Настройка VPN-сервера Wireguard

1. Установка Wireguard и дополнительных пакетов

```
×
 root@vm335185: ~
root@vm335185:~# sudo apt install wireguard-tools mawk grep iproute2 grencode
Reading package lists... Done
Building dependency tree
Reading state information... Done
grep is already the newest version (3.4-1).
4 1.0.20200513-1~20.04.2 [83.3 kB]
Fetched 131 kB in 0s (622 kB/s)
Selecting previously unselected package libgrencode4:amd64.
(Reading database ... 105426 files and directories currently installed.)
Preparing to unpack .../libqrencode4_4.0.2-2_amd64.deb ...
Unpacking libqrencode4:amd64 (4.0.2-2) ...
Selecting previously unselected package grencode.
Preparing to unpack .../qrencode_4.0.2-2_amd64.deb ...
Unpacking grencode (4.0.2-2) ...
Selecting previously unselected package wireguard-tools.
Preparing to unpack .../wireguard-tools_1.0.20200513-1~20.04.2_amd64.deb ...
Unpacking wireguard-tools (1.0.20200513-1~20.04.2) ...
Setting up libqrencode4:amd64 (4.0.2-2) ...
Setting up grencode (4.0.2-2) ...
Setting up wireguard-tools (1.0.20200513-1~20.04.2) ...
wg-quick.target is a disabled or a static unit, not starting it.
```

2. Загрузка скрипта easy-wg-quick (https://github.com/burghardt/easy-wg-quick)

```
X
root@vm335185: ~
Setting up grencode (4.0.2-2) ...
Setting up wireguard-tools (1.0.20200513-1~20.04.2) ...
wg-quick.target is a disabled or a static unit, not starting it.
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libc-bin (2.31-Oubuntu9.2) ...
root@vm335185:~# wget https://raw.githubusercontent.com/burghardt/easy-wg-quick/master
/easy-wg-quick
--2022-06-14 01:17:40-- https://raw.githubusercontent.com/burghardt/easy-wg-quick/mas
ter/easy-wg-quick
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.111.133, 18
5.199.109.133, 185.199.108.133, ...
Connecting to raw.githubusercontent.com (raw.githubusercontent.com)|185.199.111.133|:4
43... connected.
HTTP request sent, awaiting response... 200 OK
Length: 16956 (17K) [text/plain]
Saving to: 'easy-wg-quick'
easy-wg-quick
                    in 0.01s
2022-06-14 01:17:40 (1.40 MB/s) - 'easy-wg-quick' saved [16956/16956]
```

3. Установка разрешения на запуск файла

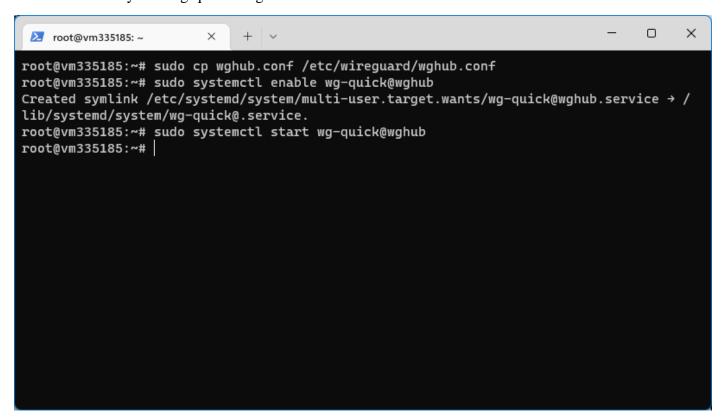
```
×
 root@vm335185: ~
                            + ~
wg-quick.target is a disabled or a static unit, not starting it.
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...
root@vm335185:~# wget https://raw.githubusercontent.com/burghardt/easy-wg-quick/master
/easy-wg-guick
--2022-06-14 01:17:40-- https://raw.githubusercontent.com/burghardt/easy-wg-quick/mas
ter/easy-wg-guick
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.111.133, 18
5.199.109.133, 185.199.108.133, ...
Connecting to raw.githubusercontent.com (raw.githubusercontent.com) 185.199.111.133:4
43... connected.
HTTP request sent, awaiting response... 200 OK
Length: 16956 (17K) [text/plain]
Saving to: 'easy-wg-quick'
easy-wg-quick
                     100%[============] 16.56K --.-KB/s
                                                                         in 0.01s
2022-06-14 01:17:40 (1.40 MB/s) - 'easy-wg-quick' saved [16956/16956]
root@vm335185:~# chmod +x easy-wg-quick
root@vm335185:~#
```

4. Запуск easy-wg-quick

```
X
 root@vm335185: ~
root@vm335185:~# ./easy-wg-quick
No extnetif.txt... creating one!
No extnetip.txt... creating one!
No intnetmtu.txt... creating one!
No intnetmask.txt... creating one!
No intnetdns.txt... creating one!
No intnetaddress.txt... creating one!
No intnetallowedips.txt... creating one!
No fwtype.txt... creating one!
No sysctltype.txt... creating one!
Looks like you have IPv6 available. Enabling IPv6 in tunnels!
No ipv6mode.txt... creating one!
No intnet6mask.txt... creating one!
No intnet6dns.txt... creating one!
No intnet6address.txt... creating one!
No seqno.txt... creating one!
No portno.txt... creating one!
No wghub.key... creating one!
No wghub.conf... creating one!
Wireguard hub address is 194.87.49.19:13077 on eth0.
Note: customize [Interface] section of wghub.conf if required!
```



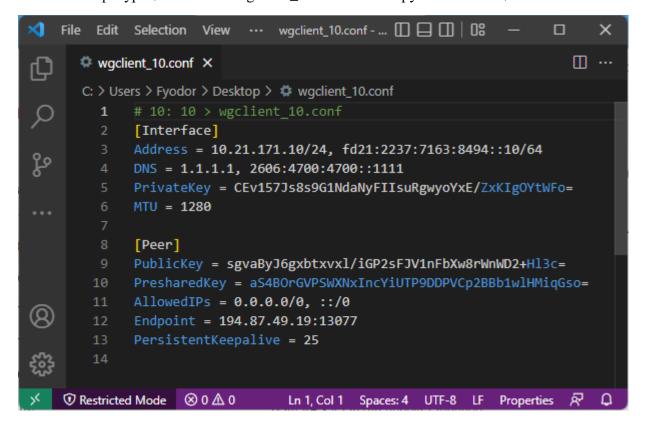
5. Включение службы wg-quick@wghub



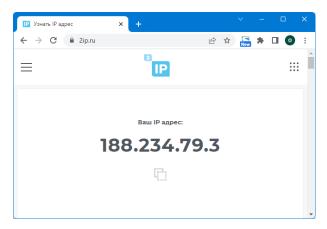
6. Просмотр состояния службы

```
×
                            + | ~
 root@vm335185: ~
wg-quick@wghub.service - WireGuard via wg-quick(8) for wghub
    Loaded: loaded (/lib/systemd/system/wg-quick@.service; enabled; vendor preset: e>
    Active: active (exited) since Tue 2022-06-14 01:20:50 MSK; 1min 2s ago
       Docs: man:wg-quick(8)
            man:wg(8)
            https://www.wireguard.com/
             https://www.wireguard.com/quickstart/
             https://git.zx2c4.com/wireguard-tools/about/src/man/wg-quick.8
             https://git.zx2c4.com/wireguard-tools/about/src/man/wg.8
    Process: 37224 ExecStart=/usr/bin/wg-quick up wghub (code=exited, status=0/SUCCES>
   Main PID: 37224 (code=exited, status=0/SUCCESS)
Jun 14 01:20:49 vm335185 wg-quick[37224]: [#] ip link set mtu 1280 up dev wghub
Jun 14 01:20:49 vm335185 wg-quick[37224]: [#] iptables -t mangle -A POSTROUTING -p tc≥
Jun 14 01:20:49 vm335185 wg-quick[37224]: [#] ip6tables -t mangle -A POSTROUTING -p t
Jun 14 01:20:49 vm335185 wg-quick[37224]: [#] iptables -t nat -A POSTROUTING -o eth0 >
Jun 14 01:20:49 vm335185 wg-quick[37224]: [#] iptables -A FORWARD -i wghub -j ACCEPT
Jun 14 01:20:49 vm335185 wg-quick[37224]: [#] ip6tables -A FORWARD -i wghub -j ACCEPT
Jun 14 01:20:49 vm335185 wg-quick[37224]: [#] ip6tables -t nat -A POSTROUTING -o eth0>
Jun 14 01:20:50 vm335185 wg-quick[37224]: [#] sysctl -q -w net.ipv4.ip_forward=1
lines 1-20
```

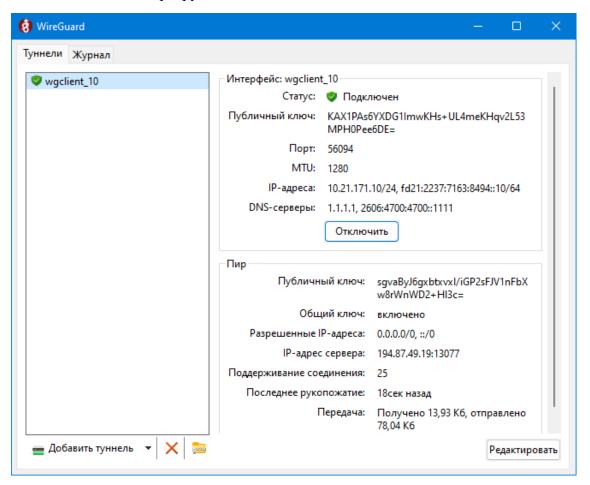
7. Файл конфигурации клиента wgclient_10.conf был загружен с помощью WinSCP.



- 8. Установка клиента Wireguard
- 9. Просмотр текущего ІР-адреса



10. Подключение к серверу



10. Соединение осуществляется через VPN-сервер

