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



VPN-Connection with the Windows 11 Standard VPN-Client



Erweiterte TCP/IP-Einstellungen	×	
IP-Einstellungen DNS WINS Dieses Kontrollkästchen trifft nur zu, wenn Sie gleichzeitig mit einem lokalen und einem Einwählnetzwerk verbunden sind. Wenn das Kästchen aktiviert ist, werden Daten, die nicht an das lokale Netzwerk gesendet werden können, an das Einwählnetzwerk weitergeleitet. Standardgateway für das Remotenetzwerk verwenden Kassenbasiertes Hinzufügen der Route deaktivieren Automatische Metrik Schnittstellenmetrik:		Remove the checkmark from "Use default gateway for remote network".
OK Abbrect	hen	

Softether VPN Konfiguration



SoftEther VPN Server based on Raspberry Pi3

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.

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

Select Software	SoftEther VPN Setup Wizard (Version 4.34.9745) Select Software Components to Install	×
SoftEther VPN (Freeware) ~		
Select Component	SoftEther VPN Server SoftEther VPN Bridge	
SoftEther VPN Server Manager for Windows		
Select Platform	<	>
Windows	About SoftEther VPN Server Manager (Admin Tools Only) Only the VPN Server Manager will be installed. The VPN Server service program v installed. You can use the VPN Server Manager to connect and manage remote V	will not be 'PN Servers
Select CPU	and VPN Bridges on other computers which can be run on Windows, Linux, Mac C and FreeBSD.)S X, Solaris
Intel (x86 and x64) \sim	< <u>Z</u> urück <u>W</u> eiter >	Abbrechen

SoftEther VPN Server based on Raspberry Pi3

Softether Version: v4.41





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

							Raspberry Pi3 with VPN-Server installed
RIGI-VPN - SoftEther V	PN Server Mana	^{ager} ver "192.1	68.2.235"	+		X	
Virtual Hub Name @ VPN	Status Online	Type Standalone	Users (2 (Groups Sessions D 2	MAC Tables 13	IP Tables 18	
							IPsec / L2TP / EtherIP / L2TPv3 Settings
Manage Virtual Hul Management of Listeners: Listener List (TCP/IP port)	Online	Offline	View Status	Create a Virtual Hub ork Information and Settings	Properties	Delete	 IPsec / L2TP / EtherIP / L2TPv3 Server Settings Virtual Hubs on the VPN Server can accept Remote-Access VPN connections from L2TP-compatible PCs, Mac OS X and Smartphones, and also can accept EtherIP / L2TPv3 Site-to-Site VPN Connection. L2TP Server (Remote-Access VPN Server Function) VPN Connections from Smartphones suchlike iPhone, iPad and Android, and also from built-in VPN Clients on Mac OS X and Wiledows can be accepted.
Port Number Statu TCP 443 Liste TCP 992 Liste	s ning	Create	The Encryp	vtion and Network	Clustering Con	figuration Status	Control Connections from Prince, Pract, Android, Windows, and Mac OS X acceptable. Enable L2TP Server Function (Raw L2TP with No Encryptions)
TCP 1194 Liste TCP 5555 Liste	ning	Start	About	t this VPN Server	Show Lis TCP/IP Conn	ections	Users should specify their username such as "Username@Target Virtual Hub Name" to connect this L2TP Server. If designation of a Virtual Hub is omitted, the below Hub will be used as the target.
Local Bridge Setti	ng 隆	Stop Layer 3 Switch Setting	g 🚦 IPsec	/L2TP Setting	Edit Con	fig STP Setting	EtherIP / L2TPv3 over IPsec Server Function EtherIP / L2TPv3 Over
Uynamic DNS Sett	ing VPN Aure igi2.softethe	VPN Azure Setting			Refresh	Exit	IPsec Common Settings IPsec Pre-Shared Key: Rigi2023! IPsec Pre-Shared Key is also called "PSKs" or "Secrets". Specify it with around eight ASCII characters, and let all VPN users know.

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

Virtual Hub Name	Status	Type	Users	Groups	Sessions	MAC Tables	IP Tables	
Ø VPN	Online	Standalone	2	0	2	13	18	
								Upnamic DNS Function
								Dynamic DNS Function
								This VPN Server has a Built-in Dynamic DNS Function.
								The Dynamic DNS assigns a unique and permanent DNS hostname for this VPN Server. You can use that hostname to specify this the settings for VPN Client and VPN Bridge. You need not to register and keep a domain name.
Manage Virtual Hub	Online	Offline	View Statu	s Create a	Virtual Hub	Properties	Delete	Also, if your ISP assigns you a dynamic (not-fixed) IP address, the corresponding IP address of your Dynamic DNS hostname will b automatically changed. It enables you to keep running the VPN Server by using only a dynamic IP address.
anagement of Listeners:			/PN Server and Ne	etwork Informatio	on and Settings:			Ineretore, you need not any priger to keep static global iP addresses with expenses monthly costs.
istener List (TCP/IP port):			K En	overtion and Net	work 🔒	Clustering C	onfiguration	address, you can connect to that VPN Server from the Internet side without any special settings on the NAT beforehand.
Port Number Status		Create		a ypdon and riek		- charactering c	or ingenetion	Current Status: Modify the Settings:
TCP 443 Listenir	g		8	View Server Statu	в 🖉	Clusterin	ng Status	Assigned Dynamic DNS Hostname: Change the Dynamic DNS Hostname:
TCP 1194 Listenir	9	Delete						Hint
TCP 5555 Listenir	9	Start	AL 🚵	out this VPN Ser	ver 🚺	Show TCP/IP Co	List of onnections	Global IPv4 Address: Hostname is with only alphabets numeric, and dashes
		Stop			1 Alexandre	Edit C	Config	Global JPv6 Address: You can change it any time later.
					4U			Unable to reach the IPv6 DDNS Server. Set to Above Hostname Re
Local Bridge Setting	- 🏹 L	iver 3 Switch Settin	g 🚺 IF	sec / L2TP Settin	g CperfVPM	OpenVPN / MS	-SSTP Setting	DNS Key: MKzf0NcIaRyOCMczXD6k/WNrDUs= Hint
				,	M5-621P			If you are not connected to IPv6 Internet, "Global IPv6 Address" should show an error.
						- for all	Exit	A few countries or territories might prohibit Dynamic DNS Service.
Dynamic DNS Setting	ALTE	VPN Azure Setting			F	kerresh	EXIL	

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



Very important: Set «Local Bridge Mode»

SoftEther VPN Server based on Raspberry Pi3 – VPN Properties



	VPN-User Passwol	C C Manage Users	VPN" has the follow	ing users.				
Create New User	/ ×			ing users.				
User Name: HB9RYZ	Security Policy	User Name	Full Name Wolfgang Frederic	Group Name - -	Description HB9RYZ HB9CQK	Auth Method Password Authen Password Authen	Num Logins 4 0	Last Login 2023-03-08 (We (None)
Note: HB9RYZ	Password Authentication Settings:	Ĩ.						
Group Name (Optional): Browse Group:	s Confirm Password:							
Auth Type: Anonymous Authentication	Individual Certificate Authentication Settings: The users using 'Individual Certificate Authentication' will be allowed or denied connection depending on whether the SSL client certificate completely matches the certificate that has been set for the user beforehand.							
Individual Certificate Authentication Signed Certificate Authentication	Specify Certificate View Certificate Create Certificate	n New	Edit	View U	ser Info Rem	Re	efresh	Exit
RADIUS Authentication MT Domain Authentication RADIUS or NT Domain Authentication Settings:	Signed Certificate Authentication Settings: Verification of whether the client certificate is signed is based on a certificate of a CA trusted by this Virtual Hub.			keer	Import all othe	ant: r setting	S	
Login attempts by password will be verified by the external RADIN server, Windows NT domain controller, or Active Directory contro	JS Limit Common Name (CN) Value	Do not us	e!	«[Default»	as it is!		
Specify User Name on Authentication Server	Limit Values of the Certificate Serial Number							
	Note: Enter hexadecimal values. (Example: 0155ABCDEF)							
Hint: Define a user object with username '*' (asterisk) in order to accept a lo	gin attempt of a user which does			araata tha	llcor			

Start "SoftEbtor VDN Sorver Manager (Admin Teals Only)"

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Start «SoftEhter VPN Server Manager (Ad	min Tools Only)». Virtual Hub	Name = RIGI
🕼 New Virtual Hub		×
Virtual Hub Name: RIGI		Virtual Hub Admin Passwort
Security Settings:	Set Clustering:	
Administration password for this Virtual Hub.	Currently the server is operating in Standalone Mode. Virtual Hab is operating as a Standalone Hub.	This
Password:		
Confirm:	Static Virtual Hub Opnamic Virtual Hul	b la
No Enumerate to Anonymous Users		
Virtual Hub Status:		
Set the Virtual Hub status.		
Online Offline		
Virtual Hub Options:		
Limit Max VPN Sessions		
Max Number of Sessions: sessions		
by Local Bridge, Virtual NAT or Cascade Connection.)		
Hub Extended Option List.		
Edit Virtual Hub Extended Option List		
	OK Cancel	

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

Tyption and Network Settings						
ou can view or change settings related to encryption, communication and sec	urity for this VPN Server.					
Encryption Algorithm Settings:	Keep Alive Internet Connection:					
Specify the encryption algorithm for SSL applied to the connection between this VPN Server and VPN Clients. The encryption algorithm must be compatible with SSL Version 3.	For environments where Internet connections will automatically be disconnected when idle, you can keep alive the Internet connection by sending dummy packets to any host on the Internet.					
Encryption Algorithm Name:	Use Keep Alive Internet Connection					
Server Certificate Settings:	Host Name: keepalive.softether.org					
Specify the X509 certificate and private key to be presented to clients by this server.	Port: 80 Send Interval: 50 seconds					
Server Certificate:	Protocol: O TCP/IP Protocol OUDP/IP Protocol					
Issued to: vpn703368782.softether.net Issuer: vpn703368782.softether.net Expiration: 2037-12-31 (Thu)	Packets sent to keep alive the Internet connection have random bits. No personal information is sent.					
New Import Export View	Administrator Password: You can modify an administrator password of the administrator for all Virtual Hubs and this entire VPN Server.					
Syslog Send Function: You can transfer the entire VPN Server / Bridge Logs, Virtual Hub Administration Logs, or Virtual Hub Packet Logs by using syslog	Change Admin Password					
protocol instead of writing to a local disk.	VPN over ICMP / DNS Server Function					
Disable Syslog Send Function V	You can establish a VPN only with ICMP or DNS packets even if there is a firewall or routers which blocks TCP/IP communications.					
Syslog Server Host Name:						
	VPN over ICMP / DNS Settings					
Port: 514						



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