# Wireguard

## Keys

| Key Type | Server | Client |
|---|---|---|
| **Server Private Key** | [Interface] | |
| **Server Public Key** | | [Peer] |
| **Client Private Key** | | [Interface] |
| **Client Public Key** | [Peer] | |
| **Preshared Key** | [Peer] | [Peer] |

## Server

apt install wireguard

cd /etc/wireguard

umask 077

wg genkey | tee server-private.key | wg pubkey > server-public.key

wg genpsk > preshared.key

wg genkey | tee client-private.key | wg pubkey > client-public.key

cat server-private.key client-public.key preshared.key > wg0.conf

cat client-private.key server-public.key preshared.key > client.txt

rm server-private.key server-public.key client-private.key client-public.key

nano wg0.conf


Note! Peer IP needs to be allowed!

systemctl enable wg-quick@wg0

systemctl start wg-quick@wg0

## Client

apt install wireguard

apt install resolvconf

cd /etc/wireguard

scp root@CLIENT:/etc/wireguard/wg0.conf .

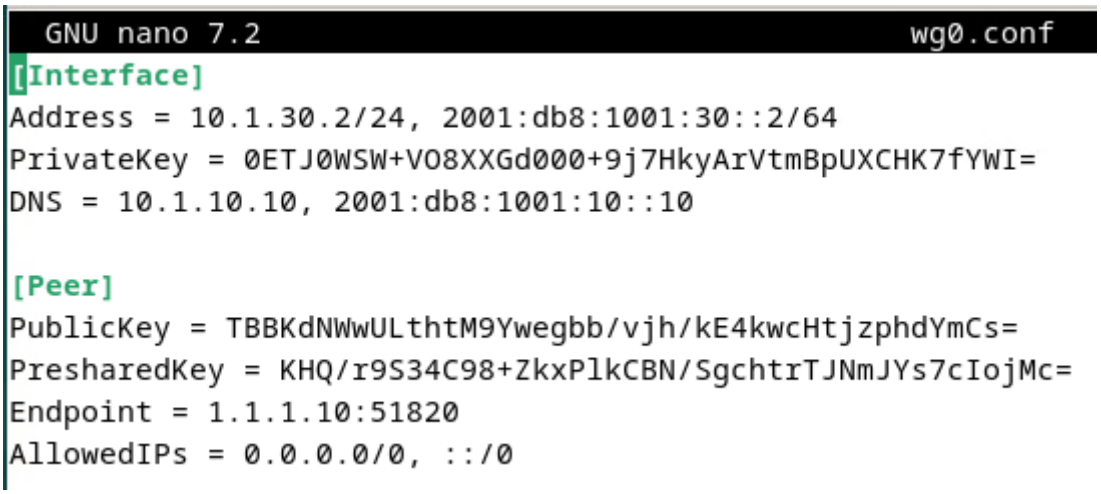
scp root@CLIENT:/etc/wireguard/client.txt .

chmod 600 wg0.conf

cat client.txt >> wg0.conf

rm client.txt

nano wg0.conf




Note! Peer IP needs to be allowed!

Activate it using wg-quick:

systemctl enable wg-quick@wg0

systemctl start wg-quick@wg0

Activate it using Network Manager:

nmcli connection import type wireguard file /etc/wireguard/wg0.conf

nmcli connection up wg0

Best practice is to go back to the server and:

rm /etc/wireguard/client.txt