fast** (It can easily reach speeds in excess of 1 Gbit/s without much resource utilization).

It is available for every major operating system you can find in the wild (namely Windows, Linux (and its derivatives) and Mac OS)

To understand how simple the configuration is, have a look at the following snippet:

```
[Interface]
Address = 10.0.0.1/24
ListenPort = 51820
PrivateKey = 4BhSWsplXEJrqSDvb/kIy6FzfXkimLF4b3h/nrz/vkY=


[Peer]
PublicKey = EzEyCarbQdia+D0u7aRvSDL4hz3YCQQjgvOVGBEPBDo=
AllowedIPs = 10.0.0.2/32


[Peer]
PublicKey = dq/DbVCb40ZjuKZZv1EhTH/4FQRGme4pe07B5CIvuVo=
AllowedIPs = 10.0.0.3/32


[Peer]
PublicKey = UDIqfBJAKc1YmpvRxDSM4tc3ZrbzNHduEqVqZmG4CXU=
AllowedIPs = 10.0.0.4/32
```

That small little amount of config would allow 3 clients to connect to the WireGuard "server" with their own matching private keys!

Want to use WireGuard for your own network? Great! See the rest of this documentation here!

Revision #6
Created 25 November 2022 09:45:33 by Beako
Updated 6 December 2022 07:35:16 by Dominik