# Combine 2 networks to speed up

Today's article will show you how to combine two or more Internet networks into one main network. In doing so, you will divide the download speed for two or more available Internet connections so that your overall browsing speed is not affected by large file downloads or continuous streaming.

You may not notice, but you are using a lot of Internet connections every day: home networks, phones and even hotspots and other devices. The downside is that you can usually only use one network at a time. Imagine if you could combine all of them into one big network for faster download speeds, smoother live streaming and sharper video calls?

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## How to combine 2 networks on the computer



## Why do you need to do this?

In most cases, a continuous Internet connection is sufficient for everyday needs. If your Internet is stable and has good bandwidth, you really don't need to do anything else. But in other situations, when you want to download files in the background while still playing your favorite multiplayer games and a friend playing Netflix online in the next room, what? In today's high-tech world, you can do all of that at the same time without affecting the overall speed.

In other cases, stability is what you need most, not necessarily speed. Maybe you are traveling and have a connection that is not stable enough to complete all the necessary tasks. If you've ever had to use the hotel's Wi-Fi to wait for a website to load, watch YouTube, attend an event and have to upload photos to 4G because hundreds of others are also trying to do the same, you will understand how important Internet connectivity is.

## Methods to combine two networks to speed up

## Method1: On Windows

1. Buy a USB Wi-Fi adapter. You will need at least one device like this for your computer, so that it can recognize more than one wireless network.

2. Attach the USB Wi-Fi adapter to the computer. Plug the USB Wi-Fi adapter into one of the USB ports on the computer.

If a message appears, follow any instructions on the screen to set up the adapter.

3. Connect to your second wireless network. Click the **"Wi-Fi"** icon at the bottom right of the screen, click the drop-down box at the top of the pop-up menu, click **Wi-Fi 2** , then connect to the second wireless network.

4. Open **Start.** Click the Windows icon in the lower left corner of the screen.

5. Open the **Settings** section **.** Click the gear icon in the bottom left of the **Start** menu **.**

6. Click on **Network & Internet section** . This globe icon is located in the **Settings** window **.**

7. Click **Change adapter options** . It is in the **Change your network settings section** in the middle of the page. The **Control Panel** window with all your Internet connections will open.

8. Double-click the main Wi-Fi connection. This must be the network you connected to before connecting the wireless Internet adapter device. A pop-up window will open.

9. Change the properties of the connection. To activate two wireless connections at the same time, you will have to change the properties of both connections, starting with the primary connection:

1. Click **Properties.**
2. Select **Internet Protocol Version 4 (TCP / IPv4)** .
3. Click **Properties.**
4. Click **Advanced .**
5. Uncheck the **"Automatic metric"** box **.**
6. Enter **15** in the **"Interface metric"** text box **.**
7. Click **OK** on the top two windows.
8. Click **Close** on the bottom two windows.

10. Change the properties of the second connection. You will do the same way used for the first connection. Note enter **15** in the **"Interface metric"** text box here.

11. Restart the computer. Click **Start,** select **Power** and click **Restart.** When the computer finishes rebooting, it will use both connections to divide the bandwidth for your computer.

## Method 2: On a Mac

1. Make sure you have two Ethernet ports. To merge two Internet networks on a Mac without using a special router, you will need to use the Ethernet connection for each connection's router. This means that your Mac must have two Ethernet ports or possibly an Ethernet adapter:

If you have an Ethernet port and at least one USB-C port (Thunderbolt 3), you can buy Apple's USB-C Ethernet adapter to install it as a second Ethernet port.

If you don't have an Ethernet port and at least two USB-C ports (Thunderbolt 3), you can buy two Apple USB-C Ethernet adapters to create two Ethernet ports.

If you have only one USB-C port (Thunderbolt 3) and no Ethernet port, you cannot combine two Internet networks via Ethernet. Try using an alternative load balancing router in this case.

Because your Mac only has two networks when you both use 802.3ad compliant connectivity, you cannot use a USB 3.0 to Ethernet adapter adapter (convert USB 3.0 to Ethernet).

2. Connect both routers to the Mac. Use each Ethernet cable to connect two routers: Plug one end of the cable into the "LAN" port (or another similar port) on the back of each router, then plug the other end into the Mac's Ethernet port. First, you must connect the Ethernet adapter (s) to the Mac if you don't have many Ethernet ports.

3. Open the **Apple** menu **.** Click the Apple icon in the upper left corner of the screen. A drop-down menu will appear.

4. Click **System Preferences.** It is near the top of the drop-down menu. Doing so will open the **System Preferences** window **.**

5. Click **Network.** You will find this globe icon in the **System Preferences** window **.** Clicking it will open the **Network** window **.**

6. Click on the **"Action"** shaped gear icon. It is on the bottom left of the window. A pop-up menu will appear.

7. Click **Manage Virtual Interfaces.** This option is in the **"Action"** pop-up menu **.** A new window will open.

8. Click **?** at the bottom left of the new window. A drop-down menu will appear.

9. Click **New Link Aggregate.** This option is in the drop-down menu.

10. Select Ethernet port. Click the check box to the left of each Ethernet connection.

11. Enter a name. Enter a name for the new connection in the text box at the top of the window.

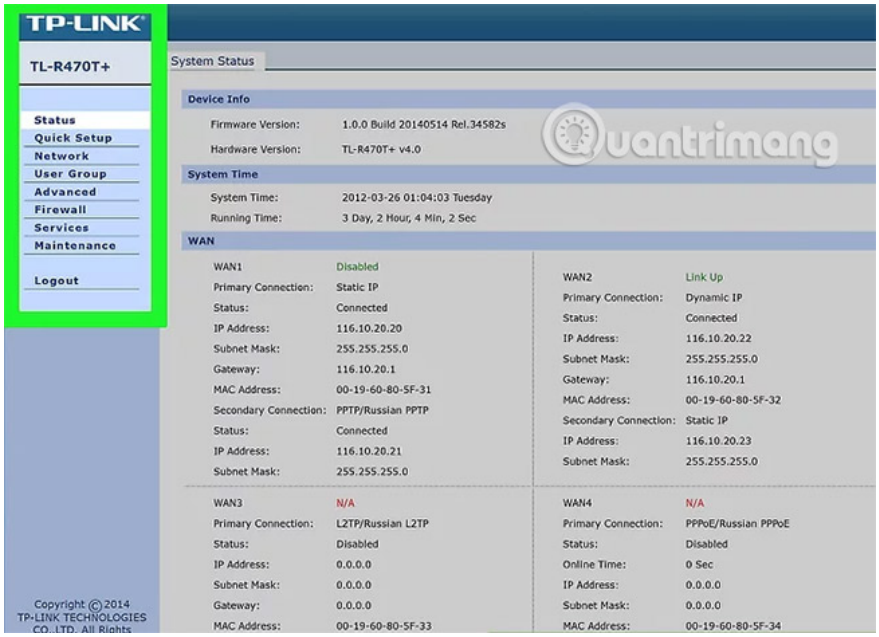
12. Click **Create,** then select **Apply.** This will create a combined Internet connection and connect to it. Your Mac will now automatically split things like download and streaming speed between two connections.

## Method 3: Use the load balancing router

1. Buy a load balancing router. Load balancing routers combine all your Internet connections into a larger network. You can connect multiple modems to different wireless networks with your load balancing router to handle all modem connections.

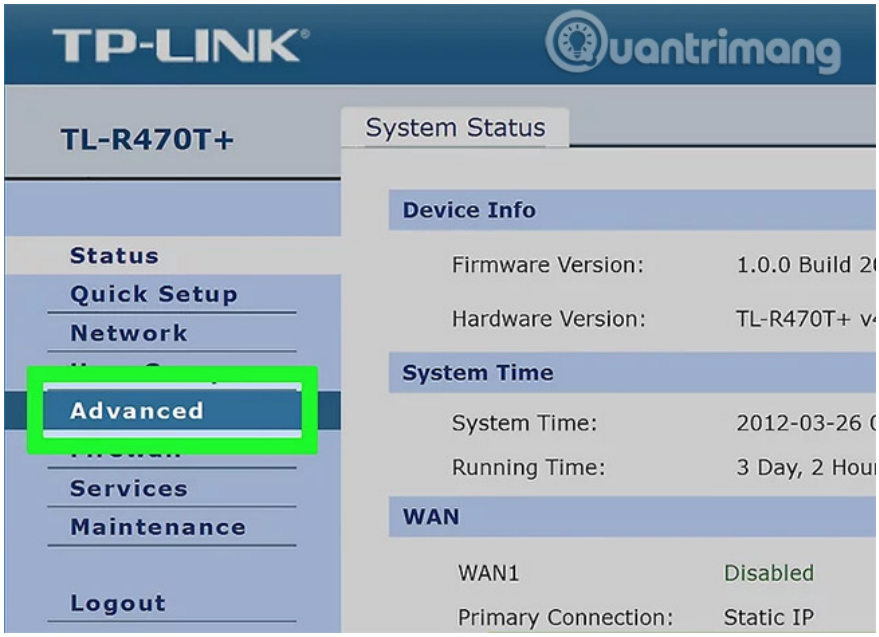
A two-connection load balancing router will cost between $ 40 and $ 90 (920,000 - 2,070,000 VND).

2. Connect any modem to the router. If you have two or more wireless networks broadcast from separate modems, you can connect them to your load balancing router, by attaching an Ethernet cable end to the square "**Internet**" port on the selected modem and then Connect the other end with another square port on the back of the router.



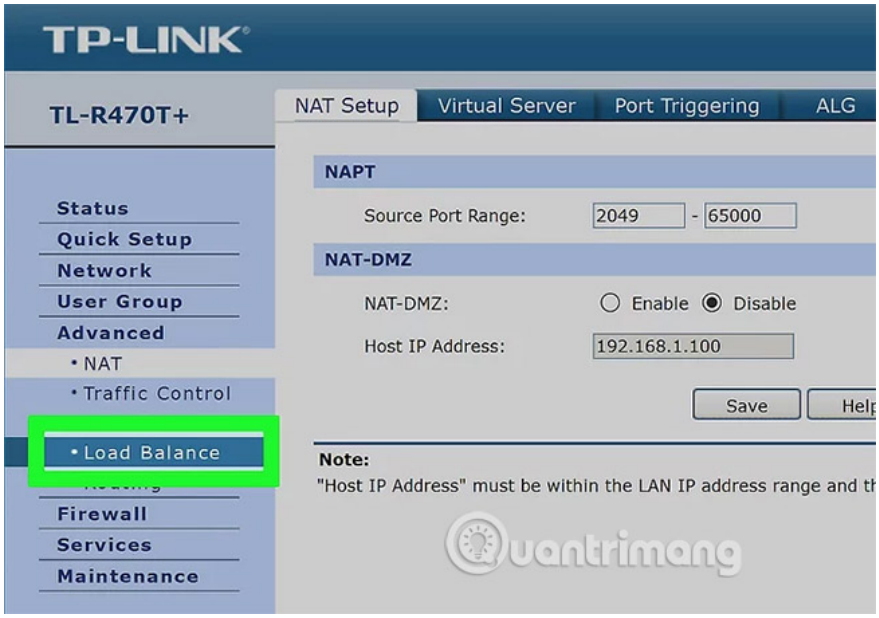

3. Open the router's configuration page on the computer. You will do this by entering the IP address for the regular network, which can be found in your connection settings.

If connecting to the IP address in your computer's connection settings does not lead you to the router's configuration page, check the **"Basic Setup" section** in the router user manual for the correct address.

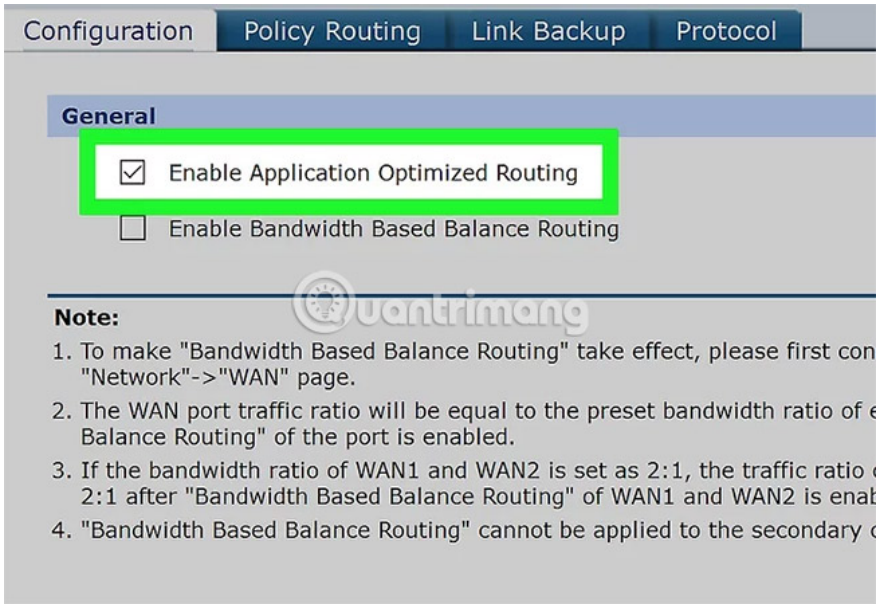



4. Click **Advanced.** You will often find this tab to the left of the router's admin page.

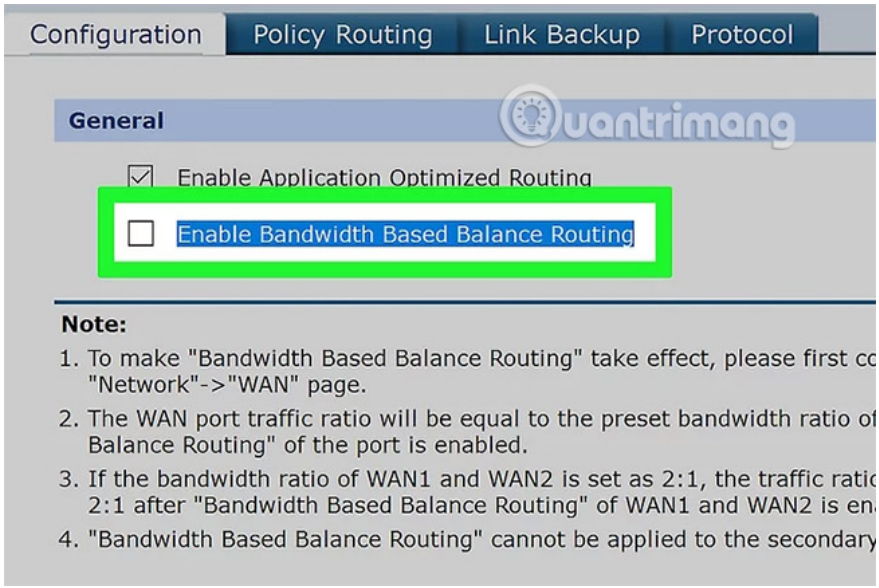
Although most load-balancing routers have similar administration pages, you may find options slightly different in some locations depending on the manufacturer.



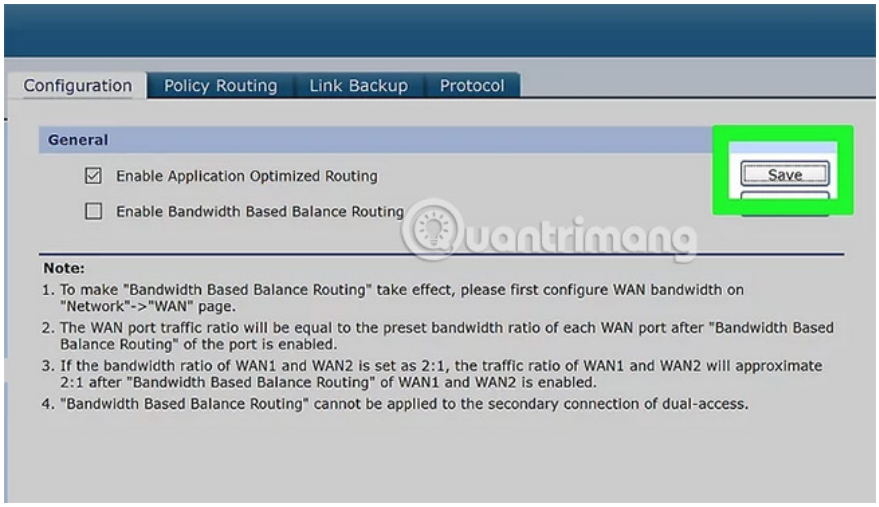

5. Click **Load Balance** , it is usually on the left side of the page.



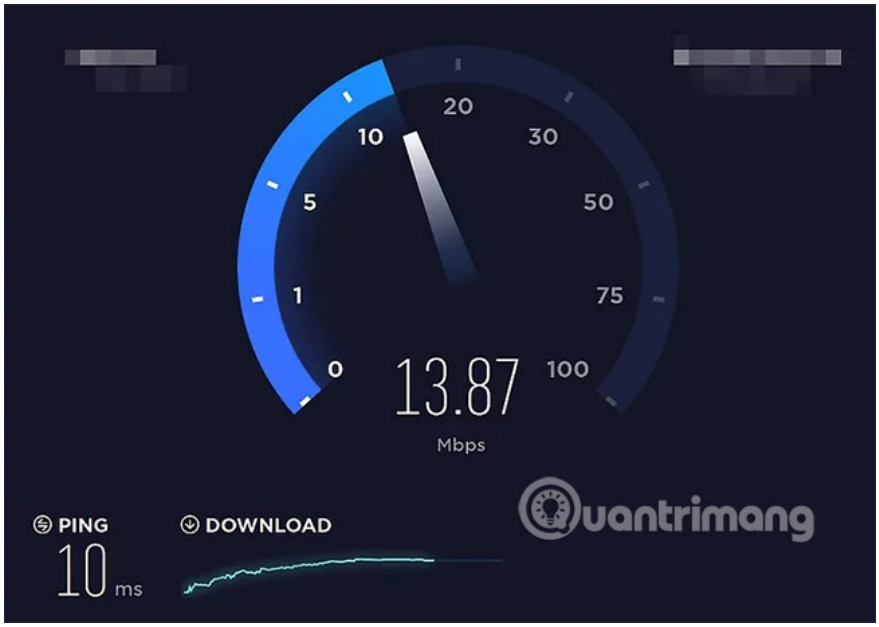

6. Uncheck the " **Enable Application Optimized Routing** " box. Chances are you'll find this box near the top of the page.




7. Uncheck the box " **Enable Bandwidth Based Balance Routing** ". Uncheck this box and **Enable Application Optimized Routing** box will allow your load balancing router to include Wi-Fi networks that are connected to a single connection.



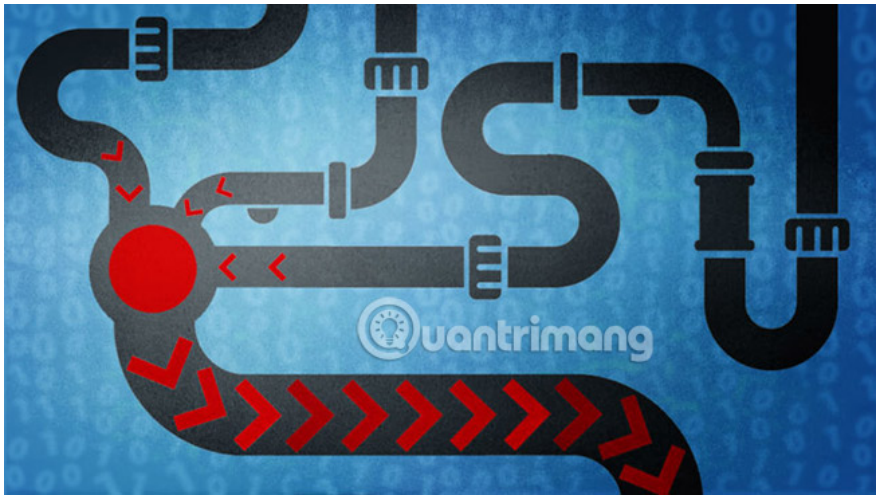

8. Click **OK** or **Save.** Your settings will be saved.




9. Enjoy connection speed. If you have completed setting the load balancing router and your computer is currently connected to the load balancing router in the Wi-Fi menu, you will notice the difference in your browsing speed.

## Method 4: Use the Speedify tool

### How to link and speed up connections




Speedify will play its role in cases where users need fast or stable connection speeds. Speedify is a combination of load and VPN balancing software from Connectify, a familiar name in this area. The Connectify Dispatch application has finally become Speedify. Connectify Dispatch is a load balancer that distributes computer traffic on all available Internet connections that your computer has access to. Think of it like an Internet world Voltron: Each individual Ethernet connection, Wi-Fi in the street and 4G phones all have maximum power, but no mutual moderation.

Speedify does (almost) everything Dispatch has done, but it also includes integrated VPN. Although it is not designed for security or privacy purposes, it has some smart traffic that shapes the upstream process at Speedify servers, so your traffic will automatically be sent to Connection best suited to it. It also provides seamless failover, so if the hotel Wi-Fi is out, you can continue browsing with 4G without missing a moment. Even applications that can use multiple connections, such as Dropbox and VPN focus on security (applications that you can run through Speedify), can also be optimized.

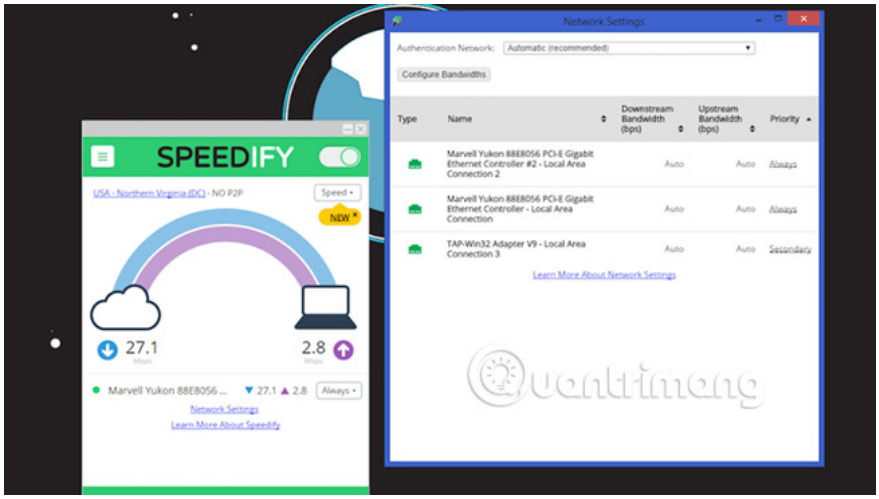
However, Speedify is not free. You can try it free for up to 1GB to see if it works for you and for the connections you have available to link, but then you can get 50GB for $ 9 / month (207,000 VND) ) or $ 69 / year (VND 1,587,000) or unlimited data for $ 19 / month (VND 437,000) or $ 149 / year (VND 3,427,000). It is available for both OS X and Windows. The license will give you an account and you can use it on multiple computers (for personal purposes).

Getting started with Speedify is quite easy. With the free trial, this is what you need to do to set up.

Create a free account on **Speedify.com** website **.** When your account is created, you will have a username and password used to log in to the Speedify service.

Connect your computer to Ethernet, connect it to the local Wi-Fi network and plug in a USB 4G card or set up your phone to connect to USB. If you have another Wi-Fi card, like a USB Wi-Fi adapter, plug it in. Basically, connect any network adapter you want to use with Speedify and make sure they are turned on. Doing this ensures the adapter is available even if you don't use it, so Speedify can see it.

Next, download the Speedify desktop application for Windows (Windows 7 or 8) or OS X (10.8+).




Now, run the Speedify installer. In Windows, Speedify will ask for confirmation during installation because it adds a virtual network adapter to your system. In OS X, the application will do the same and ask you to enter the system password twice to complete installation and run for the first time.

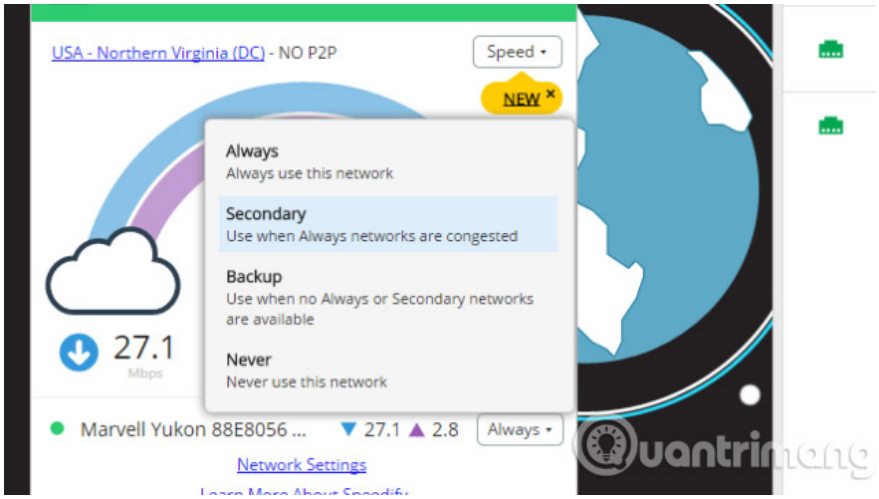
After the installation has finished, Speedify will prompt you to login or create an account. Since you created your account in step one, continue and log in. It automatically connects you to the best Speedify server near you, then automatically balances all the network connections that the computer has available. It also runs a small network speed test, and you will see the connection speed, both up and down, between the computer and the cloud on the network displayed as a rainbow, along with a list of all network adapter is available. Keep the window open, you can see what happens when you lose your network or when you actually put that speed into testing.

After setup, using Speedify is quite simple. You can click on the name of the Speedify server that you connected at any time, to select another server or see what the server's latency will be. If you need to perform some torrent operations, you will want to switch to a P2P-friendly server with low latency. In tests, Speedify worked quite well. Try activating this utility, start downloading some large game fixes and then start streaming a movie. With nearby Wi-Fi networks (probably Comcast), locally wired Ethernet (also Comcast) and 4G (Verizon Wireless) are all connected, the download process is not much faster, but streaming videos and music will become more seamless and not laggy.

**Other settings can be activated**

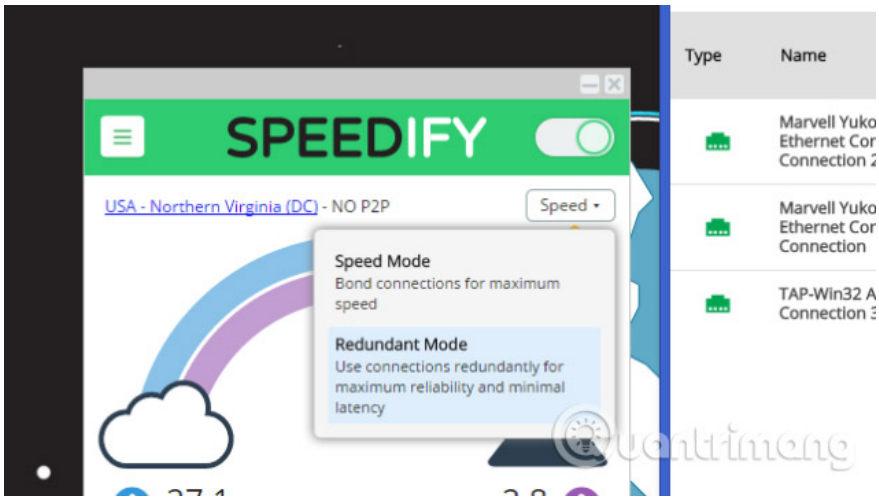
By default, Speedify has a decent configuration. That means that in most cases, you just need to open the application, connect and not have to worry about anything else. However, there are some other useful features that you might want to try in different situations.

*Prioritize your connection manually*



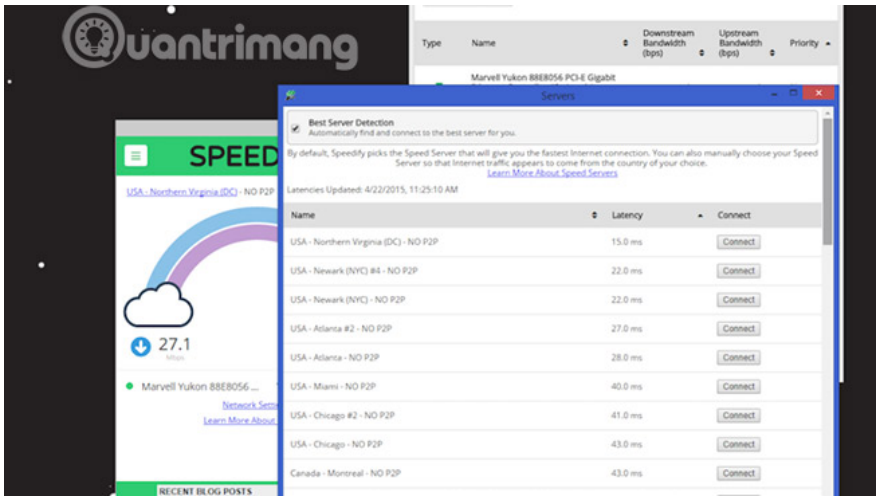

Speedify ensures that if any of your connections are dropped, other connections will continue to perform that part of the task. For example, if something happens to the hotel Wi-Fi you are using, Speedify will continue processing traffic through another available network. However, you can also prioritize each connection, instead of treating them all the same. Just open the Speedify status window, select the best connection in the list (eg Ethernet at home) and set it to 'always' to always use that connection if possible. After that, you can set your connected 4G phone to a secondary option, which means the app will select that connection if it is available. After that, you can set up free Wi-Fi nearby (Wi-Fi network that you have previously connected), and the application will only use the backup network if other networks are dropped or you actually need bandwidth. That level of control is great if you have multiple networks available, but not necessarily using them all at once.

*Fix unstable connection with standby mode*



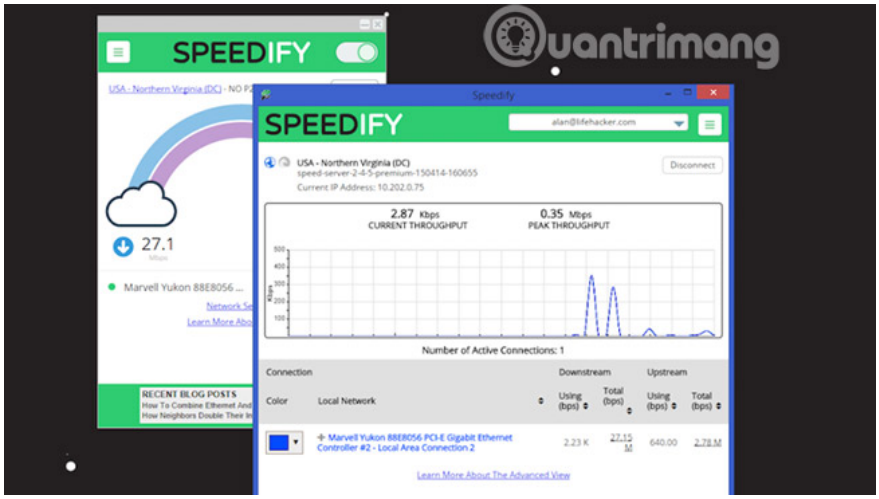

If you are somewhere with lots of unstable Internet connections, turn on Redify Mode Redundant Mode of Speedify. After installation, one of the connections will be the primary connection, and one of the remaining connections is secondary, then the application will basically send all the same data on both networks of the same at. That means that if a network has a problem, even for a second or two, any missing information will be captured by the other network. The end result will be lower latency and more uptime, even if all of your available networks are unstable. When tested, this app worked amazingly. Weak Wi-Fi signals from home and a network of nearby cafes are not very high speed but very stable.

*Get the best signal by switching the server*




The benefit of becoming a VPN is that all traffic is transferred through Speedify servers. Although Speedify automatically selects a closest server when you log in, you can change it at any time. This is especially useful if you want to move around different locations when streaming certain content. You can choose servers in the United States, Canada, Brazil, France, Germany, Ireland, Italy, Netherlands, Spain, England, Hong Kong, Japan, Singapore and Australia. In most cases, there is only one server in each country (except for 9 servers in the US), but it's great to have multiple geographic options if you need it.

**Imperfect speedify**




Of course, Speedify is not perfect. For example, if you want additional security, you can run your own VPN application while connecting to Speedify and encrypt your additional traffic. Speedify says it can speed up VPN traffic, but in tests, its impact is negligible. Fortunately, it doesn't slow down traffic. However, it will be a bit redundant to link two or three Internet connections and then only use one of them for everything because you have enabled VPN.

Similarly, if you're worried about the safety of personal data when using Speedify, there's a pretty good news. To protect users, Speedify's privacy policy and terms of service are growing, they don't store or collect any data

from users or browsing sessions.

However, if you have a high level of security on all systems or if you are doing any sensitive work, you should still use VPN - which focuses on security rather than speed. It is especially important if you travel or use untrusted networks. These are all cases of using Speedify the most. Perhaps you won't need to link a series of connections when you have a strong, stable connection at home (and even, you have two networks available: a home network and a smartphone) .

Speedify is great at including all available connections into a large network, providing more bandwidth and faster speeds, no matter what you are doing. Of course, everything has its price. As long as you are surfing the web, playing videos, playing games or doing anything else that security is not very important, this can be a great tool to get the most out of many networks. Although not free, but if you are tired of unstable connections, Speedify is very effective and easy to use.

See more:

1. How to speed up Internet connection with cFosSpeed
2. Internet acceleration 20% faster in Windows
3. How to speed up the operation of Chrome and Firefox?