

How to set up VPN on the router

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Virtual private network (VPN) is one of the best ways to secure and protect your privacy when connecting to the Internet. They keep users from snooping on the network and preventing malicious attacks.

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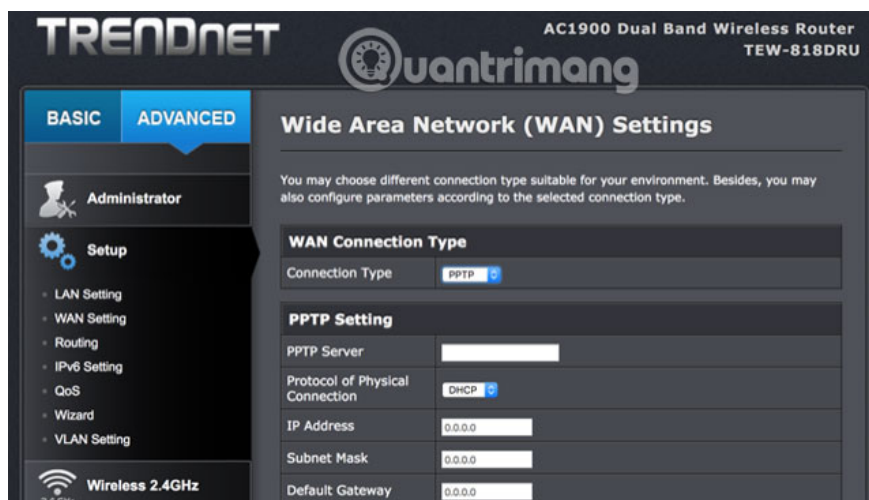
Is it necessary to own a VPN router?

VPN settings are a great idea. You will not need to remember to activate your VPN. It will protect all devices connected to the wireless network. In a nutshell, it solves most troubles when using VPN. The only drawback is that the connection speed may be affected (although that's not always true for all VPNs).

1. Tips to speed up the Internet, connect to the network faster

Fortunately, you don't need any special device to set up VPN on the router. You can buy specially established VPN routers, but to save money you can set up VPN yourself and the process is not difficult.

Some routers are compatible with VPN. For example, TRENDnet router allows you to set up a VPN with a standard firmware (however users are limited to older protocols).

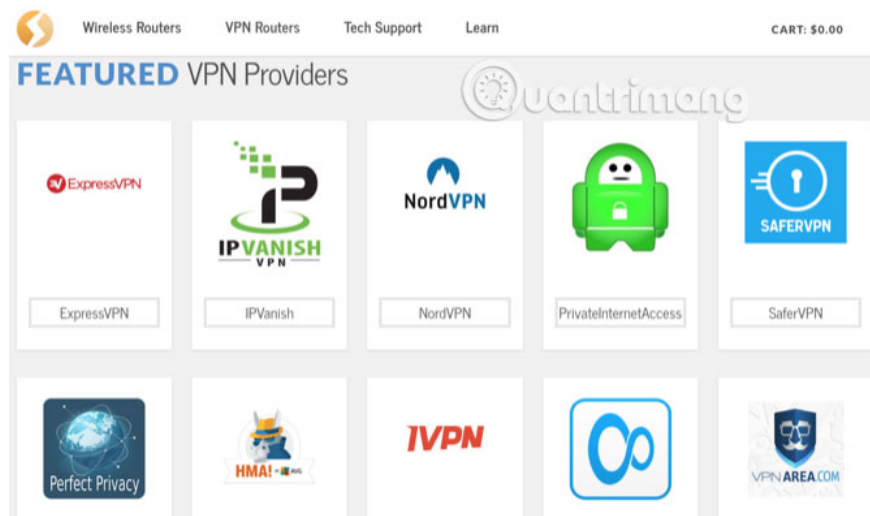


For most VPNs, you will need to install a new firmware. DD-WRT and Tomato are two popular firmware options with a good part and both allow you to install VPN on the router.

However, not all routers and VPNs work with DD-WRT or Tomato. You need to check the list of compatible firmware and installation instructions for your specific VPN:

1. List of DD-WRT supported devices
2. List of Tomato support devices

The new Flash firmware router is quite easy, but if you don't want to do the whole process, you can buy an existing VPN router from online stores like FlashRouter. You can even buy a pre-flash router set up for VPN.



If you decide to install a new firmware on your router, follow these steps to install VPN. (If you bought a VPN router that was flashed first, go to step 3).

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Step 1: Flash new firmware

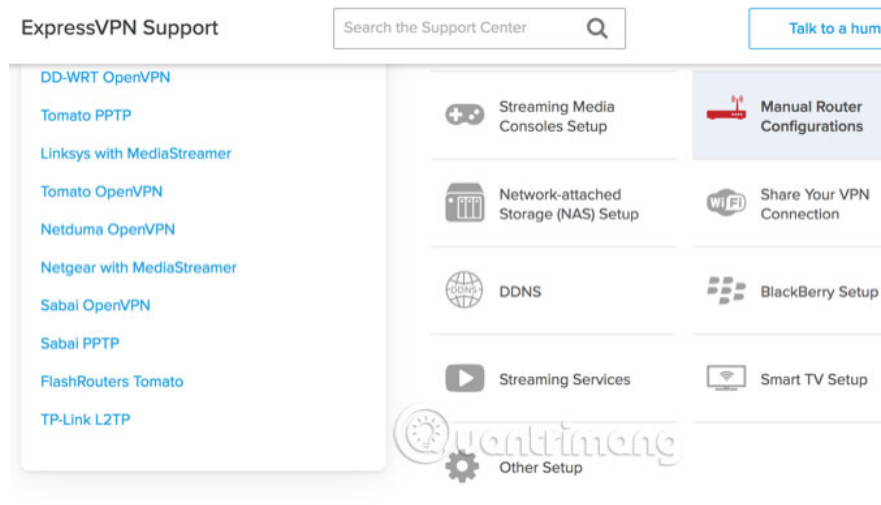
Check the DD-WRT and Tomato compatibility lists to see if it supports your router (note, there are alternative router firmware available in the market). If your router is supported, follow the instructions to install the firmware.

Depending on the type of firmware and router, you will use different methods to flash the firmware, so the article will not go specifically for each type. You can perform a search on Google to know how to flash your specific device.

Step 2: Get VPN server information

Before you learn about the router's new firmware, you will need some specific information on the VPN. The best way is to do a web search, most well-known VPNs will have instructions for installing VPNs on several different

routers. For example, ExpressVPN has instructions for configuring manual routers:



You will receive a series of numbers and URLs. For example, here is information provided by NordVPN to install their VPN on DD-WRT:

1. IP / Server name = us936.nordvpn.com
2. Port = 1194
3. Tunnel equipment = TUN
4. Tunnel protocol = UDP
5. Encryption = AES-256-CBC
6. Hash algorithm = SHA-512 (Note: The old NordVPN server uses SHA-1. If SHA-512 does not work, select SHA-1).
7. User authentication = On
8. Username, Password = [Your NordVPN login information]
9. Advanced option = On (this option will enable additional options)
10. Password TLS = No
11. Compress LZO = Yes
12. NAT = On

At the very least, you will need the server URL or IP address and user authentication information. You can get all this information from your VPN provider website. You can also download the VPN configuration file that contains all the necessary settings, which will make this process easier.

Step 3: Enter information into the router

After finding all the information needed to activate the VPN, access the firmware and enter this information. In DD-WRT, you will access the **VPN** tab in **Services** and activate **Start OpenVPN Client** .

In Tomato, find **VPN Tunneling** in the left bar, and select **OpenVPN Client** below it. You will find everything you need in the **Basic** tab in **Client 1** .


You will need to enter the information collected in the final step, as well as any additional information provided by the VPN provider. Different VPNs may require other information. For example, ExpressVPN requires

entering specific information into Tomato's custom configuration box:

ExpressVPN Support

Copy and paste the following text into the **Custom Configuration** field, then click **Save**:

```
tun-mtu 1500
fragment 1300
mssfix 1450
keysize 256
auth SHA512
sndbuf 524288
rcvbuf 524288
```



That's why you should find instructions from the VPN provider and how to set them up on the router. After copying all the information to the firmware router, you can connect it. Users should use the IP address checking tool to ensure this address is protected.

After setting up VPN on the router, you will never have to worry about re-enabling or logging in and all devices will be protected. So even though the setup process is a bit difficult, the effort you deserve is worth it.

See more:

1. [Setting up a VPN server on Router Tomato - Part 1](#)
2. [Setting up a private VPN does not need expensive software](#)
3. [How to create a VPN server on Windows without using software?](#)

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