Hi,

I use nm-openvpn.

If I specify remote=gate.opensuse.org, it defaults to IPv6 - that's very nice, but connection attempts time out and fail:

```
Jun 11 13:56:42 dreamland NetworkManager[5713]: <info> [1654948602.2096] vpn[0x55b40661c150,f54e8de7-c5fd-4de6-a574-d0e45cd0987c,"Heroes"]: starting openvpn
Jun 11 13:56:42 dreamland NetworkManager[5713]: <info> [1654948602.2099] audit: op="connection-activate" uid="54e8de7-c5fd-4de6-a574-d0e45cd0987c" name="Heroes" pid=1799 uid=1000 result="success"
Jun 11 13:56:42 dreamland NetworkManager[5882]: 2022-06-11 13:56:42 WARNING: Compression for receiving enabled. Compression has been used in the past to break encryption. Sent packets are not compressed unless "allow-compression yes" is also set.
```

If I force it to use IPv4 and specify remote=195.135.221.151, connection attempts succeed immediately:

```
Jun 11 13:58:59 dreamland NetworkManager[5882]: OpenVPN 2.5.6 x86_64-suse-linux-gnu [SSL (OpenSSL)] [LZO] [LZ4] [EPOLL] [PKCS11] [MH/PKTINFO] [AED] built on Mar 16 2022
```

If I force it to use IPv4 and specify remote=195.135.221.151, connection attempts succeed immediately:

```
If I force it to use IPv4 and specify remote=195.135.221.151, connection attempts succeed immediately:
```
Jun 11 13:58:59 dreamland nm-openvpn[6208]: WARNING: No server certificate verification method has been enabled. See http://openvpn.net/howto.html#mitm for more info.
Jun 11 13:58:59 dreamland nm-openvpn[6208]: TCP/UDP: Preserving recently used remote address: [AF_INET]195.135.221.151:1194
Jun 11 13:58:59 dreamland nm-openvpn[6208]: UDP link local: (not bound)
Jun 11 13:58:59 dreamland nm-openvpn[6208]: NOTE: UID/GID downgrade will be delayed because of --client, --pull, or --up-delay
Jun 11 13:59:00 dreamland nm-openvpn[6208]: Initialization Sequence Completed

I am able to connect to other OpenVPN gateways over IPv6 just fine.

Best,
Georg

History
#1 - 2022-06-11 14:27 - pjessen
- Status changed from New to Workable
- Private changed from Yes to No

Looking at scar.i.o.o, it is not listening on 1194 on ipv6, only ipv4.

#2 - 2022-06-11 14:37 - pjessen
pjessen wrote:

Looking at scar.i.o.o, it is not listening on 1194 on ipv6, only ipv4.

It ought to be easily fixed, by amending /etc/openvpn/heroes_udp.conf to say "local scar.opensuse.org". I might try that later, right now I have to go shopping :-)

#3 - 2022-06-11 14:54 - bmwiedemann
I found it helped to change

- local 195.135.221.151
- proto udp
+proto udp6

#4 - 2022-06-11 15:08 - crameleon
Removing 'local' would make it listen on all interfaces - if this is intended.

#5 - 2022-06-11 19:31 - bmwiedemann
- Status changed from Workable to In Progress
- % Done changed from 0 to 80

It does not hurt to listen on all interfaces, as we already listened on the Internet - the most hostile of all the interfaces.

Btw: I could not find this in salt. Is that config not tracked in there?
My understanding of the openvpn manpage is that udp covers IPv4 and IPv6, while udp6 means IPv6 only. Are you sure that proto udp6 is a good idea? (The actual question is: does openvpn still listen on IPv4 with this option?)

Regarding salt: no, unfortunately nobody salted scar yet.

To connect to your server over ipv6 (ipv6 transport) use this on both sides:
proto udp6

In my test, "udp" only listened on IPv4 and udp6 listened on both IPv4 and IPv6.

On the server side, specifying "proto" twice doesn't actually do anything - "proto udp6" will make it bind a dual-stack socket to handle v4+v6, overwriting the "proto udp" in the previous line.