



User Guide

BE6500 Dual-Band Wi-Fi 7 Router

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About This Guide

This guide is a complement of Quick Installation Guide. The Quick Installation Guide instructs you on quick internet setup, and this guide provides details of each function and shows you the way to configure these functions appropriate to your needs.

Note: Features available in the router may vary by model and software version. Router availability may also vary by region or ISP. All images, steps, and descriptions in this guide are only examples and may not reflect your actual Router experience.

Conventions

In this guide the following conventions are used:

Convention	Description
<u>Underlined</u>	Underlined words or phrases are hyperlinks. You can click to redirect to a website or a specific section.
Teal	Contents to be emphasized and texts on the web page are in teal, including the menus, items, buttons, etc.
>	The menu structures to show the path to load the corresponding page. For example, Advanced > System > Firmware Update means the Firmware Update page is under the System menu that is located in the Advanced tab.
 Note:	Ignoring this type of note might result in a malfunction or damage to the device.
 Tips:	Indicates important information that helps you make better use of your device.
symbols on the web page	 Click to edit the corresponding entry.  Click to delete the corresponding entry.  click to enable or disable the corresponding entry.  Click to view more information about items on the page.

More Info

The latest software, management app and utility can be found at [Download Center](https://www.tp-link.com/support/download) at <https://www.tp-link.com/support/download>.

The Quick Installation Guide can be found where you find this guide or inside the package of the router.

Specifications can be found on the product page at <https://www.tp-link.com>.

TP-Link Community is provided for you to discuss our products and share knowledge at <https://community.tp-link.com>.

Our Technical Support contact information can be found at the [Contact Technical Support](https://www.tp-link.com/support) page at <https://www.tp-link.com/support>.

†Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput, wireless coverage, and connected devices are not guaranteed and will vary as a result of internet service provider factors, network conditions, client limitations, and environmental factors, including building materials, obstacles, volume and density of traffic, and client location.

‡Lower Latency refers to the latency improvement of Wi-Fi 7 routers compared to Wi-Fi 6/6E routers, based on laboratory test data. The test conditions had the same 5 GHz or 2.4 GHz single-frequency wireless interference and tested the maximum latencies of Wi-Fi 7 clients (with MLO turned on) connecting to the 5 GHz and 2.4 GHz bands of the router (with MLO turned on) simultaneously and to the 5 GHz or 2.4 GHz bands of a Wi-Fi 6/6E router (without the MLO function).

ΔHigher capacity and lower latency refers to the capacity and latency improvement of Wi-Fi 7 routers compared to Wi-Fi 6/6E routers, based on laboratory test data.

§2.5 Gbps internet speeds require compatible service plans and equipment. Actual network speed may be limited by the rate of the product's Ethernet WAN or LAN port, the rate supported by the network cable, internet service provider factors, and other environmental conditions.

☆Use of WPA3 requires clients to also support the corresponding feature.

◇Use of Wi-Fi 7 (802.11be), Wi-Fi 6 (802.11ax), and features including Multi-Link Operation (MLO), 4K-QAM, Multi-RUs, OFDMA, and MU-MIMO requires clients to also support the corresponding features.

*Wi-Fi generations represent the wireless standard IEEE 802.11 a/b/g/n/ac/ax/be. All devices need to support 802.11 Wi-Fi protocols. Users may require an extra modem device that is compatible with their internet service provider to gain internet access.

**HomeShield includes both basic and advanced features. Advanced features require a paid subscription. For details, visit tp-link.com/homeshield

***TP-Link EasyMesh-compatible products can network with other devices that use EasyMesh. Failed connections may be due to firmware conflicts of different vendors. The EasyMesh-compatible function is still being developed on some models and will be supported in subsequent software updates.

Chapter 1

Get to Know About Your Router

This chapter introduces what the router can do and shows its appearance.

It chapter contains the following sections:

- [Product Overview](#)
- [Appearance](#)

1. 1. Product Overview

TP-Link dual band Wi-Fi 7 router, with the 802.11be Wi-Fi technology, achieves Wi-Fi performance at its ultimate level. The new features of Wi-Fi 7 and 4k QAM dramatically improve throughput and increase the capacity and efficiency of the whole network.

It is simple and convenient to set up and use the TP-Link router due to its intuitive Tether app and powerful web interface.

1. 2. Appearance

1. 2. 1. Front Panel



LED Explanation

LED	Status	Indication
 (Power)	On	The system has started up successfully.
	Flashing	The system is starting up or the firmware is being upgraded. Do not disconnect or power off your router.
	Off	Power is off.
 (2.4GHz Wireless)	On	The 2.4GHz wireless band is enabled.
	Off	The 2.4GHz wireless band is disabled.
 (5GHz Wireless)	On	The 5GHz wireless band is enabled.
	Off	The 5GHz wireless band is disabled.

 (Internet)	White On	Internet service is available.
	Red On	The router's Internet port is connected, but the internet service is not available.
	Off	The router's Internet port is unplugged.
 (Ethernet)	On	At least one powered-on device is connected to the router's LAN port.
	Off	No powered-on device is connected to the router's LAN port.
 (USB)	On	The USB device is identified and ready to use.
	Off	No USB device is plugged in to the USB port.
 (WPS)	On/Off	This light remains on for 5 minutes when a WPS connection is established, then turns off.
	Flashing	WPS connection is in progress. This may take up to 2 minutes.

1.2.2. Back Panel



The following parts are located on the back panel.

Item	Description
WPS	Press for 1 second, and immediately press the WPS button on your client device to start the WPS process.
LED/ Wi-Fi	Press for 1 second to turn on or off the LED of your router. Press and hold for about 2 seconds to turn on or off the wireless function of your router.
Reset	Press and hold this button for about 10 seconds until the Power LED blinks to reset the router to its factory default settings.

Item	Description
2.5Gbps WAN Port	For connecting to your modem or the Ethernet outlet.
2.5Gbps LAN Port	For connecting your PC or other wired devices to the router.
1Gbps LAN Port (2-4)	For connecting your PC or other wired devices to the router.
USB 3.0 Port	For connecting your USB storage devices to the router.
Power Port	For connecting the router to a power socket via the provided power adapter.
Power On/Off	Press to turn on or off the router.

Chapter 2

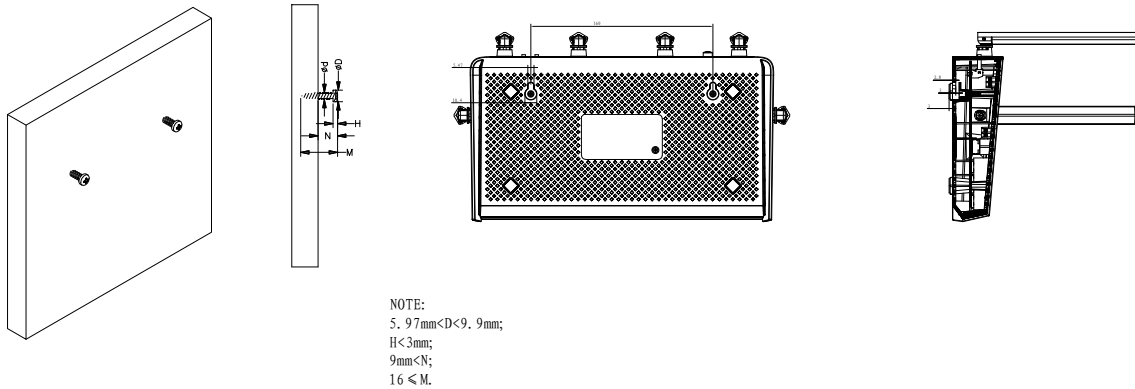
Connect the Hardware

This chapter contains the following sections:

- [Position Your Router](#)
- [Connect Your Router](#)

2.1. Position Your Router

- The product should not be located in a place where it will be exposed to moisture or excessive heat.
- Place the router in a location where it can be connected to multiple devices as well as to a power source.
- Make sure the cables and power cord are safely placed out of the way so they do not create a tripping hazard.
- The router can be placed on a shelf or desktop.
- Keep the router away from devices with strong electromagnetic interference, such as Bluetooth devices, cordless phones and microwaves.
- Generally, the router is placed on a horizontal surface, such as on a shelf or desktop. The device also can be mounted on the wall as shown in the following figure.

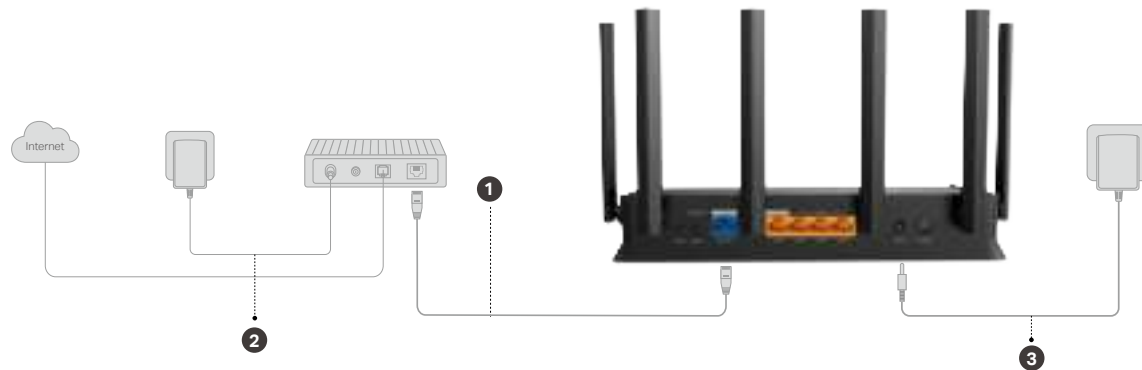


Note:

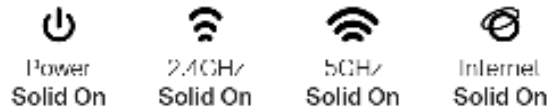
The diameter of the screw head is $5.97\text{mm} < D < 9.9\text{mm}$, and the distance of two screws is 160mm. The screw that project from the wall need around 3mm based, and the length of the screw need to be at least 16mm to withstand the weight of the product.

2.2. Connect Your Router

1. Connect the powered-off modem to the router's **2.5 Gbps Internet port** with an Ethernet cable.



2. Power on the modem, and then wait about 2 minutes for it to restart.
3. Connect the power adapter to the router. Then press the **On/Off** button to turn it on.
4. Verify that the hardware connection is correct by checking the following LEDs.



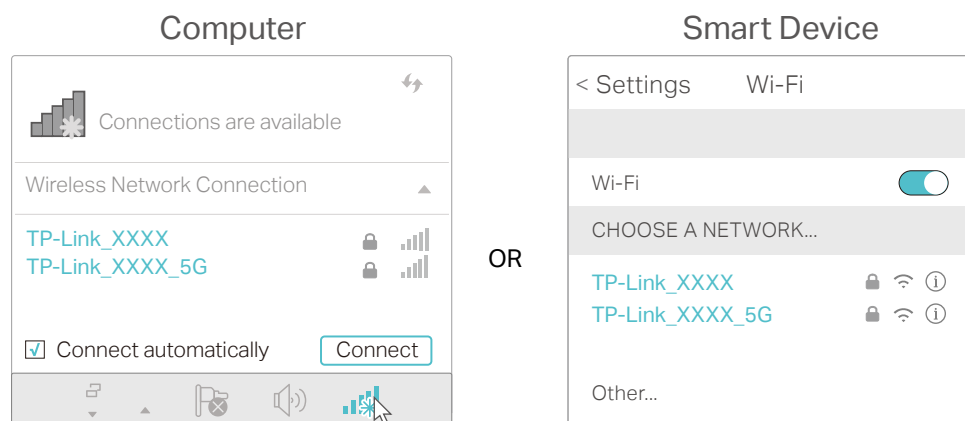
5. Connect your computer to the router.

- **Method 1: Wired**

Turn off the Wi-Fi on your computer and connect the devices to the LAN port of your router.

- **Method 2: Wirelessly**

- 1) Find the SSIDs (Network Names) and Wireless Password printed on the label at the bottom of the router.
- 2) Click the network icon of your computer or go to Wi-Fi Settings of your smart device, and then select the SSID to join the network.



Chapter 3

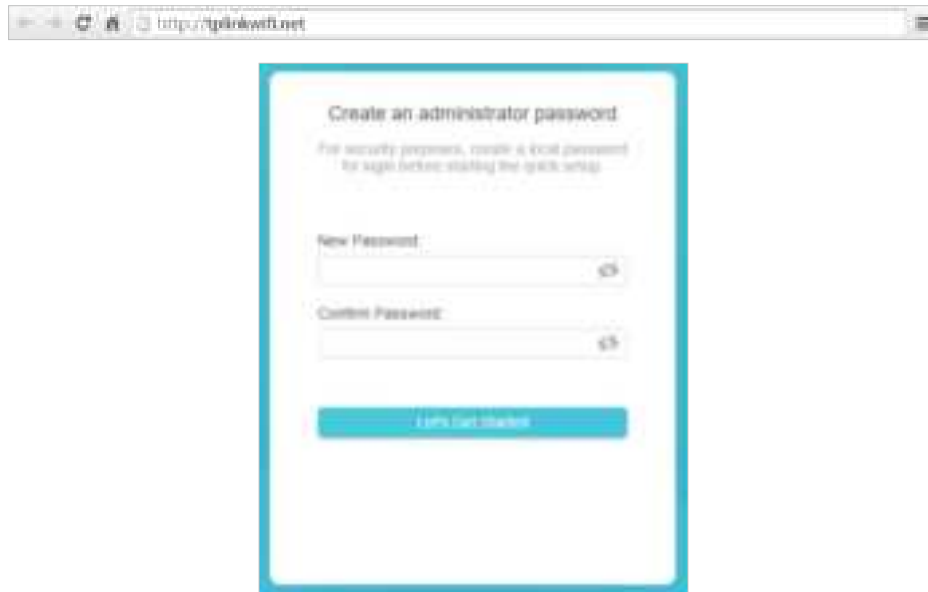
Log In to Your Router

With a web-based utility, it is easy to configure and manage the router. The web-based utility can be used on any Windows, Mac OS or UNIX OS with a Web browser, such as Microsoft Internet Explorer, Mozilla Firefox or Apple Safari.

Follow the steps below to log in to your router.

1. Set up the TCP/IP Protocol in [Obtain an IP address automatically](#) mode on your computer.
2. Visit <http://tplinkwifi.net>, and create a login password for secure management purposes. Then click [Let's Get Started](#) to log in.

■ **Note:** If the login window does not appear, please refer to the [FAQ](#) Section.



Chapter 4

Set Up Internet Connection

This chapter introduces how to connect your router to the internet. The router is equipped with a web-based Quick Setup wizard. It has necessary ISP information built in, automates many of the steps and verifies that those steps have been successfully completed. Furthermore, you can also set up an IPv6 connection if your ISP provides IPv6 service.

It contains the following sections:

- [Use Quick Setup Wizard](#)
- [Quick Setup Via TP-Link Tether App](#)
- [Manually Set Up Your Internet Connection](#)
- [Set Up the Router as an Access Point](#)
- [Set Up an IPv6 Internet Connection](#)

4.1. Use Quick Setup Wizard

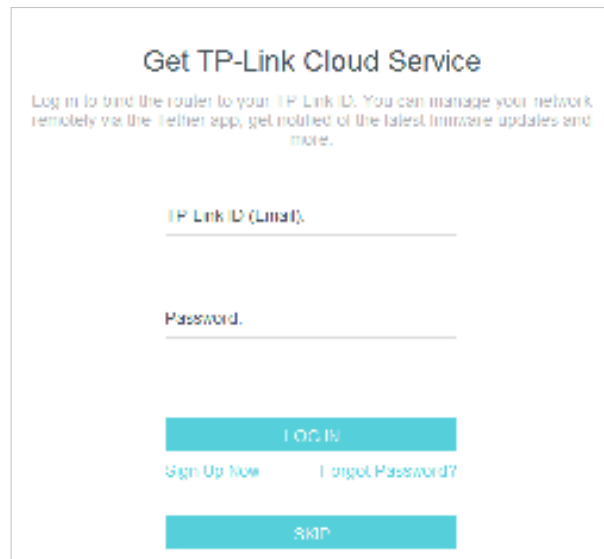
The Quick Setup Wizard will guide you to set up your router.

☞ **Tips:**

If you need the IPv6 internet connection, please refer to the section of [Set Up an IPv6 Internet Connection](#).

Follow the steps below to set up your router.

1. Visit <http://tplinkwifi.net>, and log in with the password you set for the router.
2. Follow the step-by-step instructions to complete Quick Setup configuration or go to [Advanced](#) > [Quick Setup](#) for configuration to connect your router to the internet. Then follow the step-by-step instructions to connect your router to the internet.
3. To enjoy a more complete service from TP-Link (remote management, TP-Link DDNS, and more.), log in with your TP-Link ID or click [Sign Up Now](#) to get one. Then follow the instructions to bind the cloud router to your TP-Link ID.



■ **Note:**

- To learn more about the TP-Link Cloud service, please refer to the [TP-Link Cloud Service](#) section.
- If you do not want to register a TP-Link ID now, you may click [Skip](#) to proceed.
- If you have changed the preset wireless network name (SSID) and wireless password during the Quick Setup process, all your wireless devices must use the new SSID and password to connect to the router.

4.2. Quick Setup Via TP-Link Tether App

The Tether app runs on iOS and Android devices, such as smartphones and tablets.

1. Launch the Apple App Store or Google Play store and search “[TP-Link Tether](#)” or simply scan the QR code to download and install the app.



2. Launch the Tether app and log in with your TP-Link ID.

■ **Note:** If you don't have a TP-Link ID, create one first.

3. Tap the **+** button, and select **Wireless Router > Standard Routers**. Follow the steps to complete the setup and connect to the internet.

■ **Note:** Due to Tether app updates, your actual user interface and pathway may differ from those described here.

4. Connect your devices to the newly configured wireless networks of the router and enjoy the internet!

4.3. Manually Set Up Your Internet Connection

In this part, you can check your current internet connection settings. You can also modify the settings according to the service information provided by your ISP.

Follow the steps below to check or modify your internet connection settings.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Internet**.
3. Select your internet connection type from the drop-down list.

4. Follow the instructions on the page to continue the configuration. Parameters on the figures are just used for demonstration.

- 1) If you choose **Dynamic IP**, you need to select whether to clone the MAC address. Dynamic IP users are usually equipped with a cable TV or fiber cable.

Internet

Set up an internet connection with the service information provided by your ISP (internet service provider).

Internet Connection Type: Dynamic IP 

Select this type if your ISP doesn't provide any information for internet connection.

Set the MAC address of your router. Use the default address unless your ISP allows internet access from only a specific MAC address.

MAC Clone

Router MAC Address: Use Default MAC Address 

98 - d3 - c4 - b4 - 01 - d9

- 2) If you choose [Static IP](#), enter the information provided by your ISP in the corresponding fields.

Internet

Set up an internet connection with the service information provided by your ISP (internet service provider).

Internet Connection Type: Static IP 

Select this type if your ISP provides specific IP parameters.

IP Address:

Subnet Mask:

Default Gateway:

Primary DNS:

Secondary DNS: (Optional)

- 3) If you choose [PPPoE](#), enter the [username](#) and [password](#) provided by your ISP. PPPoE users usually have DSL cable modems.

Internet

Set up an internet connection with the service information provided by your ISP (internet service provider).

Internet Connection Type: PPPoE 

Select this type if your ISP only provides a username and password.

Username:

Password:  

- 4) If you choose [L2TP](#), enter the [username](#) and [password](#) and choose the [Secondary Connection](#) provided by your ISP. Different parameters are needed according to the Secondary Connection you have chosen.

The screenshot shows the 'Internet' configuration page with the title 'Internet' and subtitle 'Set up an internet connection with the service information provided by your ISP (internet service provider)'. The 'Internet Connection Type' is set to 'L2TP'. Below this, a note states: 'Select this type if your ISP provides L2TP VPN server information and an account. Some ISPs also provide specific IP parameters.' The 'Username' field is empty. The 'Password' field is empty with a toggle for visibility. Below the password field, there are two radio buttons: 'Dynamic IP' (selected) and 'Static IP'. At the bottom, the 'VPN Server IP/Domain Name' field is empty.

- 5) If you choose [PPTP](#), enter the [username](#) and [password](#), and choose the [Secondary Connection](#) provided by your ISP. Different parameters are needed according to the Secondary Connection you have chosen.

The screenshot shows the 'Internet' configuration page with the title 'Internet' and subtitle 'Set up an internet connection with the service information provided by your ISP (internet service provider)'. The 'Internet Connection Type' is set to 'PPTP'. Below this, a note states: 'Select this type if your ISP provides PPTP VPN server information and an account. Some ISPs also provide specific IP parameters.' The 'Username' field is empty. The 'Password' field is empty with a toggle for visibility. Below the password field, there are two radio buttons: 'Dynamic IP' (selected) and 'Static IP'. At the bottom, the 'VPN Server IP/Domain Name' field is empty.

5. Click [SAVE](#).

Tips:

- If you use [Dynamic IP](#) and [PPPoE](#) and you are provided with any other parameters that are not required on the page, please go to [Advanced > Network > Internet](#) to complete the configuration.
- If you still cannot access the internet, refer to the [FAQ](#) section for further instructions.

4.4. Set Up the Router as an Access Point

The router can work as an access point, transforming your existing wired network to a wireless one.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > System > Operation Mode**, select **Access Point Mode** and click **SAVE**. The router will reboot and switch to Access Point mode.



3. After rebooting, connect the router to your existing wired router via an Ethernet cable.
4. Log in again to the web management page <http://tplinkwifi.net>, and go to **Advanced > Quick Setup**.
5. Configure your wireless settings and click **NEXT**.
6. Confirm the information and click **SAVE**. Now, you can enjoy Wi-Fi.

☞ **Tips:**

- Functions, such as Parental Controls, QoS and NAT Forwarding, are not supported in the Access Point mode.
- Functions, such as Guest Network, are the same as those in the Router mode.

4.5. Set Up an IPv6 Internet Connection

Your ISP provides information about one of the following IPv6 internet connection types: PPPoE, Dynamic IP(SLAAC/DHCPv6), Static IP, 6to4 tunnel, Pass-Through (Bridge). After setting up the IPv6 internet connection, you can add IPv6 firewall rules to protect your IPv6 network.

- **Set up an IPv6 Internet Connection**

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Advanced](#) > [IPv6](#).
3. Enable IPv6 and select the internet connection type provided by your ISP.

🔗 Tips:

If you do not know what your internet connection type is, contact your ISP or judge according to the already known information provided by your ISP.

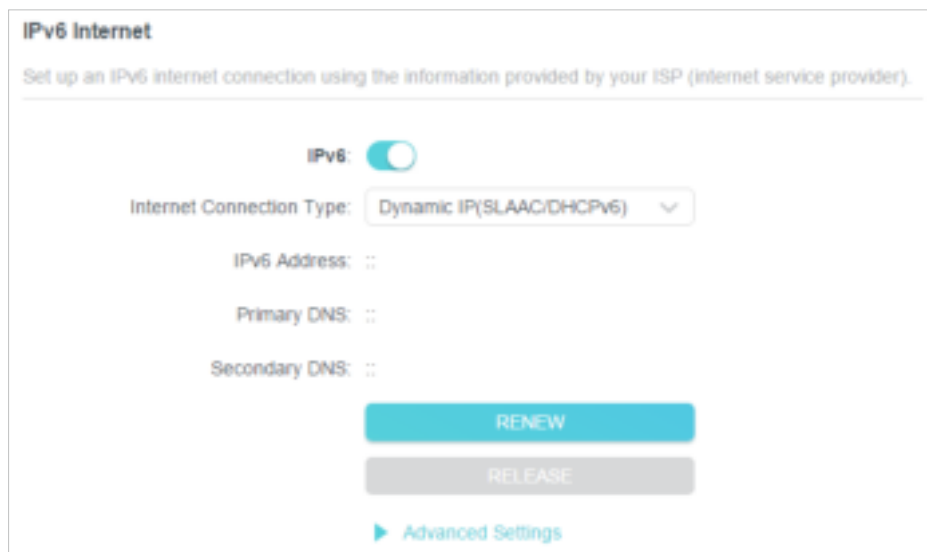
4. Fill in information as required by different connection types.

- 1) **Static IP:** Fill in blanks and click [SAVE](#).



The screenshot shows the 'IPv6 Internet' configuration page. At the top, it says 'Set up an IPv6 internet connection using the information provided by your ISP (internet service provider)'. Below this, the 'IPv6' toggle is turned on. The 'Internet Connection Type' is set to 'Static IP'. The fields for 'IPv6 Address', 'Default Gateway', 'Primary DNS', 'Secondary DNS', and 'MTU Size' are all empty. The 'MTU Size' field has a default value of '1500' and a note below it: 'bytes. (The default is 1500, do not change unless necessary)'.

- 2) **Dynamic IP(SLAAC/DHCPv6):** Click [Advanced](#) to input further information if your ISP requires. Click [SAVE](#) and then click [RENEW](#).

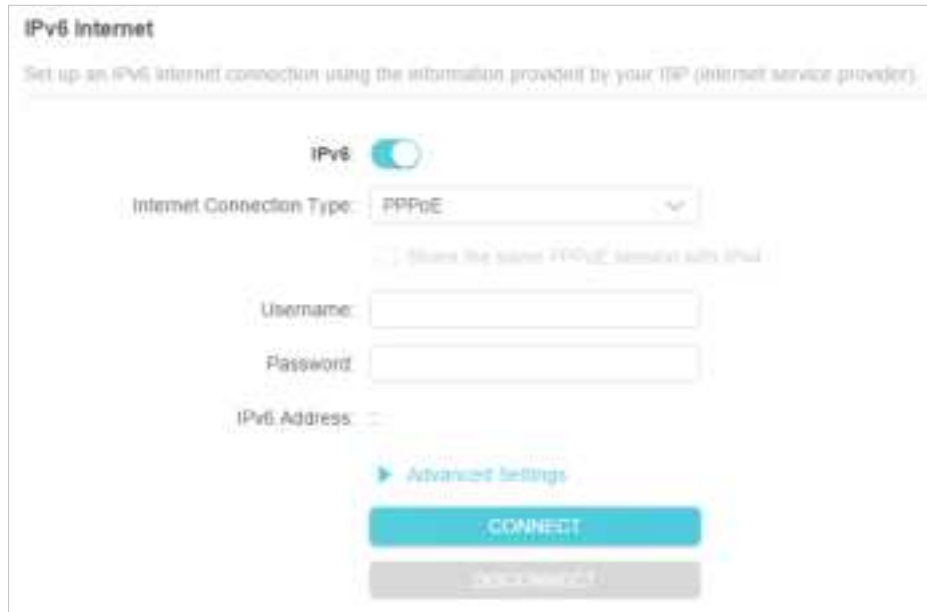


The screenshot shows the 'IPv6 Internet' configuration page. At the top, it says 'Set up an IPv6 internet connection using the information provided by your ISP (internet service provider)'. Below this, the 'IPv6' toggle is turned on. The 'Internet Connection Type' is set to 'Dynamic IP(SLAAC/DHCPv6)'. The fields for 'IPv6 Address', 'Primary DNS', and 'Secondary DNS' are all empty. At the bottom, there are two buttons: 'RENEW' (highlighted in blue) and 'RELEASE' (greyed out). Below these buttons is a link for 'Advanced Settings'.

- 3) **PPPoE:** By default, the router uses the IPv4 account to connect to the IPv6 server. Click [Advanced Settings](#) to input further information if your ISP requires. Click [SAVE](#) and then click [CONNECT](#).

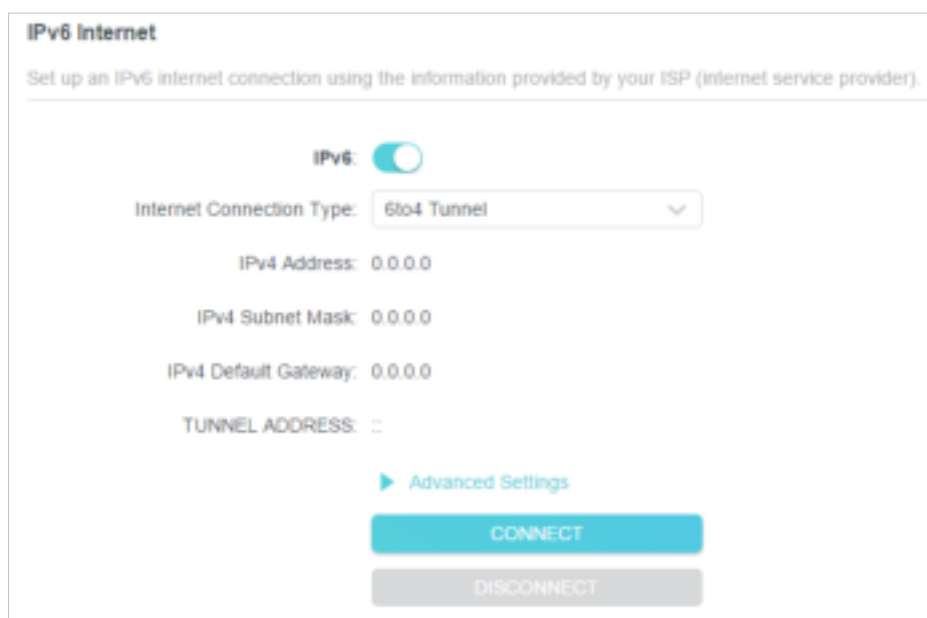
Note:

If your ISP provides two separate accounts for the IPv4 and IPv6 connections, manually enter the username and password for the IPv6 connection.



The screenshot shows the 'IPv6 Internet' configuration page. At the top, it says 'Set up an IPv6 internet connection using the information provided by your ISP (internet service provider)'. Below this, there is a toggle switch for 'IPv6' which is turned on. Underneath, 'Internet Connection Type' is set to 'PPPoE' in a dropdown menu. There is a checkbox labeled 'Share the same PPPoE account with IPv4' which is unchecked. Below these are input fields for 'Username' and 'Password'. Further down is an 'IPv6 Address' field with a double colon symbol. At the bottom, there is a link for 'Advanced Settings', a blue 'CONNECT' button, and a grey 'DISCONNECT' button.

- 4) **6to4 Tunnel:** An IPv4 internet connection type is a prerequisite for this connection type ([Manually Set Up Your Internet Connection](#)). Click [Advanced Settings](#) to input further information if your ISP requires. Click [SAVE](#) and then click [CONNECT](#).

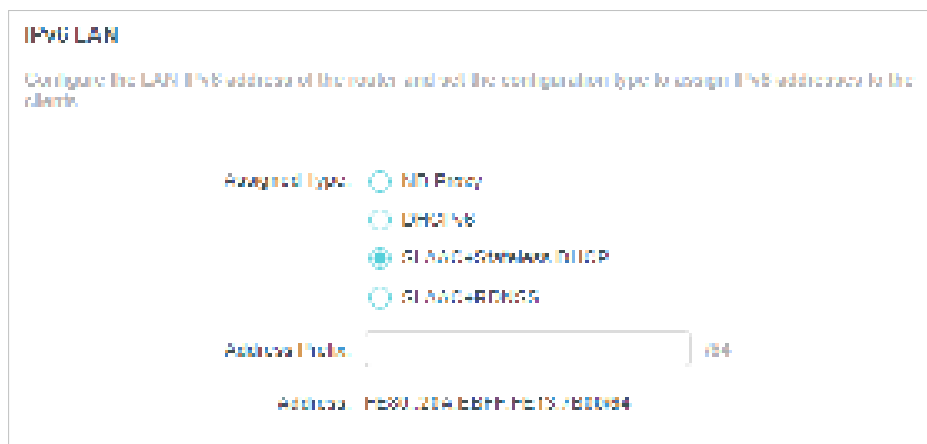


The screenshot shows the 'IPv6 Internet' configuration page for a 6to4 Tunnel. It has the same header as the previous screen. The 'IPv6' toggle is on. 'Internet Connection Type' is set to '6to4 Tunnel'. Below this, there are input fields for 'IPv4 Address' (0.0.0.0), 'IPv4 Subnet Mask' (0.0.0.0), and 'IPv4 Default Gateway' (0.0.0.0). There is also a 'TUNNEL ADDRESS' field with a double colon symbol. At the bottom, there is a link for 'Advanced Settings', a blue 'CONNECT' button, and a grey 'DISCONNECT' button.

- 5) **Pass-Through (Bridge):** Click **SAVE** and skip to Step 6.



5. Configure LAN ports. Windows users are recommended to choose from DHCPv6 and SLAAC+Stateless DHCP. Fill in **Address Prefix** provided by your ISP, and click **SAVE**.



6. In **MAC Clone** section, set the MAC address of your router. Use the default address unless your ISP allows internet access from only a specific MAC address.



7. Click **Status** to check whether you have successfully set up an IPv6 connection.

🔗 Tips:

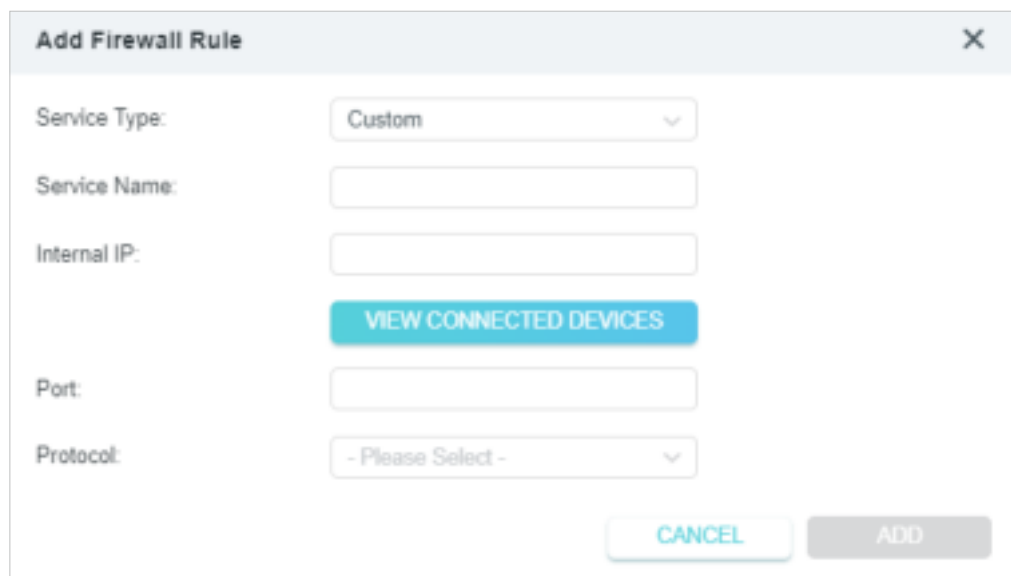
Visit the [FAQ](#) section if there is no internet connection.

• Set up IPv6 Firewall Rules

IPv6 Firewall protects your IPv6 network by preventing access from the internet. However, when you are hosting a service, such as a file sharing server in your local network, you can choose to allow access to the server from the internet by adding entries on this page. This feature is available only when you've set up an IPv6 connection.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.

2. Go to [Advanced](#) > [IPv6](#), and locate the **Firewall Rules** section.
3. Click [Add](#).
4. Select a service from the drop-down list of Service Type. The Port and Protocol will be automatically filled in. It is recommended to keep the default Port and Protocol if you are unsure about which to use. If the service is not listed, please manually enter the Service Type, and specify the Port and Protocol.



The 'Add Firewall Rule' dialog box contains the following fields and controls:

- Service Type:** A dropdown menu with 'Custom' selected.
- Service Name:** A text input field.
- Internal IP:** A text input field.
- VIEW CONNECTED DEVICES:** A blue button located below the Internal IP field.
- Port:** A text input field.
- Protocol:** A dropdown menu with '- Please Select -' selected.
- CANCEL:** A light blue button.
- ADD:** A grey button.

5. Specify a Service Name for the rule.
6. In the Internal IP field, enter a valid IPv6 address to run the service. You can click [Select from clients](#), choose a local host device, and its IPv6 address will be automatically filled in as the Internal IP.
7. Click [SAVE](#), and the newly created IPv6 firewall rule will appear in Firewall Rules.



Firewall Rules

Add IPv6 firewall rules to allow specific devices to access the specified services.

[+ Add](#)

Service Name	Port	Protocol	Status	Modify
Example	21	TCP	☒	✎ 🗑

Chapter 5

TP-Link Cloud Service

TP-Link Cloud service provides a better way to manage your cloud devices. Log in to your router with a TP-Link ID, and you can easily monitor and manage your home network when you are out and about via the Tether app. To ensure that your router stays new and gets better over time, the TP-Link Cloud will notify you when an important firmware upgrade is available. Surely you can also manage multiple TP-Link Cloud devices with a single TP-Link ID.

This chapter introduces how to register a new TP-Link ID, bind or unbind TP-Link IDs to manage your router, and the Tether app with which you can manage your home network no matter where you may find yourself.

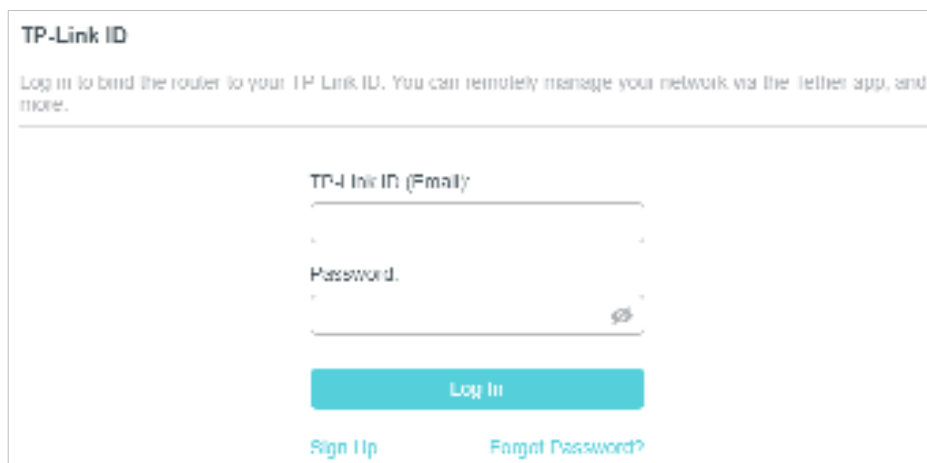
It contains the following sections:

- [Register a TP-Link ID](#)
- [Change Your TP-Link ID Information](#)
- [Manage the User TP-Link IDs](#)
- [Manage the Router via the TP-Link Tether App](#)

5.1. Register a TP-Link ID

If you have skipped the registration during the Quick Setup process, you can:

1. Visit <http://tplinkwifi.net>, and log in with the password you set for the router.
2. Go to [Advanced](#) > [TP-Link ID](#) or click [TP-Link ID](#) on the very top of the page.
3. Click [Sign Up](#) and follow the instructions to register a TP-Link ID.



4. After activating your TP-Link ID, come back to the TP-Link ID page to log in. The TP-Link ID used to log in to the router for the first time will be automatically bound as an [Admin](#).

Note:

- To learn more about the [Admin](#) and [User](#) TP-Link ID, refer to [Manage the User TP-Link IDs](#).
- Once you have registered a TP-Link ID on the web management page, you can only register another TP-Link ID via the Tether APP. Please refer to [Manage the Router via the TP-Link Tether App](#) to install the app.
- If you want to unbind the admin TP-Link ID from your router, please go to [Advanced](#) > [TP-Link ID](#), and click [Unbind](#) in the [Device Information](#) section.

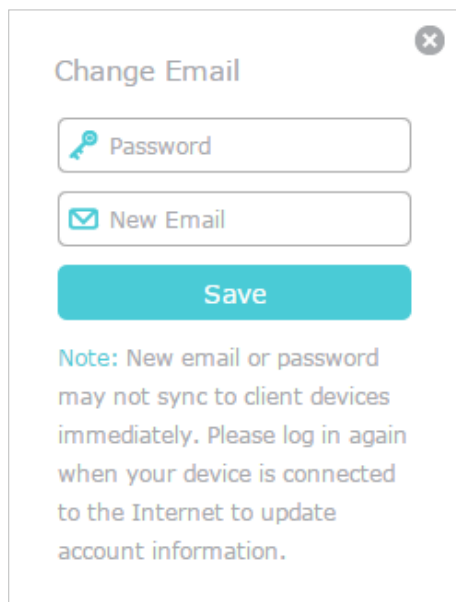
5.2. Change Your TP-Link ID Information

Follow the steps below to change your email address and password of your TP-Link ID as needed.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID.
2. Go to [Advanced](#) > [TP-Link ID](#), and focus on the [Account Information](#) section.

- **To change your email address:**

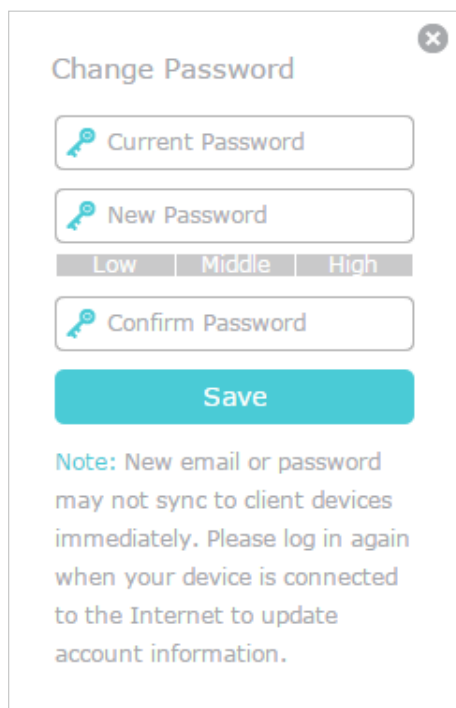
1. Click  behind the Email.
2. Enter the password of your TP-Link ID, then a new email address. And click [Save](#).



A dialog box titled "Change Email" with a close button (X) in the top right corner. It contains two input fields: "Password" with a key icon and "New Email" with an envelope icon. Below the fields is a teal "Save" button. A note at the bottom states: "Note: New email or password may not sync to client devices immediately. Please log in again when your device is connected to the Internet to update account information."

- **To change your password:**

1. Click  behind the Password.
2. Enter the current password, then a new password twice. And click [Save](#).



A dialog box titled "Change Password" with a close button (X) in the top right corner. It contains three input fields: "Current Password", "New Password", and "Confirm Password", each with a key icon. Below the "New Password" field are three tabs: "Low", "Middle", and "High". Below the fields is a teal "Save" button. A note at the bottom states: "Note: New email or password may not sync to client devices immediately. Please log in again when your device is connected to the Internet to update account information."

5.3. Manage the User TP-Link IDs

The TP-Link ID used to log in to the router for the first time will be automatically bound as the [Admin](#) account. An admin account can add or remove other TP-Link IDs to or

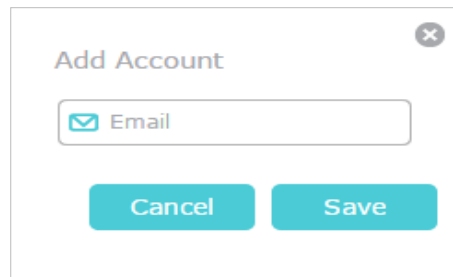
from the same router as **Users**. All accounts can monitor and manage the router locally or remotely, but user accounts cannot:

- Reset the router to its factory default settings either on the web management page or in the Tether app.
- Add/remove other TP-Link IDs to/from the router.

5.3.1. Add TP-Link ID to Manage the Router

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID.
2. Go to **Advanced > TP-Link ID**, and focus on the **Bound Accounts** section.
3. Click **+ Bind**, enter another TP-Link ID as needed and click **Save**.

Note: If you need another TP-Link ID, please register a new one via the Tether app. Refer to [Manage the Router via the TP-Link Tether App](#) to install the app and register a new TP-Link ID.



The image shows a modal dialog box titled "Add Account" with a close button (X) in the top right corner. Inside the dialog, there is a text input field with a blue envelope icon and the placeholder text "Email". Below the input field are two buttons: "Cancel" and "Save", both in a teal color.

4. The new TP-Link ID will be displayed in the Bound Accounts table as a **User**.



The image shows a table titled "Bound Accounts" with a "Bind" (+) and "Unbind" (-) button in the top right corner. The table has five columns: a checkbox, ID, Email, Binding Date, and Role. There are two rows of data. The first row has ID 1, a blurred email, a blurred binding date, and the role "Admin". The second row has ID 2, a blurred email, a blurred binding date, and the role "User", which is highlighted with a yellow box.

☐	ID	Email	Binding Date	Role
☐	1	blurred_email@tplink.com	blurred_date	Admin
☐	2	blurred_email@tplink.com	blurred_date	User

5.3.2. Remove TP-Link ID(s) from Managing the Router

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID.
2. Go to **Advanced > TP-Link ID**, and focus on the **Bound Accounts** section.
3. Tick the checkbox(es) of the TP-Link ID(s) you want to remove and click **Unbind**.

Bound Accounts				
Bind Unbind				
☐	ID	Email	Binding Date	Role
☐	1	admin_123456789@tp-link.com	2020-01-01	Admin
☒	2	admin_123456789@tp-link.com	2020-01-01	User

5.4. Manage the Router via the TP-Link Tether App

The Tether app runs on iOS and Android devices, such as smartphones and tablets.

1. Launch the Apple App Store or Google Play store and search “TP-Link Tether” or simply scan the QR code to download and install the app.



2. Launch the Tether app and log in with your TP-Link ID.

Note: If you don't have a TP-Link ID, create one first.

3. Connect your device to the router's wireless network.
4. Go back to the Tether app, select the model of your router and log in with the password you set for the router.
5. Manage your router as needed.

Note: If you need to remotely access your router from your smart devices, you need to:

- Log in with your TP-Link ID. If you don't have one, refer to [Register a TP-Link ID](#).
- Make sure your smartphone or tablet can access the internet with cellular data or a Wi-Fi network.

Chapter 6

Network Map

Network Map outlines device connectivity of your network visually and helps you manage general settings of the network.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
 2. Go to [Network Map](#).
 3. Click each network device icon to check and manage general network settings.
- Click [Internet](#) to check internet status.



- Click the router to check device status and network settings. You can click [Edit](#) to change related settings.

Router Information

Device Name

Archer B6400

IPv4 LAN IP

192.168.0.1

LAN MAC Address

00:0A:0D:00:00:00

IPv6 LAN IP

FE80::20A:0001:0000:0000

Wireless

Band

Network Name (SSID)

Password

Channel

Status

2.4 GHz / 5 GHz

TP-Link_A044

12345678

2.4G Auto (Current: 1)
5G Auto (Current: 40)

On

MU-MIMO Network

TP-Link_A044_MU-MIMO

12345678

Off

Guest Network

Band

Network Name (SSID)

Password

Channel

Status

2.4 GHz

TP-Link_Guest_A044

12345678

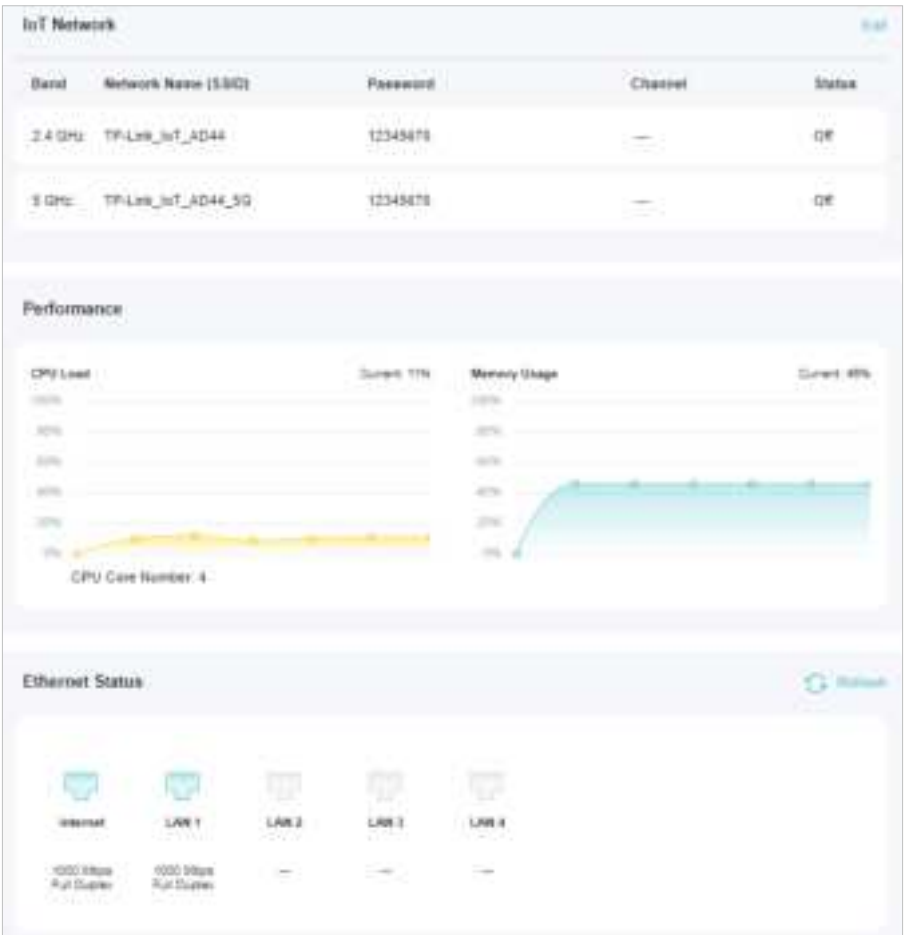
Off

5 GHz

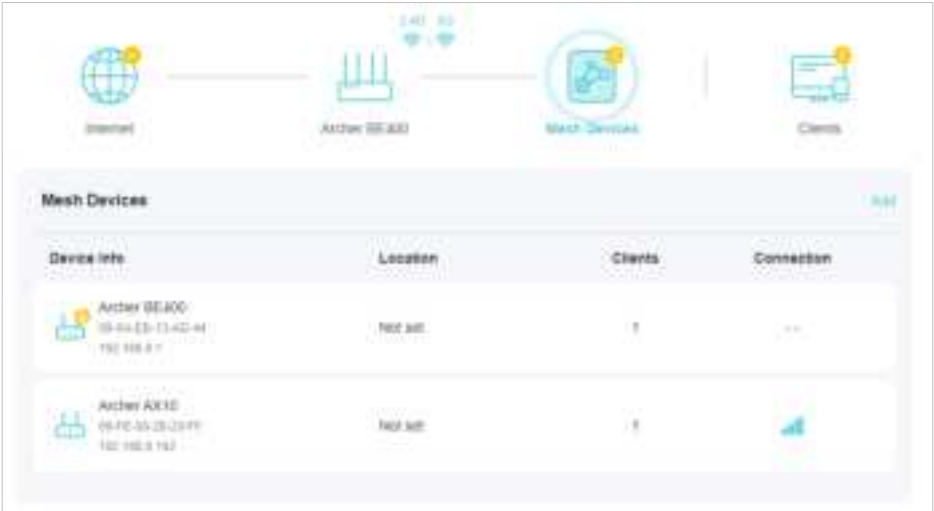
TP-Link_Guest_A044_5G

12345678

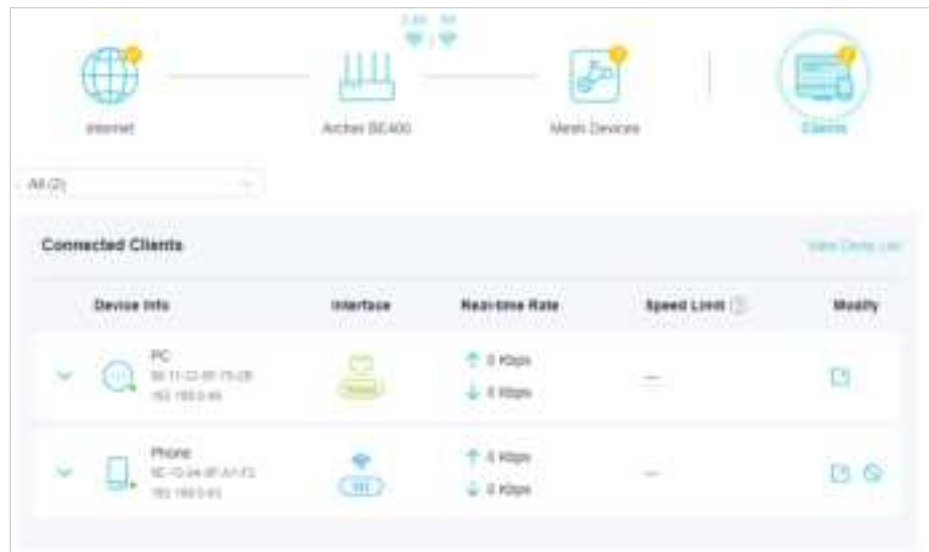
Off



- Click [Mesh Devices](#) to view the devices that form a mesh network with the router.

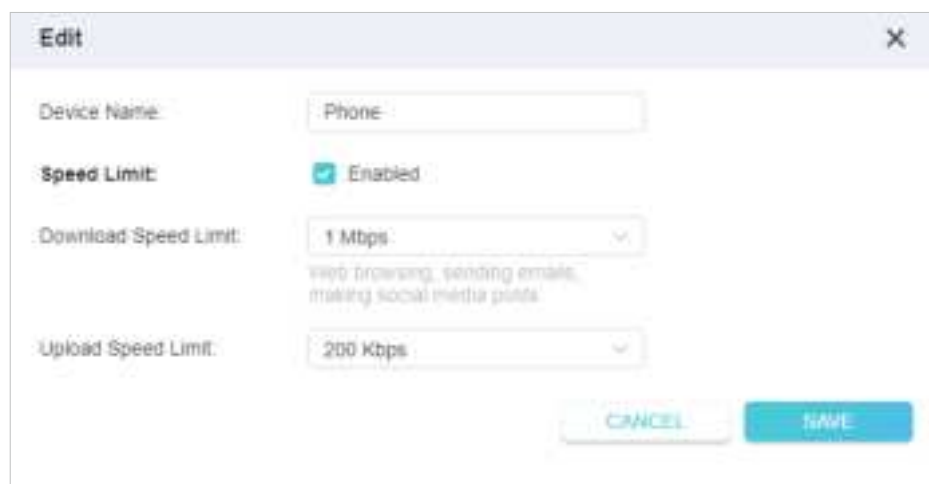


- Click [Clients](#) to view the client devices in your network. You can block devices so they cannot access your network, or set [Speed Limit](#) to limit their upload and download speeds.



To limit the speeds of a device:

1. Click  in the **Modify** column.
2. Enable **Speed Limit**.
3. Set the download and upload speed limit according to your needs.
4. Click **SAVE**. The speeds of the device will be limited.



Chapter 7

Wireless Settings

This chapter guides you on how to configure the wireless settings.

It contains the following sections:

- [Specify Wireless Settings](#)
- [Schedule Your Wireless Function](#)
- [Use WPS for Wireless Connection](#)
- [Advanced Wireless Settings](#)

7.1. Specify Wireless Settings

The router's wireless network names (SSIDs), password, and security option are preset in the factory. The preset SSIDs and password can be found on the label of the router. You can customize the wireless settings according to your needs.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Wireless](#) or [Advanced > Wireless > Wireless Settings](#).

- **To enable or disable TWT:**

TWT (Target Wake Time) allows 802.11ax routers and clients to negotiate their periods to transmit and receive data packets. Clients only wake up at TWT sessions and remain in sleep mode for the rest of the time, which significantly extend their battery life. It is disabled by default.

1. Go to [Advanced > Wireless > Wireless Settings](#).
2. Enable [TWT](#).

- **To enable or disable OFDMA/MU-MIMO:**

OFDMA enables multiple users to transmit data simultaneously, and thus greatly improves speed and efficiency. Note that only when your clients also support OFDMA, can you fully enjoy the benefits. It is disabled by default.

A router with the MU-MIMO feature serves multiple devices simultaneously while a traditional router serves only one user at a time. That means MU-MIMO can provide a faster, more efficient Wi-Fi network for multiusers. It is disabled by default.

 **Note:** Devices supporting 5GHz wireless band can enjoy the MU-MIMO service.

1. Go to [Advanced](#) > [Wireless](#) > [Wireless Settings](#).
2. Select [OFDMA+MU-MIMO](#) or [OFDMA only](#).

- **To use the Smart Connect function:**

Smart Connect combines the 2.4 GHz and 5 GHz bands and assigns your devices between them to balance network demands.

1. Go to [Advanced](#) > [Wireless](#) > [Wireless Settings](#).
2. Enable [Smart Connect](#).



3. Keep the default values or set a new SSID and password, and click [SAVE](#). This SSID and password will be applied for the 2.4 GHz and 5 GHz wireless networks. If you want to configure the wireless settings separately for each band, deselect the checkbox to disable this feature.

- **To enable or disable the wireless function:**

1. Go to [Wireless](#) or [Advanced](#) > [Wireless](#) > [Wireless Settings](#).
2. The wireless bands are enabled by default. If you want to disable a wireless band, just deselect its [Enable](#) checkbox.

- **To change the wireless network name (SSID) and wireless password:**

1. Go to [Wireless](#) or [Advanced](#) > [Wireless](#) > [Wireless Settings](#).
2. Create a new SSID in [Network Name \(SSID\)](#) and customize the password for the network in [Password](#). The value is case-sensitive.

 **Note:** If you change the wireless settings with a wireless device, you will be disconnected when the settings are effective. Please write down the new SSID and password for future use.

- **To hide SSID:**

1. Go to [Wireless](#) or [Advanced](#) > [Wireless](#) > [Wireless Settings](#).
2. Select [Hide SSID](#), and your SSID won't display when you scan for local wireless networks on your wireless device and you need to manually join the network.

- **To change the security option:**

1. Go to [Advanced](#) > [Wireless](#) > [Wireless Settings](#).
2. Select an option from the [Security](#) drop-down list. We recommend you don't change the default settings unless necessary.

- **To change the transmit power:**

1. Go to [Advanced](#) > [Wireless](#) > [Wireless Settings](#).
2. Select an option from the [Transmit Power](#) drop-down list: [High](#), [Middle](#) or [Low](#). The default and recommended setting is [High](#).

- **To change channel settings:**

1. Go to [Advanced](#) > [Wireless](#) > [Wireless Settings](#).
2. Select a [Channel Width](#) (bandwidth) for the wireless network. It is recommended to just leave it as default.
3. Select an operating [Channel](#) for the wireless network. It is recommended to leave the channel to [Auto](#) if you are not experiencing the intermittent wireless connection issue.

- **To change the transmission mode:**

1. Go to [Advanced](#) > [Wireless](#) > [Wireless Settings](#).
2. For the 2.4 GHz and 5 GHz networks, disable [SmartConnect](#), then select a transmission [Mode](#) according to your wireless client devices. It is recommended to just leave it as default.

- **To create your MLO network:**

MLO (Multi-Link Operation) network enables the connected Wi-Fi 7 clients to simultaneously send and receive data across different frequency bands, greatly improving the transmission rate and reliability.

1. Go to [Advanced](#) > [Wireless](#) > [Wireless Settings](#), and locate the **MLO Network** section.
2. Enable **MLO Network**.
3. Specify an SSID in **Network Name (SSID)**.
4. Select the **Security** type. Specify a password if the security type you selected requires it. This value is case-sensitive.
5. You can also click [Share Network](#) to share the SSID and password with your guests.
6. If you select [Hide SSID](#), your SSID won't display when you scan for local wireless networks on your wireless device and you need to manually join the MLO network.
7. Click [SAVE](#) to save your settings.



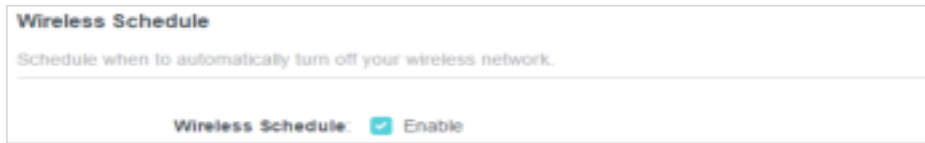
 Tips:

To view the MLO network information, go to [Network Map](#) and locate the [Wireless](#) section. You can turn on or off the MLO network conveniently.

7.2. Schedule Your Wireless Function

The wireless network can be automatically off at a specific time when you do not need the wireless connection.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Advanced](#) > [Wireless](#) > [Wireless Schedule](#).
3. Enable the [Wireless Schedule](#) feature.

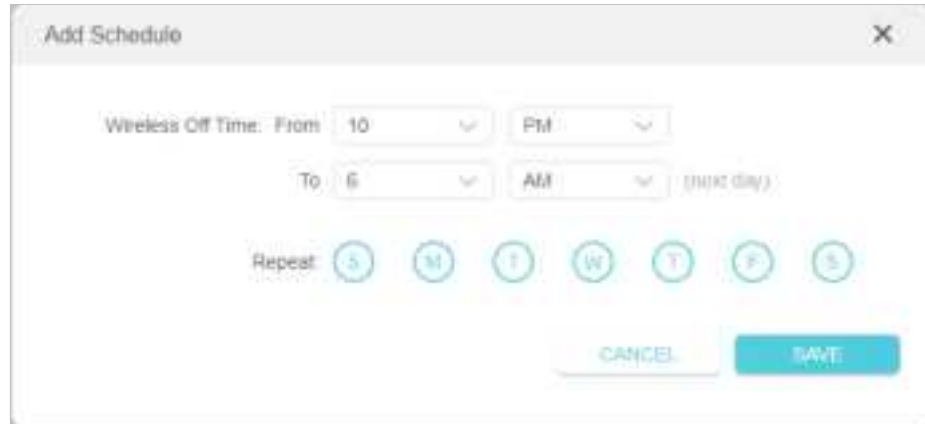


Wireless Schedule

Schedule when to automatically turn off your wireless network.

Wireless Schedule: ☒ Enable

4. Click [Add](#) to specify a wireless off period during which you need the wireless off automatically, and click [SAVE](#).



Add Schedule [X]

Wireless Off Time: From 10 PM To 6 AM (next day)

Repeat: ☒ S ☒ M ☒ T ☒ W ☒ T ☒ F ☒ S

[CANCEL](#) [SAVE](#)

Note:

- The Effective Time Schedule is based on the time of the router. You can go to [Advanced](#) > [System](#) > [Time & Language](#) to modify the time.
- The wireless network will be automatically turned on after the time period you set.

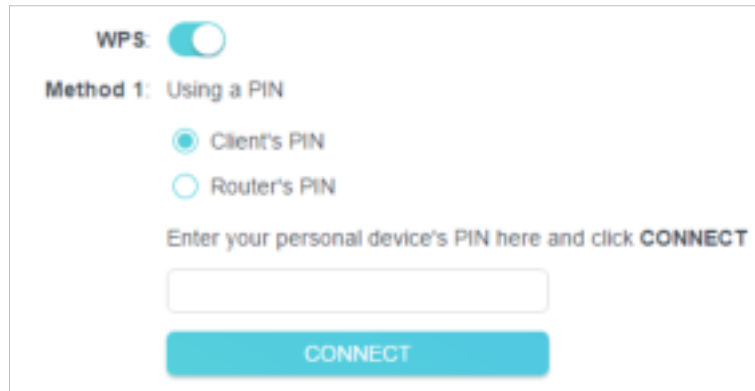
7.3. Use WPS for Wireless Connection

Wi-Fi Protected Setup (WPS) provides an easier approach to set up a security-protected Wi-Fi connection.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Make sure the Wi-Fi of your router is on and go to [Advanced](#) > [Wireless](#) > [WPS](#).

7.3.1. Connect via the Client's PIN

Enter the PIN of your device and click [Connect](#). Then your device will get connected to the router.



WPS: ☒

Method 1: Using a PIN

☒ Client's PIN

☐ Router's PIN

Enter your personal device's PIN here and click **CONNECT**

CONNECT

7.3.2. Connect via the Router's PIN

Select **Router's PIN** in **Method 1** to enable **Router's PIN**. You can use the default PIN or generate a new one.



Router's PIN: ☒

Enter the router's PIN on your personal device.

Router's PIN: **38337406**

GET NEW PIN

DEFAULT

Note:

PIN (Personal Identification Number) is an eight-character identification number preset to each router. WPS supported devices can connect to your router with the PIN. The default PIN is printed on the label of the router.

7.3.3. Push the WPS Button

Click **Start** on the screen or directly press the router's WPS button. Within two minutes, enable WPS on your personal device. **Success** will appear on the screen, indicating successful WPS connection.

Method 2: Using the button below

Click the button below, then enable WPS on your personal device within 2 minutes.

**Method 3:** Using the router's WPS button

Press the router's WPS button, then enable WPS on your personal device within 2 minutes.

7.4. Advanced Wireless Settings

Check advanced wireless settings for your device.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Advanced](#) > [Wireless](#) > [Additional Settings](#).
3. Configure advanced wireless settings.

Additional Settings
Check advanced wireless settings for your device.

WMM.	☒ Enabled
AP Isolation.	☒ Enabled
Antenna Tuning.	☒ Enabled
Zero Wait DFS.	☒ Enabled
Beacon Interval.	100
RTS Threshold.	2345
DTIM Interval.	1
Group Key Update Period.	0 s

- **WMM** - WMM function can guarantee the packets with high-priority messages being transmitted preferentially. This function is enabled by default and uneditable.

- **AP Isolation** - This function isolates all connected wireless stations so that wireless stations cannot access each other through WLAN.
- **Airtime Fairness** - This function can improve the overall network performance by sacrificing a little bit of network time on your slow devices.
- **Beacon Interval** - Enter a value between 40 and 1000 in milliseconds to determine the duration between beacon packets that are broadcasted by the router to synchronize the wireless network. The default value is 100 milliseconds.
- **RTS Threshold** - Enter a value between 1 and 2346 to determine the packet size of data transmission through the router. By default, the RTS (Request to Send) Threshold size is 2346. If the packet size is greater than the preset threshold, the router will send RTS frames to a particular receiving station and negotiate the sending of a data frame.
- **DTIM Interval** - The value determines the interval of DTIM (Delivery Traffic Indication Message). Enter a value between 1 and 15 intervals. The default value is 1, which indicates the DTIM Interval is the same as Beacon Interval.
- **Group Key Update Period** - Enter a number of seconds (minimum 30) to control the time interval for the encryption key automatic renewal. The default value is 0, meaning no key renewal.

Chapter 8

Guest Network

This function allows you to provide Wi-Fi access for guests without disclosing your main network. When you have guests in your house, apartment, or workplace, you can create a guest network for them. In addition, you can customize guest network options to ensure network security and privacy.

It contains the following sections:

- [Create a Network for Guests](#)
- [Customize Guest Network Options](#)

8.1. Create a Network for Guests

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Advanced](#) > [Wireless](#) > [Guest Network](#) or click [Wireless](#) on the top page. Locate the [Guest Network](#) section.
3. Create a guest network as needed.
 - 1) Tick the Enable checkbox for the 2.4GHz or 5 GHz wireless network.
 - 2) Customize the SSID. Don't select [Hide SSID](#) unless you want your guests to manually input the SSID for guest network access.
 - 3) Enable [Bandwidth Control](#) if you want to limit the network speed of your guests. Then enter the limited bandwidth value.
 - 4) Set the effective time to keep the guest network.
 - 5) Select the [Security](#) type and customize your own password. If [No security](#) is selected, no password is needed to access your guest network.

Guest Network
Find the wireless bands you want your guests to use and complete the related information

2.4 GHz: ☒ **Enable** [Share Network](#)

Network Name (SSID): [Hide SSID](#)

Bandwidth Control: ☒ **Enable**

Download Bandwidth: Mbps

Upload Bandwidth: Mbps

5 GHz: ☐ **Enable**

Effective Time:

Security:
This security type is not considered secure. Consider selecting a more secure encryption.

4. Click [SAVE](#). Now your guests can access your guest network using the SSID and password you set!
5. You can also click [Share Network](#) to share the SSID and password to your guests.

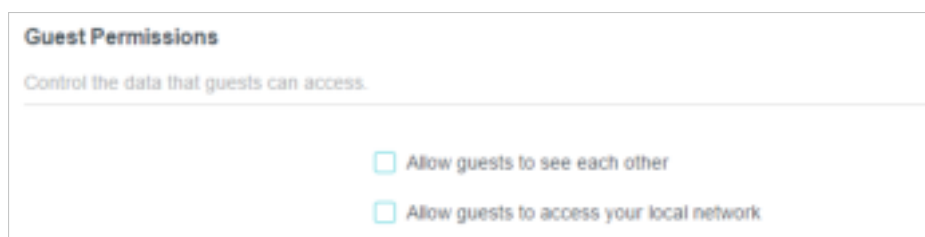


 Tips:

To view guest network information, go to [Network Map](#) and locate the [Guest Network](#) section. You can turn on or off the guest network function conveniently.

8.2. Customize Guest Network Options

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Advanced](#) > [Wireless](#) > [Guest Network](#). Locate the [Guest Permissions](#) section.
3. Customize guest network options according to your needs.



- [Allow guests to see each other](#)

Tick this checkbox if you want to allow the wireless clients on your guest network to communicate with each other via methods such as network neighbors and Ping.

- [Allow guests to access your local network](#)

Tick this checkbox if you want to allow the wireless clients on your guest network to communicate with the devices connected to your router's LAN ports or main network via methods such as network neighbors and Ping.

4. Click [SAVE](#). Now you can ensure network security and privacy!

Chapter 9

IoT Network

This router can create a dedicated wireless network for you to manage your IoT devices together, such as smart lights and cameras, enhancing their connection stability.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Advanced](#) > [Wireless](#) > [IoT Network](#).
3. Create an IoT network as needed.
 - 1) Tick the Enable checkbox for the 2.4GHz, or 5 GHz wireless network. For the 5 GHz network, make sure your IoT devices can connect to a 5 GHz network.
 - 2) Customize the SSID. Don't select [Hide SSID](#) unless you want your IoT devices to manually input the SSID for network access.
 - 3) Select the [Security](#) type and customize your own password. If [No security](#) is selected, no password is needed to access the IoT network.

The screenshot shows the 'IoT Network' configuration page. At the top, it says 'Create a dedicated wireless network to manage your IoT devices together, such as smart lights and cameras.' Below this, there are two sections for 2.4GHz and 5GHz networks. The 2.4GHz section has 'Enable' checked, a 'Share Network' link, and a QR code. The 5GHz section has 'Enable' checked, a 'Share Network' link, and a 'Save Picture' link. Both sections have fields for Network Name (SSID), Security, and Password. The 2.4GHz section shows a QR code and a 'Share Network' link. The 5GHz section shows a 'Save Picture' link and a 'Share Network' link.

2.4GHz	5GHz
☒ Enable	☒ Enable
Network Name (SSID): TP-Link	Network Name (SSID): TP-Link_IoT_5G
Security: WPA2-PSK	Security: WPA2-PSK[AEK]
Password: 123456	Password: 12345678
Share Network	Share Network
	Save Picture

4. Click [SAVE](#). Now you can connect your IoT devices to the dedicated IoT network.
5. You can also click [Share Network](#) to share the SSID and password to others.

Chapter 10

USB Settings

This chapter describes how to use the USB ports to share files and media from the USB storage devices over your home network locally, or remotely through the internet.

The router supports USB external flash drives and hard drives.

It contains the following sections:

- [Access the USB Storage Device](#)
- [Media Sharing](#)
- [Time Machine](#)

10.1. Access the USB Storage Device

Insert your USB storage device into the router's USB port and then access files stored there locally or remotely.

 Tips:

- If you use USB hubs, make sure no more than 4 devices are connected to the router.
- If the USB storage device requires using bundled external power, make sure the external power has been connected.
- If you use a USB hard drive, make sure its file system is FAT32, exFat, NTFS or HFS+.
- Before you physically disconnect a USB device from the router, safely remove it to avoid data damage: Go to [Advanced](#) > [USB](#) > [Storage Sharing](#) and click [Remove](#).

10.1.1. Access the USB Device Locally

Insert your USB storage device into the router's USB port and then refer to the following table to access files stored on your USB storage device.

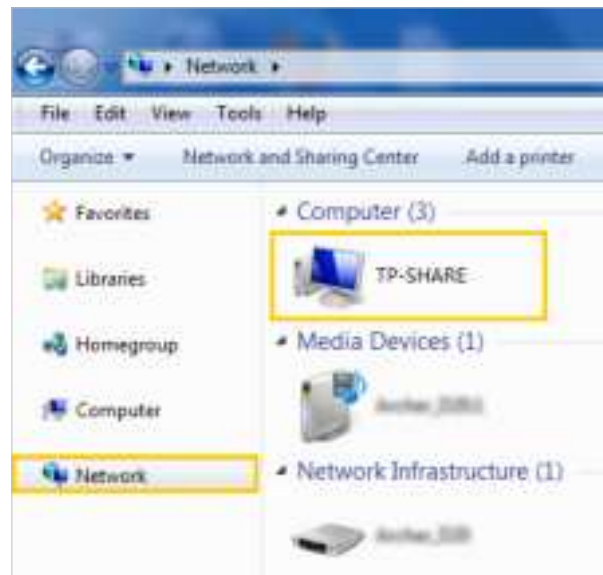
- **Method 1:**

Go to [Computer](#) > [Network](#), then click the Network Server Name ([TP-SHARE](#) by default) in the [Computer](#) section.

 Note:

Operations in different systems are similar. Here we take Windows 7 as an example.

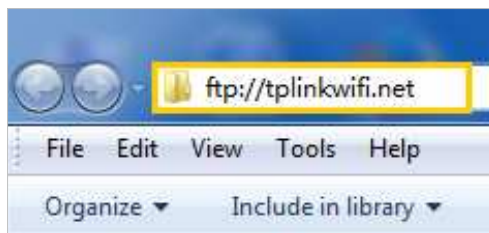
**Windows
computer**



Windows computer

- **Method 2:**

Open the [Windows Explorer](#) (or go to [Computer](#)) and type the server address [\\tplinkwifi.net](#) or [ftp://tplinkwifi.net](#) in the address bar, then press [Enter](#).



Mac

- 1) Select [Go > Connect to Server](#).
- 2) Type the server address [smb://tplinkwifi.net](#).
- 3) Click [Connect](#).



- 4) When prompted, select the [Guest](#) radio box. (If you have set up a username and a password to deny anonymous access to the USB disks, you should select the [Registered User](#) radio box. To learn how to set up an account for the access, refer to [To Set Up Authentication for Data Security](#).)

Tablet

Use a third-party app for network files management.

Tips:

You can also access your USB storage device by using your Network/Media Server Name as the server address. Refer to [To Customize the Address of the USB Storage Device](#) to learn more.

10. 1. 2. Access the USB Device Remotely

You can access your USB disk outside the local area network. For example, you can:

- Share photos and other large files with your friends without logging in to (and paying for) a photo-sharing site or email system.
- Get a safe backup for the materials for a presentation.
- Remove the files on your camera's memory card from time to time during the journey.

Note:

If your ISP assigns a private WAN IP address (such as 192.168.x.x or 10.x.x.x), you cannot use this feature because private addresses are not routed on the internet.

Follow the steps below to configure remote access settings.

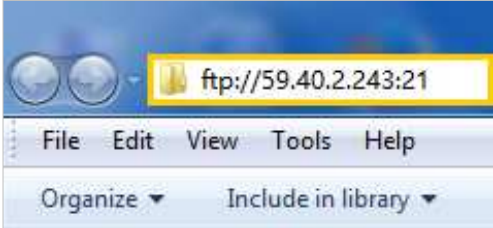
1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > USB > Storage Sharing**.
3. Tick the **Internet FTP** checkbox, and then click **SAVE**.

Access Method
Select the method for accessing your USB storage device. The device can then be reached via the access address.

Network/Media Server Name:

Access Method	Address	Enable	Port	Modify
Samba for Windows Samba for macOS/Linux	\\192.168.0.1 smb://192.168.0.1	☒	—	
Local FTP	ftp://192.168.0.1:21	☒	21	
Internet FTP	ftp://10.160.53.49:21 <i>Set DNS</i>	☒	21	

4. Refer to the following table to access your USB disk remotely.

Computer	1) Open the Windows Explorer (or go to Computer, only for Windows users) or open a web browser. 2) Type the server address in the address bar: Type in ftp://<WAN IP address of the router>:<port number> (such as ftp://59.40.2.243:21). If you have specified the domain name of the router, you can also type in ftp://<domain name>:<port number> (such as ftp://MyDomainName:21)  3) Press Enter on the keyboard. 4) Access with the username and password you set in To Set Up Authentication for Data Security.  Tips: You can also access the USB disk via a third-party app for network files management, which can resume broken file transfers.
Tablet	Use a third-party app for network files management.

 Tips:

Click [Set Up a Dynamic DNS Service Account](#) to learn how to set up a domain name for you router.

10. 1. 3. Customize the Access Settings

By default, all the network clients can access all folders on your USB disk. You can customize your sharing settings by setting a sharing account, sharing specific contents and setting a new sharing address on the router's web management page.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Advanced](#) > [USB](#) > [Storage Sharing](#).

- **To Customize the Address of the USB Storage Device**

You can customize the server name and use the name to access your USB storage device.

1. In the [Access Method](#) session, make sure [Samba for Windows Samba for macOS/Linux](#) is ticked, and enter a [Network/Media Server Name](#) as you like, such as [MyShare](#), then click [SAVE](#).

Access Method
Select the method for accessing your USB storage device. The device can then be reached via the access address.

Network/Media Server Name:

Access Method	Address	Enable	Port	Modify
Samba for Windows Samba for macOS/Linux	\\192.168.0.1 smb://192.168.0.1	☒	—	
Local FTP	ftp://192.168.0.1:21	☒	21	
Internet FTP	ftp://10.160.53.49:21 Set DNS	☒	21	

- Now you can access the USB storage device by visiting [\\MyShare](#) (for Windows) or [smb://MyShare](#) (for Mac).

- To Only Share Specific Content**

Focus on the [File Sharing](#) section. Specify sharing folders that you want to share and click [SAVE](#).

Sharing Contents:

Share Selected Folders

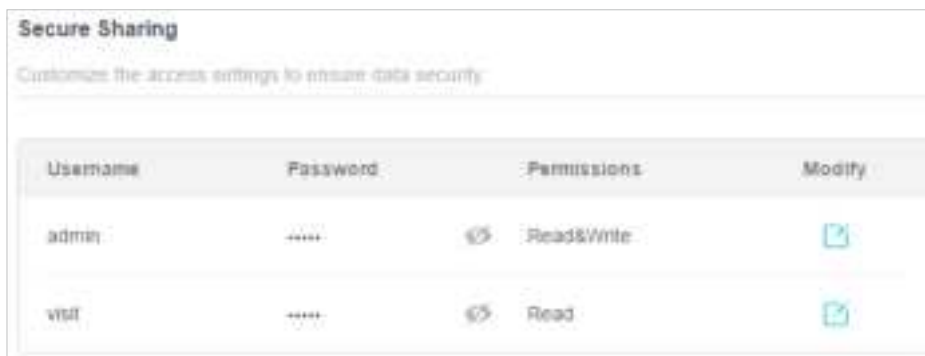
☒ G:/Document

☐ G:/Pictures

- To Set Up Authentication for Data Security**

You can set up authentication for your USB storage device so that network clients will be required to enter username and password when accessing the USB storage device.

- In the [File Sharing](#) section, enable [Secure Sharing](#).



- Click to modify the access account, and pay attention to the default username and password. Accessing as an administrator can read and modify the shared folders while visitors can only read the shared folders.

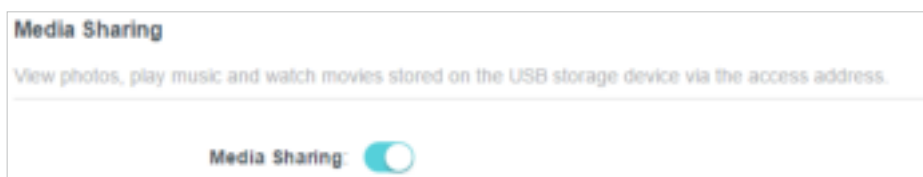
Note:

- For Windows users, do not set the sharing username the same as the Windows username. Otherwise, Windows credential mechanism may cause the following problems:
 - If the sharing password is also the same as the Windows password, authentication will not work since the Windows will automatically use its account information for USB access.
 - If the sharing password is different from the Windows password, the Windows will be unable to remember your credentials and you will always be required to enter the sharing password for USB access.
- Due to Windows credential mechanism, you might be unable to access the USB disk after changing Authentication settings. Please log out from the Windows and try to access again. Or you can change the address of the USB disk by referring to [To Customize the Address of the USB Storage Device](#).

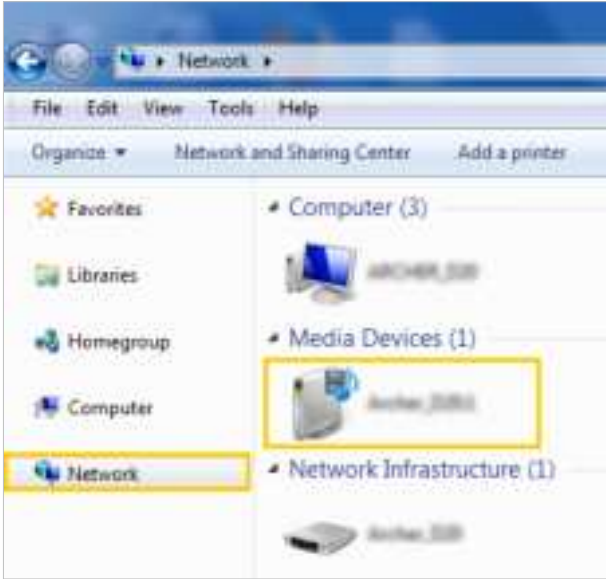
10.2. Media Sharing

The feature of **Media Sharing** allows you to view photos, play music and watch movies stored on the USB storage device directly from DLNA-supported devices, such as your computer, tablet and PS2/3/4.

- Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
- Go to **Advanced > USB > Storage Sharing**.
- Enable **Media Sharing**.



- When your USB storage device is inserted into the router, your DLNA-supported devices (such as your computer and pad) connected to the router can detect and play the media files on the USB storage devices.
- Refer to the following table for detailed instructions.

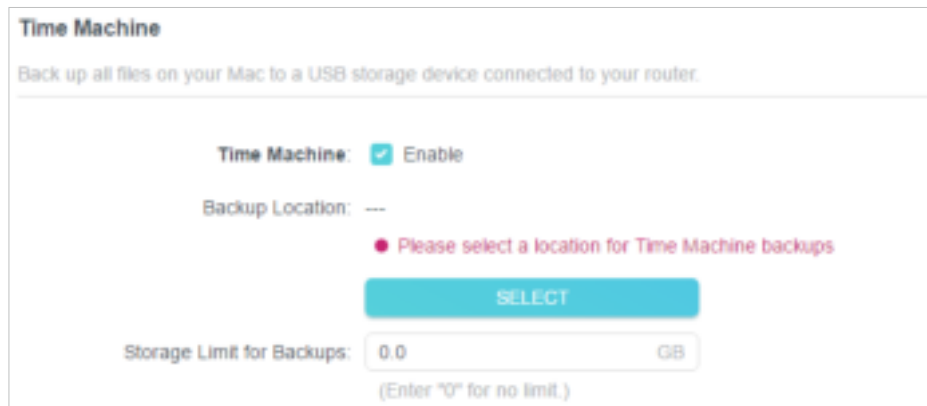
Windows Computer	• Go to Computer > Network, then click the Media Server Name (Model number-share by default) in the Media Devices section. Note: Here we take Windows 7 as an example.  The screenshot shows a Windows 7 'Network' window. On the left sidebar, 'Network' is selected and highlighted with a yellow box. The main pane shows a tree view with three categories: 'Computer (3)', 'Media Devices (1)', and 'Network Infrastructure (1)'. Under 'Media Devices (1)', a single device icon is shown and highlighted with a yellow box. The device name is partially visible as '...share (2000)'.
Tablet	• Use a third-party DLNA-supported player.

10.3. Time Machine

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
 2. Go to [Advanced](#) > [USB](#) > [Time Machine](#).
- You can follow the web instructions to back up all files on your Mac to a USB storage device connected to your router.



- Or follow the instructions below:



1. Tick the checkbox to enable [Time Machine](#).
 2. Click [SELECT](#) to select a location for Time Machine backups.
 3. Set the [Size Limit for Backups](#).
- Note: 0 means no limit for the space.
4. Click [SAVE](#).

Chapter 11

HomeShield

Customize your home network with enhanced security using a kit of features built in TP-Link HomeShield. Whether protecting your sensitive data or limiting the access of kids and guests, TP-Link HomeShield provides you the tools you need to fully manage your network.

It contains the following sections:

- [Network Check](#)
- [Parental Controls](#)
- [QoS](#)
- [More Features](#)

*For an easier way to check your home network protection system, you can download the Tether app to enjoy full Homeshield Pro feature.

11.1. Network Check

Scan your whole network to help analyze and optimize your network.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Advanced](#) > [HomeShield](#) > [Network Check](#).
3. Click [SCAN](#).
4. Optimize your network according to the tips.

Network Check
Check your network for better network performance and security.



The following items can be optimized.

- Router Security Perfect
- Wireless Security 1 risk

[RESCAN](#)

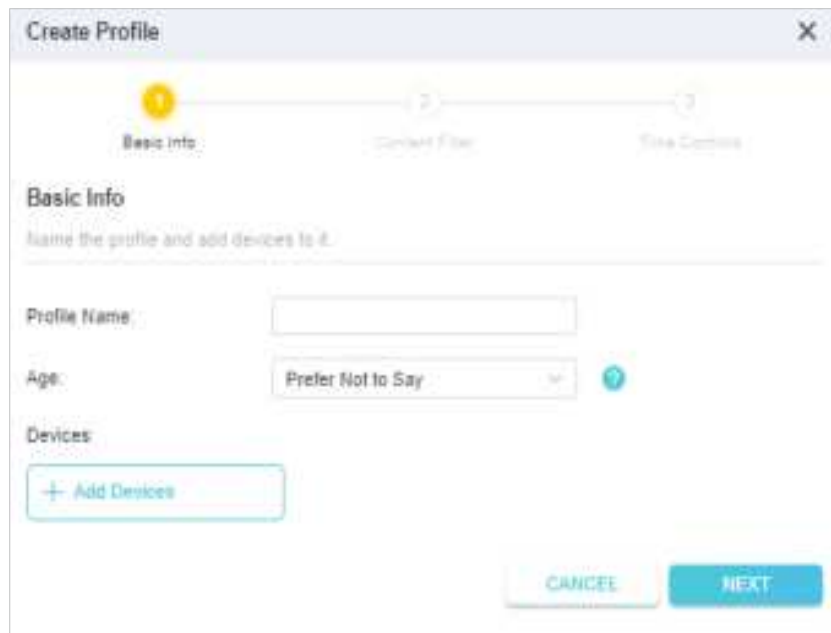
Router Security ?	
Firmware Version	✓
Remote Management	✓
Respond to Pings from WAN	✓
Port Forwarding	✓
Port Triggering	✓
DMZ	✓

Wireless Security ?	
Wireless Encryption	✓
WiFi Password Weak Password WiFi password is not strong. It is recommended to use a combination of letters, numbers, and symbols for the password.	✗
Guest Network	✓

11.2. Parental Controls

Parental Controls allows you to set up unique restrictions on internet access for each member of your family. You can block inappropriate content, set daily limits for the total time spent online and restrict internet access to certain times of the day.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Advanced](#) > [HomeShield](#) > [Parental Controls](#).
3. Click  [Add](#) to create a profile for a family member.
4. Add basic profile information.



- 1) Enter a [Name](#) for the profile to make it easier to identify. Set the age to get the corresponding filter level.
 - 2) Click [+ Add Devices](#).
 - 3) Select the devices that belong to this family member. Access restrictions will be applied to these devices. Click [Add](#) when finished.
 **Note:** Only devices that have previously been connected to your router's network are listed here. If you are unable to find the device you want to add, connect it to your network and then try again.
 - 4) Click [NEXT](#)
5. Block content for this profile.

The screenshot shows the 'Create Profile' window with a progress bar at the top indicating three steps: 1. Basic Info (completed), 2. Content Filter (current step), and 3. Time Controls. The 'Content Filter' section has a subtitle 'Select categories to block the corresponding content.' Below this is a 'Select Categories' section with a help icon. It contains seven checkboxes: 'Mature Content' (checked), 'Chat Messaging' (checked), 'Social' (unchecked), 'Online Shopping' (unchecked), 'Streaming Media' (unchecked), 'File Sharing' (unchecked), and 'Gaming' (unchecked). Below the categories is a 'Blocked Websites' section with the instruction 'Block a specific website by adding a URL, or block all websites containing a specific keyword.' It features a text input field 'Enter a keyword or URL' and an 'Add' button. The 'Allowed Websites' section follows with the instruction 'Allow access to specific websites that would be blocked by the Content Filter. You can also add from the Blocked History.' It also has a text input field 'Enter a keyword or URL' and an 'Add' button. At the bottom right are 'BACK' and 'NEXT' buttons.

- 1) Select the content categories to block in the [Content Filter](#) list.
 - 2) You can also block/allow a specific website. Enter a keyword (for example, "Facebook") or a URL (for example, "www.facebook.com"), then click [Add](#).
 - 3) Click [NEXT](#).
6. Set time restrictions on internet access.

Create Profile

Basic Info Content Filter Time Controls

Time Controls

Set internet access time for the profile

Bedtime ☒

When enabled, internet is unavailable during this period:

From: 09 : 00 PM

To: 07 : 00 AM (next day)

Want more flexible time controls? Go to HomeShield > More Features for a detailed introduction and download Tether to enjoy full Homeshield Pro feature.

BACK SAVE

- 4) Enable [Bedtime](#) and use the up/down arrows or enter times in the fields. Devices under this profile will be unable to access the internet during this time period.
- 5) Click [SAVE](#).
- 6) After adding a profile, you can click the Insight icon to check the detailed visited history, and click  to pause the network for this profile anytime.

Parental Controls

Easily manage your kid's online activities by blocking inappropriate content, setting online time limits, and creating flexible schedules.

Current Time: 2022-09-09 2:28:48 AM

Note: To get accurate time, controls that take effect based on system time, go to [Time Settings](#) to check Get from Internet is selected.

[Add](#)

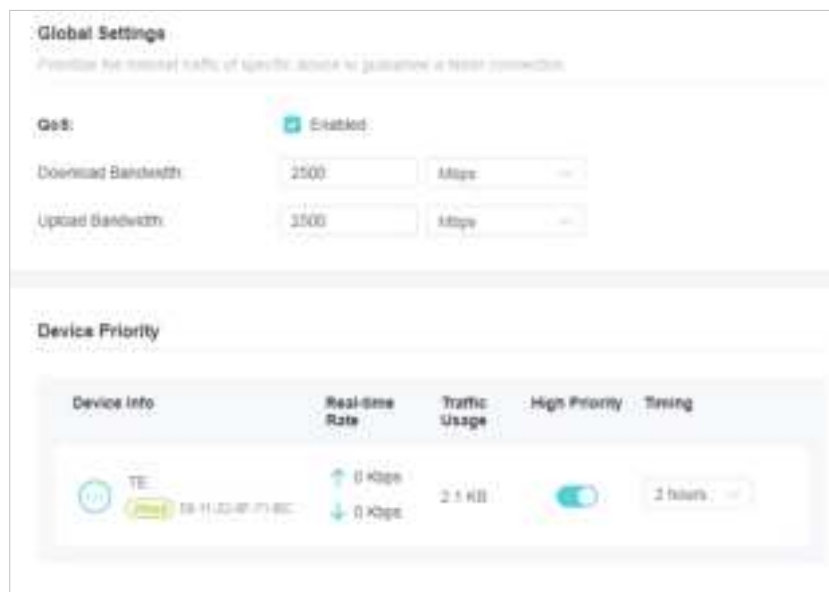
Name	Time Spent Online	Devices	Insights	Internet Access	Modify
Simon	0	0			 

Note: You can go to [Advanced](#) > [HomeShield](#) > [More Features](#) for a detailed introduction and download Tether to enjoy full Homeshield Pro feature.

11.3. QoS

QoS (Quality of Service) allows you to prioritize connection of specific devices for a set duration. Devices set as high priority will be allocated more bandwidth and so continue to run smoothly even when there is heavy traffic on the network.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced** > **HomeShield** > **QoS**.
3. Enable **QoS** to set the total bandwidth. Then click **SAVE**.
4. Enable **High Priority** for the desired device and set its effective time.



11.4. More Features

Download the Tether app and subscribe to enjoy the full features of HomeShield.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced** > **HomeShield** > **More Features**.
3. Follow the web instructions to get full features of HomeShield.

More Features

Download the Tether app and subscribe to enjoy the full features of HomeShield

Start your 30-day free trial on Tether
Compare Basic and Pro Features

Download Tether

Scan for Tether

Real-Time Protection

Parental Controls

Usage Analysis

Detect and identify cyber threats to keep your privacy and connected devices protected.

- IoT Protection**
Get real-time security for your Internet of Things
- Intrusion Prevention System**
Identifies and blocks network intruders
- Malicious Content Filter**
Block malicious content
- DDoS Protection**
Protects your home network from DDoS attacks



Chapter 12

EasyMesh with Seamless Roaming

This product is compatible with EasyMesh. This chapter introduces the EasyMesh feature.

It contains the following sections:

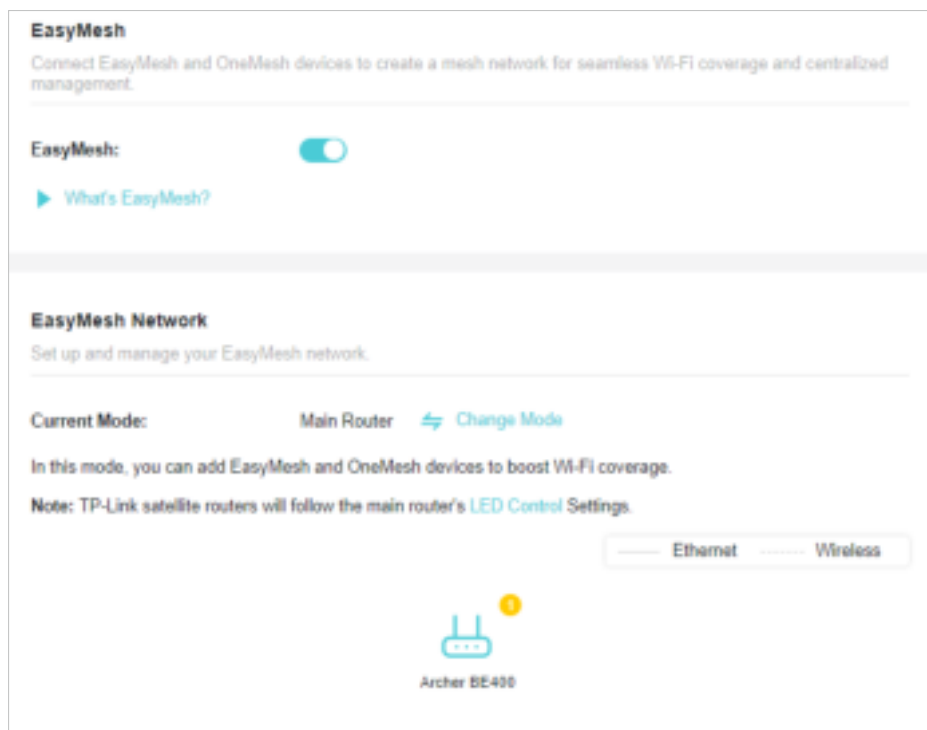
- [Add a Router as a Satellite Device](#)
- [Add a Range Extender as a Satellite Device](#)
- [Manage Devices in the EasyMesh Network](#)

EasyMesh routers and extenders work together to form one unified Wi-Fi network. Walk through your home and stay connected with the fastest possible speeds thanks to EasyMesh's seamless coverage.

■ Note: Routers and range extenders must be compatible with EasyMesh or OneMesh™. Firmware upgrades may be required.

12.1. Add a Router as a Satellite Device

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > EasyMesh**, and enable **EasyMesh**.



3. Click **ADD SATELLITE DEVICES**, select **TP-Link Router**, then click **NEXT**.



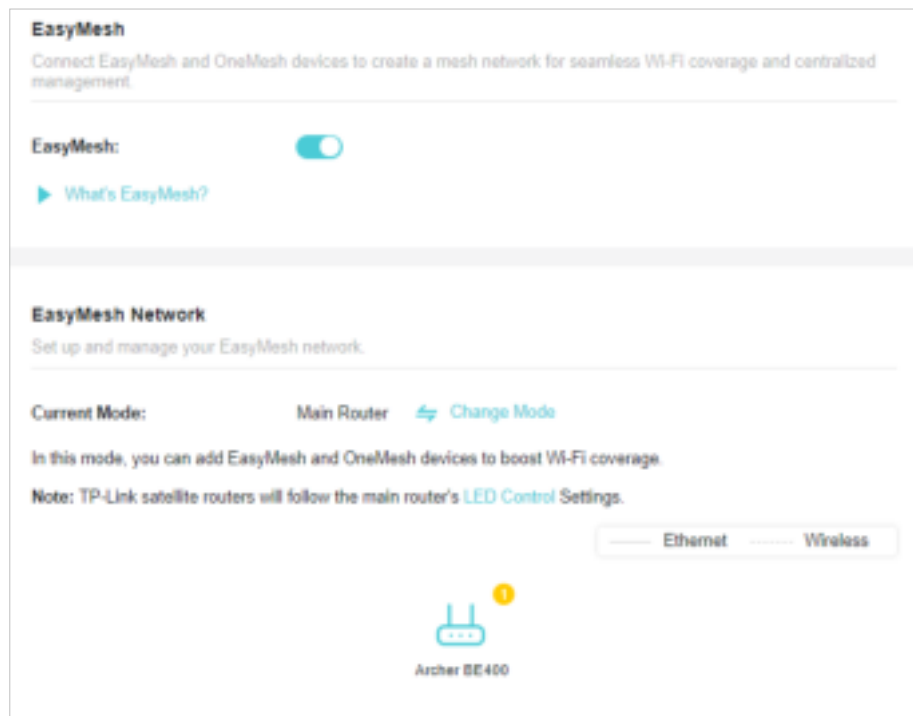
4. Follow the page instructions to prepare your satellite router, then click **DONE**.



5. Click **ADD**. When prompted "This device has been added successfully", click **OK**, then click **FINISH**.

12.2. Add a Range Extender as a Satellite Device

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced** > **EasyMesh**, and enable **EasyMesh**.



3. Plug in the extender next to the main router.
4. Within 2 minutes, press the WPS button on main router and on the extender. Wait until the WPS process is complete.

5. Done! You can check the mesh device on the router's web page too.

12.3. Manage Devices in the EasyMesh Network

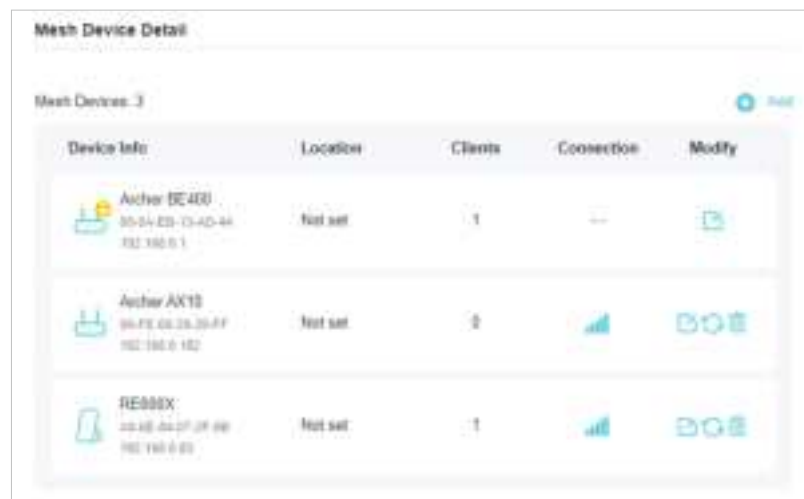
In an EasyMesh network, you can manage all mesh devices and connected clients on your main router's web page.

- **To view mesh devices and connected clients in the network:**

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Network Map](#).
3. Click  to view all mesh devices, and click  to view all connected clients.

- **To manage an EasyMesh device in the network:**

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Advanced](#) > [EasyMesh](#). Locate [Mesh Device Detail](#) section.



3. Click the Modify button to view detailed information and change its settings.



The screenshot shows a web-based configuration window titled "Edit Satellite Device". It has two tabs: "Device Info" (active) and "Clients". The "Device Info" tab displays the following information:

- Name: Archer AX10
- IP Address: 192.168.0.192
- MAC Address: 00-FE-66-29-26-FF
- Signal Strength: A bar chart icon showing a strong signal.
- LED Status: ☒ Enabled
- Note: Currently, this satellite device doesn't support LED Control, please stay tuned for subsequent firmware updates.
- Link Speed: 0 (2.4 GHz)
1200 Mbps (5 GHz)
- Location: Hallway

At the bottom right, there are two buttons: "CANCEL" and "OK".

- Change device information.

Chapter 13

Network Security

This chapter guides you on how to protect your home network from cyber attacks and unauthorized users by implementing these three network security functions. You can protect your home network from cyber attacks, block or allow specific client devices to access your network using Access Control, you can prevent ARP spoofing and ARP attacks using IP & MAC Binding, protect your network security by isolating your IoT devices.

It contains the following sections:

- [Protect the Network from Cyber Attacks](#)
- [Access Control](#)
- [IP & MAC Binding](#)
- [ALG](#)
- [Device Isolation](#)

*For a more comprehensive home network protection system, refer to the [HomeShield](#) chapter.

13.1. Protect the Network from Cyber Attacks

The SPI (Stateful Packet Inspection) Firewall protects the router from cyber attacks and validate the traffic that is passing through the router based on the protocol. This function is enabled by default.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Advanced](#) > [Security](#) > [Firewall](#). It's recommended to keep the default settings.



13.2. Access Control

Access Control is used to block or allow specific client devices to access your network (via wired or wireless) based on a list of blocked devices (Deny List) or a list of allowed devices (Allow List).

I want to:

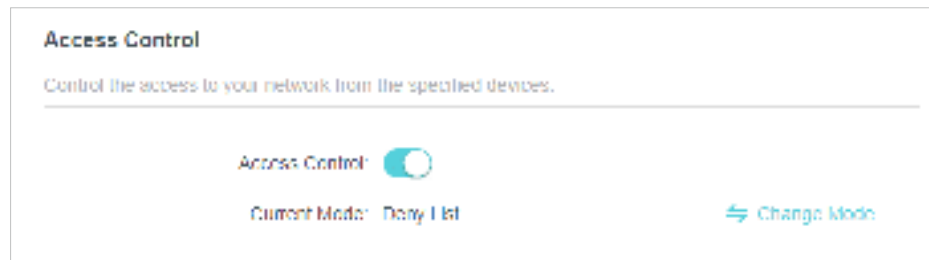
Block or allow specific client devices to access my network (via wired or wireless).

How can I do that?

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Advanced](#) > [Security](#) > [Access Control](#).
3. Click [Change Mode](#), and select the access mode to either block (recommended) or allow the device(s) in the list.

To block specific device(s):

- 1) Make sure your current Access Control mode is [Deny List](#). If not, click [Change Mode](#), select Deny List and, click [CHANGE](#).

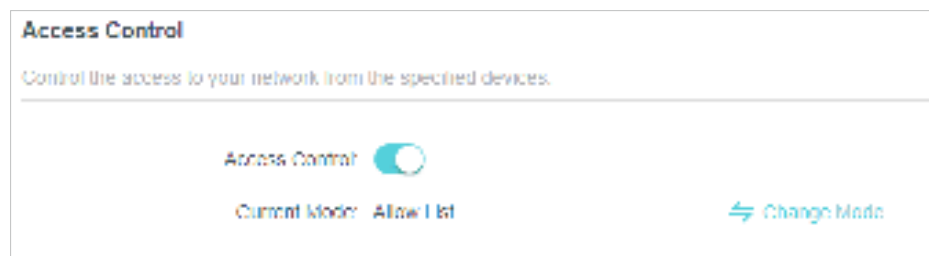


- 2) Click  **Add** and select devices you want to be blocked and Click **ADD**.
- 3) The **Operation Succeeded** message will appear on the screen, which means the selected devices have been successfully added to the Deny List.

Device Type	Device Name	MAC Address	Modify
	Phone	5E-13-04-0F-A1-F2	

To allow specific device(s):

- 1) click **Change Mode**, select **Allow List**, and click **CHANGE**.

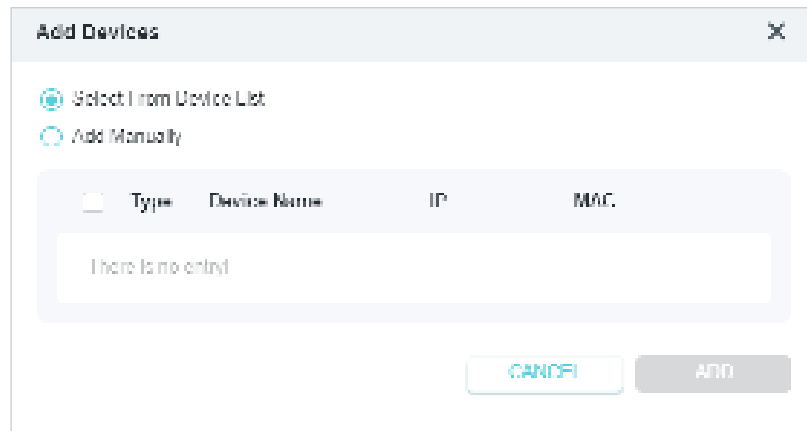


- 2) Your own device is in the allow list by default and cannot be deleted. Click  **Add** to add other devices to the allow list.

Device Type	Device Name	MAC Address	Modify
	Phone	5E-13-04-0F-A1-F2	
	PC	58-11-22-0F-75-2B	

- **Add connected devices**

- 1) Click **Select From Device List**.
- 2) Select the devices you want to be allowed and click **ADD**.

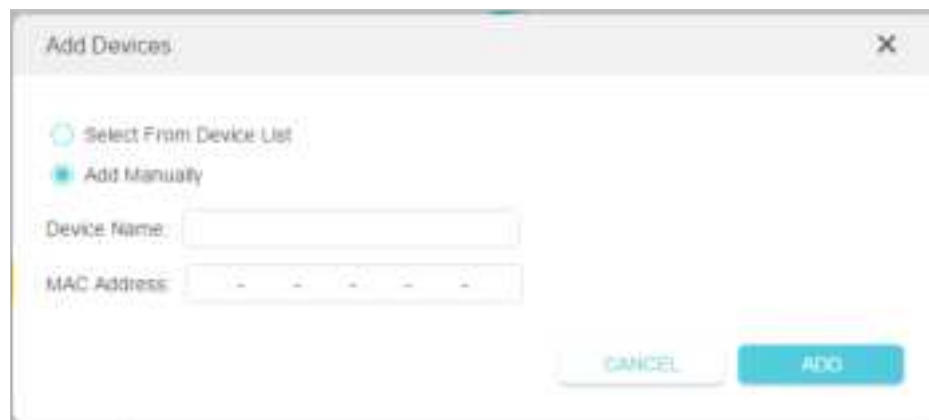


3) The **Operation Succeeded** message will appear on the screen, which means the selected devices have been successfully added to the allow list.

- **Add unconnected devices**

1) Click **Add Manually**.

2) Enter the **Device Name** and **MAC Address** of the device you want to be allowed and click **ADD**.



3) The **Operation Succeeded** message will appear on the screen, which means the device has been successfully added to the allow list.

Done!

Now you can block or allow specific client devices to access your network (via wired or wireless) using the **Deny List** or **Allow List**.

13.3. IP & MAC Binding

IP & MAC Binding, namely, ARP (Address Resolution Protocol) Binding, is used to bind network device's IP address to its MAC address. This will prevent ARP Spoofing and

other ARP attacks by denying network access to an device with matching IP address in the Binding list, but unrecognized MAC address.

I want to:

Prevent ARP spoofing and ARP attacks.

How can I do that?

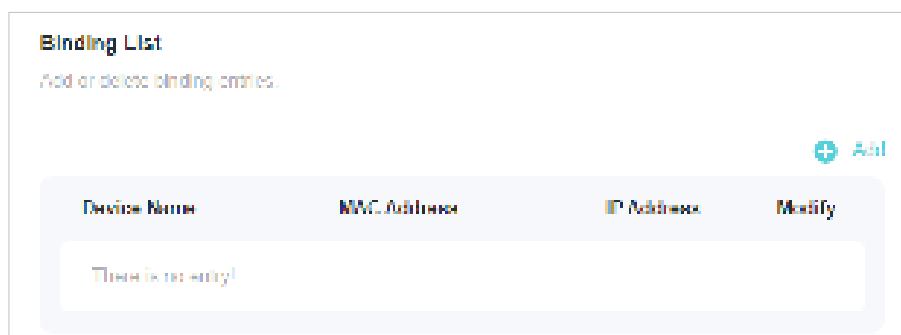
1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Advanced](#) > [Security](#) > [IP & MAC Binding](#).
3. Enable [IP & MAC Binding](#).



4. Bind your device(s) according to your need.

To bind the connected device(s):

- 1) Click [+ Add](#) in the [Binding List](#) section.



- 2) Click [VIEW CONNECTED DEVICES](#) and select the device you want to bind. The [MAC Address](#) and [IP Address](#) fields will be automatically filled in.

3) Click **SAVE**.

To bind the unconnected device:

1) Click **+ Add** in the **Binding List** section.

2) Enter the **MAC Address** and **IP Address** that you want to bind.

3) Click **SAVE**.

Done!

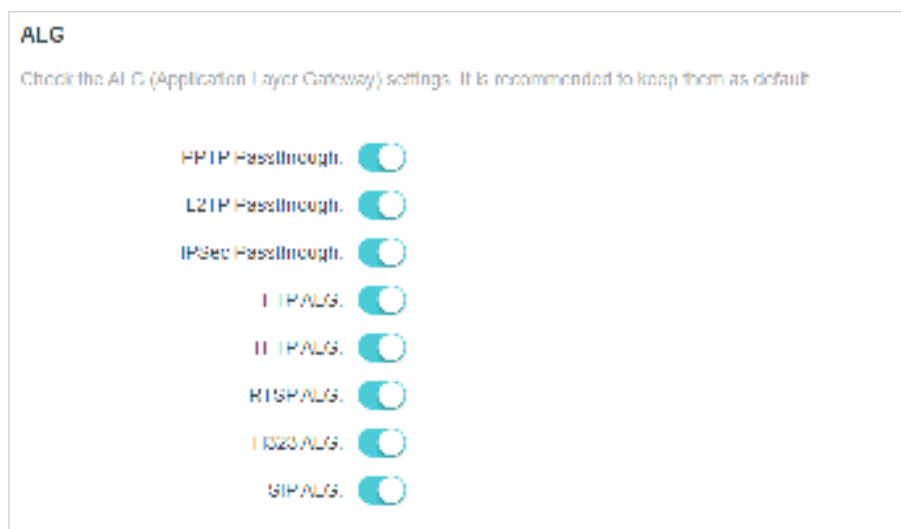
Now you don't need to worry about ARP spoofing and ARP attacks!

13.4. ALG

ALG allows customized NAT traversal filters to be plugged into the gateway to support address and port translation for certain application layer "control/data" protocols such as FTP, TFTP, H323 etc. It is recommended to keep the default settings.

You may need to disable SIP ALG when you are using voice and video applications to create and accept a call through the router, since some voice and video communication applications do not work well with SIP ALG.

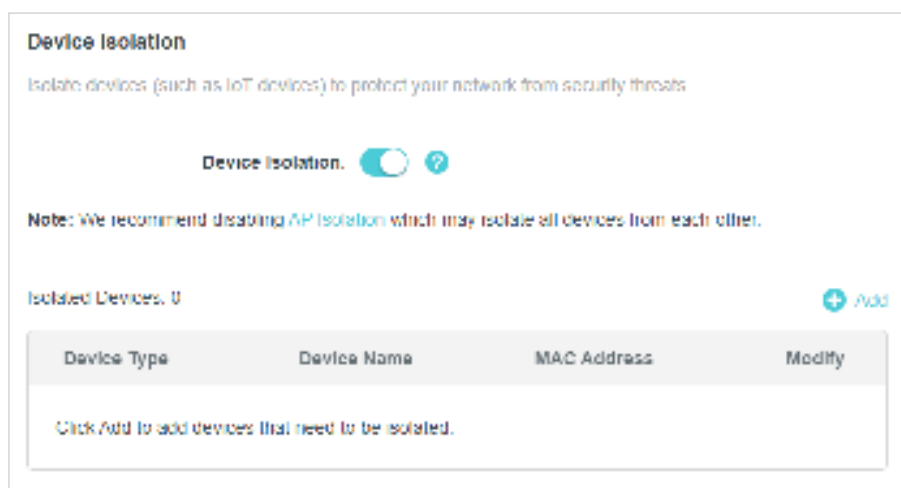
1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > Security > ALG**.



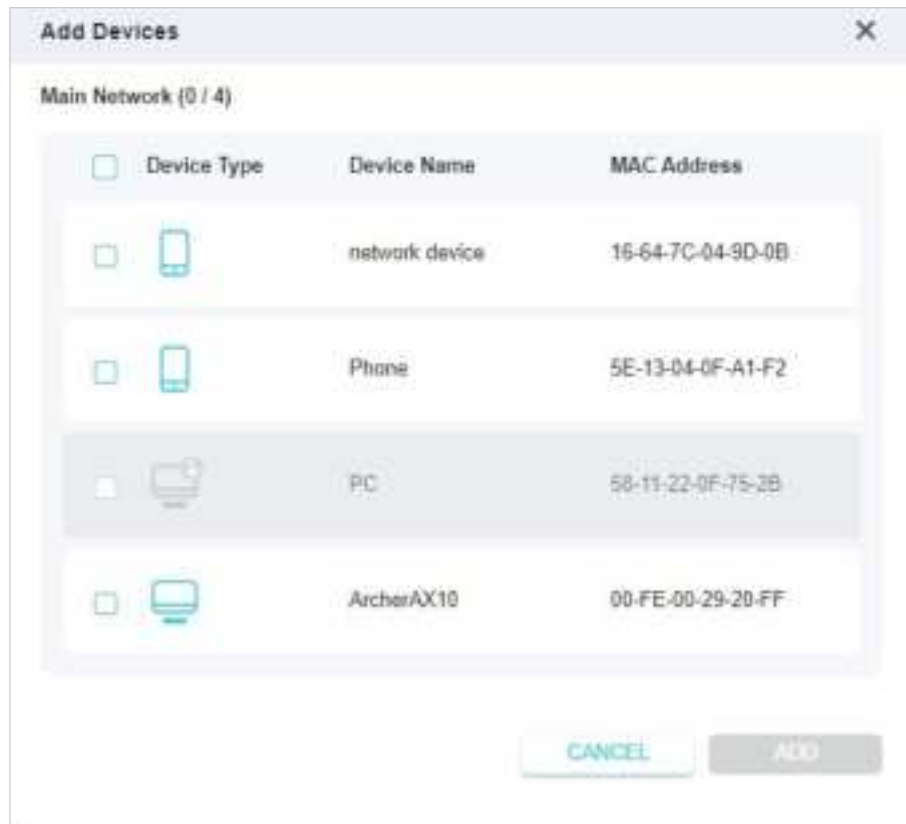
13.5. Device Isolation

Some devices, such as IoT devices, are vulnerable to security threats. To keep your important devices and data safe, you can isolate these devices to protect your network from being infected.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > Security > Device Isolation**. Enable **Device Isolation**.



3. Click **+Add** to add your IoT devices.



Done!

While isolated, isolated devices (these devices) can still access the internet and communicate with other isolated devices. However, isolated devices (these devices) cannot transfer data with devices on your home, including managing gateway devices, accessing USB devices, etc.

Chapter 14

NAT Forwarding

The router's NAT (Network Address Translation) feature makes devices on the LAN use the same public IP address to communicate with devices on the internet, which protects the local network by hiding IP addresses of the devices. However, it also brings about the problem that an external host cannot initiatively communicate with a specified device on the local network.

With the forwarding feature the router can penetrate the isolation of NAT and allows devices on the internet to initiatively communicate with devices on the local network, thus realizing some special functions.

The TP-Link router supports four forwarding rules. If two or more rules are set, the priority of implementation from high to low is Port Forwarding, Port Triggering, UPnP and DMZ.

It contains the following sections:

- [Share Local Resources on the Internet by Port Forwarding](#)
- [Open Ports Dynamically by Port Triggering](#)
- [Make Applications Free from Port Restriction by DMZ](#)
- [Make Xbox Online Games Run Smoothly by UPnP](#)

14. 1. Share Local Resources on the Internet by Port Forwarding

When you build up a server on the local network and want to share it on the internet, Port Forwarding can realize the service and provide it to internet users. At the same time Port Forwarding can keep the local network safe as other services are still invisible from the internet.

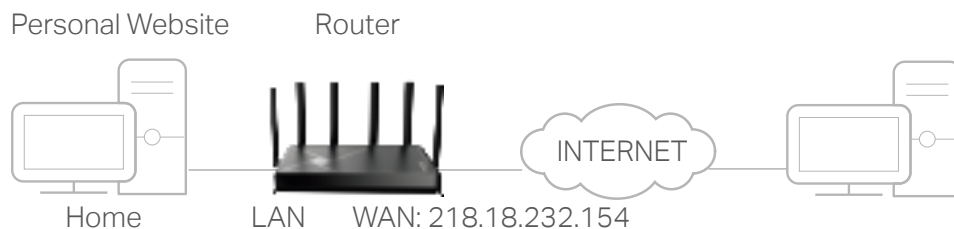
Port Forwarding can be used for setting up public services on your local network, such as HTTP, FTP, DNS, POP3/SMTP and Telnet. Different services use different service ports. Port 80 is used in HTTP service, port 21 in FTP service, port 25 in SMTP service and port 110 in POP3 service. Please verify the service port number before the configuration.

I want to:

Share my personal website I've built in local network with my friends through the internet.

For example, the personal website has been built on my home PC (192.168.0.100). I hope that my friends on the internet can visit my website in some way. The PC is connected to the router with the WAN IP address 218.18.232.154.

*Image may differ from your actual product.



How can I do that?

1. Assign a static IP address to your PC, for example 192.168.0.100.
2. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
3. Go to **Advanced > NAT Forwarding > Port Forwarding**.
4. Click  **Add**.

Port Forwarding

Specify ports to make specific devices or services on your local network accessible over the Internet.

+ Add

Service Name	Device IP Address	External Port	Internal Port	Protocol	Status	Modify
There is no entry!						

- Click **VIEW COMMON SERVICES** and select **HTTP**. The **External Port**, **Internal Port** and **Protocol** will be automatically filled in.
- Click **VIEW CONNECTED DEVICES** and select your home PC. The **Device IP Address** will be automatically filled in. Or enter the PC's IP address 192.168.0.100 manually in the **Device IP Address** field.
- Click **SAVE**.

Add a Port Forwarding Entry X

Note: Add a rule for an individual external port or port range. For nonconsecutive ports (example: 100 and 200), add multiple rules. For more info, refer to [Port Forwarding FAQ](#).

Service Name: HTTP

VIEW COMMON SERVICES

Device IP Address: 192.168.0.63

VIEW CONNECTED DEVICES

External Port: ☒ Individual Port ☐ Port Range

Internal Port: (Optional)

Protocol: TCP

Enable This Entry: ☒ Enabled

CANCEL **SAVE**

Tips:

- It is recommended to keep the default settings of **Internal Port** and **Protocol** if you are not clear about which port and protocol to use.
- If the service you want to use is not in the common services list, you can enter the corresponding parameters manually. You should verify the port number that the service needs.

- You can add multiple port forwarding rules if you want to provide several services in a router. Please note that the [External Port](#) should not be overlapped.

Done!

Users on the internet can enter [http:// WAN IP](#) (in this example: [http:// 218.18.232.154](#)) to visit your personal website.

Tips:

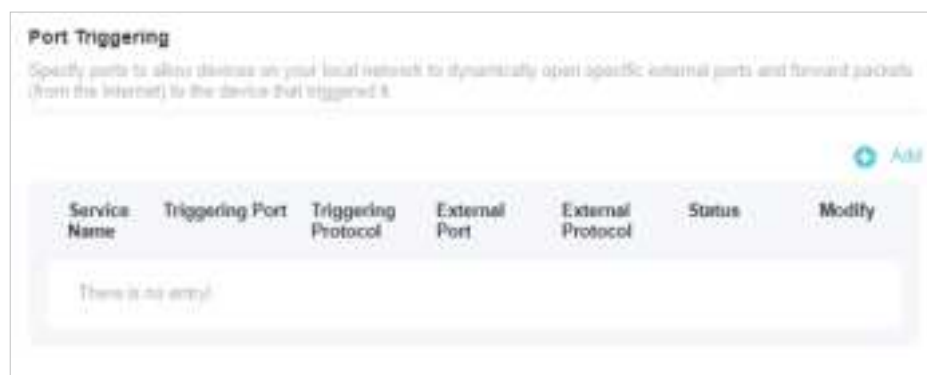
- The WAN IP should be a public IP address. For the WAN IP is assigned dynamically by the ISP, it is recommended to apply and register a domain name for the WAN referring to [Set Up a Dynamic DNS Service Account](#). Then users on the internet can use [http:// domain name](#) to visit the website.
- If you have changed the default [External Port](#), you should use [http:// WAN IP: External Port](#) or [http:// domain name: External Port](#) to visit the website.

14. 2. Open Ports Dynamically by Port Triggering

Port Triggering can specify a triggering port and its corresponding external ports. When a host on the local network initiates a connection to the triggering port, all the external ports will be opened for subsequent connections. The router can record the IP address of the host. When the data from the internet return to the external ports, the router can forward them to the corresponding host. Port Triggering is mainly applied to online games, VoIPs, video players and common applications including MSN Gaming Zone, Dialpad and Quick Time 4 players, etc.

Follow the steps below to configure the Port Triggering rules:

- Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
- Go to [Advanced](#) > [NAT Forwarding](#) > [Port Triggering](#) and click  [Add](#).



- Click [VIEW COMMON SERVICES](#), and select the desired application. The [Triggering Port](#), [Triggering Protocol](#) and [External Port](#) will be automatically filled in. The following picture takes application [MSN Gaming Zone](#) as an example.

Add a Port Triggering Entry [X]

Service Name: MSN Gaming Zone
[VIEW COMMON SERVICES]

Triggering Port: 47524

Triggering Protocol: All [v]

External Port: 2300-2400,28800-29000

External Protocol: All [v]

Enable This Entry: ☒ Enabled

[CANCEL] [SAVE]

4. Click **SAVE**.

Tips:

- You can add multiple port triggering rules according to your network need.
- The triggering ports can not be overlapped.
- If the application you need is not listed in the Existing Applications list, please enter the parameters manually. You should verify the external ports the application uses first and enter them into **External Port** field according to the format the page displays.

14.3. Make Applications Free from Port Restriction by DMZ

When a PC is set to be a DMZ (Demilitarized Zone) host on the local network, it is totally exposed to the internet, which can realize the unlimited bidirectional communication between internal hosts and external hosts. The DMZ host becomes a virtual server with all ports opened. When you are not clear about which ports to open in some special applications, such as IP camera and database software, you can set the PC to be a DMZ host.

Note:

When DMZ is enabled, the DMZ host is totally exposed to the internet, which may bring some potential safety hazards. If DMZ is not in use, please disable it in time.

I want to:

Make the home PC join the internet online game without port restriction.

For example, due to some port restriction, when playing the online games, you can log in normally but cannot join a team with other players. To solve this problem, set your PC as a DMZ host with all ports open.

How can I do that?

1. Assign a static IP address to your PC, for example 192.168.0.100.
2. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
3. Go to [Advanced](#) > [NAT Forwarding](#) > [DMZ](#) and tick to enable DMZ.
4. Click [VIEW CONNECTED DEVICES](#) and select your PC. The [Device IP Address](#) will be automatically filled in. Or enter the PC's IP address 192.168.0.100 manually in the [DMZ Host IP Address](#) field.



5. Click [SAVE](#).

Done!

The configuration is completed. You've set your PC to a DMZ host and now you can make a team to game with other players.

14. 4. Make Xbox Online Games Run Smoothly by UPnP

The UPnP (Universal Plug and Play) protocol allows applications or host devices to automatically find the front-end NAT device and send request to it to open the corresponding ports. With UPnP enabled, the applications or host devices on the local network and the internet can freely communicate with each other thus realizing the seamless connection of the network. You may need to enable the UPnP if you want to use applications for multiplayer gaming, peer-to-peer connections, real-time communication (such as VoIP or telephone conference) or remote assistance, etc.

☞ Tips:

- UPnP is enabled by default in this router.
- Only the application supporting UPnP protocol can use this feature.
- UPnP feature needs the support of operating system (e.g. Windows Vista/ Windows 7/ Windows 8, etc. Some of operating system need to install the UPnP components).

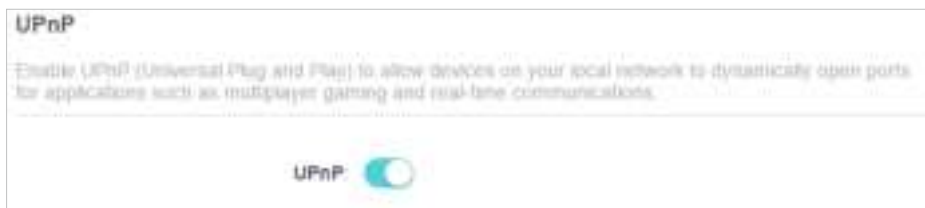
[For example](#), when you connect your Xbox to the router which has connected to the internet to play online games, UPnP will send request to the router to open the corresponding ports allowing the following data penetrating the NAT to transmit. Therefore, you can play Xbox online games without a hitch.

*Image may differ from your actual product.



If necessary, you can follow the steps to change the status of UPnP.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced** > **NAT Forwarding** > **UPnP** and toggle on or off according to your needs.



Chapter 15

VPN Server&Client

The router offers several ways to set up VPN connections:

VPN Server allows remote devices to access your home network in a secured way through the internet. The router supports three types of VPN Server:

OpenVPN is somewhat complex but with higher security and more stability, suitable for restricted environments such as campus network and company intranet.

PPTP VPN is easy to use with the built-in VPN software of computers and mobile devices, but it is vulnerable and may be blocked by some ISPs.

L2TP/IPSec VPN is more secure but slower than PPTP VPN, and may have trouble getting around firewalls.

WireGuard VPN is a secure, fast and modern VPN protocol. It is based on the UDP protocol and uses modern encryption algorithms to improve work efficiency.

VPN Client allows devices in your home network to access remote VPN servers, without the need to install VPN software on each device.

This chapter contains the following sections:

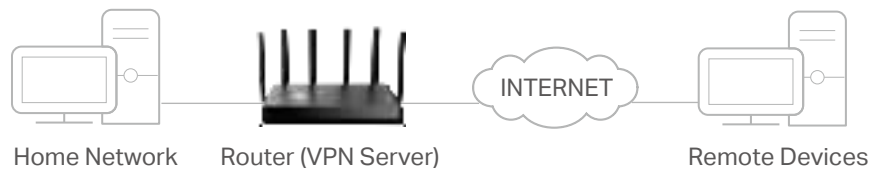
- [Use OpenVPN to Access Your Home Network](#)
- [Use PPTP VPN to Access Your Home Network](#)
- [Use L2TP/IPSec VPN to Access Your Home Network](#)
- [Use WireGuard VPN to Access Your Home Network](#)
- [Use VPN Client to Access a Remote VPN Server](#)

15.1. Use OpenVPN to Access Your Home Network

OpenVPN Server is used to create an OpenVPN connection for remote devices to access your home network.

To use the VPN feature, you need to enable OpenVPN Server on your router, and install and run VPN client software on remote devices. Please follow the steps below to set up an OpenVPN connection.

*Image may differ from your actual product.



Step1. Set up OpenVPN Server on Your Router

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > VPN Server > OpenVPN**, and tick the **Enable** box of **OpenVPN**.

OpenVPN

Set up an OpenVPN for secure, remote access to your network.

Note: No certificate has been created. Generate one below before enabling OpenVPN.

OpenVPN: ☒ Enable

Service Type: ☒ UDP ☐ TCP

Service Port:

VPN Subnet:

Netmask:

Client Access:

Note:

- Before you enable VPN Server, we recommend you configure Dynamic DNS Service (recommended) or assign a static IP address for router's WAN port and synchronize your System Time with internet.
- The first time you configure the OpenVPN Server, you may need to generate a certificate before you enable the VPN Server.

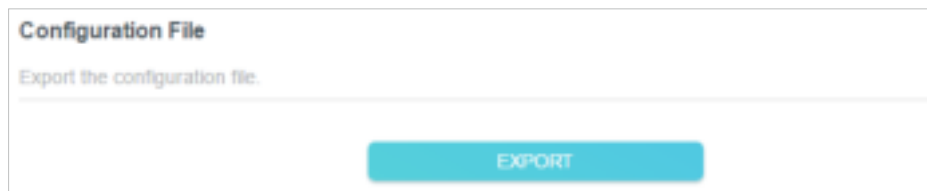
3. Select the **Service Type** (communication protocol) for OpenVPN Server: UDP, TCP.
4. Enter a VPN **Service Port** to which a VPN device connects, and the port number should be between 1024 and 65535.

5. In the **VPN Subnet/Netmask** fields, enter the range of IP addresses that can be leased to the device by the OpenVPN server.
6. Select your **Client Access** type. Select **Home Network Only** if you only want the remote device to access your home network; select **Internet and Home Network** if you also want the remote device to access internet through the VPN Server.
7. Click **SAVE**.
8. Click **GENERATE** to get a new certificate.



Note: If you have already generated one, please skip this step, or click **GENERATE** to update the certificate.

9. Click **EXPORT** to save the OpenVPN configuration file which will be used by the remote device to access your router.



Step 2. Configure OpenVPN Connection on Your Remote Device

1. Visit <http://openvpn.net/index.php/download/community-downloads.html> to download the OpenVPN software, and install it on your device where you want to run the OpenVPN client utility.

Note: You need to install the **OpenVPN** client utility on each device that you plan to apply the VPN function to access your router. Mobile devices should download a third-party app from Google Play or Apple App Store.

2. After the installation, copy the file exported from your router to the OpenVPN client utility's "config" folder (for example, **C:\Program Files\OpenVPN\config** on Windows). The path depends on where the OpenVPN client utility is installed.
3. Run the OpenVPN client utility and connect it to OpenVPN Server.

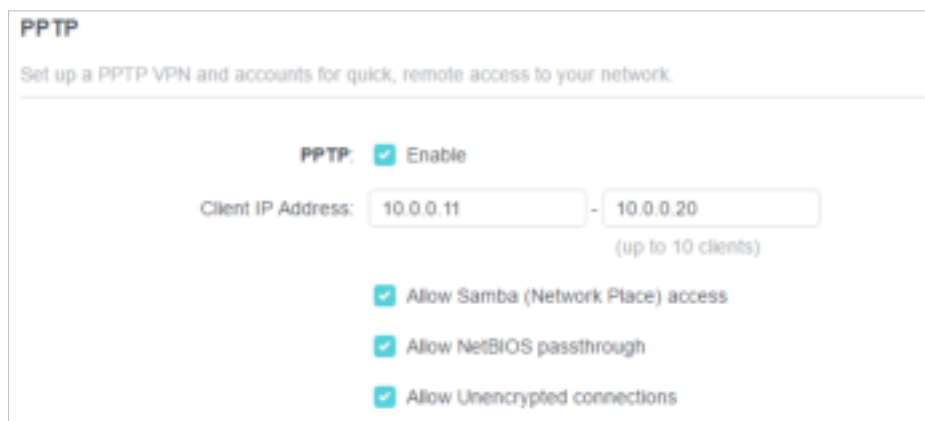
15. 2. Use PPTP VPN to Access Your Home Network

PPTP VPN Server is used to create a PPTP VPN connection for remote devices to access your home network.

To use the VPN feature, you need to set up PPTP VPN Server on your router, and configure the PPTP connection on remote devices. Please follow the steps below to set up a PPTP VPN connection.

Step 1. Set up PPTP VPN Server on Your Router

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Advanced](#) > [VPN Server](#) > [PPTP](#), and tick the [Enable](#) box of [PPTP](#).



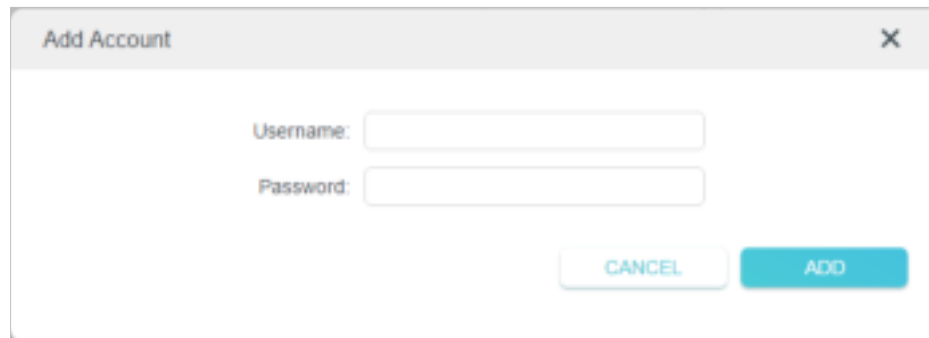
Note: Before you enable [VPN Server](#), we recommend you configure Dynamic DNS Service (recommended) or assign a static IP address for router's WAN port and synchronize your [System Time](#) with internet.

3. In the [Client IP Address](#) field, enter the range of IP addresses (up to 10) that can be leased to the devices by the PPTP VPN server.
4. Set the PPTP connection permission according to your needs.
 - Select [Allow Samba \(Network Place\) access](#) to allow your VPN device to access your local Samba server.
 - Select [Allow NetBIOS passthrough](#) to allow your VPN device to access your Samba server using NetBIOS name.
 - Select [Allow Unencrypted connections](#) to allow unencrypted connections to your VPN server.
5. Click [SAVE](#).
6. Configure the PPTP VPN connection account for the remote device. You can create up to 16 accounts.



- 1) Click [Add](#).

- 2) Enter the [Username](#) and [Password](#) to authenticate devices to the PPTP VPN Server.

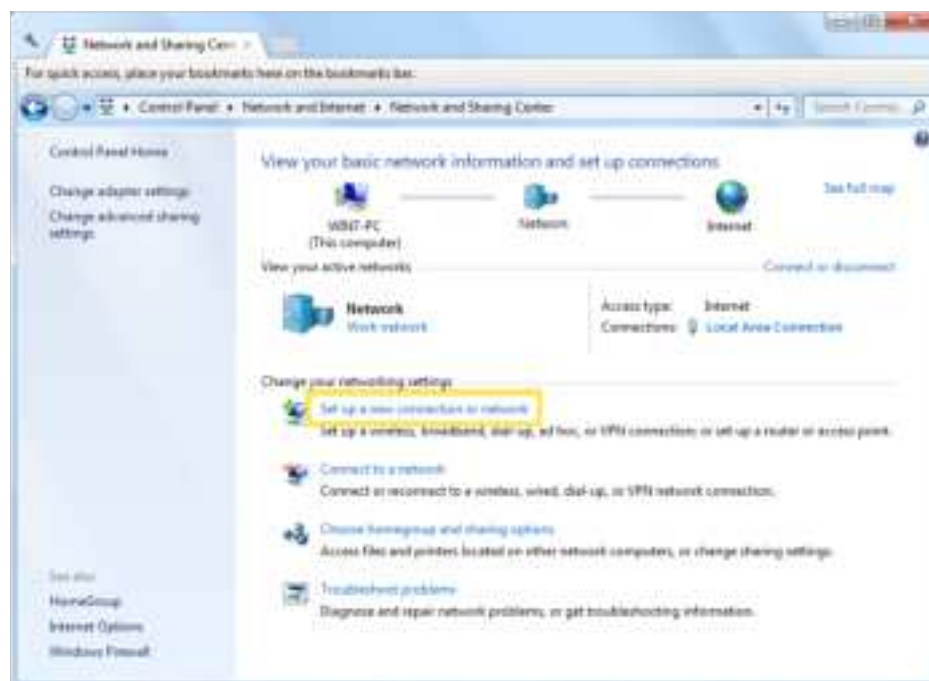


- 3) Click [ADD](#).

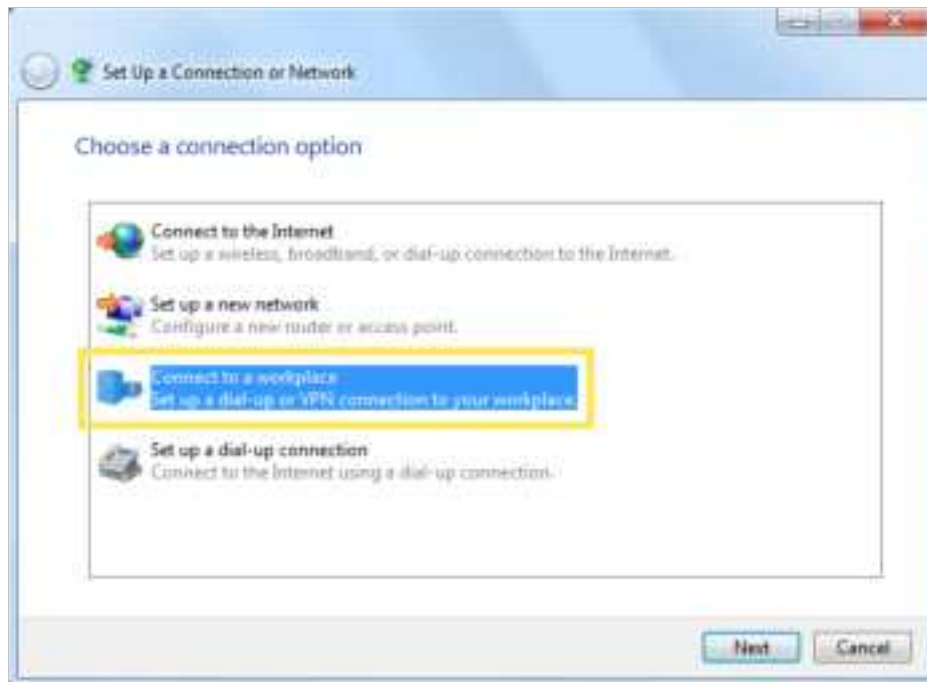
Step 2. Configure PPTP VPN Connection on Your Remote Device

The remote device can use the Windows built-in PPTP software or a third-party PPTP software to connect to PPTP Server. Here we use the [Windows built-in PPTP software](#) as an example.

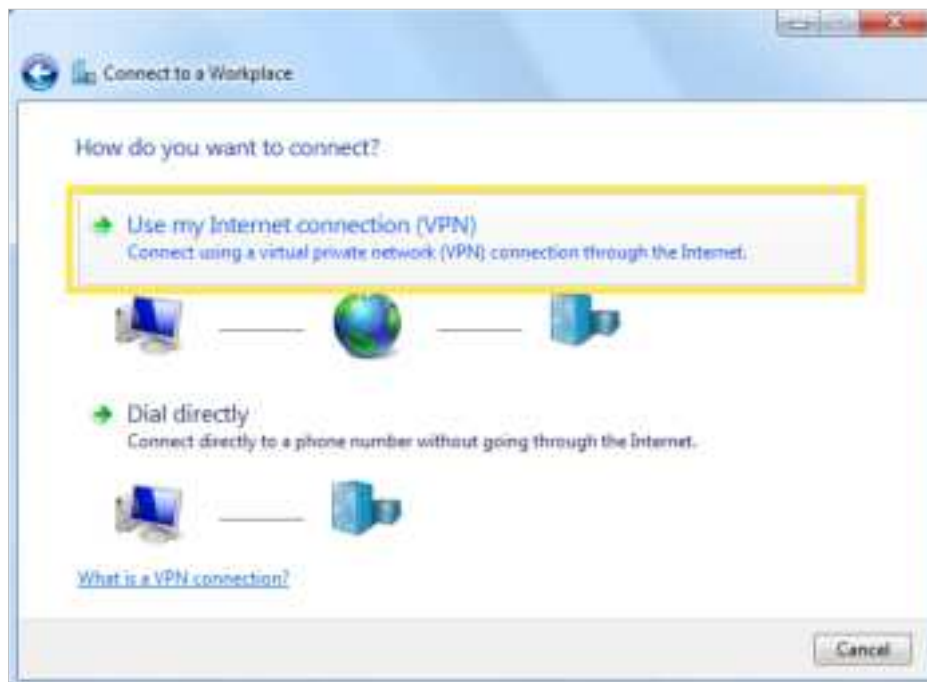
1. Go to [Start > Control Panel > Network and Internet > Network and Sharing Center](#).
2. Select [Set up a new connection or network](#).



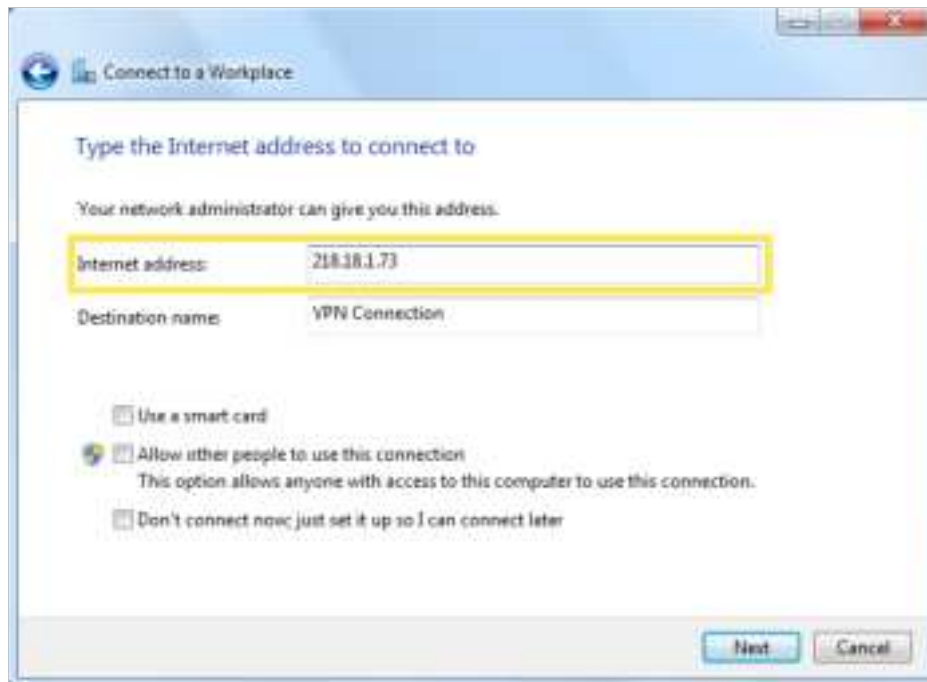
3. Select [Connect to a workplace](#) and click [Next](#).



4. Select **Use my Internet connection (VPN)**.



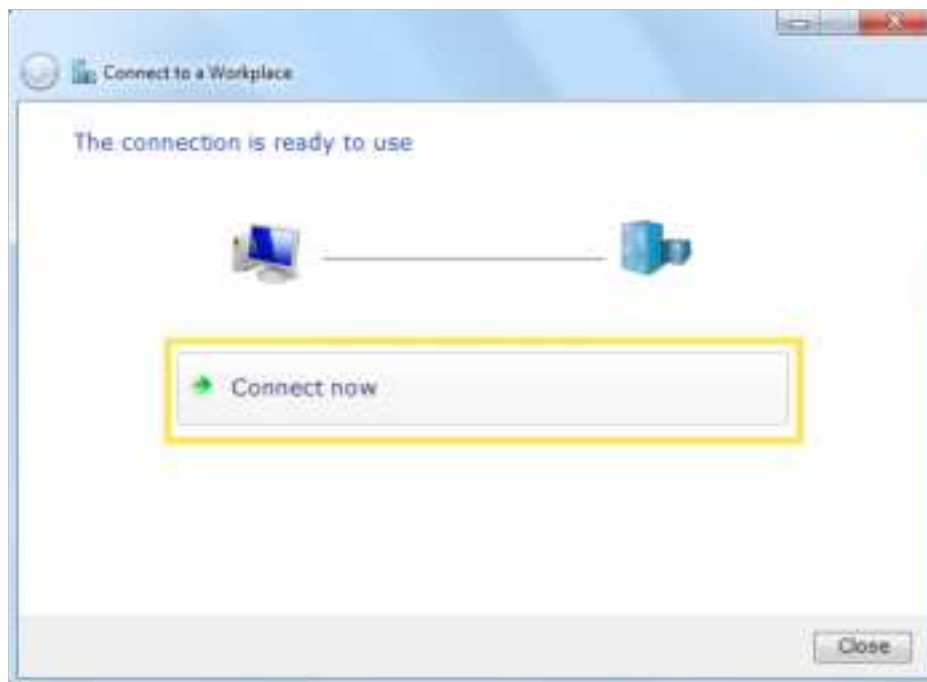
5. Enter the internet IP address of the router (for example: 218.18.1.73) in the **Internet address** field. Click **Next**.



6. Enter the [User name](#) and [Password](#) you have set for the PPTP VPN server on your router, and click [Connect](#).



7. Click [Connect Now](#) when the VPN connection is ready to use.

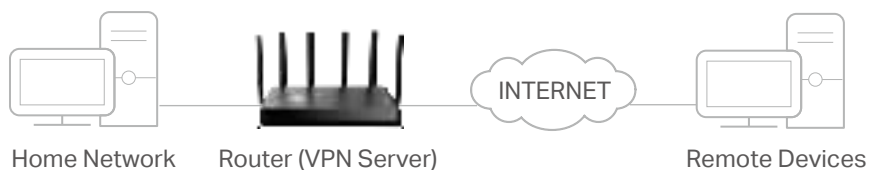


15.3. Use L2TP/IPSec VPN to Access Your Home Network

L2TP/IPSec VPN Server is used to create a L2TP/IPSec VPN connection for remote devices to access your home network.

To use the VPN feature, you need to set up L2TP/IPSec VPN Server on your router, and configure the L2TP/IPSec connection on remote devices. Please follow the steps below to set up the L2TP/IPSec VPN connection.

*Image may differ from your actual product.



Step 1. Set up L2TP/IPSec VPN Server on Your Router

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > VPN Server > L2TP/IPSec**, and enable **L2TP/IPSec**.

■ **Note:**

- Firmware update may be required to support L2TP/IPSec VPN Server.
- Before you enable **VPN Server**, we recommend you configure Dynamic DNS Service (recommended) or assign a static IP address for router's WAN port and synchronize your **System Time** with internet.

3. In the **Client IP Address** field, enter the range of IP addresses (up to 10) that can be leased to the devices by the L2TP/IPSec VPN server.
4. Keep **IPSec Encryption** as **Encrypted** and create an **IPSec Pre-Shared Key**.
Note: Enable NetBIOS Passthrough function to allow NetBIOS packets to be broadcasted through VPN tunnel.
5. Click **SAVE**.
6. Configure the L2TP/IPSec VPN connection account for the remote device. You can create up to 16 accounts.

Username	Password	Modify
admin	admin	[Edit] [Delete]

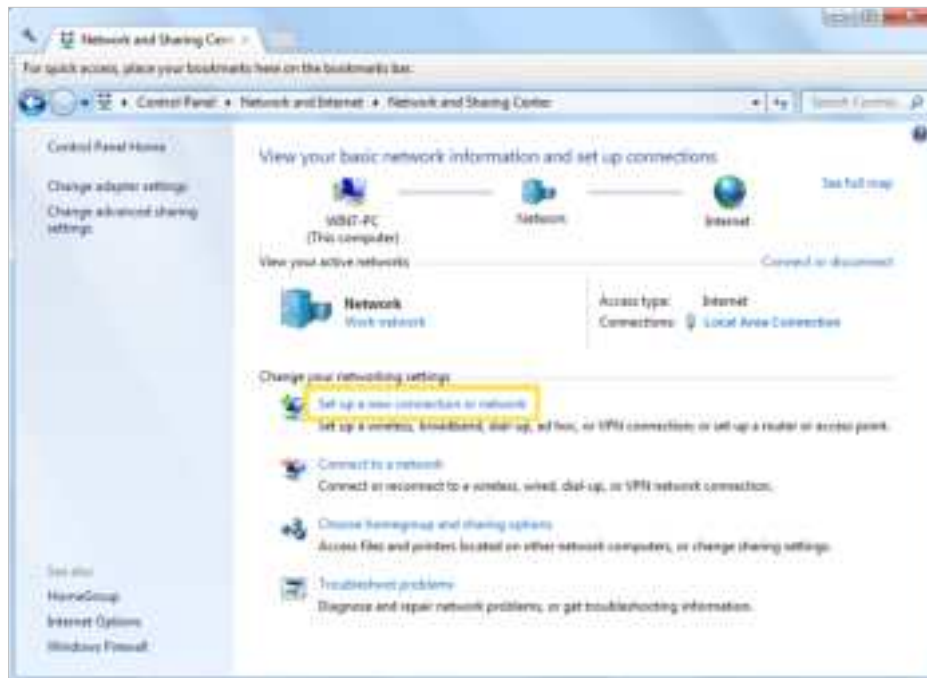
- 4) Click **Add**.
- 5) Enter the **Username** and **Password** to authenticate devices to the L2TP/IPSec VPN Server.

- 6) Click **ADD**.

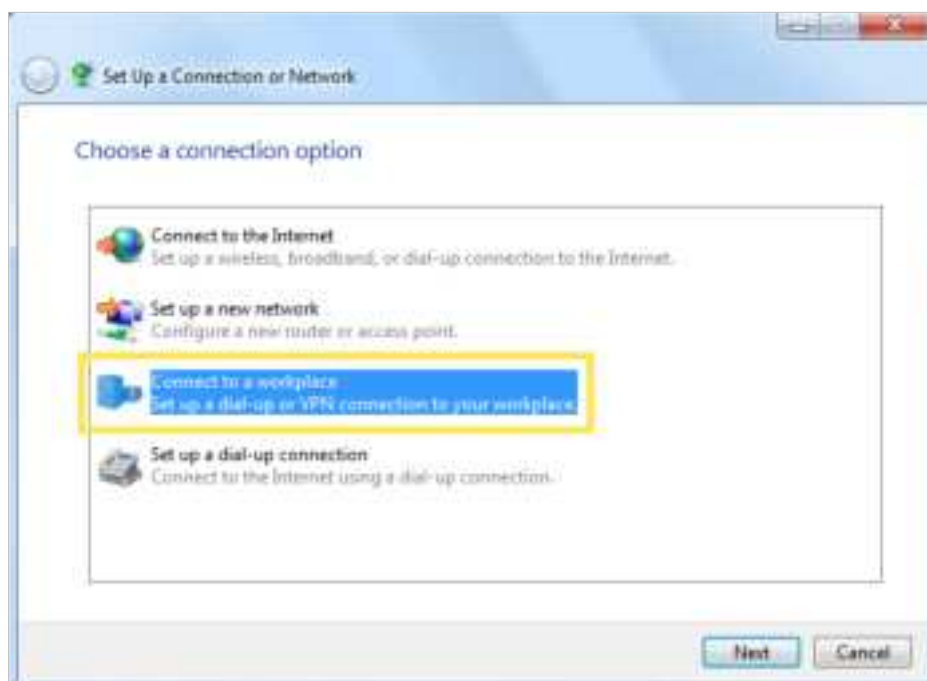
Step 2. Configure L2TP/IPSec VPN Connection on Your Remote Device

The remote device can use the Windows or Mac OS built-in L2TP/IPSec software or a third-party L2TP/IPSec software to connect to L2TP/IPSec Server. Here we use the [Windows built-in L2TP/IPSec software](#) as an example.

1. Go to [Start > Control Panel > Network and Internet > Network and Sharing Center](#).
2. Select [Set up a new connection or network](#).



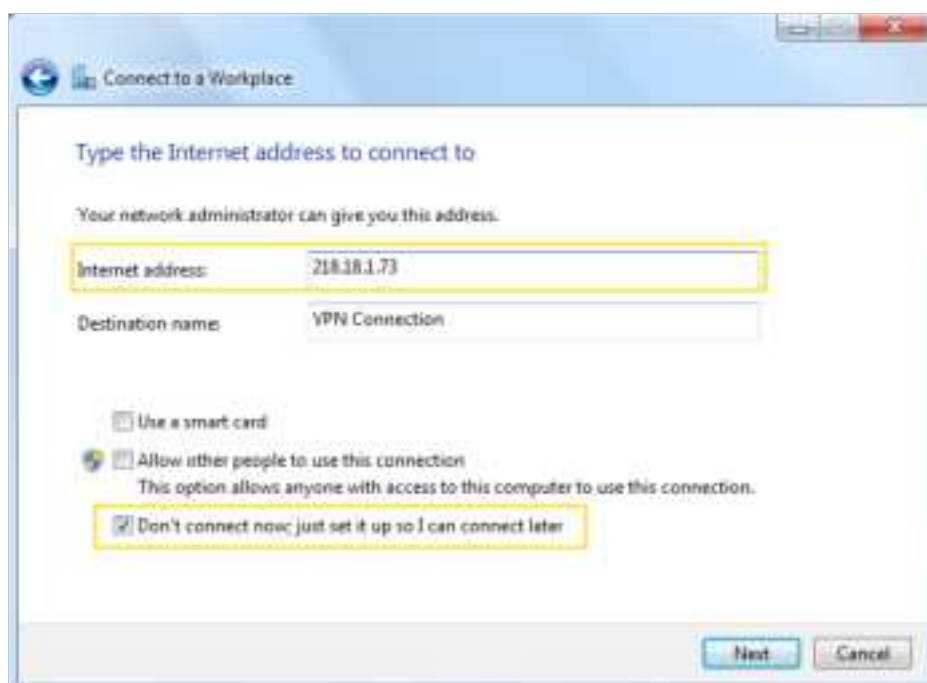
3. Select [Connect to a workplace](#) and click [Next](#).



4. Select **Use my Internet connection (VPN)**.



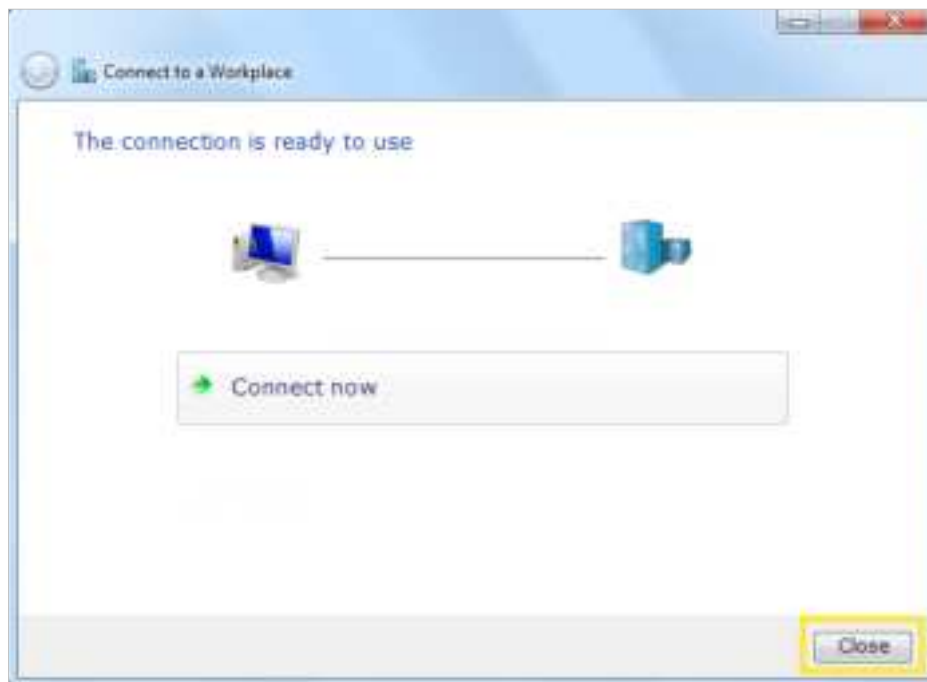
5. Enter the internet IP address of the router (for example: 218.18.1.73) in the **Internet address** field, and select the checkbox **Don't connect now; just set it up so I can connect later**. Click **Next**.



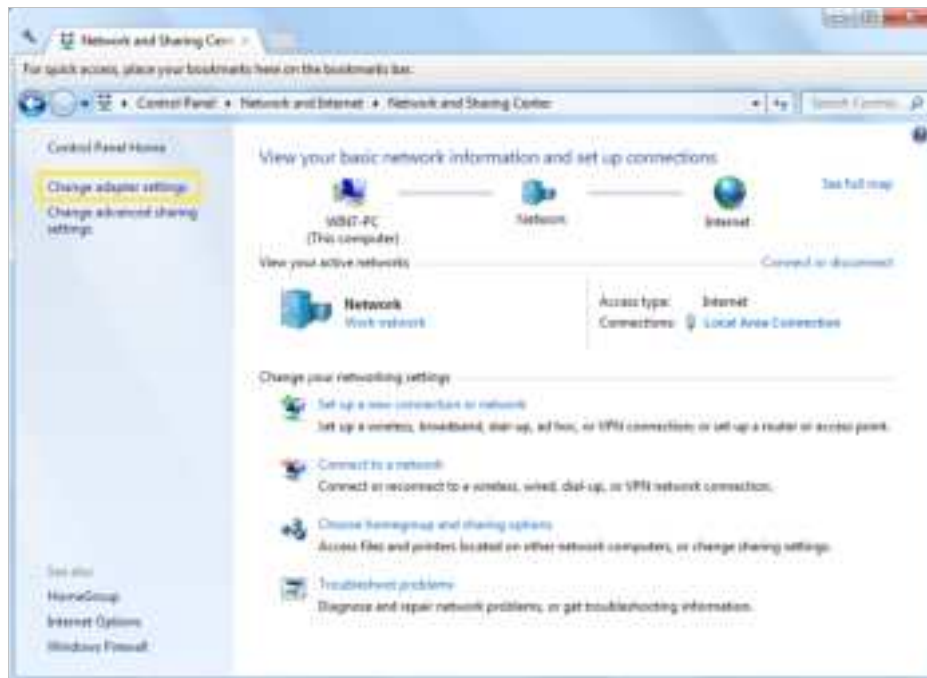
6. Enter the **User name** and **Password** you have set for the L2TP/IPSec VPN server on your router, and click **Connect**.



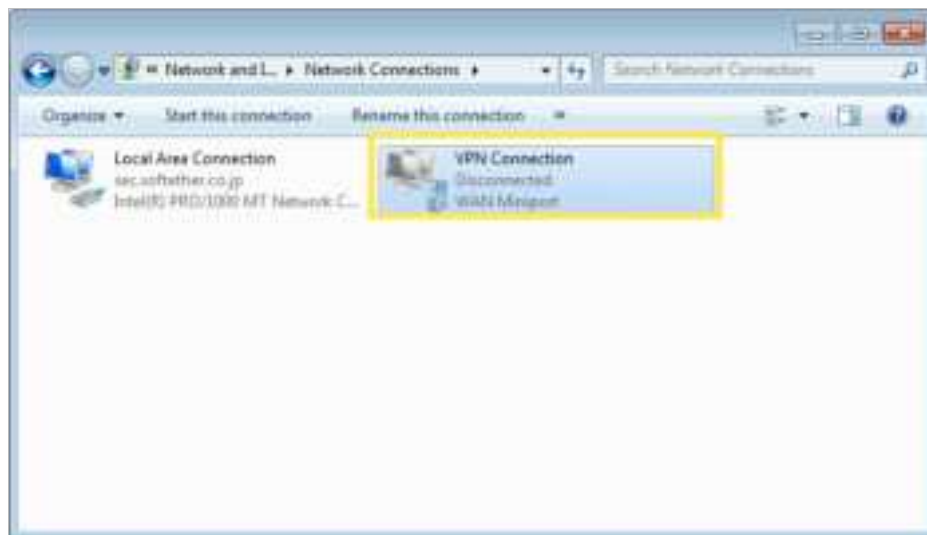
7. Click [Close](#) when the VPN connection is ready to use



8. Go to [Network and Sharing Center](#) and click [Change adapter settings](#).



9. Find the VPN connection you created, then double-click it.



10. Enter the **User name** and **Password** you have set for the L2TP/IPSec VPN server on your router, and click **Properties**.



11. Switch to the **Security** tab, select **Layer 2 Tunneling Protocol with IPsec (L2TP/IPSec)** and click **Advanced settings**.



12. Select **Use preshared key for authentication** and enter the IPsec Pre-Shared Key you have set for the L2TP/IPSec VPN server on your router. Then click **OK**.



Done! Click **Connect** to start VPN connection.



15.4. Use WireGuard VPN to Access Your Home Network

WireGuard VPN Server is used to create a Wire Guard VPN connection for remote devices to access your home network.

Step 1. Set up WireGuard VPN Server on Your Router

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Advanced](#) > [VPN Server](#) > [WireGuard](#), and tick the [Enable](#) box of [WireGuard](#).

WireGuard

Set up a WireGuard VPN and accounts for quick, remote and secure access to your network.

WireGuard:

☒ Enable

Tunnel IP Address:

10.5.5.1/32

Listen Port:

51820

(1024-65535)

Client Access:

Internet and Home Network

▼

▼ Advanced Settings

DNS:

☐ Enable

Persistent Keepalive:

25

Private Key:

eGmfE4RmnopGGSzvEPP06dkMY8k2Oswd8+vGPozaj24=

Public Key:

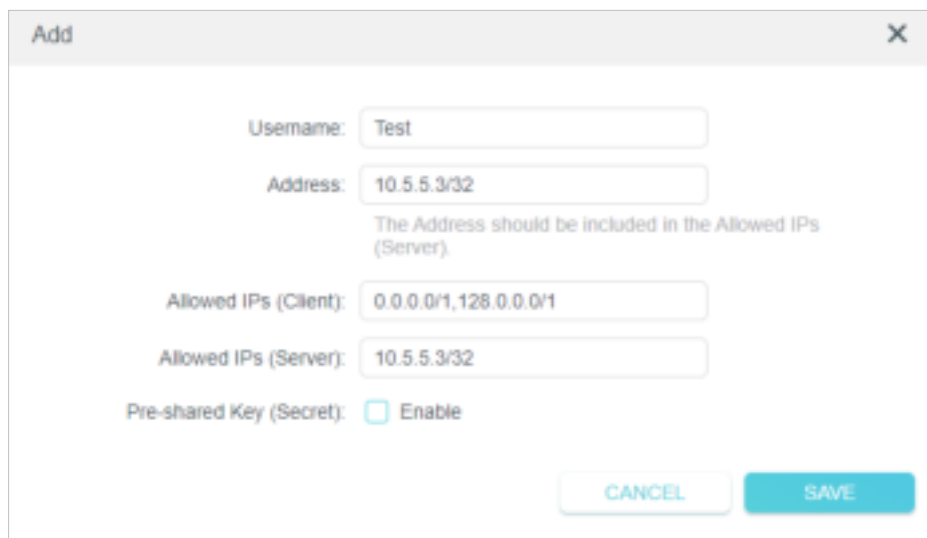
Jfy1EJOegKqI6DOJzI1pwTTj7U1IEy22/qWNDea2VnA=

RENEW KEY

3. Set the [Tunnel IP Address](#) and [Listen Port](#). Do NOT change it unless necessary.
4. Select your [Client Access](#) type. Select [Home Network Only](#) if you only want the remote device to access your home network; select [Internet and Home Network](#) if you also want the remote device to access internet through the VPN Server.
5. (Optional) Click [Advanced Settings](#) to display more settings. If [DNS](#) is turned on, the router will become the DNS server of the VPN client that establishes a connection with it. Change the [Persistent Keepalive](#) time (25 seconds by default) to send out heartbeat regularly, you can also click [RENEW KEY](#) to update the private key and public key.

Step 2. Create accounts that can be used by remote clients to connect to the VPN server.

1. Locate the [Account List](#) section. Click [Add](#) to create an account.



The screenshot shows a dialog box titled "Add" with a close button (X) in the top right corner. The dialog contains the following fields and controls:

- Username:** A text input field containing "Test".
- Address:** A text input field containing "10.5.5.3/32". Below this field is a note: "The Address should be included in the Allowed IPs (Server)".
- Allowed IPs (Client):** A text input field containing "0.0.0.0/1,128.0.0.0/1".
- Allowed IPs (Server):** A text input field containing "10.5.5.3/32".
- Pre-shared Key (Secret):** A checkbox labeled "Enable" which is currently unchecked.
- Buttons:** "CANCEL" and "SAVE" buttons are located at the bottom right of the dialog.

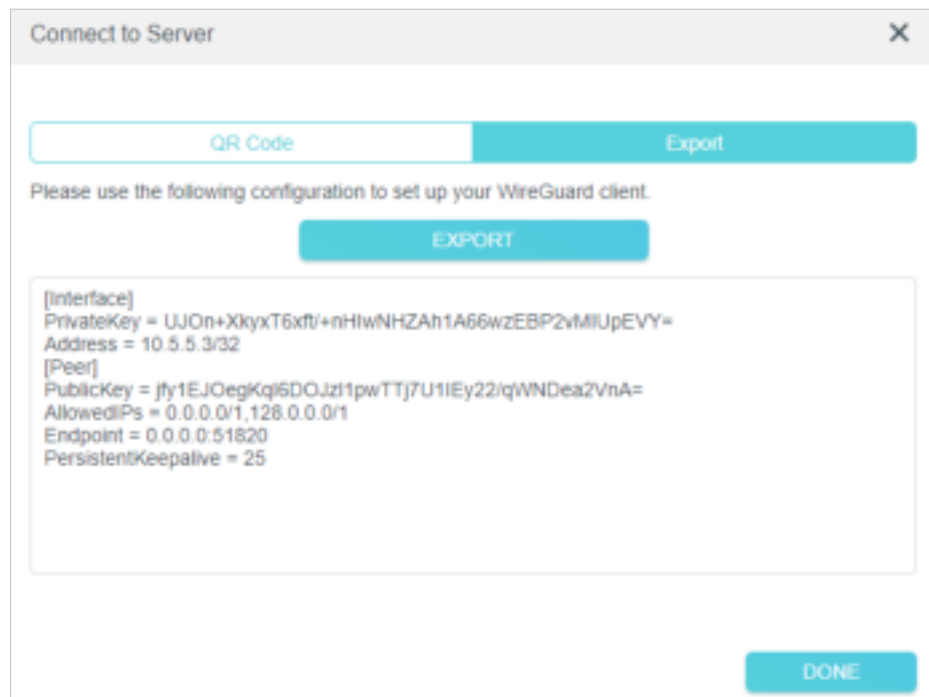
2. Give a [Username](#) to this account.
3. View the [Address](#) of the virtual interface assigned to this account. Do NOT change it unless necessary.
4. Traffic sent from the WireGuard VPN client to the allowed IPs (client) will be transmitted through the tunnel. By default, all network traffic from clients will be transmitted through the tunnel. Do NOT change it unless necessary.
5. Traffic sent from the WireGuard VPN server to the allowed IPs (server) will be transmitted through the tunnel. Do NOT change it unless necessary.
6. Enable or disable [Pre-shared Key](#).
7. Click [SAVE](#).

Note: One account can only be used by one WireGuard VPN client at the same time to connect to the WireGuard VPN server.



8. Connect to the WireGuard server.

- For mobile phones, download WireGuard App from Google Play or Apple Store, then use the App to scan the QR Code to connect to this server.
- For other devices (e.g. TP-Link WireGuard VPN client), Click [EXPORT](#) to save the WireGuard VPN configuration file which will be used by the remote device to access your router.



9. On the account list, you can click the button to modify the VPN server settings, connect to the server, or delete the account.

Account List

Configure accounts (up to 16) that can be used by remote clients to connect to the VPN server.

[+ Add](#)

Username	Allowed IPs	Modify
Test	0.0.0.0/1,128.0.0.0/1	Edit Link Delete
ADMIN	0.0.0.0/1,129.0.0.0/1	Edit Link Delete

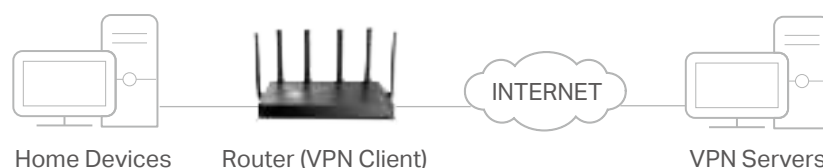
Note: If you have renewed the key, please reconfigure the client, otherwise the client will not be able to connect to the VPN server.

15.5. Use VPN Client to Access a Remote VPN Server

VPN Client is used to create VPN connections for devices in your home network to access a remote VPN server.

To use the VPN feature, simply configure a VPN connection and choose your desired devices on your router, then these devices can access the remote VPN server. Please follow the steps below:

*Image may differ from your actual product.

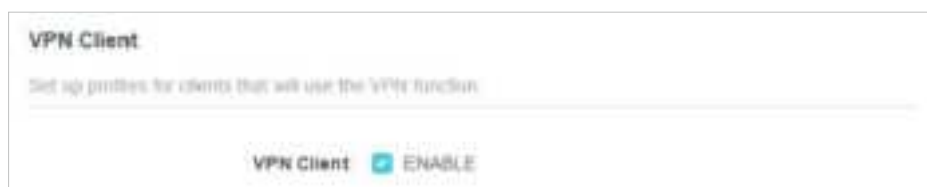


1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.

2. Go to **Advanced > VPN Client**.

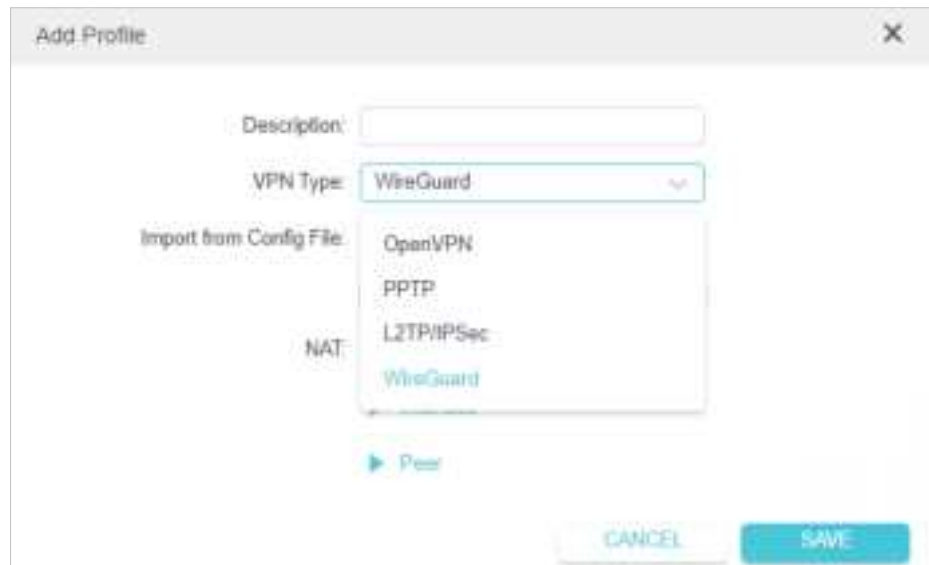
Note: Firmware update may be required to support VPN Client.

3. Enable **VPN Client**, then save the settings.



4. Add VPN servers, and enable the one you need.

- 1) In the **Server List** section, click **Add**.
- 2) Specify a **Description** for the VPN, and choose the **VPN Type**.

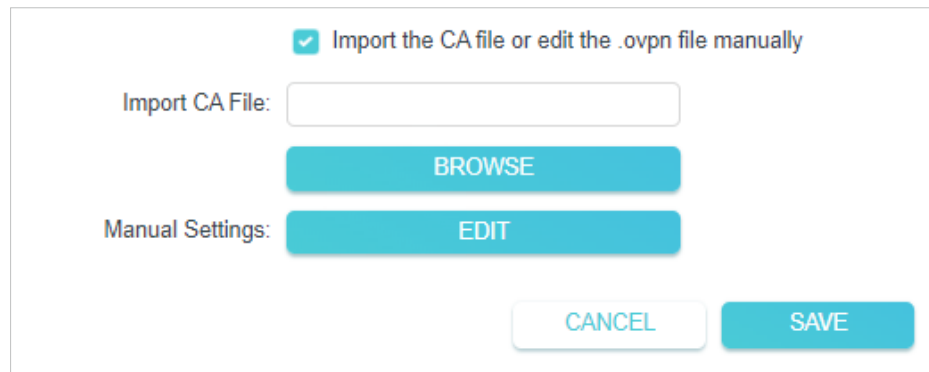


3) Enter the VPN information provided by your VPN provider.

- **OpenVPN:** Enter the VPN username and password if required by your VPN provider, otherwise simply leave them empty. Then import the configuration file provided by your VPN provider.



Note: You can also check the box of [Import the CA file or edit the .ovpn file manually](#), then upload the CA file or manually configure the settings.



☒ Import the CA file or edit the .ovpn file manually

Import CA File:

Manual Settings:

- **PPTP**: Enter the VPN server address (for example: 218.18.1.73) and the VPN username and password provided by your VPN provider.



Add Profile

Description:

VPN Type:

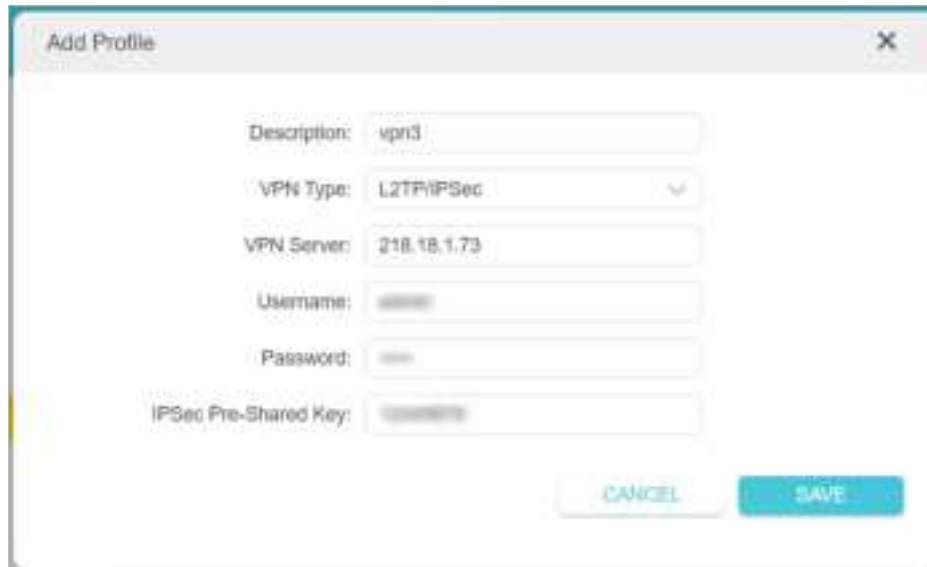
VPN Server:

Username:

Password:

Encryption:

- **L2TP/IPSec VPN**: Enter the VPN server address (for example: 218.18.1.73), VPN username and password, and IPSec pre-shared key provided by your VPN provider.



The screenshot shows a window titled "Add Profile" with a close button (X) in the top right corner. The window contains the following fields and values:

- Description: vpn3
- VPN Type: L2TP/IPSec (dropdown menu)
- VPN Server: 218.18.1.73
- Username: admin
- Password: 123456
- IPSec Pre-Shared Key: 1234567890

At the bottom right of the window, there are two buttons: "CANCEL" and "SAVE".

- **WireGuard VPN:** Give a description, and click [BROWSE](#) to import the WireGuard VPN server configuration. Then you will see the detailed parameters. Do NOT change the parameters unless necessary.

Add Profile

Description:

VPN Type:

WireGuard

Import from Config File:

UPLOAD

NAT:

☒ Enabled

▼ Interface

Private Key:

Address:

DNS Server 1:

(Optional)

DNS Server 2:

(Optional)

MTU Size:

1420

bytes

(Optional)

▼ Peer

Public Key:

Pre-Shared Key:

(Optional)

Allowed IPs:

Endpoint Address:

Endpoint Port:

Persistent Keepalive:

25

(Optional)

CANCEL

SAVE

- 4) Save the settings.
- 5) In the server list, enable the VPN server you need.

Server List

Add or edit VPN server. Up to 6 VPN servers can be added.

[Add](#)

Description	VPN Type	Status	ENABLE	Modify
vpn3	L2TP/IPSec	Disconnected	☒	Edit Delete
vpn2	PPTP	Disconnected	☐	Edit Delete
vpn1	OpenVPN	Disconnected	☐	Edit Delete
vpn4	WireGuard	Disconnected	☐	Edit Delete

5. Add and manage the devices that will use the VPN function.

- 1) In the [Device List](#) section, click [Add](#).
- 2) Choose and add the devices that will access the VPN server you have configured.

Select the devices that will access VPN server

Online Devices

Device Type	Device Name	MAC Address
☒ ...	...	FC-AA-14-55-FB-5D
☒ ...	...	08-02-DE-89-1B-62

Offline Devices

Device Type	Device Name	MAC Address
No Entries		

[Cancel](#) [Add](#)

6. Save the settings.

Device List

Manage devices that will use the VPN function.

Add

Type	Device Name	MAC Address	VPN Access	Modify
	WinBox	FC:AA:14:56:FB:5D		
	MyPhone	86:D2:DE:88:18:62		

Done! Now the devices you specified can access the VPN server you enabled.

Chapter 16

Customize Your Network Settings

This chapter guides you on how to configure advanced network features.

It contains the following sections:

- [Change the Internet Settings](#)
- [Change the LAN Settings](#)
- [Configure to Support IPTV Service](#)
- [Specify DHCP Server Settings](#)
- [Set Up a Dynamic DNS Service Account](#)
- [Create Static Routes](#)

16.1. Change the Internet Settings

After setting up your internet, you can also easily change the internet settings if needed in the future.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Advanced](#) > [Network](#) > [Internet](#).

- **To change the internet connection settings:**

Internet

Set up an internet connection with the service information provided by your ISP (internet service provider).

Internet Connection Type: Dynamic IP

IP Address: 192.168.1.3

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

Primary DNS: 192.168.1.1

Secondary DNS: 0.0.0.0

RENEW

RELEASE

▼ Advanced Settings

DNS Address: Get Dynamically from ISP

Primary DNS: 192.168.1.1

Secondary DNS: 0.0.0.0

MTU Size: 1500 bytes

Host Name: ArcherBE400

☐ Get IP using Unicast DHCP

1. Select the internet connection type and configure the settings according to the information provided by your ISP.
2. (Optional) Reveal the advanced settings and change the settings if needed. It's recommended to keep the default settings.
3. Click [SAVE](#).

- **To change the MAC address of the router:**

You have three options:

- [Use Default MAC Address](#) - Do not change the default MAC address of your router in case the ISP does not bind the assigned IP address to the MAC address.
- [Clone Current Device MAC](#) - Select to copy the current MAC address of the computer that is connected to the router, in case the ISP binds the assigned IP address to the MAC address.
- [Use Custom MAC Address](#) - Select if your ISP requires you to register the MAC address and enter the correct MAC address in this field, in case the ISP binds the assigned IP address to the specific MAC address.

• To Set up NAT

The router's NAT (Network Address Translation) feature makes devices on the LAN use the same public IP address to communicate with devices on the internet, which protects the local network by hiding IP addresses of the devices.

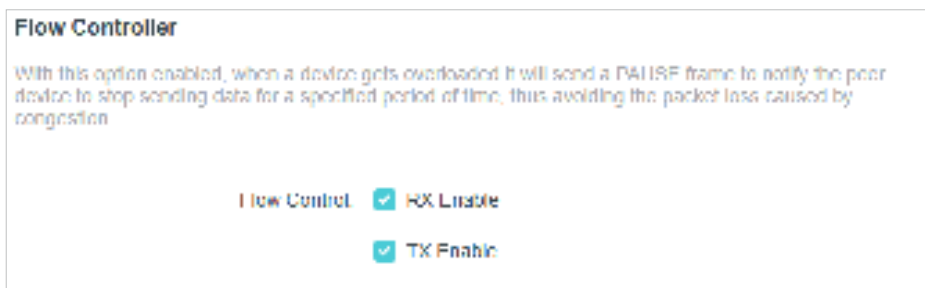
1. If you want to enable NAT, tick the checkbox, and click [SAVE](#).

• To change the Internet Port Negotiation Speed Setting

You can change the internet port speed mode. [Auto Negotiation](#) is recommended.

• To enable Flow Controller

With [Flow Controller](#) enabled, when a device gets overloaded it will send a PAUSE frame to notify the peer device to stop sending data for a specified period of time, thus avoiding the packet loss caused by congestion. [Flow Controller](#) is enabled by default.



16.2. Change the LAN Settings

The router is preset with a default LAN IP 192.168.0.1, which you can use to log in to its web management page. The LAN IP address together with the Subnet Mask also defines the subnet that the connected devices are on. If the IP address conflicts with another device on your local network or your network requires a specific IP subnet, you can change it.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Advanced](#) > [Network](#) > [LAN](#).
3. Type in a new IP Address appropriate to your needs. And leave the [Subnet Mask](#) as the default settings.



4. Click [SAVE](#).

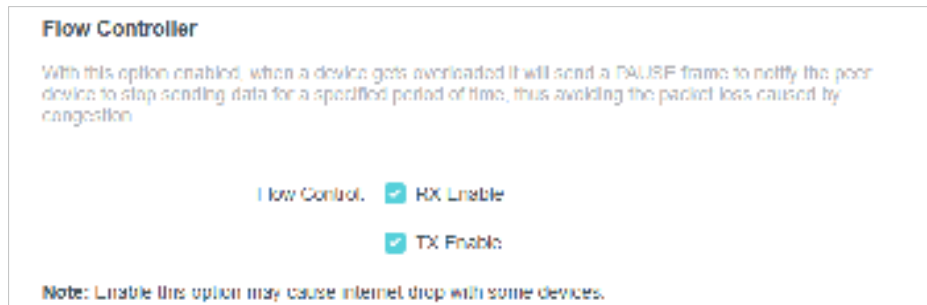
Note: If you have set the Port Forwarding, DMZ or DHCP address reservation, and the new LAN IP address is not in the same subnet with the old one, then you should reconfigure these features.

16.3. Flow Controller

With [Flow Controller](#) enabled, when a device gets overloaded it will send a PAUSE frame to notify the peer device to stop sending data for a specified period of time, thus avoiding the packet loss caused by congestion.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.

2. Go to **Advanced > Network > LAN**, and locate the **Flow Controller** section.
3. **Flow Controller** is enabled by default. Please note that enable **Flow Controller** may cause internet drop with some devices.



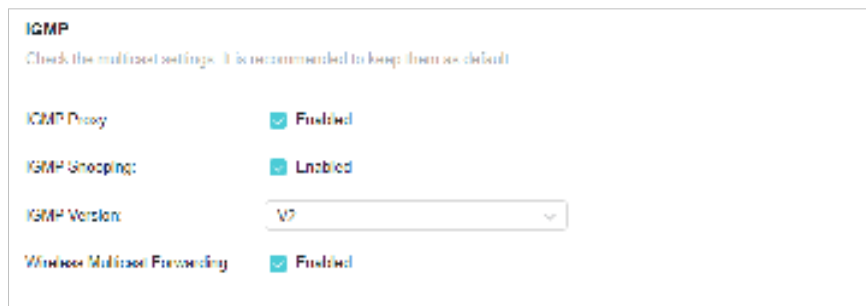
16.4. Configure to Support IPTV Service

I want to:

Configure IPTV setup to enable Internet/IPTV/Phone service provided by my internet service provider (ISP).

How can I do that?

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > Network > IPTV/VLAN**.
1. If your ISP provides the networking service based on IGMP technology, e.g., British Telecom(BT) and Talk Talk in UK:
 - 1) Tick the **IGMP Proxy** and **IGMP Snooping** checkbox, then select the **IGMP Version**, either V2 or V3, as required by your ISP.



- 2) Check the **Wireless Multicast Forwarding** status. When enabled, the multicast packets will be forwarded automatically. You are recommended to keep it as default.
- 3) Click **SAVE**.

- 4) After configuring IGMP proxy, IPTV can work behind your router now. You can connect your set-top box to any of the router's Ethernet port.

If IGMP is not the technology your ISP applies to provide IPTV service:

- 1) Tick [Enable IPTV/VLAN](#).
- 2) Select the appropriate [Mode](#) according to your ISP.
 - Select [Bridge](#) if your ISP is not listed and no other parameters are required.
 - Select [Custom](#) if your ISP is not listed but provides necessary parameters.

- 3) After you have selected a mode, the necessary parameters, including the LAN port for IPTV connection, are predetermined. If not, select the LAN type to determine which port is used to support IPTV service.
- 4) Click [SAVE](#).
- 5) Connect the set-top box to the corresponding LAN port which is predetermined or you have specified in Step 3.

Done!

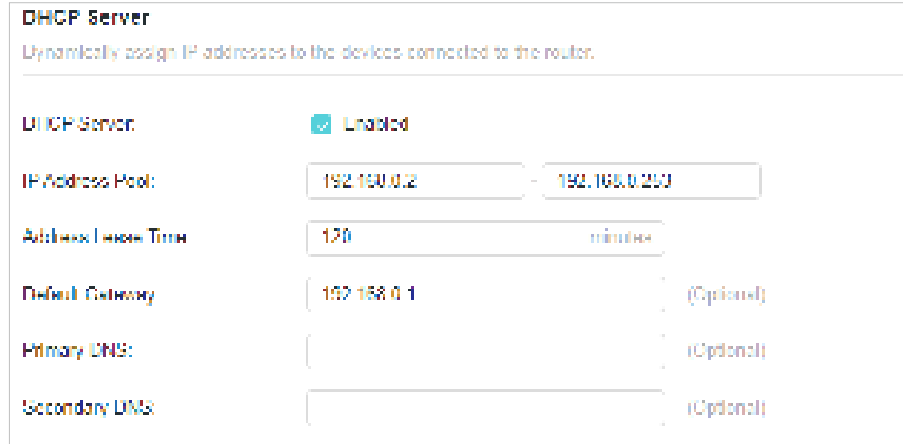
Your IPTV setup is done now! You may need to configure your set-top box before enjoying your TV.

16.5. Specify DHCP Server Settings

By default, the DHCP (Dynamic Host Configuration Protocol) Server is enabled and the router acts as a DHCP server; it dynamically assigns TCP/IP parameters to client devices from the IP Address Pool. You can change the settings of the DHCP Server if necessary, and you can reserve LAN IP addresses for specified client devices.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Advanced](#) > [Network](#) > [DHCP Server](#).

- **To specify the IP address that the router assigns:**



DHCP Server
Dynamically assign IP addresses to the devices connected to the router.

DHCP Server: ☒ Enabled

IP Address Pool: 192.168.0.2 - 192.168.0.250

Address Lease Time: 120 minutes

Default Gateway: 192.168.0.1 (Optional)

Primary DNS: (Optional)

Secondary DNS: (Optional)

1. Tick the [Enable](#) checkbox.
2. Enter the starting and ending IP addresses in the [IP Address Pool](#).
3. Enter other parameters if the ISP offers. The [Default Gateway](#) is automatically filled in and is the same as the LAN IP address of the router.
4. Click [SAVE](#).

- **To reserve an IP address for a specified client device:**

1. Click [Add](#) in the [Address Reservation](#) section.



Add a Reservation Entry X

MAC Address: [Empty field]

[VIEW CONNECTED DEVICES](#)

IP Address: [Empty field]

[CANCEL](#) [SAVE](#)

2. Click [VIEW CONNECTED DEVICES](#) and select the you device you want to reserve an IP for. Then the [MAC Address](#) will be automatically filled in. Or enter the [MAC address](#) of the client device manually.
3. Enter the [IP address](#) to reserve for the client device.
4. Click [SAVE](#).

16.6. Set Up a Dynamic DNS Service Account

Most ISPs assign a dynamic IP address to the router and you can use this IP address to access your router remotely. However, the IP address can change from time to time and you don't know when it changes. In this case, you might apply the DDNS (Dynamic Domain Name Server) feature on the router to allow you and your friends to access your router and local servers (FTP, HTTP, etc.) using a domain name without checking and remembering the IP address.

■ **Note:** DDNS does not work if the ISP assigns a private WAN IP address (such as 192.168.1.x) to the router.

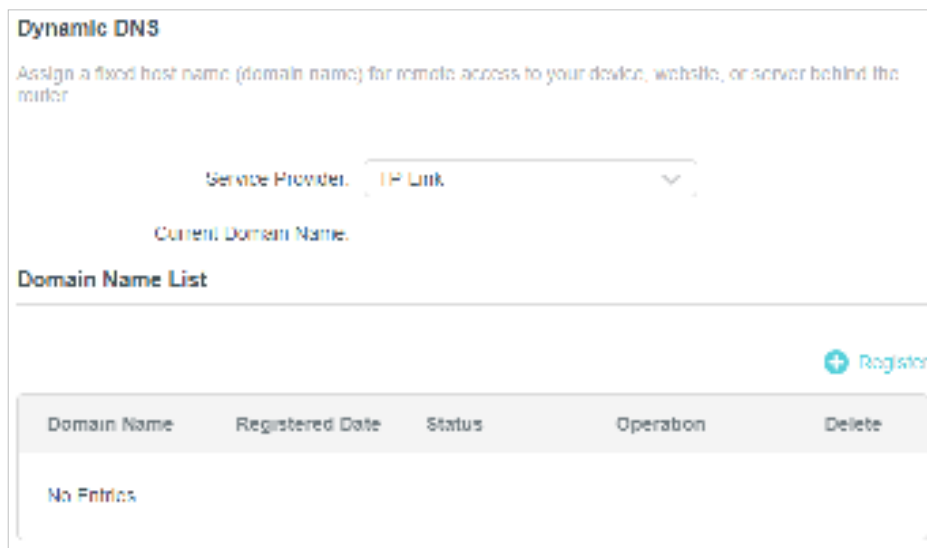
1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > Network > Dynamic DNS**.
3. Select the DDNS **Service Provider**: TP-Link, NO-IP or DynDNS. It is recommended to select TP-Link so that you can enjoy TP-Link's superior DDNS service. Otherwise, please select NO-IP or DynDNS. If you don't have a DDNS account, you have to register first by clicking **Register Now**.



The screenshot shows the 'Dynamic DNS' configuration page. At the top, it says 'Dynamic DNS' and 'Assign a fixed host name (domain name) for remote access to your device, website, or server behind the router'. Below this, there is a 'Service Provider' dropdown menu with 'TP-Link' selected.

■ **Note:** To enjoy TP-Link's DDNS service, you have to log in with a TP-Link ID. If you have not logged in with one, click [log in](#).

4. Click **Register** in the **Domain Name List** if you have selected TP-Link, and enter the **Domain Name** as needed.



The screenshot shows the 'Dynamic DNS' configuration page with the 'Domain Name List' section expanded. It features a table with columns: Domain Name, Registered Date, Status, Operation, and Delete. The table is currently empty, showing 'No Entries'. A '+ Register' button is located at the top right of the table.

Domain Name	Registered Date	Status	Operation	Delete
No Entries				

If you have selected NO-IP or DynDNS, enter the username, password and domain name of your account.

Dynamic DNS

Assign a fixed host name (domain name) for remote access to your device, website, or server behind the router.

Service Provider: NO-IP [Register Now](#)

Username:

Password: ☐

Domain Name:

WAN IP binding: ☐ Enable

Status: Not launching

[LOGIN AND SAVE](#)

[LOGOUT](#)

5. Click [LOGIN AND SAVE](#).

💡 **Tips:** If you want to use a new DDNS account, please click [Logout](#) first, and then log in with a new account.

16.7. Create Static Routes

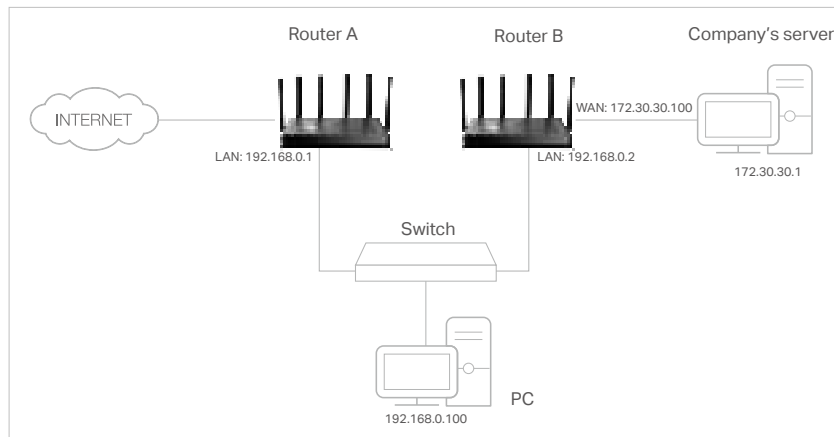
Static routing is a form of routing that is configured manually by a network administrator or a user by adding entries into a routing table. The manually-configured routing information guides the router in forwarding data packets to the specific destination.

I want to:

Visit multiple networks and servers at the same time.

[For example](#), in a small office, my PC can surf the internet through Router A, but I also want to visit my company's network. Now I have a switch and Router B. I connect the devices as shown in the following figure so that the physical connection between my PC and my company's server is established. To surf the internet and visit my company's network at the same time, I need to configure the static routing.

*Image may differ from your actual product.



How can I do that?

1. Change the routers' LAN IP addresses to two different IP addresses on the same subnet. Disable Router B's DHCP function.
2. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for Router A.
3. Go to **Advanced > Network > Routing**.
4. Click **Add** and finish the settings according to the following explanations:

Add a Routing Entry	
Network Destination:	
Subnet Mask:	
Default Gateway:	
Interface:	Please Select
Description:	
CANCEL SAVE	

Network Destination: The destination IP address that you want to assign to a static route. This IP address cannot be on the same subnet with the WAN IP or LAN IP of Router A. In the example, the IP address of the company network is the destination IP address, so here enter 172.30.30.1.

Subnet Mask: Determines the destination network with the destination IP address. If the destination is a single IP address, enter 255.255.255.255; otherwise, enter the subnet mask of the corresponding network IP. In the example, the destination

network is a single IP, so here enter 255.255.255.255.

Default Gateway: The IP address of the gateway device to which the data packets will be sent. This IP address must be on the same subnet with the router's IP which sends out data. In the example, the data packets will be sent to the LAN port of Router B and then to the Server, so the default gateway should be 192.168.0.2.

Interface: Determined by the port (WAN/LAN) that sends out data packets. In the example, the data are sent to the gateway through the LAN port of Router A, so **LAN/WLAN** should be selected.

Description: Enter a description for this static routing entry.

5. Click **SAVE**.
6. Check the **Routing Table** below. If you can find the entry you've set, the static routing is set successfully.

Routing Table			
View all valid routing entries that are currently in use.			
Active Route Number: 3			 Refresh
Network Destination	Subnet Mask	Gateway	Interface
172.30.30.1	255.255.255.255	192.168.0.2	LAN
192.168.0.0	255.255.255.0	0.0.0.0	LAN
0.0.0.0	0.0.0.0	0.0.0.0	WAN

Done!

Open a web browser on your PC. Enter the company server's IP address to visit the company network.

Chapter 17

Manage the Router

This chapter will show you the configuration for managing and maintaining your router.

It contains the following sections:

- [Update the Firmware](#)
- [Backup and Restore Configuration Settings](#)
- [Change the Login Password](#)
- [Password Recovery](#)
- [Local Management](#)
- [Remote Management](#)
- [System Log](#)
- [Test the Network Connectivity](#)
- [Set System Time](#)
- [Set the Router to Reboot Regularly](#)
- [Control the LED](#)

17.1. Update the Firmware

TP-Link aims at providing better network experience for users.

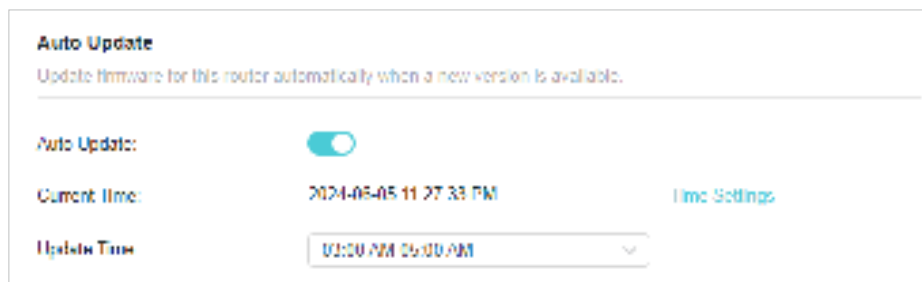
We will inform you through the web management page if there's any new firmware available for your router. Also, the latest firmware will be released at the TP-Link official website www.tp-link.com, and you can download it from the [Support](#) page for free.

Note:

- Back up your router's configurations before firmware update.
- Do NOT turn off the router during the firmware update.

17.1.1. Auto Update

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Advanced](#) > [System](#) > [Firmware Update](#).
3. Enable [Auto Update](#).



4. Specify the [Update Time](#) and save the settings.

The router will update firmware automatically at the specified time when new version is available.

17.1.2. Online Update

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. When the latest firmware is available for your router, the update icon  will display in the top-right corner of the page. Click the icon to go to the [Firmware Update](#) page.
Alternatively, you can go to [Advanced](#) > [System](#) > [Firmware Update](#), and click [CHECK FOR UPDATES](#) to see whether the latest firmware is released.
3. Focus on the [Online Update](#) section, and click [UPDATE](#) if there is new firmware.



4. Wait a few minutes for the update and reboot to complete.

🔗 **Tips:** If there's a new and important firmware update for your router, you will see the prompt notification on your computer as long as a web browser is opened. Click to update, and log in to the web management page with the username and password you set for the router. You will see the [Firmware Update](#) page.

17.1.3. Local Update

1. Download the latest firmware file for the router from www.tp-link.com.
2. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
3. Go to [Advanced](#) > [System](#) > [Firmware Update](#).
4. Focus on the [Local Update](#) section. Click [UPLOAD](#) to locate the downloaded new firmware file, and click [UPDATE](#).



5. Wait a few minutes for the update and reboot to complete.

📌 **Note:** If you fail to update the firmware for the router, please contact our [Technical Support](#).

17.1.4. EasyMesh Satellite Update

EasyMesh Satellite Update allows you to remotely check and update the firmware of the satellite devices connected to this router via EasyMesh.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Advanced](#) > [System](#) > [Firmware Update](#), and locate the [EasyMesh Satellite Update](#) section.

- The router's satellite devices will appear on the table. Click [CHECK FOR UPDATES](#) to see whether the latest firmware is released. If you want to update a satellite device, click  on the right of the corresponding device.

 **Note:** The update will take a few minutes and the satellite router will reboot.



17.2. Backup and Restore Configuration Settings

The configuration settings are stored as a configuration file in the router. You can backup the configuration file to your computer for future use and restore the router to a previous settings from the backup file when needed. Moreover, if necessary you can erase the current settings and reset the router to the default factory settings.

- Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
- Go to [Advanced](#) > [System Tools](#) > [Backup & Restore](#).

- To backup configuration settings:**

Click [BACK UP](#) to save a copy of the current settings to your local computer. A '.bin' file of the current settings will be stored to your computer.



- To restore configuration settings:**

- Click [UPLOAD](#) to locate the backup configuration file stored on your computer, and click [RESTORE](#).

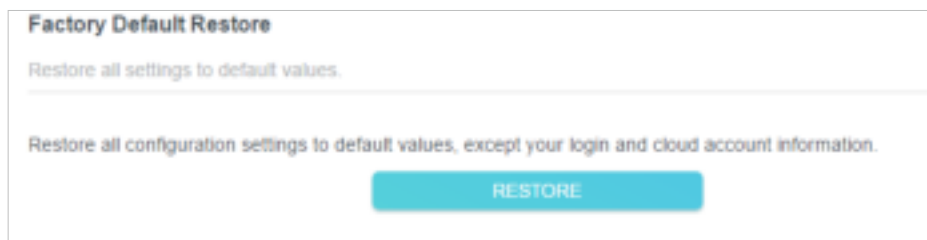


2. Wait a few minutes for the restoring and rebooting.

Note: During the restoring process, do not turn off or reset the router.

- **To reset the router except your login password and TP-Link ID:**

1. In the [Factory Default Restore](#) section, click [RESTORE](#).



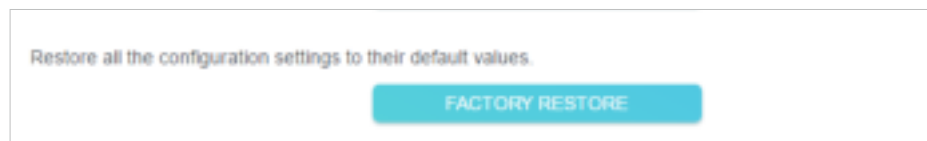
2. Wait a few minutes for the resetting and rebooting.

Note:

- During the resetting process, do not turn off the router.
- After reset, you can still use the current login password or the TP-Link ID to log in to the web management page.

- **To reset the router to factory default settings:**

1. Click [FACTORY RESTORE](#) to reset the router.



2. Wait a few minutes for the resetting and rebooting.

Note:

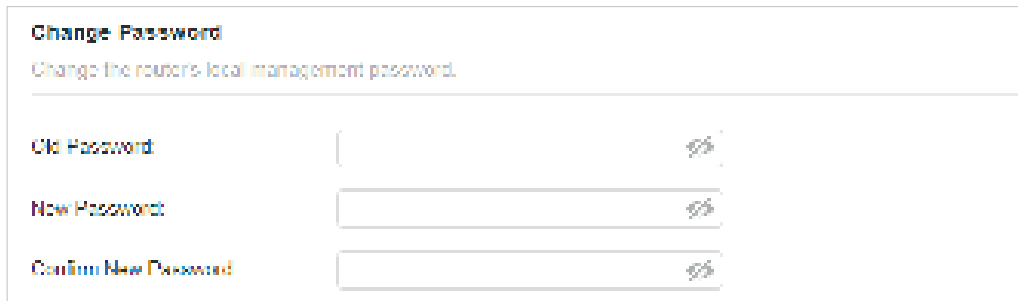
- During the resetting process, do not turn off or reset the router.
- We strongly recommend you backup the current configuration settings before resetting the router.

17.3. Change the Login Password

The account management feature allows you to change your login password of the web management page.

Note: If you are using a TP-Link ID to log in to the web management page, the account management feature will be disabled. To manage the TP-Link ID, go to [Advanced](#) > [TP-Link ID](#).

1. Visit <http://tplinkwifi.net>, and log in with the password you set for the router.
2. Go to [Advanced](#) > [System](#) > [Administration](#) and focus on the [Change Password](#) section.



3. Enter the old password, then a new password twice (both case-sensitive). Click [SAVE](#).
4. Use the new password for future logins.

17.4. Password Recovery

This feature allows you to recover the login password you set for your router in case you forget it.

Note: If you are using a TP-Link ID to log in to the web management page, the Password Recovery feature will be disabled. To manage the TP-Link ID, go to [Advanced](#) > [TP-Link ID](#).

1. Visit <http://tplinkwifi.net>, and log in with the password you set for the router.
2. Go to [Advanced](#) > [System](#) > [Administration](#) and focus on the [Password Recovery](#) section.
3. Tick the [Enable](#) box of [Password Recovery](#).
4. Specify a [mailbox \(From\)](#) for sending the recovery letter and enter its [SMTP Server](#) address. Specify a [mailbox \(To\)](#) for receiving the recovery letter. If the mailbox (From) to send the recovery letter requires encryption, Tick the [Enable](#) box of [Authentication](#) and enter its username and password.

Tips:

- SMTP server is available for users in most webmail systems. For example, the SMTP server address of Gmail is smtp.gmail.com.
- Generally, Authentication should be enabled if the login of the mailbox requires username and password.

Password Recovery
Recover local management password via preset questions and answers

Password Recovery	☒ Enabled
From	
To	
SMTP Server	
Authentication	☒ Enabled
Username	
Password	

5. Click **SAVE**.

To recover the login password, please visit <http://tplinkwifi.net>, click **Forgot Password?** on the login page and follow the instructions to set a new password.

17.5. Local Management

This feature allows you to limit the number of client devices on your LAN from accessing the router by using the MAC address-based authentication.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > System > Administration** and complete the settings in **Local Management** section as needed.

- **Access the router via HTTPS and HTTP:**

Tick the **Enable** box of **Local Management via HTTPS** to access the router via HTTPS and HTTP, or keep it disabled to access the router only via HTTP.

Local Management
Access and manage the router from local network devices.

Local Management via HTTPS	☒ Enable
Local Managers	All Devices

- **Allow all LAN connected devices to manage the router:**

Select **All Devices** for **Local Management**.

Local Management
Access and manage the router from local network devices

Local Management via HTTPS: ☒ Enabled

Local Managers: All Devices

- Allow specific devices to manage the router:

1. Select [Specific Devices](#) for [Local Management](#) and click [SAVE](#).

Local Management
Access and manage the router from local network devices

Local Management via HTTPS: ☒ Enabled

Local Managers: Specified Devices

[Add Device](#)

Description	MAC Address	Modify
There is no entry!		

2. Click [Add Device](#).

Add Device

Description: (Optional)

[VIEW CONNECTED DEVICES](#)

MAC Address:

[CANCEL](#) [SAVE](#)

3. Click [VIEW CONNECTED DEVICES](#) and select the device to manage the router from the Connected Devices list, or enter the MAC address of the device manually.
4. Specify a [Description](#) for this entry.
5. Click [SAVE](#).

17.6. Remote Management

This feature allows you to control remote devices' authority to manage the router.

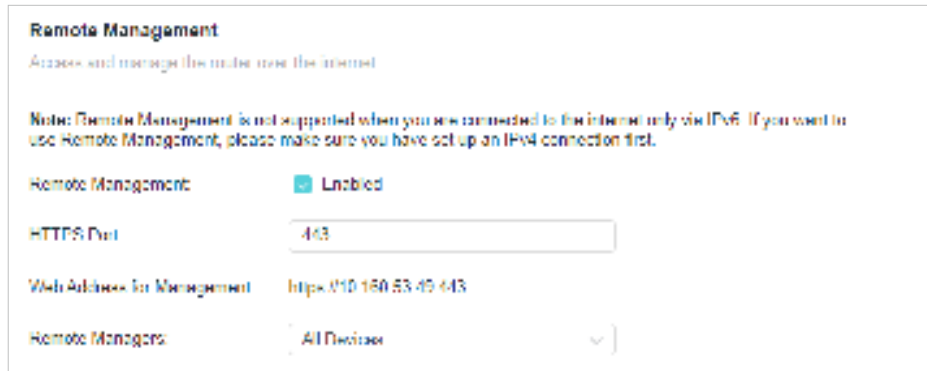
1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.

2. Go to [Advanced > System > Administration](#) and complete the settings in [Remote Management](#) section as needed.

- **Forbid all devices to manage the router remotely:**

Do not tick the [Enable](#) checkbox of [Remote Management](#).

- **Allow all devices to manage the router remotely:**



Remote Management
Access and manage the router from the internet

Note: Remote Management is not supported when you are connected to the internet only via IPv6. If you want to use Remote Management, please make sure you have set up an IPv4 connection first.

Remote Management: ☐ **Enabled**

HTTPS Port:

Web Address for Management: <https://10.160.53.45:443>

Remote Managers: All Devices ▼

1. Tick the [Enable](#) checkbox of [Remote Management](#).

2. Keep the HTTPS port as default settings (recommended) or enter a value between 1024 and 65535.

3. Select [All Devices](#) for [Remote Management](#).

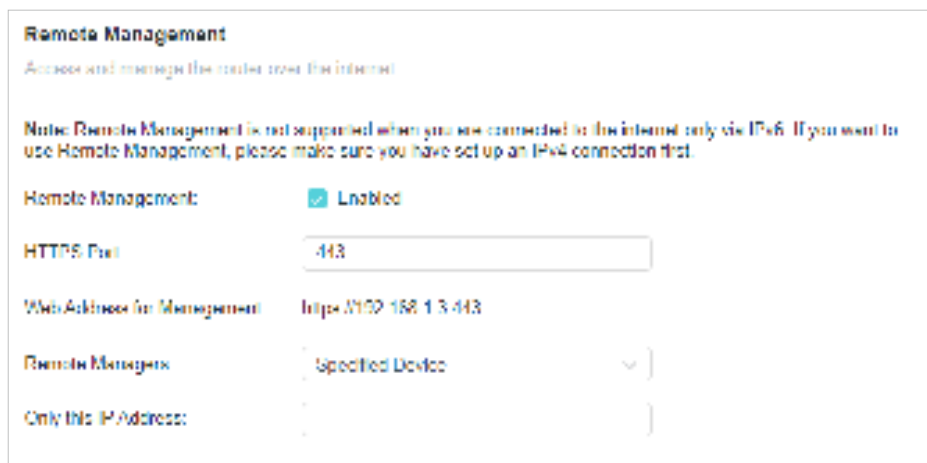
4. Click [SAVE](#).

Devices on the internet can log in to <https://Router's WAN IP address:port number> (such as <https://113.116.60.229:1024>) to manage the router.

🔗 Tips:

- You can find the WAN IP address of the router on [Network Map > Internet](#).
- The router's WAN IP is usually a dynamic IP. Please refer to [Set Up a Dynamic DNS Service Account](#) if you want to log in to the router through a domain name.

- **Allow a specific device to manage the router remotely:**



Remote Management
Access and manage the router from the internet

Note: Remote Management is not supported when you are connected to the internet only via IPv6. If you want to use Remote Management, please make sure you have set up an IPv4 connection first.

Remote Management: ☒ **Enabled**

HTTPS Port:

Web Address for Management: <https://102.168.1.3:443>

Remote Managers: Specified Device ▼

Only this IP Address: ▼

1. Tick the **Enable** checkbox of **Remote Management**.
2. Keep the HTTPS and HTTP port as default settings (recommended) or enter a value between 1024 and 65535.
3. Select **Specified Device** for **Remote Management**.
4. In the **Only this IP Address** field, enter the IP address of the remote device to manage the router.
5. Click **SAVE**.

Devices using this WAN IP can manage the router by logging in to <http://Router's WAN IP:port number> (such as <http://113.116.60.229:1024>).

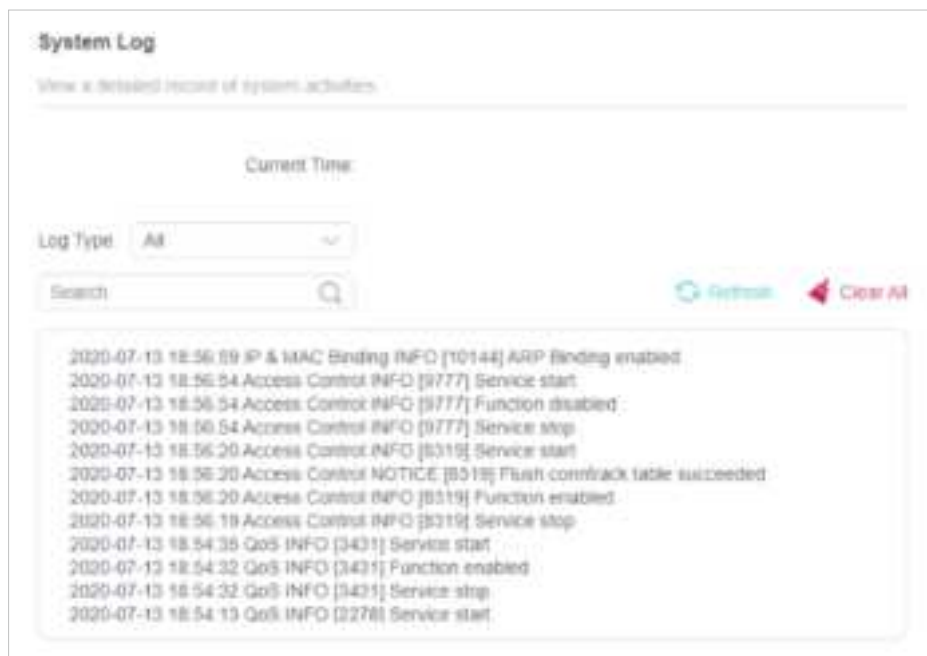
💡 **Tips:** The router's WAN IP is usually a dynamic IP. Please refer to [Set Up a Dynamic DNS Service Account](#) if you want to log in to the router through a domain name.

17.7. System Log

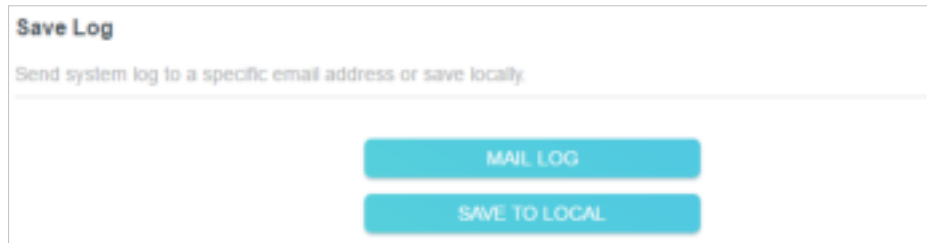
When the router does not work normally, you can save the system log and send it to the technical support for troubleshooting.

- **To save the system log locally:**

1. Visit <http://tplinkwifi.net>, and log in your TP-Link ID or the password you set for the router.
2. Go to **Advanced > System > System Log**.
3. Choose the type and level of the system logs as needed.



4. In the **Save Log** section, click **SAVE TO LOCAL** to save the system logs to a local disk.



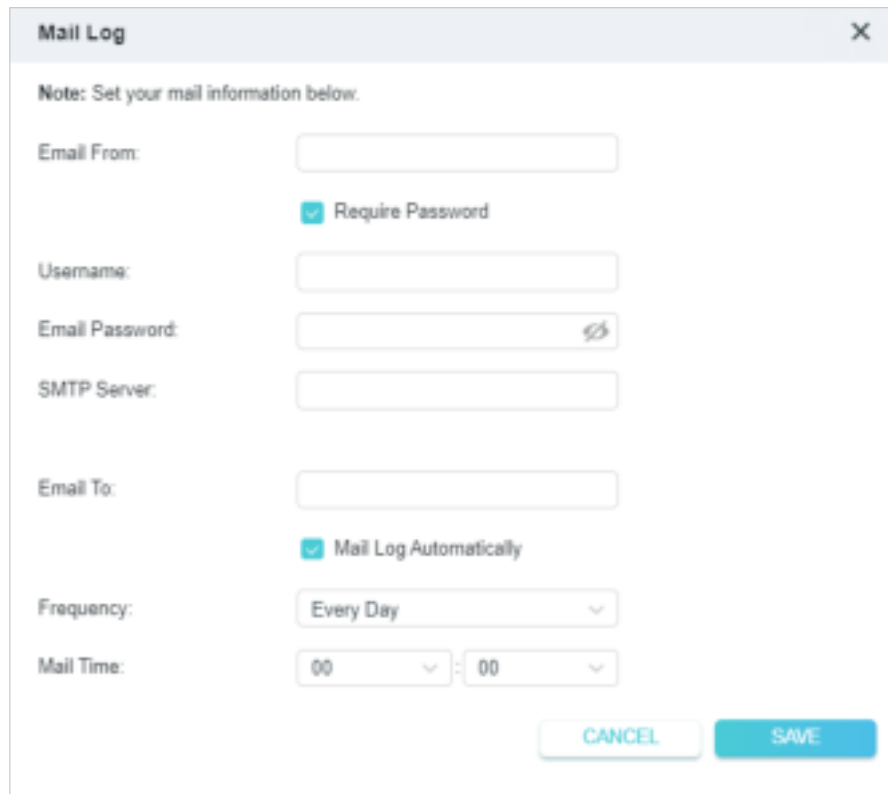
Save Log

Send system log to a specific email address or save locally.

- To send the system log to a mailbox at a fixed time:

For example, I want to check my router's working status at a fixed time every day, however, it's too troublesome to log in to the web management page every time I want to go checking. It would be great if the system logs could be sent to my mailbox at 8 a.m. every day.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Advanced > System Tools > System Log](#).
3. In the [Save Log](#) section, click [MAIL LOG](#).
4. Enter the information required:



Mail Log [X]

Note: Set your mail information below.

Email From:

☒ Require Password

Username:

Email Password: 

SMTP Server:

Email To:

☒ Mail Log Automatically

Frequency:

Mail Time: :

- 1) [Email From](#): Enter the email address used for sending the system log.
- 2) Select [Require Password](#).

☞ **Tips:** Generally, Require Password should be selected if the login of the mailbox requires username and password.

- 3) **Username:** Enter the email address used for sending the system log.
- 4) **Email Password:** Enter the password to login the sender's email address.
- 5) **SMTP Server:** Enter the SMTP server address.

☞ **Tips:** SMTP server is available for users in most webmail systems. For example, the SMTP server address of Hotmail is smtp-mail.outlook.com.

- 6) **Email To:** Enter the recipient's email address, which can be the same as or different from the sender's email address.
- 7) Select **Mail Log Automatically**.

☞ **Tips:** The router will send the system log to the designated email address if this option is enabled.

- 8) **Frequency:** This determines how often the recipient will receive the system log .

5. Click **SAVE**.

17.8. Test the Network Connectivity

Diagnostics is used to test the connectivity between the router and the host or other network devices.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > System > Diagnostics**.



3. Enter the information:

- 1) Choose **Ping** or **Traceroute** as the diagnostic tool to test the connectivity;
 - **Ping** is used to test the connectivity between the router and the tested host, and measure the round-trip time.
 - **Traceroute** is used to display the route (path) your router has passed to reach the tested host, and measure transit delays of packets across an Internet Protocol network.
- 2) Enter the **IP Address** or **Domain Name** of the tested host.

- 3) Modify the [Ping Count](#) number and the [Ping Packet Size](#). It's recommended to keep the default value.
 - 4) If you have chosen [Traceroute](#), you can modify the [Traceroute Max TTL](#). It's recommended to keep the default value.
4. Click [START](#) to begin the diagnostics.

The figure below indicates the proper connection between the router and the Yahoo server (www.Yahoo.com) tested through [Ping](#).

```
PING 192.168.0.1 (192.168.0.1): 64 data bytes
Reply from 192.168.0.1: bytes=64 ttl=64 seq=1 time=0.322 ms
Reply from 192.168.0.1: bytes=64 ttl=64 seq=2 time=0.306 ms
Reply from 192.168.0.1: bytes=64 ttl=64 seq=3 time=0.286 ms
Reply from 192.168.0.1: bytes=64 ttl=64 seq=4 time=0.334 ms
--- Ping Statistics "192.168.0.1" ---
Packets: Sent=4, Received=4, Lost=0 (0.00% loss)
Round-trip min/avg/max = 0.286/0.312/0.334 ms
ping is stopped
```

The figure below indicates the proper connection between the router and the Yahoo server (www.Yahoo.com) tested through [Traceroute](#).

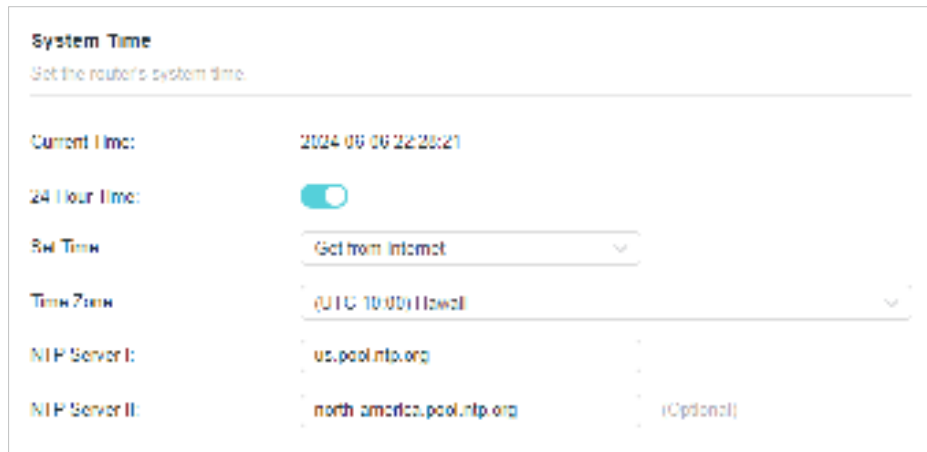
```
traceroute to 192.168.0.1, 5 hops max, 38 byte packets
1 Archer (192.168.0.1) 0.045 ms 0.015 ms 0.006 ms
Trace Complete.
traceroute is stopped.
```

17.9. Set System Time

System time is the time displayed while the router is running. The system time you configure here will be used for other time-based functions like Parental Controls. You can choose the way to obtain the system time as needed.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
 2. Go to [Advanced](#) > [System](#) > [Time](#) .
- **To get time from the internet:**
1. Enable [24-Hour Time](#) if you want the time to display in a 24-hour way.

2. In the **Set Time** field, select **Get from Internet**.

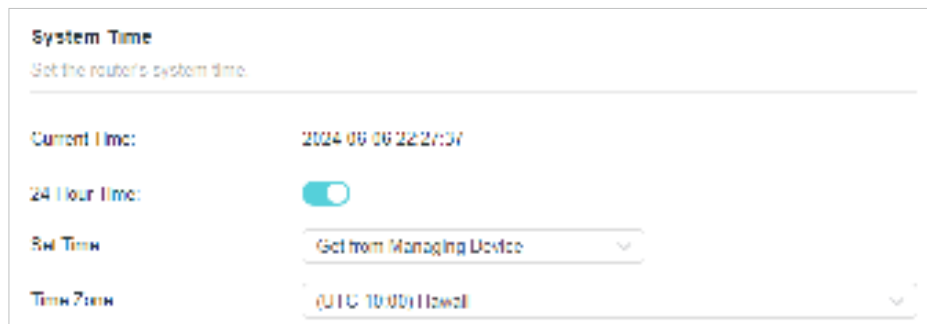


The screenshot shows the 'System Time' configuration page. At the top, it says 'System Time' and 'Get the router's system time:'. Below this, there are several fields: 'Current Time' showing '2024-06-06 22:28:21', '24 Hour Time' with a toggle switch turned on, 'Set Time' with a dropdown menu set to 'Get from Internet', 'Time Zone' with a dropdown menu set to '(UTC-10:00) Hawaii', 'NTP Server I' with the text 'us.pool.ntp.org', and 'NTP Server II' with the text 'north-america.pool.ntp.org' and a note '(Optional)'.

3. Select your local **Time Zone** from the drop-down list.
4. In the **NTP Server I** field, enter the IP address or domain name of your desired NTP Server.
5. (Optional) In the **NTP Server II** field, enter the IP address or domain name of the second NTP Server.
6. Click **SAVE**.

- **To get time from your computer:**

1. In the **Set Time** field, select **Get from Managing Device**.



The screenshot shows the 'System Time' configuration page. At the top, it says 'System Time' and 'Get the router's system time:'. Below this, there are several fields: 'Current Time' showing '2024-06-06 22:27:37', '24 Hour Time' with a toggle switch turned on, 'Set Time' with a dropdown menu set to 'Get from Managing Device', and 'Time Zone' with a dropdown menu set to '(UTC-10:00) Hawaii'.

2. The time of your computer will then be displayed and click **SAVE**.

- **To manually set the date and time:**

1. In the **Set Time** field, select **Manually**.

System Time
Set the router's system time

Current Time: 2024-06-06 22:30:17

24-Hour Time: ☒

Set Time: (Manually)

Time Zone: ((UTC+10:00) Hawaii)

Date: 2024/06/06

Time: 22 : 30 : 12

2. Set the current **Date** (In MM/DD/YYYY format).
3. Set the current **Time** (In HH/MM/SS format).
4. Click **SAVE**.

- **To set Daylight Saving Time:**

1. Tick the **Enable** box of **Daylight Saving Time**.

Daylight Saving Time
Automatically synchronize the system time with daylight saving time

Daylight Saving Time: ☒ Enabled

Start 2024: Mar (2nd)

End 2024: Nov (1st)

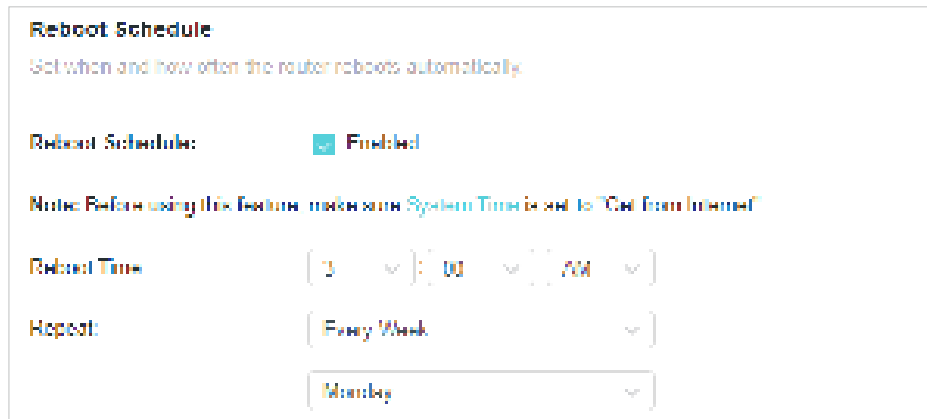
Running Status: Daylight Saving Time is off.

2. Select the correct **Start** date and time when daylight saving time starts at your local time zone.
3. Select the correct **End** date and time when daylight saving time ends at your local time zone.
4. Click **SAVE**.

17. 10. Set the Router to Reboot Regularly

The Scheduled Reboot feature cleans the cache to enhance the running performance of the router.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > System > Reboot**.
3. Tick the **Enable** box of **Reboot Schedule**.



The screenshot shows the 'Reboot Schedule' configuration page. At the top, it says 'Reboot Schedule' and 'Set when and how often the router reboots automatically.' Below this, there is a 'Reboot Schedule' section with a checkbox labeled 'Enabled' which is checked. A note below the checkbox states: 'Note: Before using this feature, make sure System Time is set to "Get from Internet"'. Underneath the note, there are two rows of dropdown menus. The first row is labeled 'Reboot Time' and has three dropdowns: the first shows '3', the second shows ':00', and the third shows 'AM'. The second row is labeled 'Repeat' and has two dropdowns: the first shows 'Every Week' and the second shows 'Monday'.

4. Specify the **Reboot Time** when the router reboots and **Repeat** to decide how often it reboots.
5. Click **SAVE**.

17. 11. Control the LED

The LED of the router indicates its activities and status. You can enable the Night Mode feature to specify a time period during which the LED is off.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > System > LED Control**.
3. Enable **Night Mode**.
4. Specify the LED off time, and the LED will be off during this period every day.
5. Click **SAVE**.

LED Control
Turn the main router's LEDs on or off

LED Status 

Note: TP-Link satellite routers will follow the main router's LED Control Settings

Night Mode
Set a time period when the LEDs will be off automatically

Night Mode: ☒ Enabled

Note: Before using this feature, make sure **System Time** is set to "Get from Internet".

Current Time: 2024-06-06 22:29:30

LED Off From

To (next day)

FAQ

Q1. What should I do if I forget my wireless password?

The default wireless password is printed on the label of the router. If the password has been altered:

1. Connect your computer to the router using an Ethernet cable.
2. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
3. Go to [Wireless](#) to retrieve or reset your wireless password.

Q2. What should I do if I forget my web management password?

- If you are using a TP-Link ID to log in, or you have enabled the Password Recovery feature of the router, click [Forgot password](#) on the login page and then follow the instructions to reset it.
- Alternatively, press and hold the [Reset](#) button of the router until the Power LED blinks to restore factory default settings, and then visit <http://tplinkwifi.net> to create a new login password.

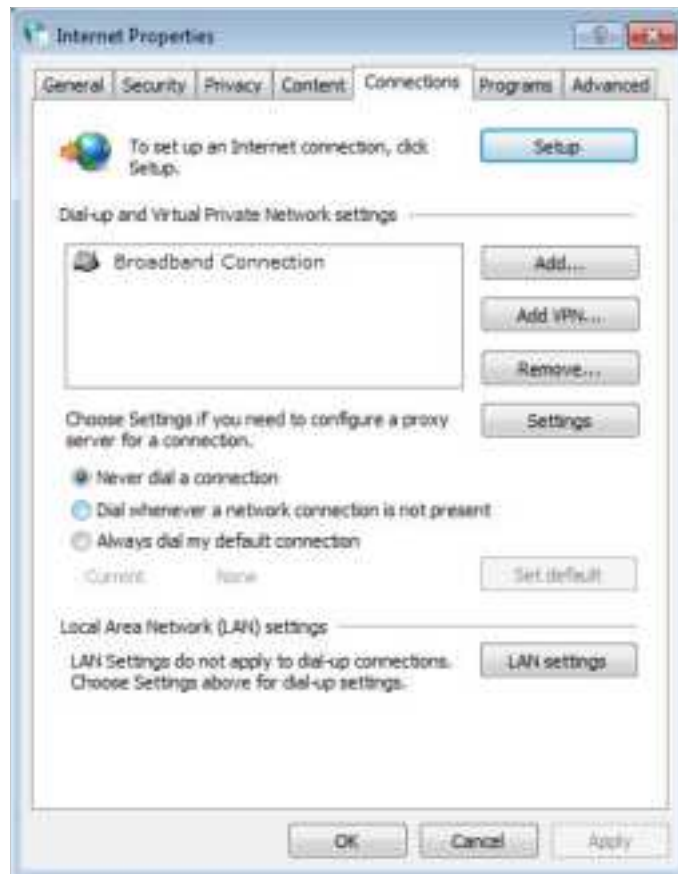
Note:

- Please refer to [Password Recovery](#) to learn how to configure Password Recovery.
- You'll need to reconfigure the router to surf the internet once the router is reset, and please mark down your new password for future use.

Q3. What should I do if I can't log in to the router's web management page?

This can happen for a variety of reasons. Please try the methods below to log in again.

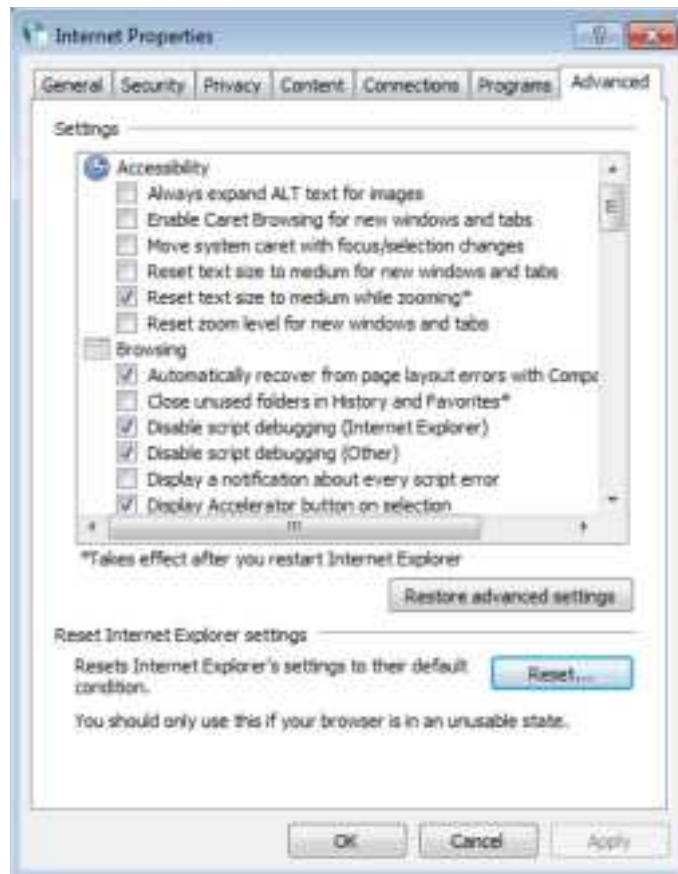
- Make sure your computer is connected to the router correctly and the corresponding LED indicator(s) light up.
- Make sure the IP address of your computer is configured as [Obtain an IP address automatically](#) and [Obtain DNS server address automatically](#).
- Make sure <http://tplinkwifi.net> or <http://192.168.0.1> is correctly entered.
- Check your computer's settings:
 - 1) Go to [Start](#) > [Control Panel](#) > [Network and Internet](#), and click [View network status and tasks](#).
 - 2) Click [Internet Options](#) on the bottom left.
 - 3) Click [Connections](#) and select [Never dial a connection](#).



4) Click [LAN settings](#) and deselect the following three options and click [OK](#).



5) Go to [Advanced](#) > [Restore advanced settings](#), click [OK](#) to save the settings.



- Use another web browser or computer to log in again.
- Reset the router to factory default settings and try again. If login still fails, please contact the technical support.

Note: You'll need to reconfigure the router to surf the internet once the router is reset.

Q4.What should I do if I can't access the internet even though the configuration is finished?

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > Network > Status** to check internet status:

If IP Address is a valid one, please try the methods below and try again:

- Your computer might not recognize any DNS server addresses. Please manually configure the DNS server.
 - 1) Go to **Advanced > Network > DHCP Server**.
 - 2) Enter 8.8.8.8 as Primary DNS, click **SAVE**.

Tips: 8.8.8.8 is a safe and public DNS server operated by Google.

DHCP Server
Dynamically assign IP addresses to the devices connected to the router.

DHCP Server: ☒ Enable

IP Address Pool: -

Address Lease Time: minutes

Default Gateway: (Optional)

Primary DNS: (Optional)

Secondary DNS: (Optional)

- Restart the modem and the router.
 - 1) Power off your modem and router, and leave them off for 1 minute.
 - 2) Power on your modem first, and wait about 2 minutes until it gets a solid cable or Internet light.
 - 3) Power on the router.
 - 4) Wait another 1 or 2 minutes and check the internet access.
- Reset the router to factory default settings and reconfigure the router.
- Upgrade the firmware of the router.
- Check the TCP/IP settings on the particular device if all other devices can get internet from the router.

As the picture below shows, if the IP Address is 0.0.0.0, please try the methods below and try again:

Status
Internet status overview is displayed on this page.

Internet

Status: WAN port is unplugged

Internet Connection Type: Dynamic IP

IP Address: 0.0.0.0

Subnet Mask: 0.0.0.0

Default Gateway: 0.0.0.0

Primary DNS: 0.0.0.0

Secondary DNS: 0.0.0.0

- Make sure the physical connection between the router and the modem is proper.
- Clone the MAC address of your computer.

- 1) Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
- 2) Go to [Internet](#) or [Advanced](#) > [Network](#) > [Internet](#) and focus on the [MAC Clone](#) section.
- 3) Choose an option as needed (enter the MAC address if [Use Custom MAC Address](#) is selected), and click [SAVE](#).



 Tips:

- Some ISP will register the MAC address of your computer when you access the internet for the first time through their Cable modem, if you add a router into your network to share your internet connection, the ISP will not accept it as the MAC address is changed, so we need to clone your computer's MAC address to the router.
- The MAC addresses of a computer in wired connection and wireless connection are different.

- **Modify the LAN IP address of the router.**

 Note:

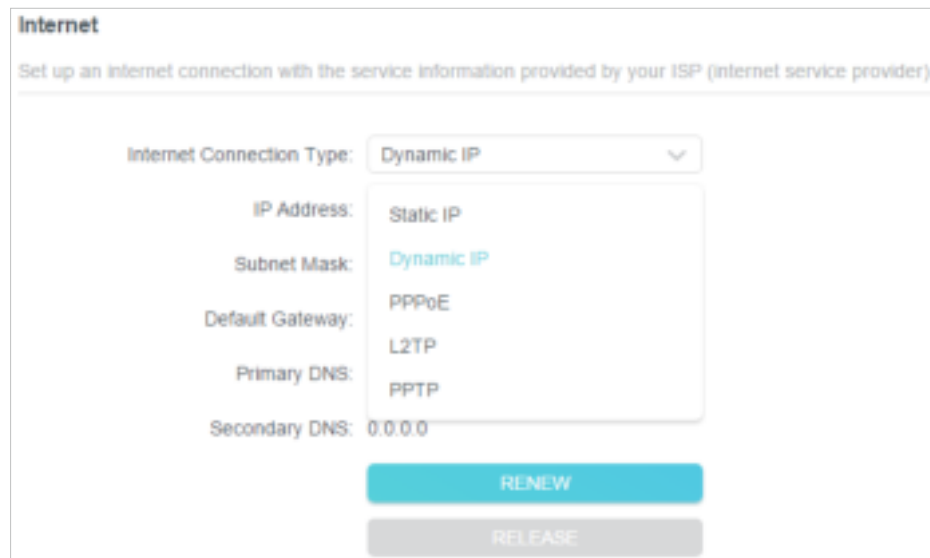
Most TP-Link routers use 192.168.0.1/192.168.1.1 as their default LAN IP address, which may conflict with the IP range of your existing ADSL modem/router. If so, the router is not able to communicate with your modem and you can't access the internet. To resolve this problem, we need to change the LAN IP address of the router to avoid such conflict, for example, 192.168.2.1.

- 1) Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
- 2) Go to [Advanced](#) > [Network](#) > [LAN](#).
- 3) Modify the LAN IP address as the follow picture shows. Here we take 192.168.2.1 as an example.
- 4) Click [SAVE](#).



- Restart the modem and the router.

- 1) Power off your modem and router, and leave them off for 1 minute.
 - 2) Power on your modem first, and wait about 2 minutes until it get a solid cable or Internet light.
 - 3) Power on the router.
 - 4) Wait another 1 or 2 minutes and check the internet access.
- Double check the internet connection type.
 - 1) Confirm your internet connection type, which can be learned from the ISP.
 - 2) Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
 - 3) Go to [Advanced](#) > [Network](#) > [Internet](#).
 - 4) Select your [Internet Connection Type](#) and fill in other parameters.
 - 5) Click [SAVE](#).



The screenshot shows the 'Internet' configuration page in a web interface. At the top, it says 'Internet' and 'Set up an internet connection with the service information provided by your ISP (internet service provider)'. Below this, there is a form with the following fields and options:

- Internet Connection Type:** A dropdown menu currently showing 'Dynamic IP'.
- IP Address:** A dropdown menu showing 'Static IP'.
- Subnet Mask:** A dropdown menu showing 'Dynamic IP'.
- Default Gateway:** A dropdown menu showing 'PPPoE'.
- Primary DNS:** A dropdown menu showing 'L2TP'.
- Secondary DNS:** A text input field containing '0.0.0.0'.

At the bottom of the form, there are two buttons: a blue 'RENEW' button and a grey 'RELEASE' button.

- 6) Restart the modem and the router again.
- Please upgrade the firmware of the router.
- If you've tried every method above but still cannot access the internet, please contact the technical support.

Q5.What should I do if I can't find my wireless network or I cannot connect the wireless network?

If you fail to find any wireless network, please follow the steps below:

- Make sure the wireless function of your device is enabled if you're using a laptop with built-in wireless adapter. You can refer to the relevant document or contact the laptop manufacturer.

- Make sure the wireless adapter driver is installed successfully and the wireless adapter is enabled.

- **On Windows 7**

- 1) If you see the message [No connections are available](#), it is usually because the wireless function is disabled or blocked somehow.
- 2) Click [Troubleshoot](#) and windows might be able to fix the problem by itself.

- **On Windows XP**

- 1) If you see the message [Windows cannot configure this wireless connection](#), this is usually because windows configuration utility is disabled or you are running another wireless configuration tool to connect the wireless.
- 2) Exit the wireless configuration tool (the TP-Link Utility, for example).
- 3) Select and right click on [My Computer](#) on desktop, select [Manage](#) to open Computer Management window.
- 4) Expand [Services and Applications](#) > [Services](#), find and locate [Wireless Zero Configuration](#) in the Services list on the right side.
- 5) Right click [Wireless Zero Configuration](#), and then select [Properties](#).
- 6) Change [Startup type](#) to [Automatic](#), click on Start button and make sure the Service status is [Started](#). And then click [OK](#).

If you can find other wireless network except your own, please follow the steps below:

- Check the WLAN LED indicator on your wireless router/modem.
- Make sure your computer/device is still in the range of your router/modem. Move it closer if it is currently too far away.
- Go to [Wireless](#) or [Advanced](#) > [Wireless](#) > [Wireless Settings](#), and check the wireless settings. Double check your wireless Network Name and SSID is not hided.

If you can find your wireless network but fail to connect, please follow the steps below:

- **Authenticating problem/password mismatch:**

- 1) Sometimes you will be asked to type in a PIN number when you connect to the wireless network for the first time. This PIN number is different from the Wireless Password/Network Security Key, usually you can only find it on the label of your router.



2) If you cannot find the PIN or PIN failed, you may choose [Connecting using a security key instead](#), and then type in the [Wireless Password/Network Security Key](#).

3) If it continues to show note of [Network Security Key Mismatch](#), it is suggested to confirm the wireless password of your wireless router.

■ Note: Wireless Password/Network Security Key is case sensitive.

- **Windows unable to connect to XXXX / Can not join this network / Taking longer than usual to connect to this network:**
 - Check the wireless signal strength of your network. If it is weak (1~3 bars), please move the router closer and try again.
 - Change the wireless Channel of the router to 1, 6 or 11 to reduce interference from other networks.
 - Re-install or update the driver for your wireless adapter of the computer.

FCC compliance information statement



Product Name: BE6500 Dual-Band Wi-Fi 7 Router

Model Number: Archer BE400/Archer BE6500

Component Name	Model
I.T.E. Power Supply	NBS30D120250VU

Responsible party:

TP-Link USA Corporation

Address: 10 Mauchly, Irvine, CA 92618

Website: <http://www.tp-link.com/us/>

Tel: +1 626 333 0234

Fax: +1 909 527 6804

E-mail: sales.usa@tp-link.com

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

To comply with FCC RF exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 46 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC compliance information statement

Product Name: I.T.E. Power Supply

Model Number: NBS30D120250VU

Responsible party:

TP-Link USA Corporation

Address: 10 Mauchly, Irvine, CA 92618

Website: <http://www.tp-link.com/us/>

Tel: +1 626 333 0234

Fax: +1 909 527 6804

E-mail: sales.usa@tp-link.com

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/ TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

We, **TP-Link USA Corporation**, has determined that the equipment shown as above has been shown to comply with the applicable technical standards, FCC part 15. There is no unauthorized change is made in the equipment and the equipment is properly maintained and operated.

Issue Date: 2024-07-23

CE Mark Warning



This is a class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

OPERATING FREQUENCY(the maximum transmitted power)

2400 MHz -2483.5 MHz (20dBm)

5150 MHz -5250 MHz (23dBm)

5250 MHz -5350 MHz (23dBm)

5470 MHz -5725 MHz (30dBm)

EU Declaration of Conformity

TP-Link hereby declares that the device is in compliance with the essential requirements and other relevant provisions of directives 2014/53/EU, 2009/125/EC, 2011/65/EU and (EU)2015/863.

The original EU Declaration of Conformity may be found at <https://www.tp-link.com/en/support/ce/>

RF Exposure Information

This device meets the EU requirements (2014/53/EU Article 3.1a) on the limitation of exposure of the general public to electromagnetic fields by way of health protection.

The device complies with RF specifications when the device used at 20 cm from your body.

National Restrictions

Frequency band: 5150 - 5250 MHz:

Indoor use: Inside buildings only. Installations and use inside road vehicles and train carriages are not permitted. Limited outdoor use: If used outdoors, equipment shall not be attached to a fixed installation or to the external body of road vehicles, a fixed infrastructure or a fixed outdoor antenna. Use by unmanned aircraft systems (UAS) is limited to within the 5170 - 5250 MHz band.

Frequency band: 5250 - 5350 MHz:

Indoor use: Inside buildings only. Installations and use in road vehicles, trains and aircraft are not permitted. Outdoor use is not permitted.

Frequency band: 5470 - 5725 MHz:

Installations and use in road vehicles, trains and aircraft and use for unmanned aircraft systems (UAS) are not permitted.

	AT	BE	BG	CH	CY	CZ	DE	DK
	EE	EL	ES	FI	FR	HR	HU	IE
	IS	IT	LI	LT	LU	LV	MT	NL
	NO	PL	PT	RO	SE	SI	SK	UK(NI)

UKCA Mark



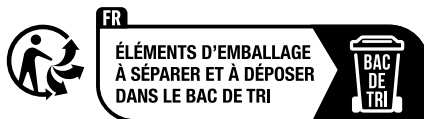
UK Declaration of Conformity

TP-Link hereby declares that the device is in compliance with the essential requirements and other relevant provisions of the Radio Equipment Regulations 2017.

The original UK Declaration of Conformity may be found at <https://www.tp-link.com/support/ukca>

National Restrictions

Attention: This device may only be used indoors in Great Britain.



Canadian Compliance Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique

Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- 1) L'appareil ne doit pas produire de brouillage;
- 2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Caution:

The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

DFS (Dynamic Frequency Selection) products that operate in the bands 5250-5350 MHz, 5470-5600MHz, and 5650-5725MHz.

Avertissement:

Le dispositif fonctionnant dans la bande 5150-5250 MHz est réservé uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;

Les produits utilisant la technique d'atténuation DFS (sélection dynamique des fréquences) sur les bandes 5250- 5350 MHz, 5470-5600MHz et 5650-5725MHz.

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 27cm between the radiator & your body.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 27 cm de distance entre la source de rayonnement et votre corps.

Industry Canada Statement

CAN ICES-3 (B)/NMB-3(B)

Korea Warning Statements:

당해 무선설비는 운용중 전파혼신 가능성이 있음.

NCC Notice & BSMI Notice:

注意!

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前述合法通信，指依電信管理法規定作業之無線電通信。

低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

應避免影響附近雷達系統之操作。

高增益指向性天線只得應用於固定式點對點系統。

安全諮詢及注意事項

- 請使用原裝電源供應器或只能按照本產品注明的電源類型使用本產品。
- 清潔本產品之前請先拔掉電源線。請勿使用液體、噴霧清潔劑或濕布進行清潔。
- 注意防潮，請勿將水或其他液體潑灑到本產品上。
- 插槽與開口供通風使用，以確保本產品的操作可靠並防止過熱，請勿堵塞或覆蓋開口。
- 請勿將本產品置放於靠近熱源的地方。除非有正常的通風，否則不可放在密閉位置中。
- 不要私自拆開機殼或自行維修，如產品有故障請與原廠或代理商聯繫。

限用物質含有情況標示聲明書

設備名稱：BE6500 Dual-Band Wi-Fi 7 Router Equipment name				型號（型式）：Archer BE400/Archer BE6500 Type designation (Type)		
單元 Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr ⁺⁶)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
	PCB	○	○	○	○	○
	外殼	○	○	○	○	○
	電源供應器	—	○	○	○	○
天線	○	○	○	○	○	○

備考1. “超出0.1 wt %” 及 “超出0.01 wt %” 係指限用物質之百分比含量超出百分比含量基準值。
 Note 1: “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.

備考2. “○” 係指該項限用物質之百分比含量未超出百分比含量基準值。
 Note 2: “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.

備考3. “—” 係指該項限用物質為排除項目。
 Note 3: The “—” indicates that the restricted substance corresponds to the exemption.



Продукт сертифіковано згідно с правилами системи УкрСЕПРО на відповідність вимогам нормативних документів та вимогам, що передбачені чинними законодавчими актами України.

Safety Information

- Keep the device away from water, fire, humidity or hot environments.
- Do not attempt to disassemble, repair, or modify the device. If you need service, please contact us.
- Do not use damaged charger or USB cable to charge the device.
- Do not use any other chargers than those recommended.
- Do not use the device where wireless devices are not allowed.
- Adapter shall be installed near the equipment and shall be easily accessible.
- Use only power supplies which are provided by manufacturer and in the original packing of this product. If you have any questions, please don't hesitate to contact us.
- This product can be wall-mounted. The installation Max. height is more than 2m.
- Operating Temperature: 0°C ~ 40°C (32°F ~ 104°F)
- This product uses radios and other components that emit electromagnetic fields. Electromagnetic fields and magnets may interfere with pacemakers and other implanted medical devices. Always keep the product and its power adapter more than 15 cm (6 inches) away from any pacemakers or other implanted medical devices. If you suspect your product is interfering with your pacemaker or any other implanted medical device, turn off your product and consult your physician for information specific to your medical device.

Please read and follow the above safety information when operating the device. We cannot guarantee that no accidents or damage will occur due to improper use of the device. Please use this product with care and operate at your own risk.

Explanations of the symbols on the product label

Note: The product label can be found at the bottom of the product and its I.T.E. power supply. Symbols may vary from products.

Symbol	Explanation
	Class II equipment
	Class II equipment with functional earthing
	Alternating current
	Direct current
	Polarity of d.c. power connector
	For indoor use only
	Dangerous voltage
	Caution, risk of electric shock
	Energy efficiency Marking
	Protective earth
	Earth
	Frame or chassis
	Functional earthing
	Caution, hot surface
	Caution
	Operator's manual
	Stand-by
	"ON" / "OFF" (push-push)
	Fuse

Symbol	Explanation
	Fuse is used in neutral N
	RECYCLING This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment. User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment.
	Caution, avoid listening at high volume levels for long periods
	Disconnection, all power plugs
m	Switch of mini-gap construction
μ	Switch of micro-gap construction (for US version) Switch of micro-gap / micro-disconnection construction (for other versions except US)
ε	Switch without contact gap (Semiconductor switching device)