# **HTTPS VPN Twin Server Quick Start Guide**

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# 1. Introduction

The HTTPS VPN Twin server solution is an innovative solution to add a VPN server in a private network over which you don't have administrative control, but to which you have physical access, or to add a VPN server in a private network that does not have public IP at all.

Both VPN devices provide WiFi hotspot. Therefore, any smart devices can use the VPN tunnel without a need to install VPN client software.

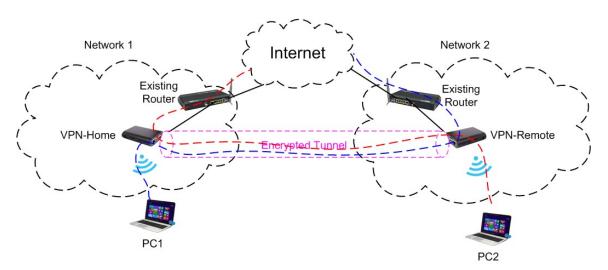


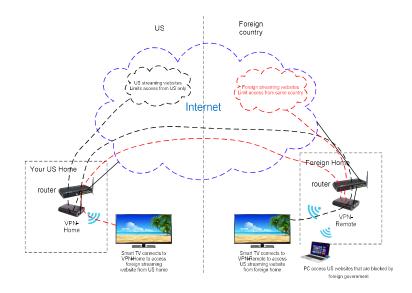
Figure 1 VPN Twin Server Working Model

### How It Works

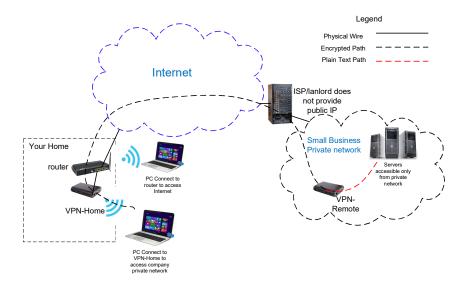
- Plug in the "VPN-Home" device in an existing router that has public IP.
- Configure the public IP of "VPN-Home" in "VPN-Remote" device.
- Plug in "VPN-Remote" device anywhere you want.
- An encrypted tunnel is created between "VPN-Home" and "VPN-Remote". Devices connected to "VPN-Home" WiFi can access the private network where "VPN-Remote" is. And device connected to "VPN-Remote" WiFi can access the home network. (Figure 1)

# Typical Use Cases

• Video streaming geo-restricted websites from your home country while you are in US.



• Add a VPN server in a network that does not have a public IP.



For questions, comments, supports or customizing solution, please contact us by email. vpn.everyone@gmail.com

## 2. Plug VPN Device in Router

- 1) Connect VPN-Home to wireless router by Ethernet cable
- 2) Connect USB cable to power up VPN-Home (Figure 2)



Figure 2 Connect VPN Device to Wireless Router

### NOTE:

The figure above is for *wiring* illustration purpose. Do NOT put VPN server on top (or close to the grill) of your router. Otherwise, the heat generated by your router may drive VPN server to overheat.

Note 1: Ethernet cable is an optional accessory.

**Note 2**: USB data sync cable is an optional accessory. Please re-use your USB cable for your old Android phones. Nowadays, every household has one or more retired Android phones, therefore USB cables. To save environment, we don't ship USB cables.

Note 3: The software only runs on the MicroSD card shipped.

**Note 4**: VPN-Home needs to reside on a network that has public IP. Check your wireless router for the WAN IP. If it's in format of *100.x.x.x, 10.x.x.x, 172.x.x.x or 192.168.x.x,* then your ISP does **not** give you public IP. That means VPN-Home won't work here.

## 3. Access VPN Device Configuration Web UI

### 3.1. Access Web UI by WiFi hotspot

VPN-Twin devices come with WiFi hotspot. Go to your iPhone WiFi setting screen. If you see "*vpneveryone.ddns.net*" in your network list, tap it to connect. The default password is 00000000

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	will be joined automa are available, you will network.	

Figure 3 Find vpneveryone.ddns.net WiFi hotspot

Note: The hotspot may complain about incorrect password. It may take up to 3 times to connect the WiFi hotspot. That is by design to avoid hacker guessing WiFi password.

After your iPhone successfully connects to "*vpneveryone.ddns.net*" WiFi hotspot, start web browser to access <u>http://192.168.10.1</u> web page. Use "*admin*" & "*vpneveryone*" without quote sign as username and password to login to VPN server web UI.

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Figure 4 Access VPN Server Web UI by Built-in WiFi Hotspot

### 3.2. Access Web UI by VPN Server IP

WiFi hotspot password/network name cannot be changed via WiFi connection. To change WiFi hotspot setting on VPN-Twin devices, you will need to login to device by Ethernet IP.

To find out what IP address the VPN device Ethernet port gets, you can login to your router via WiFi hotspot first. Then click *Network* tab. You will see screen like below.

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TX E	Bytes	1756847	
Router	Info		
+ WiFi Ho	otspot		
Back-to-Top			



Figure 5 VPN-Twin Device Ethernet IP

Then use that IP address (e.g. <u>http://192.168.2.138</u>) to access VPN device web page to change WiFi related setting.



Figure 6 Access VPN Device Web UI by VPN server IP

# 4. Configure VPN-Home Device

VPN-Home device can be plug-n-play out of box. We recommend that you try factory default setting first. After you get familiar with the device, you can change settings to fit your needs.

If your purchase the "Road Warrior Feature" software option, you can set up 5 username & password pairs for VPN clients to access VPN-Home network or VPN-Remote network from anywhere on internet.

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Figure 7 Configure VPN-Home Device

- Connect to VPN-Home WiFi hotspot (default network: *vpneveryone.ddns.net* with password 00000000)
- Click <u>VPN</u> tab
- Click +VPN Configuration ....
- [Option] Fill in 5 username & password pairs
- Click <u>Apply</u> button
- That's it!

**Note**: VPN-Remote & VPN-Home are always sold in pair. The random & unique security keys are generated and programmed at manufacturing time. One VPN-Remote and only talk to the VPN-Home device shipped together.

If there is VPN-Remote device paired, you can see the VPN tunnel information by clicking <u>+VPN Tunnel Status ...</u>

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Figure 8. VPN Tunnel Status UI on VPN-Home Device

Figure 8 above shows HTTPS VPN tunnel between VPN-Home and VPN-Remote devices. If your purchase includes "Road Warrior Feature", it shows the active road warrior VPN client list, too.

**Note**: The screenshot in Figure 8 is captured based on test lab. In real deployment, you should see a public IP instead of private IP in 192.168.x.x format.

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	1 UDP	19876 ==>	192.168.2.138:19876	'VPN- auto- forward' 0
	2 TCP	1234 ==>	192.168.2.138:1234	'VPN- auto- forward' 0
+ W	iFi Hot	spot		

Figure 9. Find VPN-Home Device Public IP

- Click <u>Network</u> tab
- Click <u>+Router Info</u> ....
- Write down the <u>*Public IP*</u> value on screen. You will need it to configure VPN-Remote Device.

**Note**: Figure 9 screenshot is based on our test lab. In your real deployment, the <u>*Public IP*</u> should match <u>*Router Uplink IP*</u>. Otherwise, VPN-Home device is not reachable from internet. Then VPN-Remote device won't be able to connect to VPN-Home device.

# 5. Configure VPN-Remote Device

Configuring VPN-Remote device is pretty much the same as configuring VPN-Home device except that you need to turn VPN on and put public IP of VPN-Home device in.

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	nnel Status nfiguration		
VPN on			
Apply	192.168.8.202		
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Figure 10 Configure VPN-Remote Device

- Connect to VPN-Home WiFi hotspot (default network: *vpneveryone.ddns.net* with password 00000000)
- Click <u>VPN</u> tab
- Click +VPN Configuration ...
- Click the switch next to <u>off</u> to turn VPN on
- Input the public IP of VPN-Home device in <u>Server IP</u> (refer to Figure 9)
- Click <u>Apply</u> button

# 6. Configure OpenVPN Clients

If you bought "Road Warrior Feature" software option when you order, you can use OpenVPN client to connect to VPN-Home device. This section shows you how to configure OpenVPN clients. It is super easy. In one sentence, import in your device, the OpenVpn configuration file generated by VPN-Home device.

## 6.1. Configure TLS VPN Client on Windows 7/10 PC

The commercial of-the-shelf free **OpenVPN client** can be used to create TLS VPN tunnel to TLS VPN server. Google "openvpn download" to find the software and install it on your PC.

VPN-Home device prepares the OpenVPN configuration file. You can download it from web UI page. Click <u>VPN</u> tab. Then click <u>+VPN Client Profile</u> ...

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OpenVPN	I Client: openv	pn-home.	ovpn	
Back-to-Top				



Figure 11 OpenVPN Client Configuration Prepared by VPN Server

Right click <u>openvpn-home.ovpn</u> link and save it at OpenVPN configuration directory *C:\Program Files\OpenVPN\config\*.

**Note 1**: C:\Program Files\OpenVPN\config\ may need administrator privilege to save file. **Note 2**: This openvpn-home.ovpn file is good for OpenVPN clients of all platforms (Windows, iOS, Android, MacBook)

1. From windows start menu, find "OpenVPN GUI" icon. Right click it and click "Run as administrator". (Figure 12).

Windows F	Open	
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Figure 12 Run OpenVPN GUI as administrator

There will be an icon that looks like a lock at bottom right corner of screen. (Figure 13)

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Figure 13 OpenVPN Icon in Task Bar

3. Right click on this lock-like icon and click "connect" on the menu. You will be asked for user name and password. Use one of the users you created on VPN server.

The factory default user is "test1" with password "vpneveryone" (without quote sign)

In a short moment, OpenVPN successfully creates VPN tunnel and assign the PC a virtual IP.

Now all your internet access will be through this OpenVPN tunnel.

## 6.2. Configure TLS VPN Client on iOS

First you need to install OpenVPN app on your iPhone/iPad.

After that, use your iPhone/iPad to access VPN server web UI.

• Tap <u>*VPN*</u> tab.

- Then tap +VPN Client Profile ....
- Then tap <u>openvpn-home.ovpn</u> link.
- Then follow red marks in the screenshots below

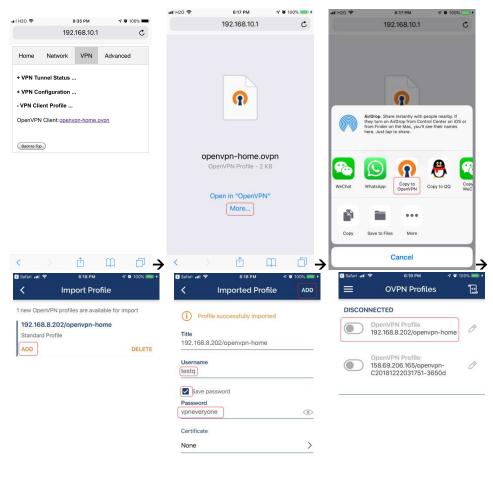


Figure 14 OpenVPN iPhone Client Screenshots

→

Note: Use the right username & password you set on HTTP server.

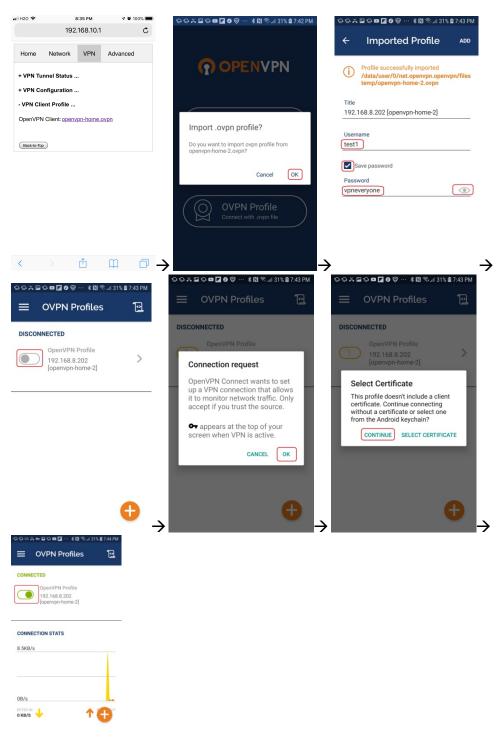
→

## 6.3. Configure TLS VPN Client on Android

It is pretty much the same as TLS VPN client setup in iOS.

First you need to install OpenVPN on Android phone/tablet. After that, use your Android device to access VPN server web UI.

- Tap <u>*VPN*</u> tab.
- Then tap +VPN Client Profile ....
- Then tap openvpn-home.ovpn link.
- Then follow red marks in the screenshots below





# 6.4. Configure TLS VPN Client on MacBook

Download the Tunnelblick disk image file (a ".dmg" file) from https://tunnelblick.net

Tunnelblick is the popular OpenVPN client. After installing tunnelblick, run it. Download openvpn-home.ovpn prepared by VPN server device Drag openvpn-home.ovpn to tunnelblick app. That's it!

## 7. Advanced Settings

Note: In very rare case that you will need to change advanced settings. If you are not very comfortable with computer networking, leave the setting as is.

After you login to the VPN server web UI, click <u>Advanced</u> tab to see the UI below. You can click **OK** to enter <u>Advanced</u> UI page.

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VPN Tunnel Status	- Advanced Se	ttings	
VPN Configuration	Click to cha	nge. Hit 'Enter' to	submit.
VPN Client Profile	Hotspot LAN	192.16	8.10.0
	Hotspot Name	vpn-ho	me
WARNING: You rarely need to access this advanced setting.	Auto Port For	varding on	
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may only take effect on reboot. Do you want to proceed?	Home Network	k Access on	
Cancel OK	VPN Road Wa	arrior Home Base:	
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Figure 16 VPN Device Advanced Settings

Each item except for <u>*Web UI Password*</u> on this Advanced UI is independent and will take effect on change.

### 1) Hotspot LAN

Only when the router LAN happens to be 192.168.10.0, will you need to change hotspot LAN network.

To change it, click the IP 192.168.10.0. Then the 10 part becomes editable. Enter any value between  $0\sim254$  and hit enter to change.

### 2) Hotspot Name

The default hotspot network name "*vpneveryone.ddns.net*" should be unique enough identify itself. If you want to change it, click it. Then it becomes editable. Enter whatever name you like and hit enter to change.

#### 3) Auto Port Forwarding

In order for VPN server to be reachable from internet, your router needs to forward a few ports to VPN server. This is done automatically by VPN server telling router to do port forwarding. You should never disable it.

If you have to disable this feature for whatever reason, you will have to manually set up your router to forward ports below to VPN server.

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You have multiple layers of routers. VPN server is not reachable from internet										
R	Router Port Forwarding Info									
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	1 TCP	1234 ==>	192.168.2	2.138:1234	'VPN- auto- forward' 0					
	2 TCP	443 ==>	192.168.2	2.138:443	'VPN- auto- forward' 0					
	3 TCP	1990 ==>	192.168.2	2.138:1990	'VPN- auto- forward' 0					
+ WiF	i Hots	oot								

**Figure 17 Router Port Forwarding Info** 

#### 4) Remote Diagnostics

In case that you need remote help on troubleshooting VPN server, we may run diagnostics tools which use TCP port 22.

Disabling Remote Diagnostics only tell VPN server not to tell router to auto forward port 22 to VPN server.

#### 5) Home Network Access

http://vpneveryone.ddns.net/reasons-for-vpn.html

One of the key use cases to VPN is to access home network. In some cases, you may not want VPN users to access home network at all. For example, you let your friends at oversea to use your VPN to access internet websites that are blocked by his country. You want your friends to access internet only, and disable his access to your home network. In this case, you can turn off *<u>Home Network Access</u>*.

#### 6) VPN Road Warrior Home Base

If you bought "Road Warrior Feature" when you ordered this product, you see this option in *Advanced* setting.

By default, VPN Road Warrior Home Base is VPN-Home. It means, Your PC on internet with VPN client connected to VPN-Home device would appear to be in VPN-Home network. It can access VPN-Home network (subject to <u>Home Network Access</u> setting) and it appears to the websites it visits as if it is from VPN-Home network. If you want to make VPN client appear to be in VPN-Remote network, simply click the radio button next to VPN-Remote.

#### 7) Web UI Password

By default, web UI password is vpneveryone

Although the VPN server web UI is not accessible from internet, you may not want everyone to know your VPN server UI password. You can change it. Click the \*\*\*\*\*. It will become editable. Enter your password and hit enter to change it.

Note: New UI password only take effect on next boot.

#### 8) Reboot Device

In rare cases, you will need to reboot VPN server by web UI. If you are at home, power cycle VPN server device would be a better way to reboot it.

#### 9) Factory Default Setting

Only when you think you don't know what you have done and everything fell apart, should you do a factory default setting.

### 7.1. About Product

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Twin Server, VPN- Remote	HTTPS-VPN	Produt Type	erver, VPN-Home w/ Road Warrior	HTTPS-VPN Twin	Produt Type	Server, VPN-Home	HTTPS-VPN Twin	Produt Type
Version (Validated)	Full \	Software License	/ersion (Validated)	Full	Software License	Version (Validated)	Full	Software License
2:54:19 2019 GMT	Starte: Mar 4.0	LICENSE	2:27:46 2019 GMT	Starts: Mar 10		2:53:07 2019 GMT	Starts: Mar 4 0	
2:54:19 2024 GMT			2:27:46 2024 GMT	Ends: Apr 2		2:53:07 2024 GMT	Ends: Mar 27 0	
2:52:06 2019 GMT		SW Timestamp	2:25:48 2019 GMT	Sun Mar 10	SW Timestamp	2:52:06 2019 GMT	Mon Mar 4 0	SW Timestamp
3:18:35 2019 GMT	Mon Mar 4 03	Current	Current Time Sun Mar 10 21:25:23 2019 GMT		3:20:35 2019 GMT	Mon Mar 4 0	Current Time	
00d:00h:17m:58s		System Up Time	00d:00h:08m:07s		System Up Time	00d:00h:16m:00s		System Up Time

Figure 18 Product Info

Each VPN device runs the software programmed in the MicroSD card included. The software is only licensed to run on this MicroSD card.

For full version product, the software is *licensed for 5 years*.

For trial/free version software image, it is only licensed for 30 days (subject to change without notice).

The **About** section in **Advanced** tab tells the license info. After software license expires, you still have access to web UI. But the VPN service is automatically shut down.

### 8. Quick Troubleshoot

1) Make sure you don't have multiple layers of routers cascaded.

VPN server can only tell the router directly connected to auto forward ports. If you have multiple layers of router cascaded, the VPN server is not reachable from internet. Therefore, it will never work.

The *Router Info* section on *Network* web UI page (Figure 19 below) will help you. If the *Public IP* does not match the *Router Uplink IP*, it means you have multiple-layer router problem.

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	You have multiple layers of routers. VPN server is not reachable from internet								
Ro	Router Port Forwarding Info								
r	0 ГСР	22 ==>	192.168.2.101:22	'VPN- auto- forward' 0					
L	1 JDP	500 ==>	192.168.2.101:500	'VPN- auto- forward' 0					
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Figure 19 Router Info UI Page

2) Make sure router port forwarding works correctly

99.99% of residential routers support UPNP and it is by default enabled. The auto port forwarding should work by default. If you see port forwarding info like Figure 19, you are good.

If you had disabled UPNP on your router, you need to enable it. Or manually forward ports like in Figure 19

If you router have *UPNP secure version* enabled, it may not work well with VPN server. Please disable security on UPNP and run regular version UPNP.

3) Please be noted that all keys/passwords/usernames are case sensitive. "Password" is not the same as "password"