VPN-Connection Remote Station «Rigi» for Windows 11 and iPhone Standard VPN-Client

Raspberry Pi 3
IP: 192.168.2.235 (fix)

SoftEther VPN Server v4.41

Start / Stop VPN Server:
sudo vpnserver start
sudo vpnserver stop

192.168.2.235 (fix)

Bintec RS123 Firewall VPN Rules:
Port 1701 UDP (l2tp)
Port 500 UDP (ipsec)
Port 4500 UDP (ipsec-nat)

192.168.2.1

192.168.2.200 (fix)

Flexradio 6700

Other LAN-Devices:
- Node Red Dashboard
- Relay control
- Temp control
- Rotor control
- PA control
- etc.

Advantages of the VPN-Solution:
- Indpendent from Flexradio SmartLink Server Service (AWS-Cloud)
- Fast & reliable
- Under own control
- Low maintenance
- No SmartLink Login anymore

Notebook and PC with Windows 11
- Standard Windows 11 and iPhone VPN-Client
- Connection over 4G, 5G, WiFi or LAN

HB9RYZ / HB9CQK mobile

4G/5G, WiFi

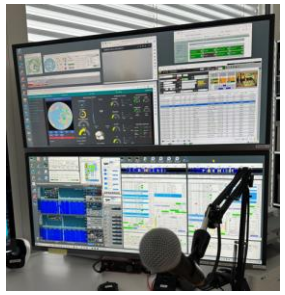
VPN-Tunnel

VPN-Tunnel

VPN-Tunnel

HB9RYZ, Home-Shack

High-End PC
AMD Ryzen 9 7900
64 GB Ram



Local LAN: 192.168.1.x

HB9CQK, Home-Shack

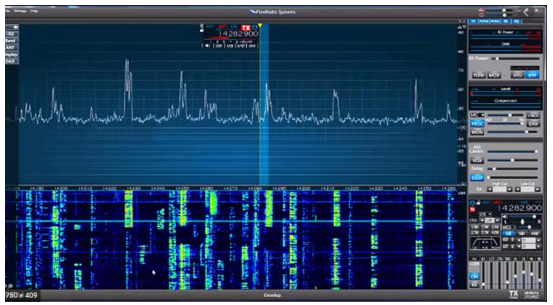
High-End PC
AMD Ryzen 9 7900
64 GB Ram

Local LAN: 192.168.1.x

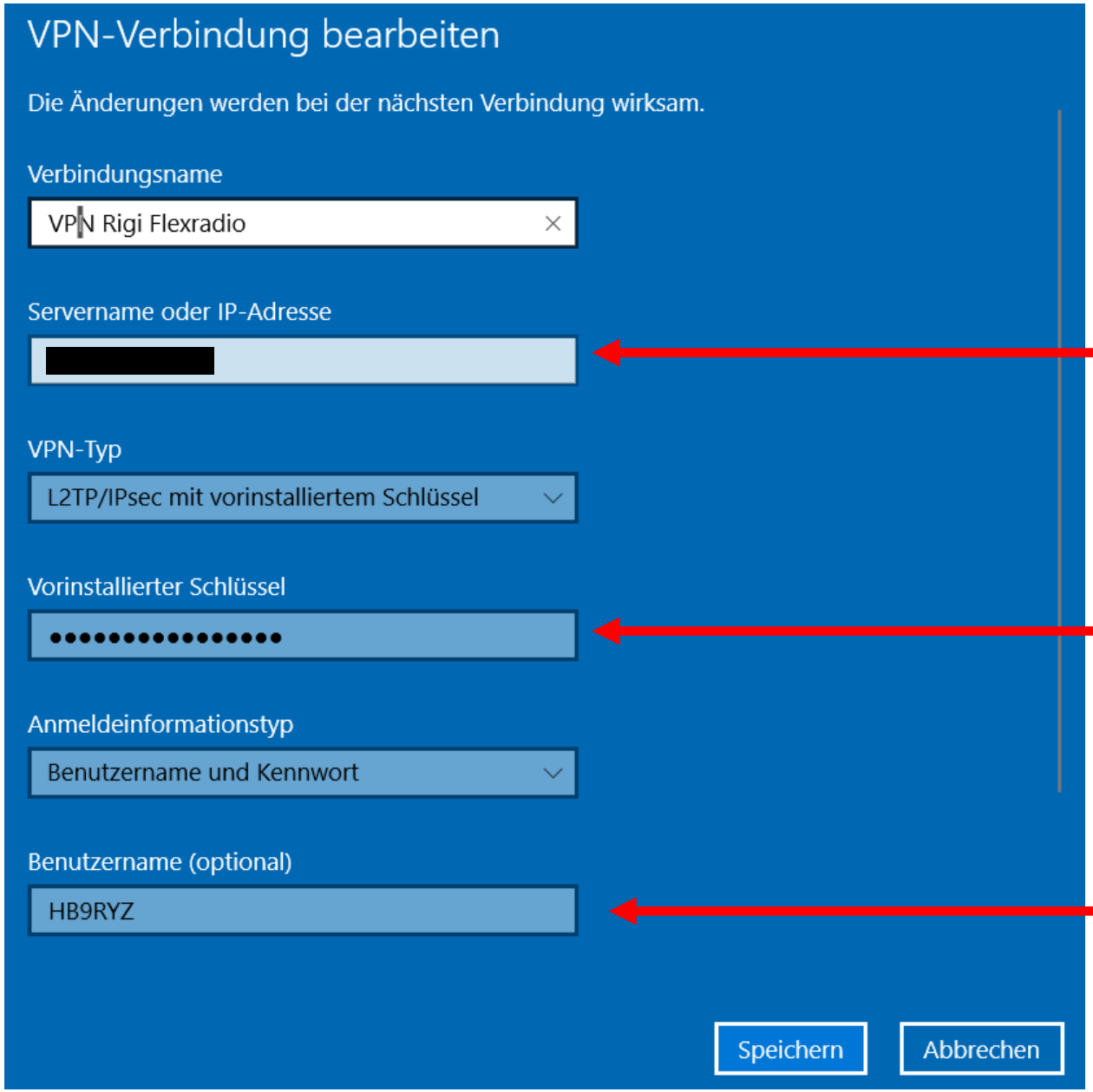
INTERNET

VPN-Tunnel

SmartSDR Software v3.4.23



VPN-Connection with the Windows 11 Standard VPN-Client



External IP-Address of the remote Flexradio location

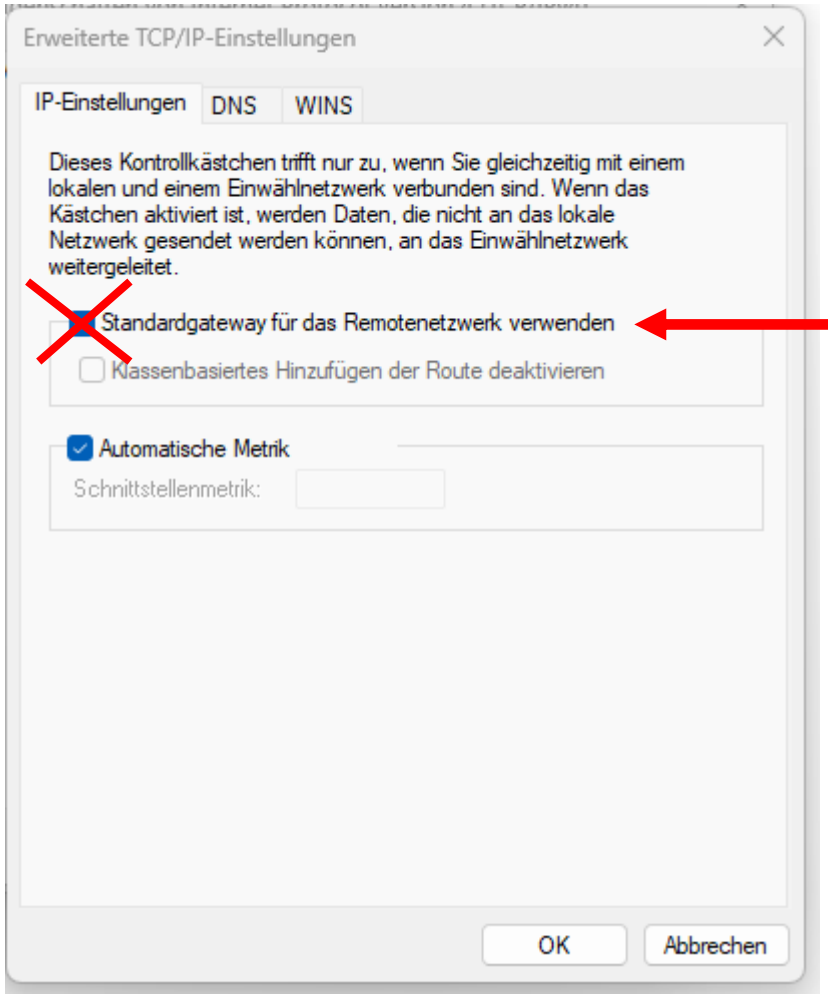
Prr-defined Pre-Share Key: «Your password»

Users for the VPN-Client Identifikation

Click on safe

Windows 11 VPN Client IPv4 Settings

HB9RYZ
13.9.2023
www.hb9ryz.ch



Remove the checkmark from "Use default gateway for remote network".

Softether VPN Konfiguration

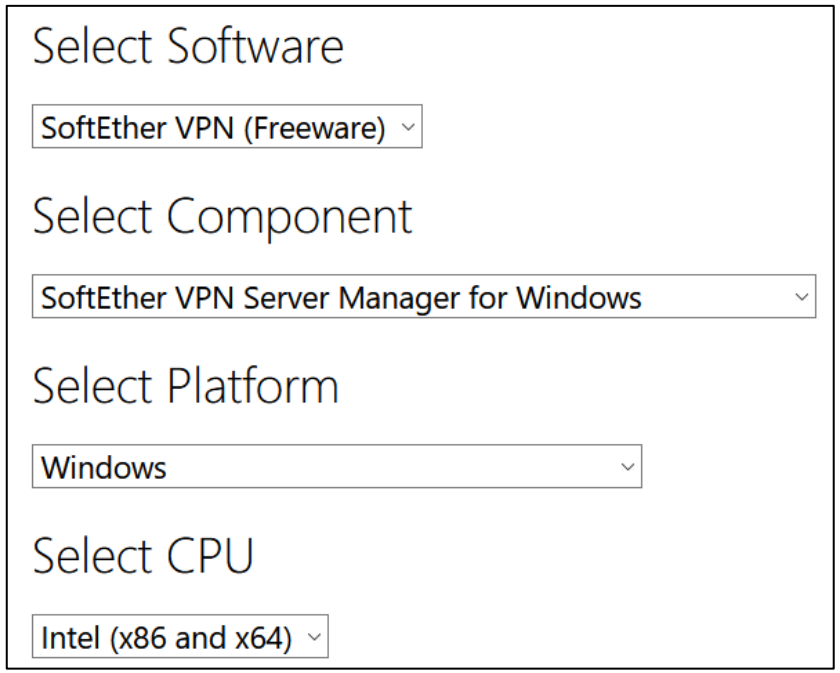
SoftEther VPN Server based on Raspberry Pi3

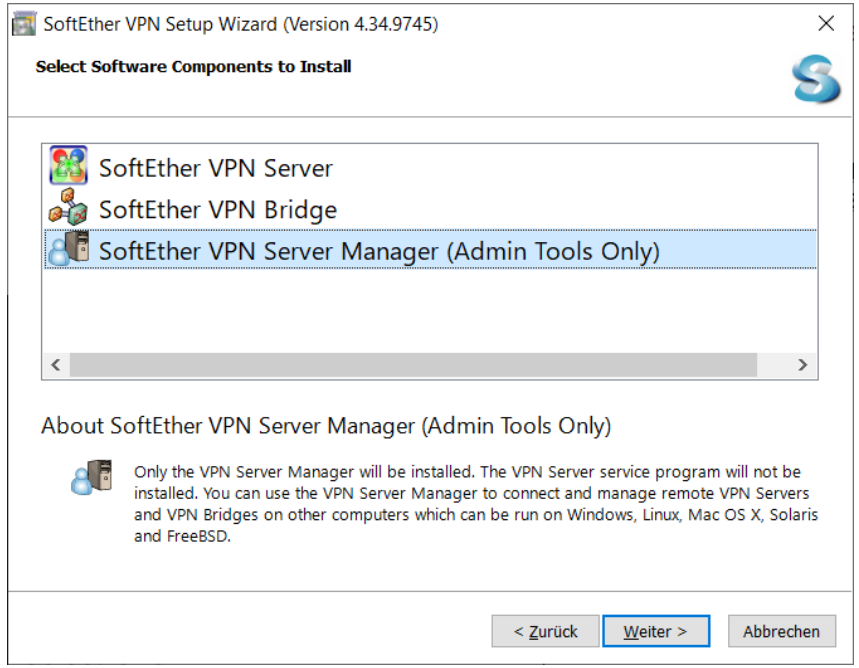
HB9RYZ
13.9.2023
www.hb9ryz.ch

Softether Download Link: www.softether.org

To manage the VPN-Server installed on the Raspberry Pi3 or Pi4, you need to install the **«SoftEther VPN Server Manager for Windows»** in order to use the Windows 10/11 built-in VPN-Client.

1. Install SoftEther VPN Server on your Raspberry Pi3 or Pi4
2. Start SoftEther VPN Server Manager for Windows to configure the VPN-Server
3. Configure the VPN-Ports (4500 UDP, 4500 UDP, 1701 UDP on the Firewall where your VPN-Server is installed)
4. Establish the VPN-Connection from your Windows 10/11 PC

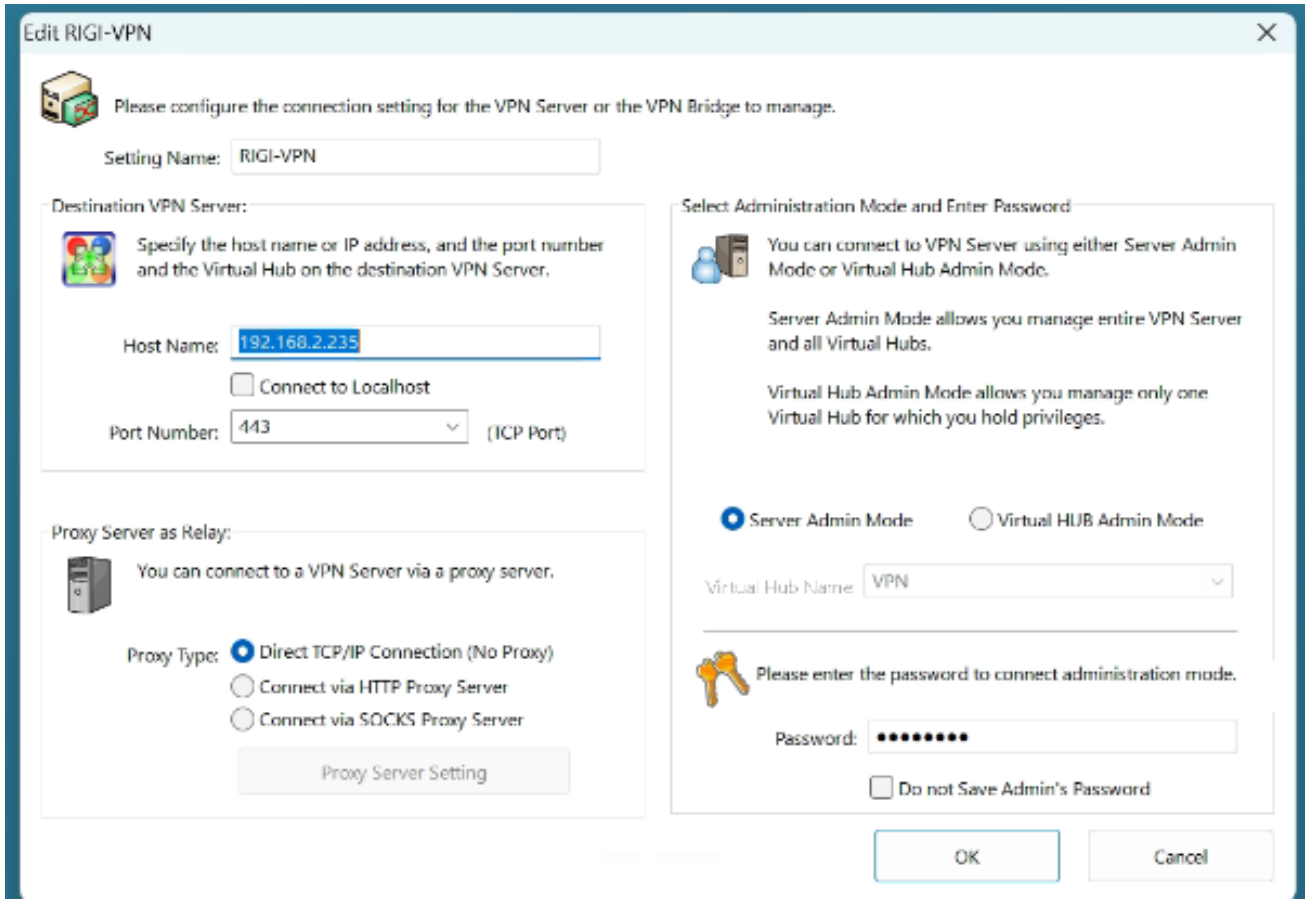




SoftEther VPN Server based on Raspberry Pi3

HB9RYZ
13.9.2023
www.hb9ryz.ch

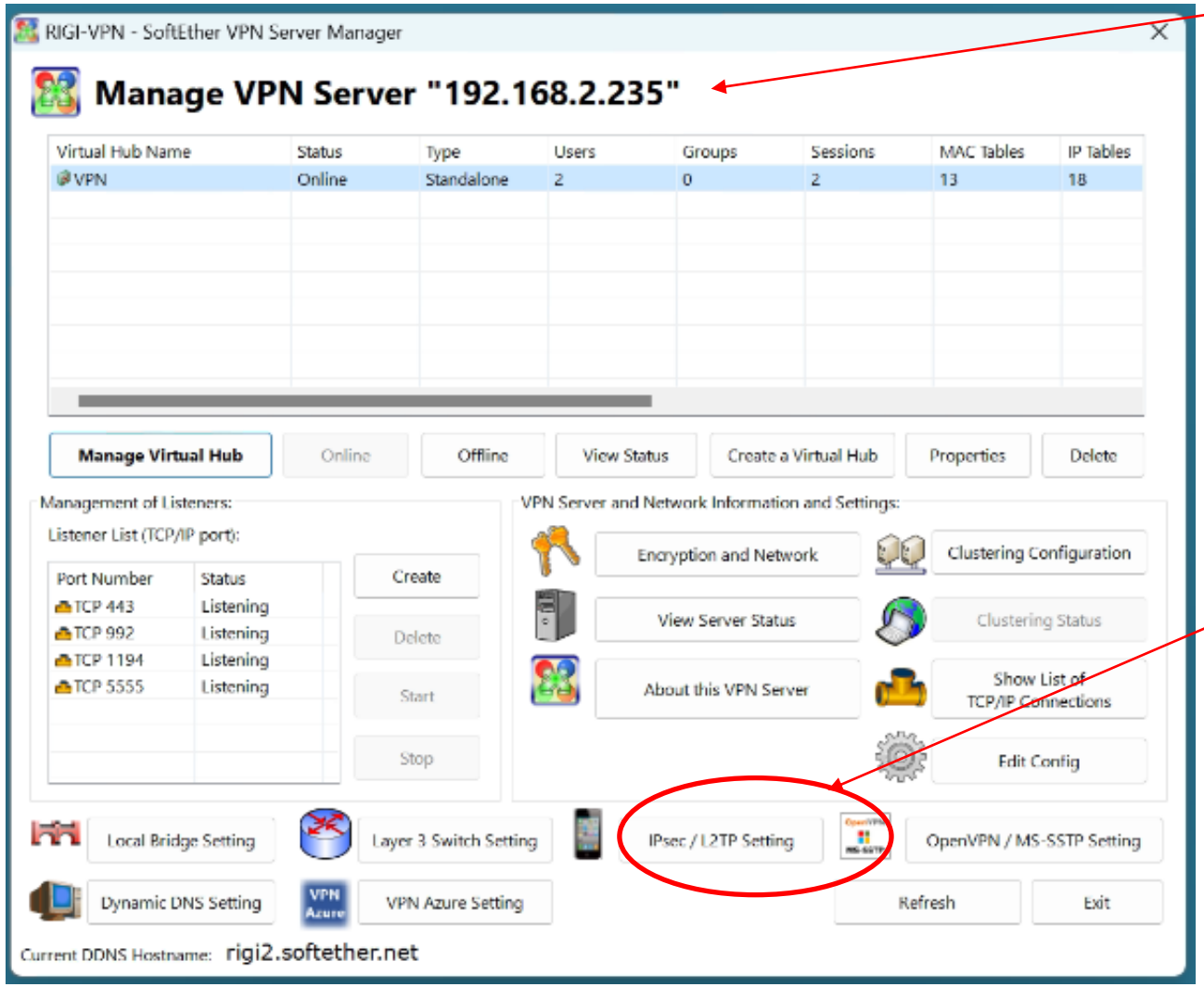
Softether Version: v4.41

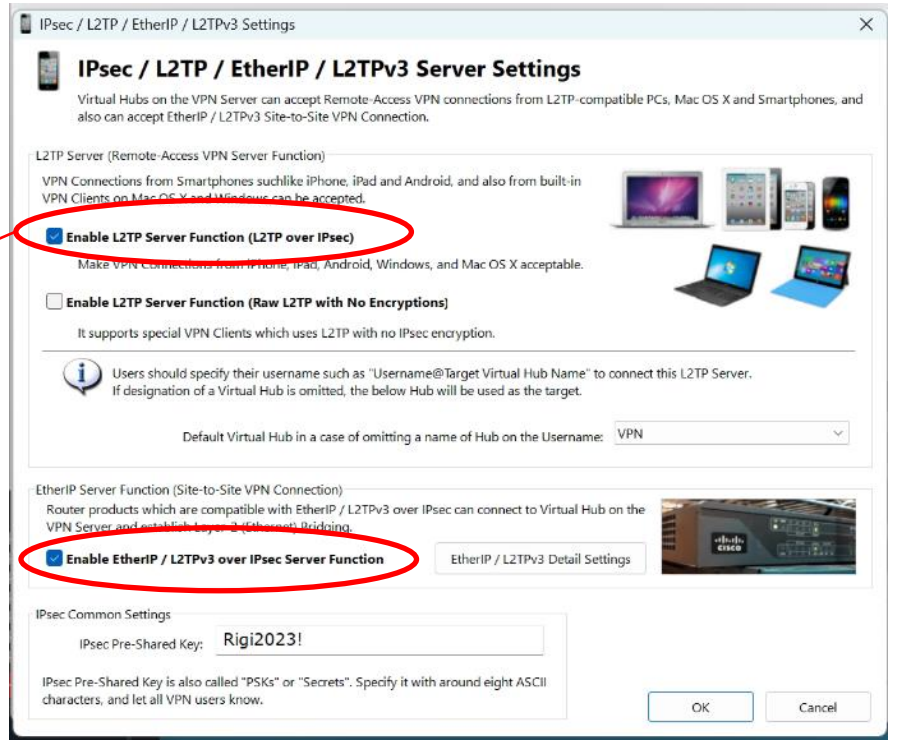


SoftEther VPN Server based on Raspberry Pi3 – VPN Server Manager

Start **«SoftEhter VPN Server Manager (Admin Tools Only)».**

Raspberry Pi3 with VPN-Server installed





SoftEther VPN Server based on Raspberry Pi3 – VPN Server Manager

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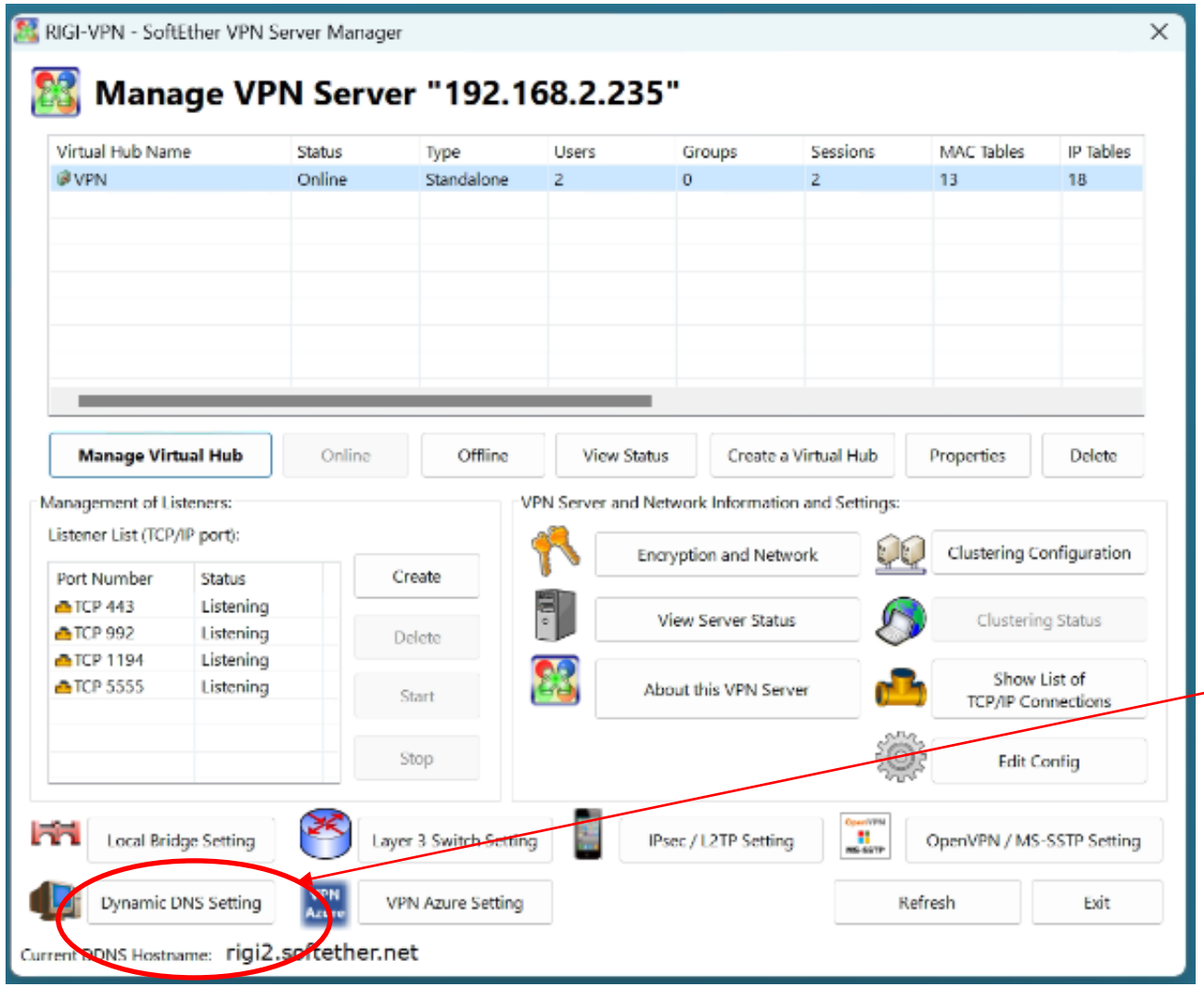
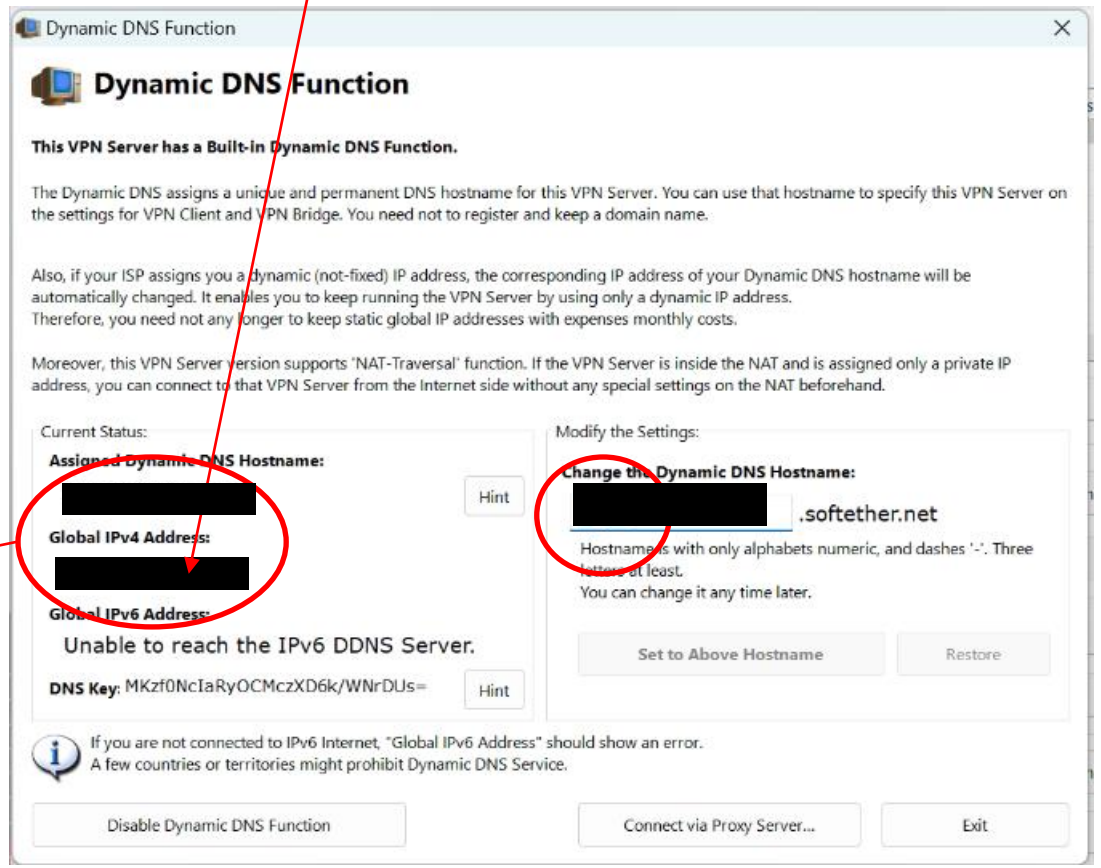
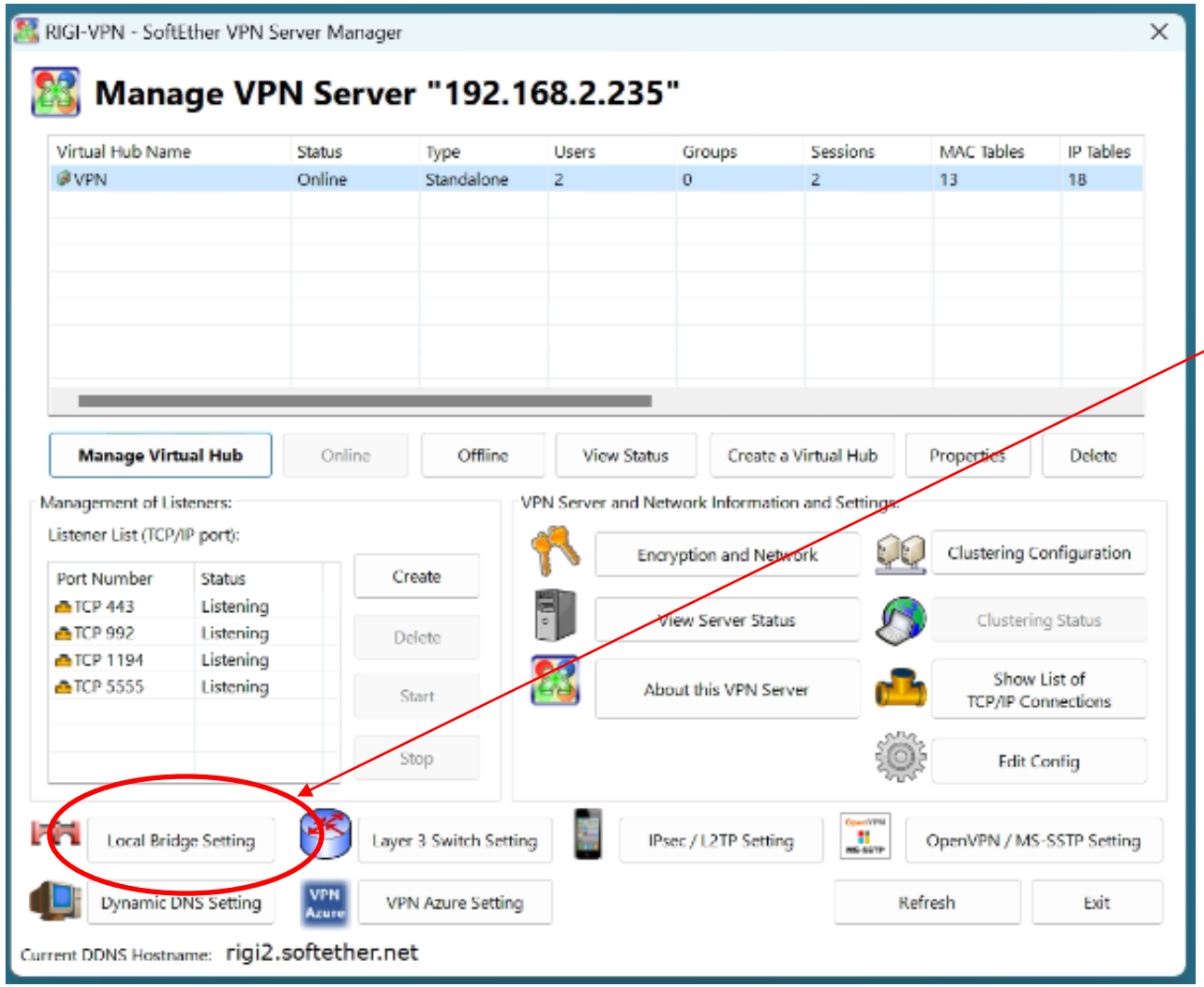


IP-Address of your remote site

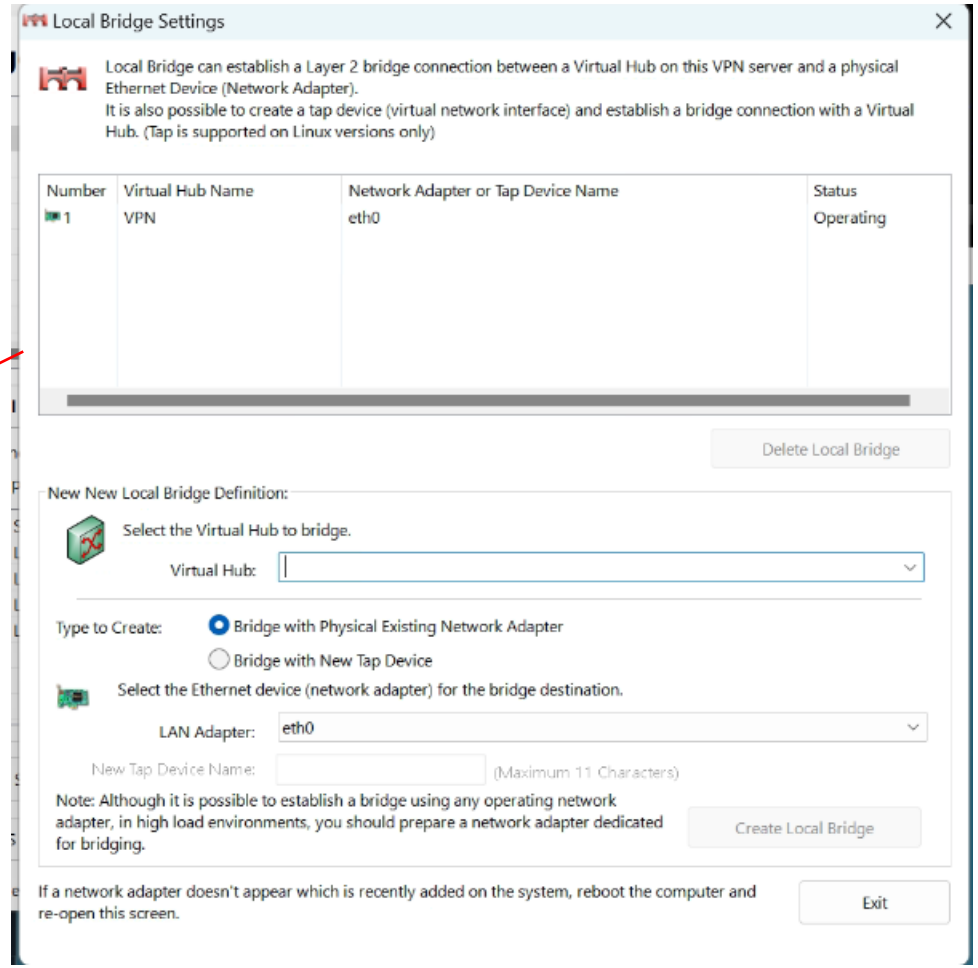


SoftEther VPN Server based on Raspberry Pi3 – VPN Server Manager

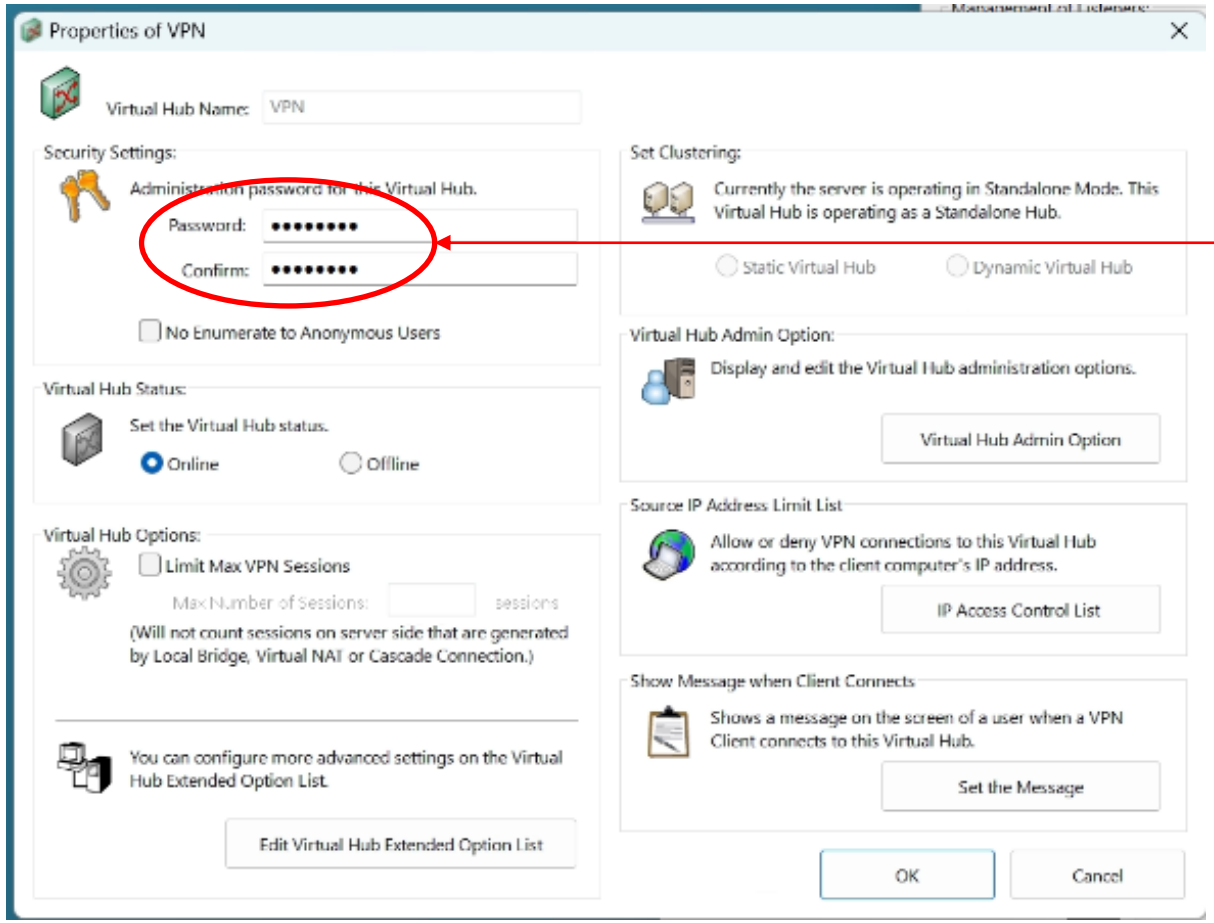
Start **«SoftEhter VPN Server Manager (Admin Tools Only)».**



Very important: Set «Local Bridge Mode»



SoftEther VPN Server based on Raspberry Pi3 – VPN Properties

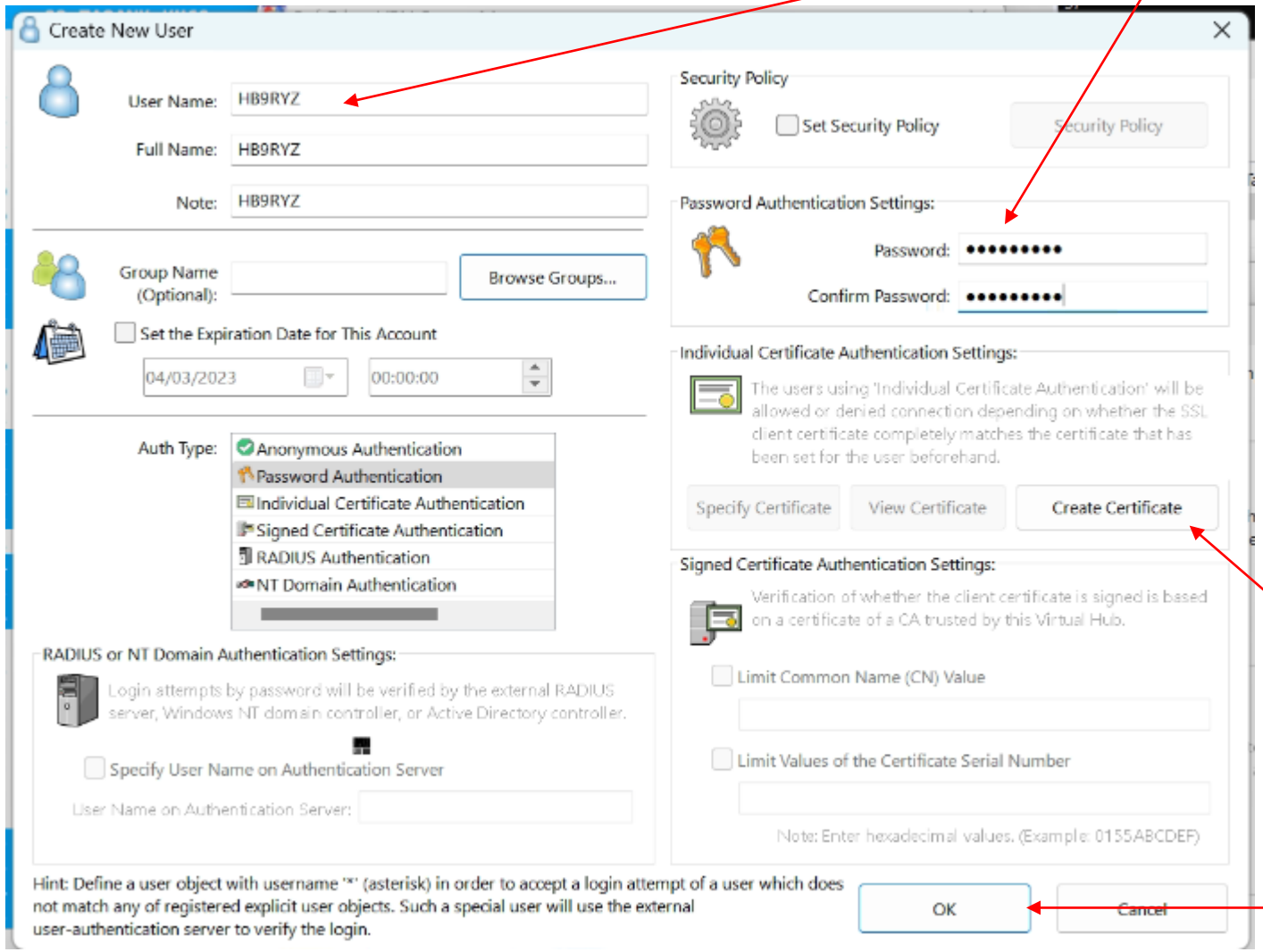


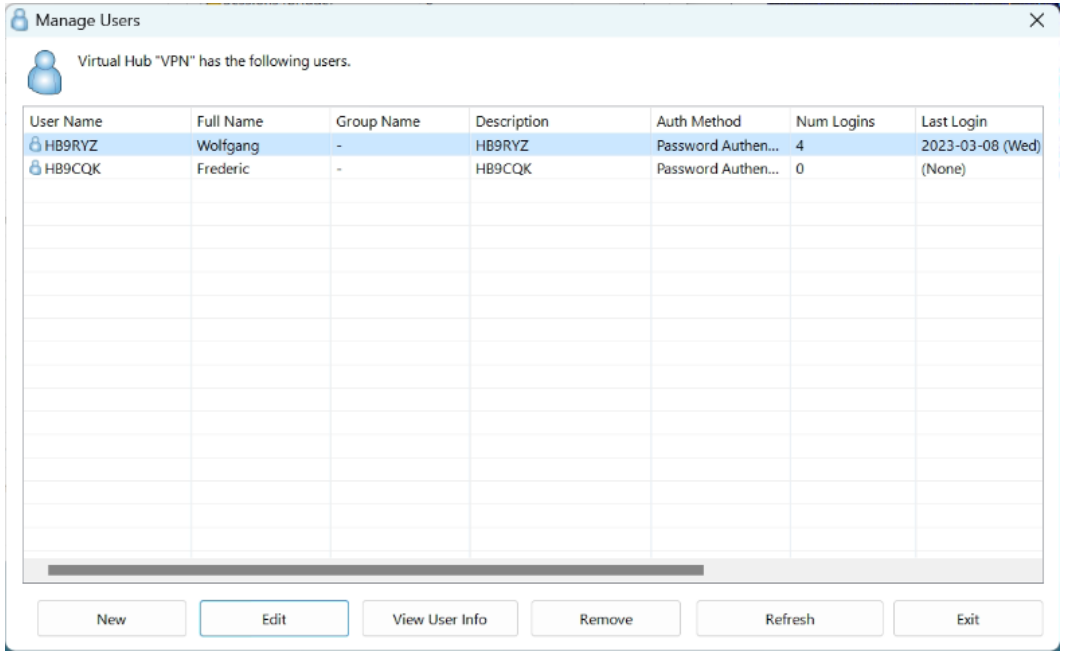
Admin Password

SoftEther VPN Server based on Raspberry Pi3 – VPN Server Manager

Start **«SoftEhter VPN Server Manager (Admin Tools Only)».**

VPN-User Password





Do not use!

Important:
keep all other settings «Default» as it is!

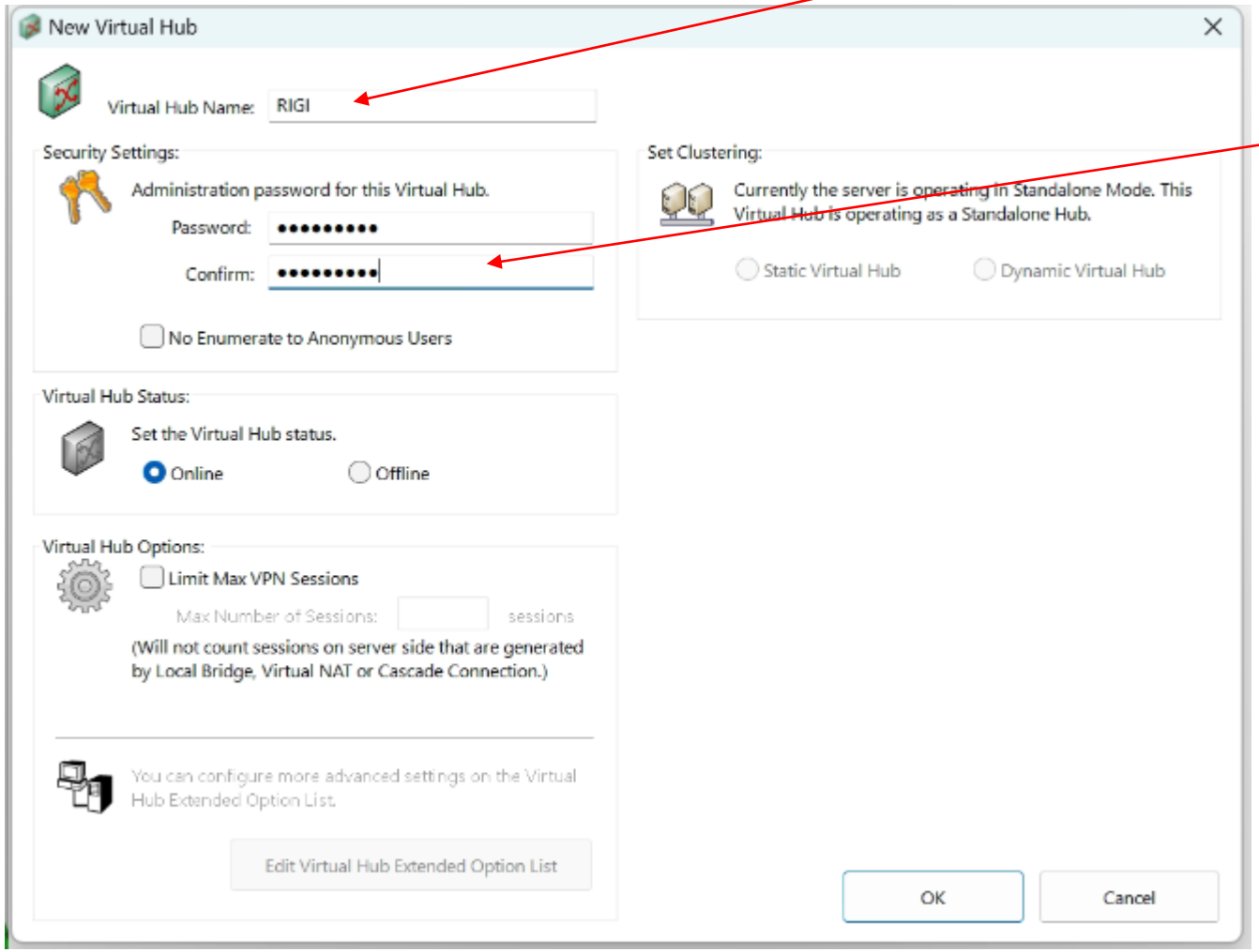
OK, to create the User

SoftEther VPN Server based on Raspberry Pi3 – VPN Server Manager

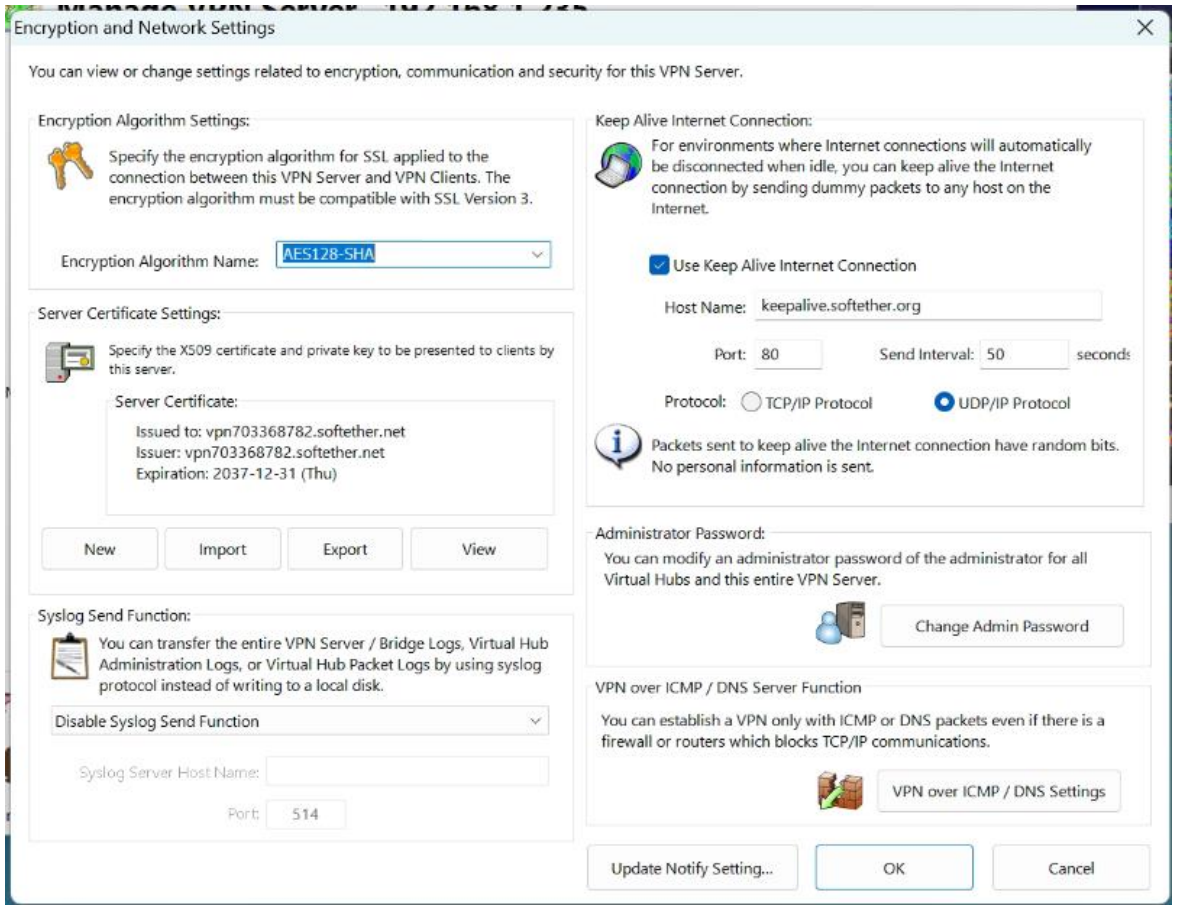
Start **«SoftEhter VPN Server Manager (Admin Tools Only)».**

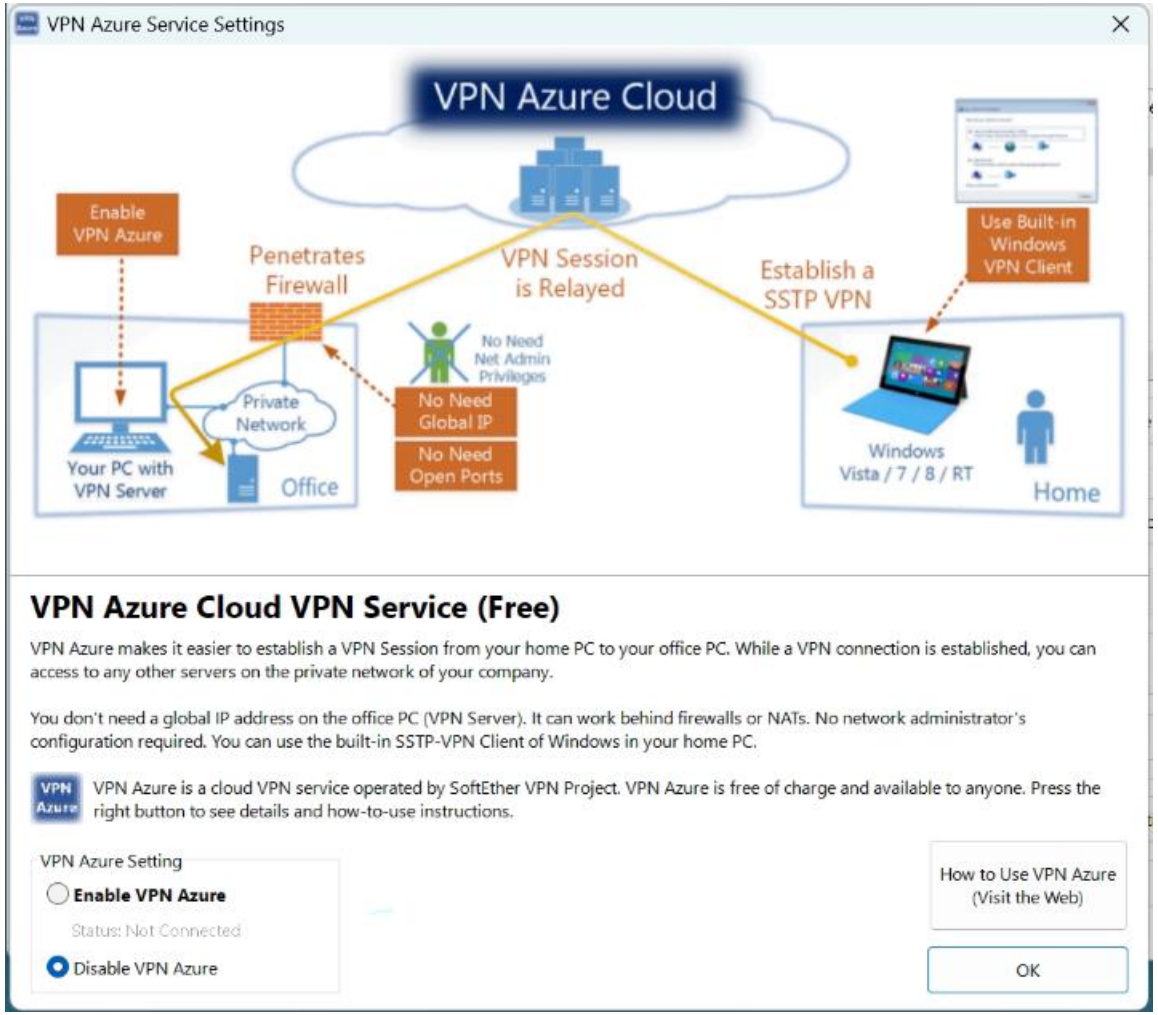
Virtual Hub Name = RIGI

Virtual Hub Admin Passwort



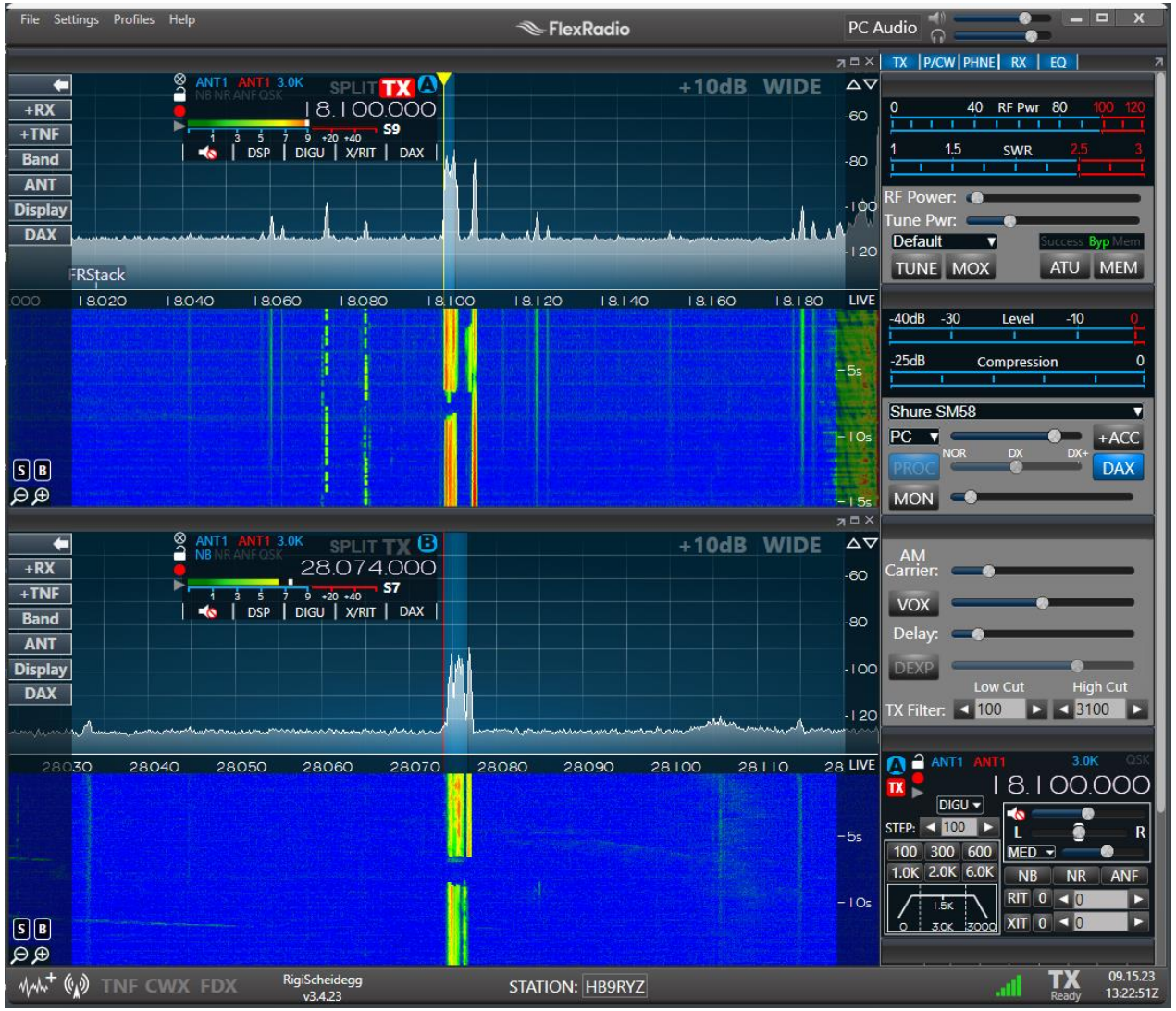
SoftEther VPN Server based on Raspberry Pi3 – VPN Windows 10/11 Client





SoftEther VPN Server based on Raspberry Pi3 – VPN Windows 10/11 Client

As soon you are connected with the VPN-Server, you can start **SmartSDR v3.4.23**



As soon as there are two VPN connections or one VPN connection and one SmartLink connection, "**multiFLEX**" appears at the bottom of the SmartSDR taskbar.

We need the stable SmartSDR version v3.4.23 for concurrent multiuser operation to avoid audio jitter in the signal using SSB or FT8