



User Guide

AX11000 Tri-Band Wi-Fi 6 Gaming Router
Archer AX11000

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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 > Wireless > WDS means the WDS function page is under the Wireless 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	<ul style="list-style-type: none"> Click to edit the corresponding entry. Click to delete the corresponding entry. Click to view more information about items on the page.

*Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput and wireless coverage are not guaranteed and will vary as a result of 1) environmental factors, including building materials, physical objects, and obstacles, 2) network conditions, including local interference, volume and density of traffic, product location, network complexity, and network overhead, and 3) client limitations, including rated performance, location, connection, quality, and client condition.

*Use of MU-MIMO and 1024-QAM requires clients to also support those functions.

*Use of WPA3 requires clients to also support WPA3.

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/>.

Chapter 1

Get to Know About Your Router

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

It contains the following sections:

- [Product Overview](#)
- [Panel Layout](#)

1.1. Product Overview

The TP-Link router is designed to fully meet the need of Small Office/Home Office (SOHO) networks and users demanding higher networking performance. The powerful antennas ensure continuous Wi-Fi signal to all your devices while boosting widespread coverage throughout your home, and the built-in Ethernet ports supply high-speed connection to your wired devices.

The revolutionary OFDMA is introduced to improve average throughput by 4× and cut the latency. Powerful gaming features ensure your gaming stays immersive, and keep your network as fast as your reaction speed

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


1.2. Panel Layout

1.2.1. Top View

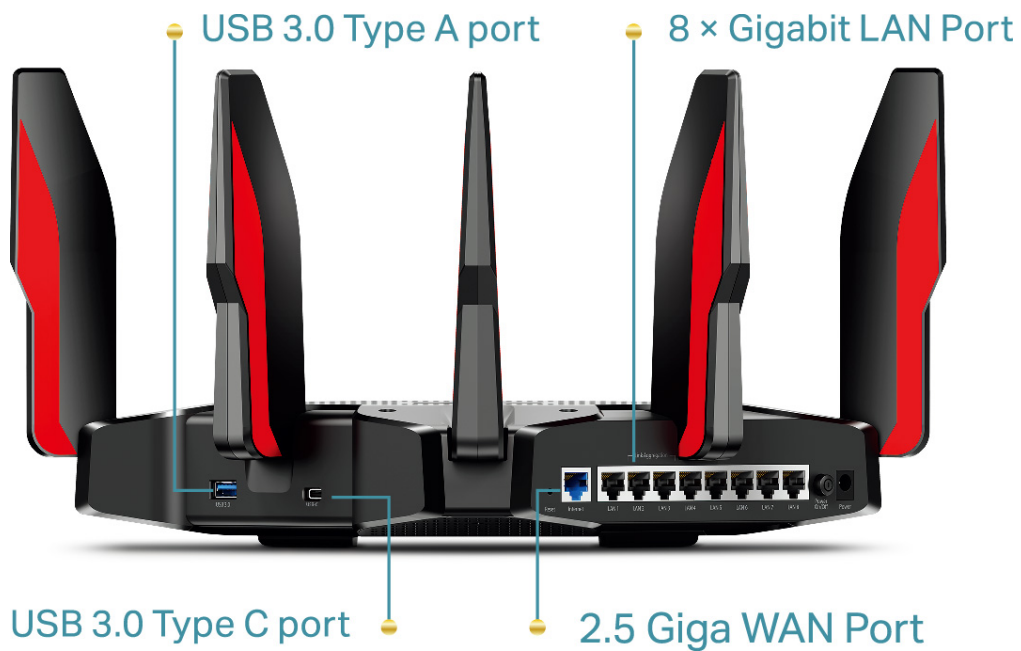


The router's LED is located on the top. You can check the router's working status by following the LED Explanation table.

LED Explanation

Name	Status	Indication
	Pulsing orange	The system is starting up.
	Solid white	The router is working normally.
	Solid red	No internet connection.
	Solid orange	The router is connected to the internet, but the Wi-Fi is off.
	Pulsing white	The firmware is being upgraded, WPS connection is being established or the router is being reset. Do not disconnect or power off your router.
	Off	Power is off or the LED is turned off.

1.2.2. The Side and Back Panel




The following parts (view from left to right) are located on the rear panel.

Item	Description
USB 3.0 Ports (Type A + Type C)	For connecting your USB storage devices to the router.
Reset Button	Use a pin to press and hold this button until the LED blinks to reset the router to its factory default settings.
2.5 Giga WAN Port	For connecting to a DSL/Cable modem, or an Ethernet jack.
Ethernet Ports	For connecting your PC or other wired devices to the router.
Power On/Off Button	Press this button to power on or off the router.
Power Port	For connecting the router to a power socket via the provided power adapter.



Button Description

Name	Description
↻ (WPS Button)	Press this WPS button, and immediately press the WPS button on your client device. The  LED of the router should change from pulsing white to solid on, indicating successful WPS connection.
📶 (Wi-Fi Button)	Press the Wi-Fi button to turn on or off the wireless function of your router.
☀️ (LED Button)	Press the LED button to turn on or off the LEDs of your router.

Chapter 2

Connect the Hardware

This chapter contains the following sections:

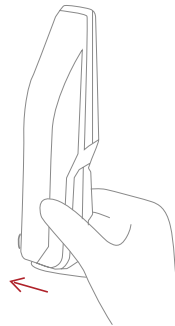
- [Position Your Router](#)
- [Connect Your Router](#)

2.1. Position Your Router

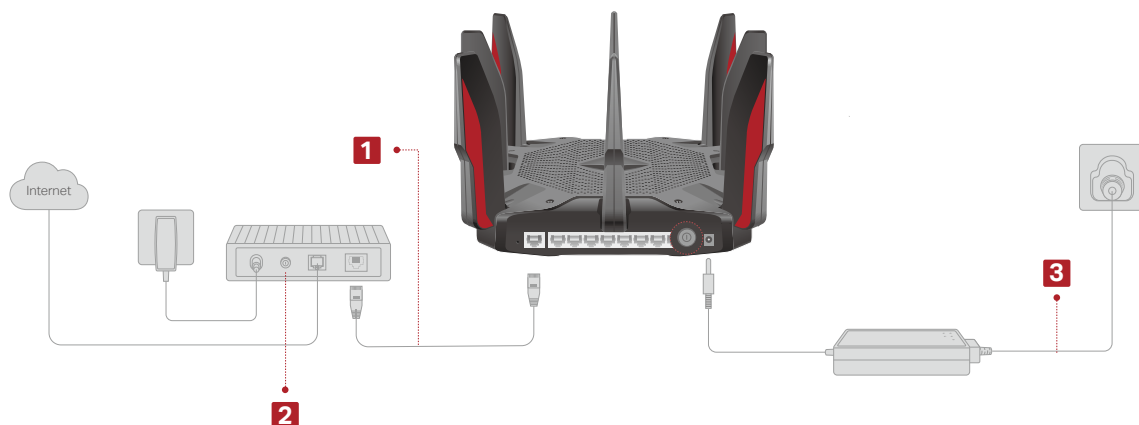
- The router should not be located in a place where it will be exposed to moisture or excessive heat.
- Place the router in a location where it can be connected to multiple devices as well as to a power source.
- Make sure the cables and power cord are safely placed out of the way so they do not create 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.


2.2. Connect Your Router

Before you start, please turn off your modem if any, and remove the backup battery if it has one. And hold the antennas from the base as shown below and install them



If your internet connection is through an Ethernet cable directly from the wall instead of through a DSL / Cable / Satellite modem, connect the Ethernet cable to the router's **2.5 Giga WAN** port, and then follow step 3 to complete the hardware connection.



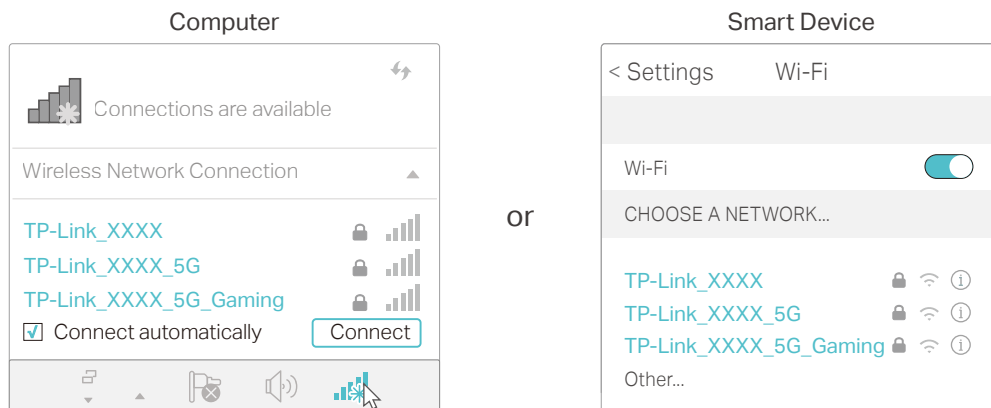
1. Connect the modem to your router's **2.5 Giga WAN** port with an Ethernet cable.
2. Turn on the modem, and then wait about **2 minutes** for it to restart.
3. Connect the power adapter to the router and turn on the router.
4. Verify that the  LED is solid on (red or white) before moving on.
5. Connect your computer to the router.

- **Method 1: Wired**

Turn off the Wi-Fi on your computer and connect your computer to the router with an Ethernet cable.

- **Method 2: Wirelessly**

- 1) Find the SSID (Network Name) 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.




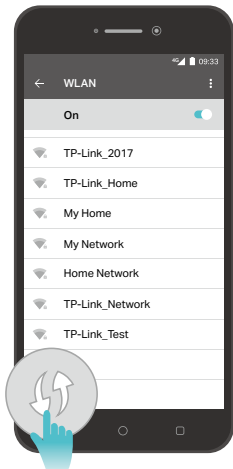
- **Method 3: Use the WPS button**

Wireless devices that support WPS, including Android phones, tablets, and most USB network adapters, can be connected to your router through this method.

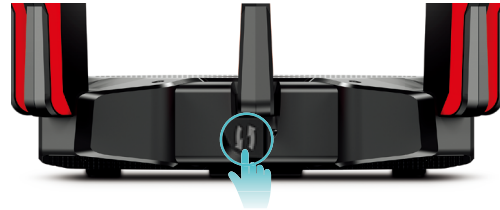
Note:

- WPS is not supported by iOS devices.
- The WPS function cannot be configured if the wireless function of the router is disabled. Also, the WPS function will be disabled if your wireless encryption is WEP. Please make sure the wireless function is enabled and is configured with the appropriate encryption before configuring the WPS.

- 1) Tap the WPS icon on the device's screen. Here we take an Android phone for instance.
- 2) Within two minutes, press the  button on your router.



close to



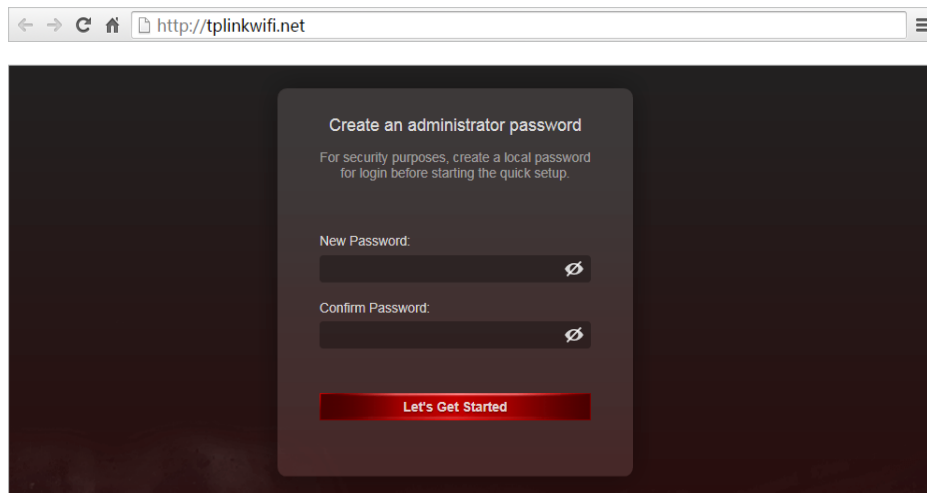
Chapter 3

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.
- If you have registered a TP-Link ID and bound your cloud router to it, the login password you created here will be invalid. Please log in to the cloud router using your TP-Link ID.

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 Bluetooth with TP-Link Tether App](#)
- [Manually Set Up Your Internet Connection](#)
- [Set Up the Router as an Access Point](#)
- [Set Up an IPv6 Internet Connection](#)

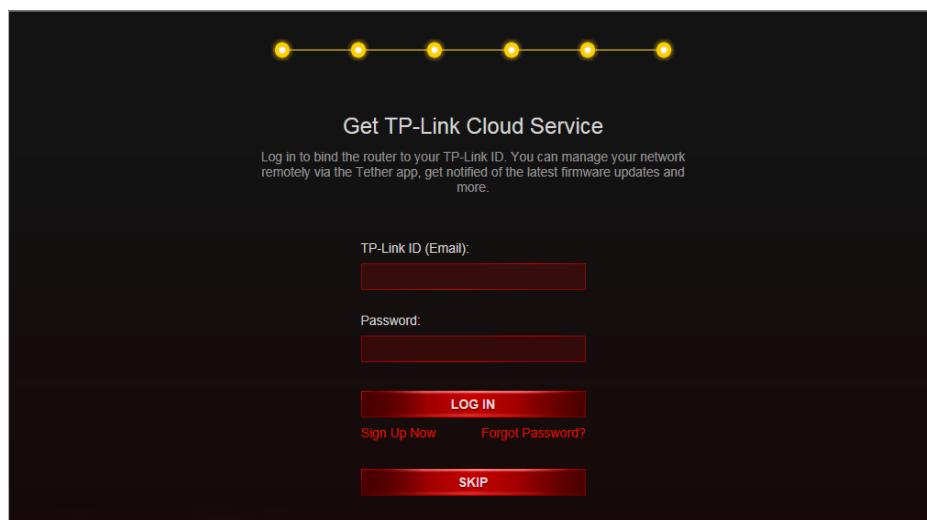
4. 1. Use Quick Setup Wizard

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.
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.

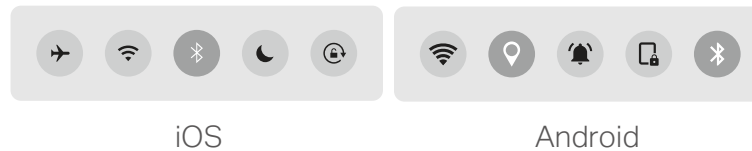
4. 2. Quick Setup via Bluetooth with TP-Link Tether App

TP-Link Tether lets you set up the router via Bluetooth, avoiding the hassle of rejoining the configured wireless network.

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. Enable your phone's Bluetooth (and location for Android).

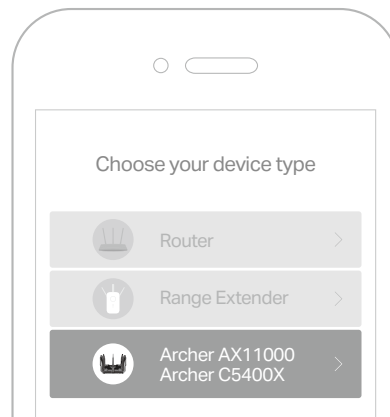


3. Launch the Tether app.

4. Log in with your TP-Link ID.

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

5. Tap the **+** button on the upright corner and then select **TP-Link AX11000** and follow the steps to set up the internet connection.



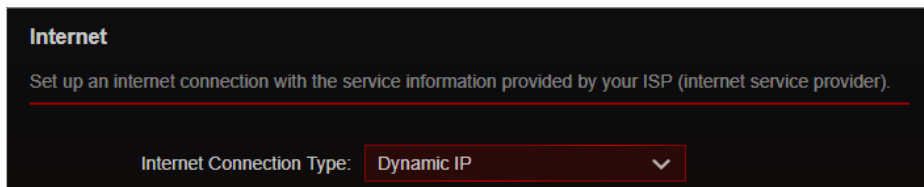
6. Follow app instructions to configure your router and enjoy the internet!

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.



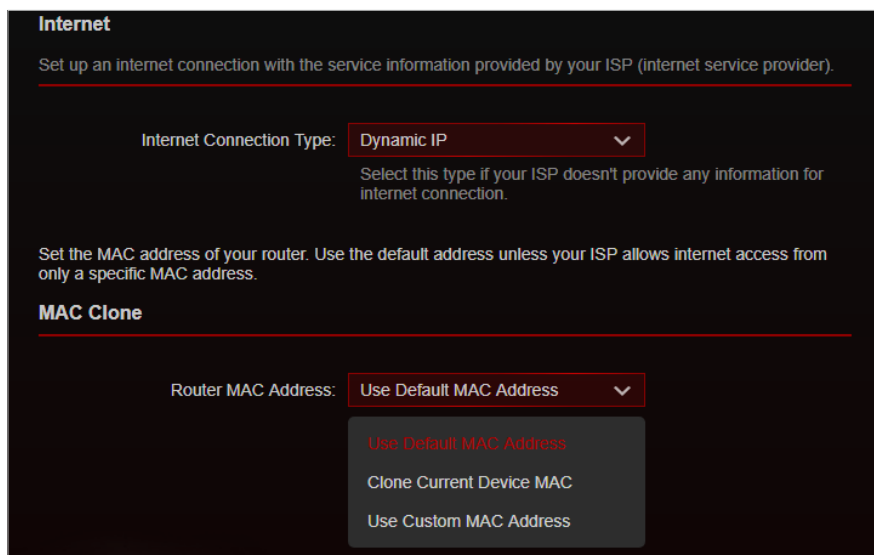
Internet

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

Internet Connection Type:

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:

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

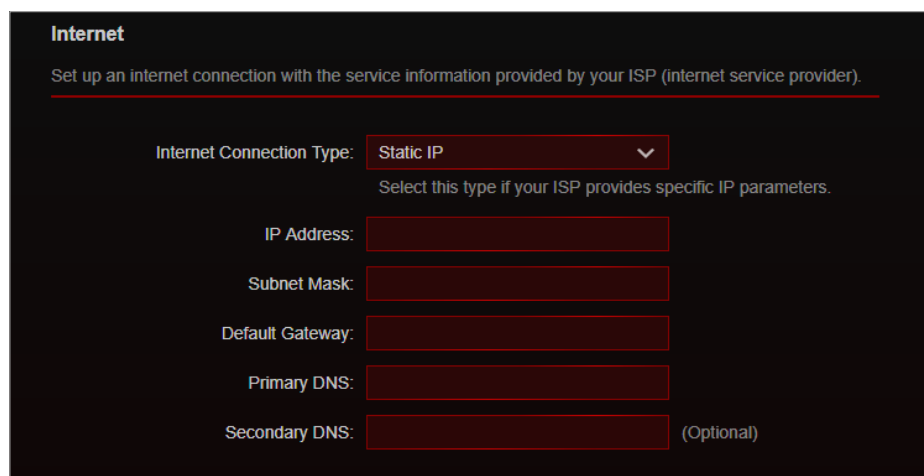
Set the MAC address of your router. Use the default address unless your ISP allows internet access from only a specific MAC address.

MAC Clone

Router MAC Address:

- Use Default MAC Address
- Clone Current Device MAC
- Use Custom MAC Address

- 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:

Select this type if your ISP provides specific IP parameters.

IP Address:

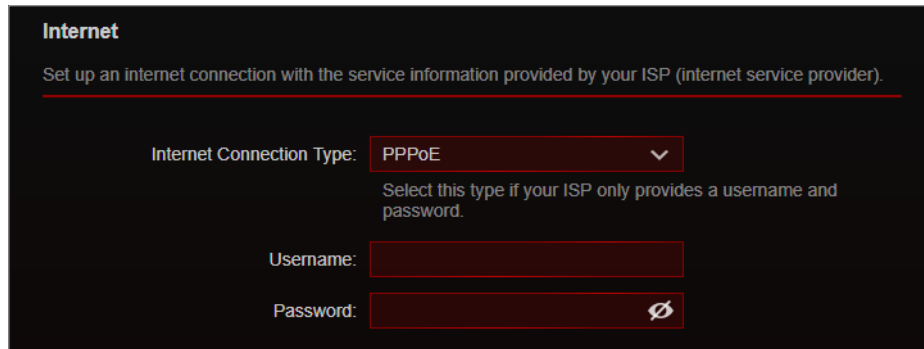
Subnet Mask:

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).

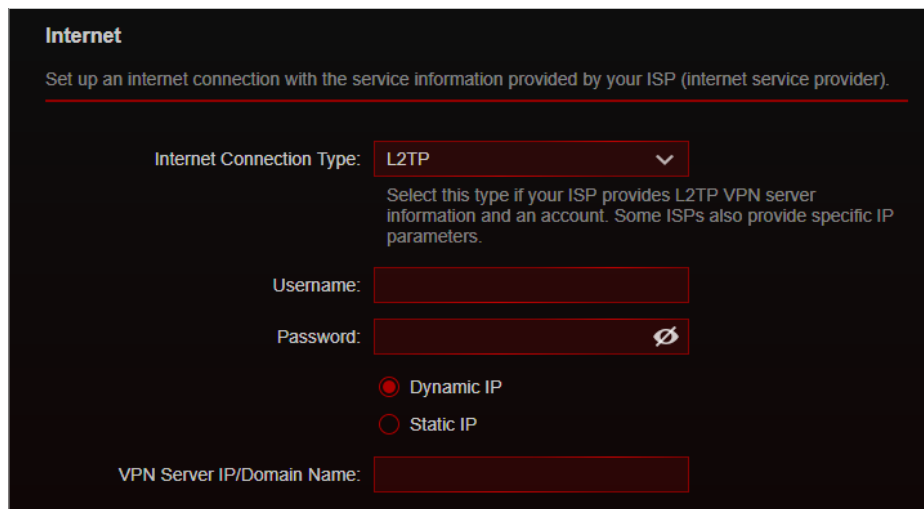
Internet Connection Type: **PPPoE** ▼

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 (Dynamic IP or Static IP) provided by your ISP. Different parameters are needed according to the secondary connection you have chosen.



Internet

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

Internet Connection Type: **L2TP** ▼

Select this type if your ISP provides L2TP VPN server information and an account. Some ISPs also provide specific IP parameters.

Username:

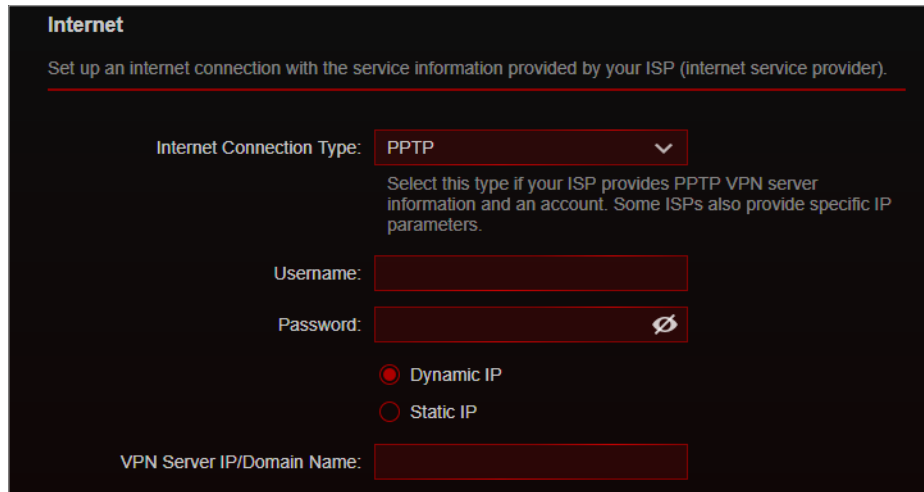
Password:

Dynamic IP

Static IP

VPN Server IP/Domain Name:

- 5) If you choose **PPTP**, enter the **Username** and **Password**, and choose the secondary connection (Dynamic IP or Static IP) provided by your ISP. Different parameters are needed according to the secondary connection you have chosen.



Internet

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

Internet Connection Type: PPTP
Select this type if your ISP provides PPTP VPN server information and an account. Some ISPs also provide specific IP parameters.

Username:

Password:

Dynamic IP
 Static IP

VPN Server IP/Domain Name:

5. Click **SAVE**.

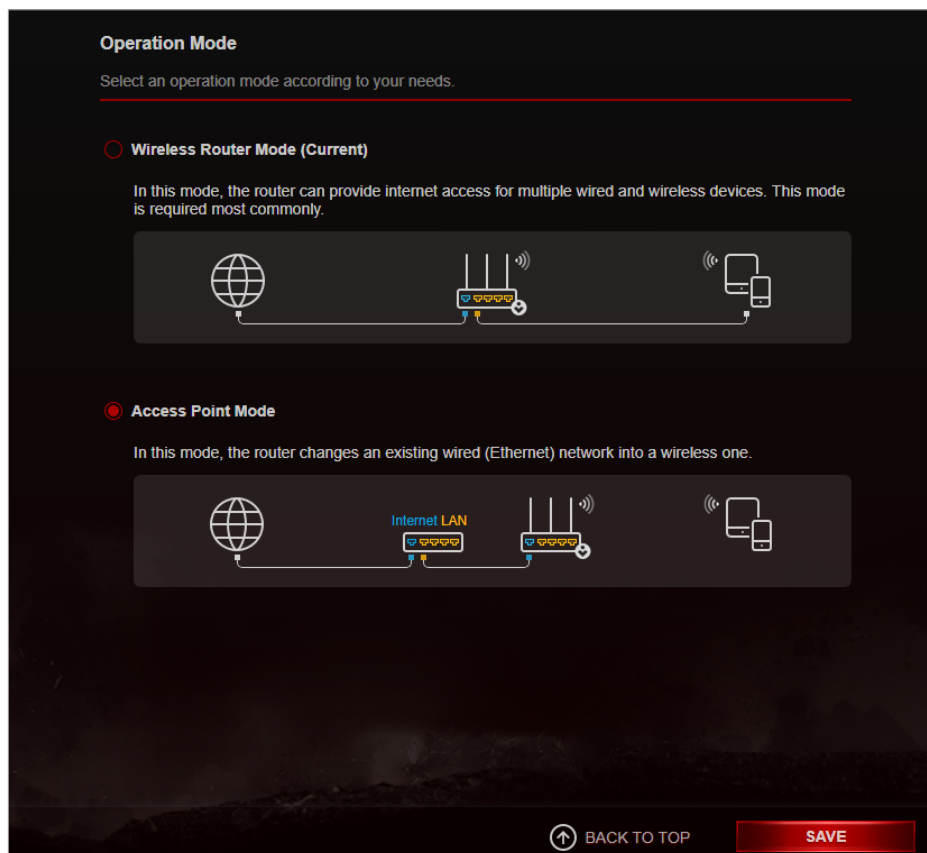
 Tips:

- If your internet connection type is **BigPond Cable**, please go to **Advanced > Network > Internet** to set your router.
- 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. Connect to the Wi-Fi of the router and 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.

4. 5. Set Up an IPv6 Internet Connection

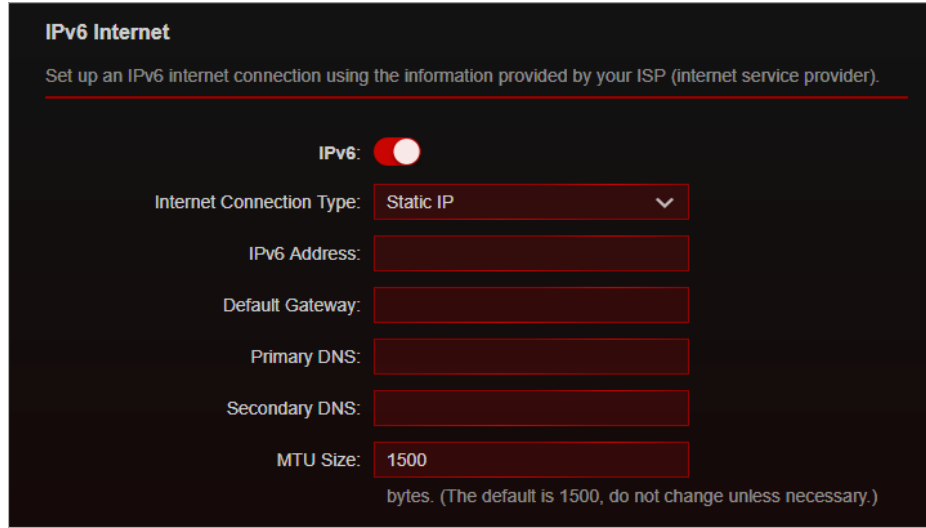
Your ISP provides information about one of the following IPv6 internet connection types: PPPoE, Dynamic IP(SLAAC/DHCPv6), Static IP, 6to4 tunnel, Pass-Through (Bridge).

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. Red blanks must be filled in.

- 1) **Static IP:** Fill in blanks and click **SAVE**.



IPv6 Internet

Set up an IPv6 internet connection using the information provided by your ISP (internet service provider).

IPv6:

Internet Connection Type: Static IP

IPv6 Address:

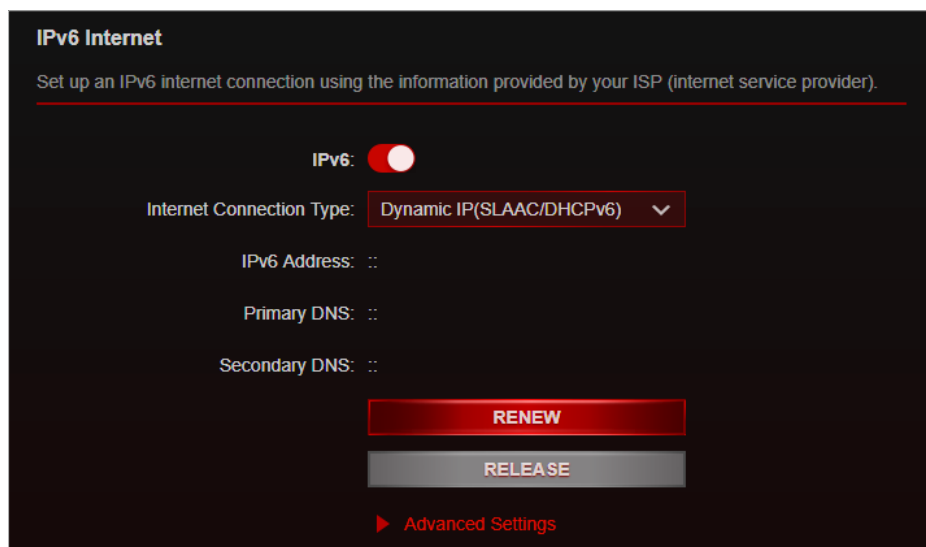
Default Gateway:

Primary DNS:

Secondary DNS:

MTU Size: 1500
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**.



IPv6 Internet

Set up an IPv6 internet connection using the information provided by your ISP (internet service provider).

IPv6:

Internet Connection Type: Dynamic IP(SLAAC/DHCPv6)

IPv6 Address: ::

Primary DNS: ::

Secondary DNS: ::

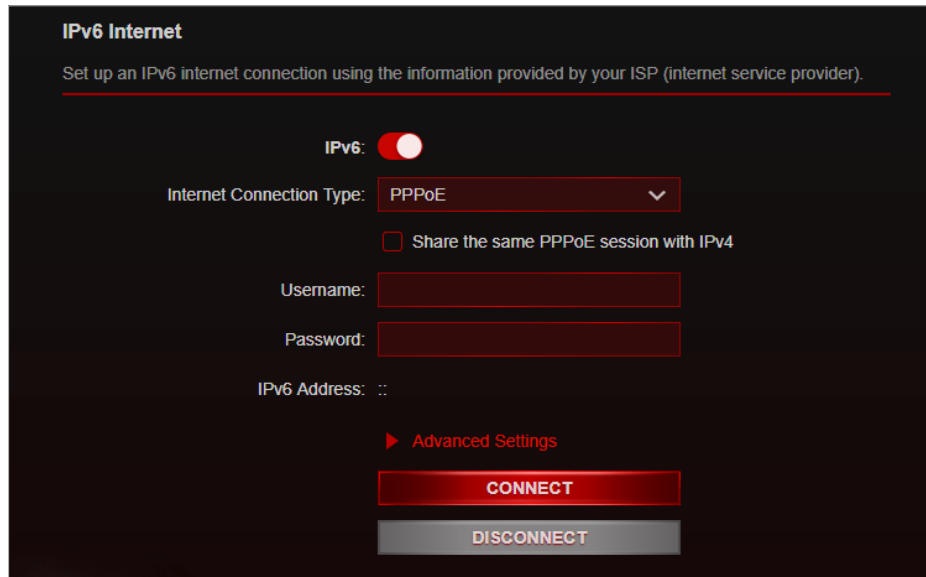
RENEW

RELEASE

▶ **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, please untick the **PPPoE same session with IPv4 connection** checkbox and manually enter the username and password for the IPv6 connection.



IPv6 Internet

Set up an IPv6 internet connection using the information provided by your ISP (internet service provider).

IPv6:

Internet Connection Type: PPPoE

Share the same PPPoE session with IPv4

Username:

Password:

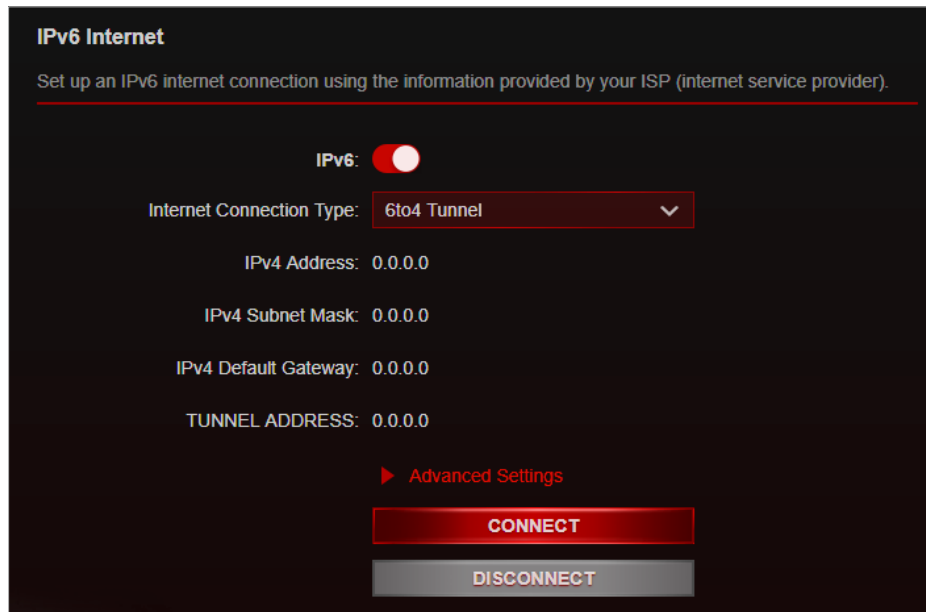
IPv6 Address: ::

[Advanced Settings](#)

CONNECT

DISCONNECT

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



IPv6 Internet

Set up an IPv6 internet connection using the information provided by your ISP (internet service provider).

IPv6:

Internet Connection Type: 6to4 Tunnel

IPv4 Address: 0.0.0.0

IPv4 Subnet Mask: 0.0.0.0

IPv4 Default Gateway: 0.0.0.0

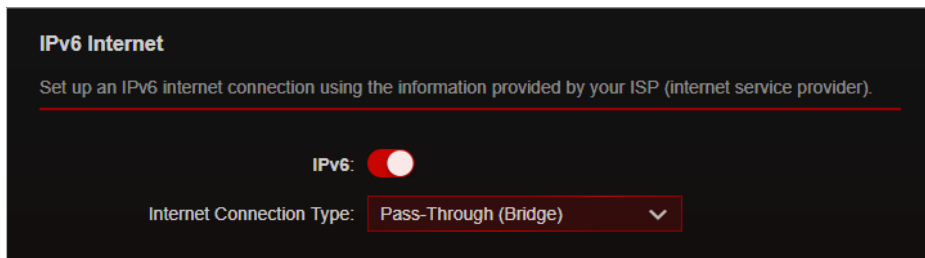
TUNNEL ADDRESS: 0.0.0.0

[Advanced Settings](#)

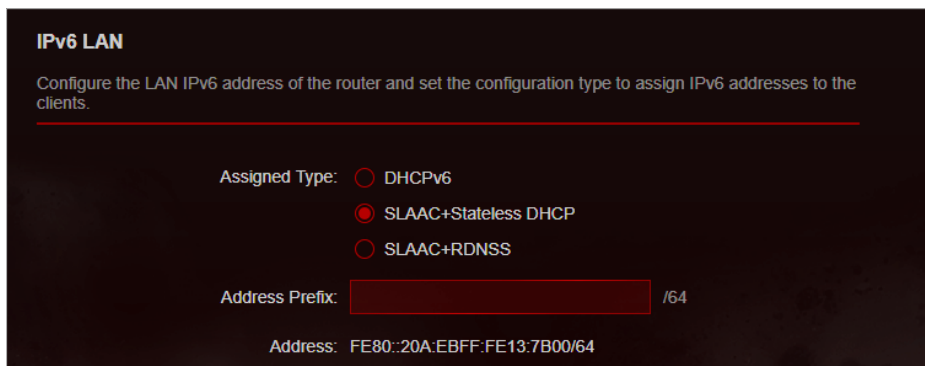
CONNECT

DISCONNECT


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



5. Configure LAN ports. Windows users are recommended to choose from the first two types. Fill in [Address Prefix](#) provided by your ISP, and click [SAVE](#).



6. Click [Status](#) to check whether you have successfully set up an IPv6 connection.

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

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.

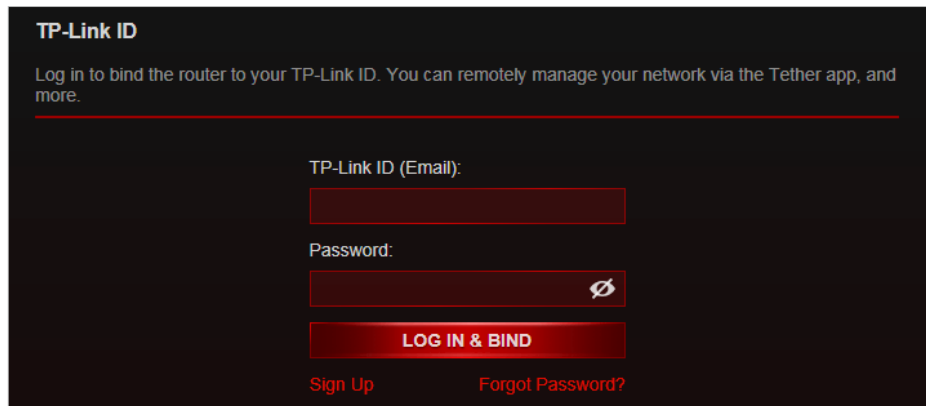
It contains the following sections:

- [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](#).

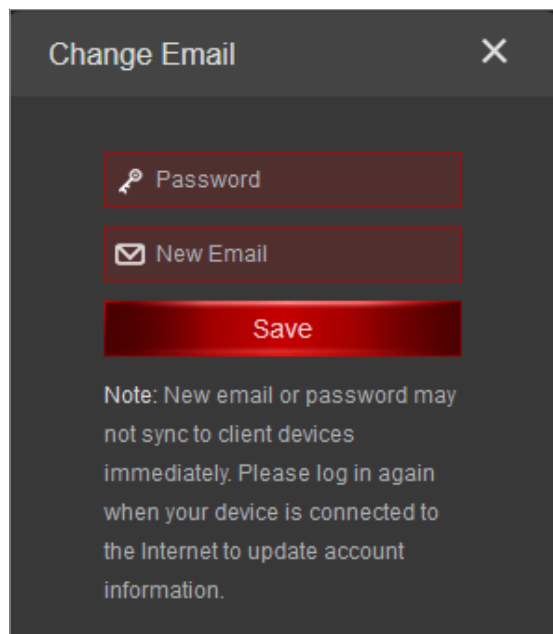
Note:

- To learn more about the [Admin](#) and [User](#) TP-Link ID, refer to [Manage the User TP-Link IDs](#).
- Once the router is bound to your TP-Link ID, you need to log in to the router with the TP-Link ID.
- 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.

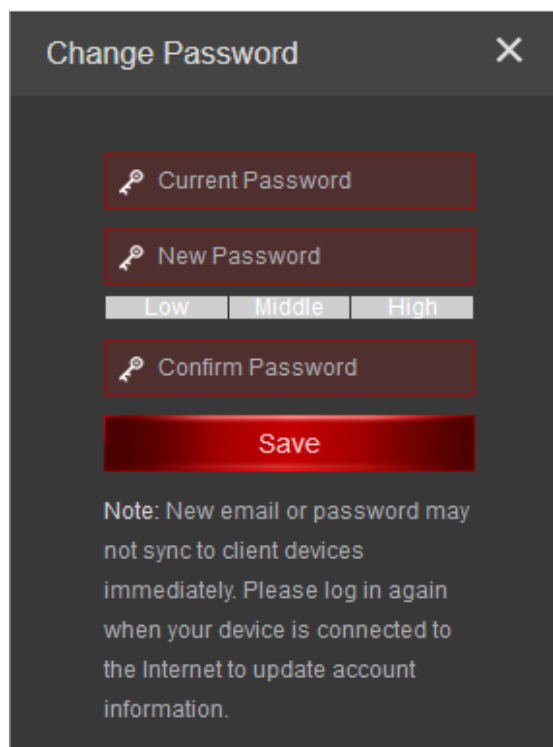
1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID.
2. Go to [Advanced](#) > [TP-Link ID](#), and focus on the [Account Information](#) section.
 - **To change your email address:**
 1. Click  behind the Email.
 2. Enter the password of your TP-Link ID, then a new email address. And click [Save](#).



The image shows a 'Change Email' dialog box with a dark grey background and a white close button (X) in the top right corner. It contains three input fields: 'Password' with a key icon, 'New Email' with an envelope icon, and a red 'Save' button. Below the fields is a note: '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](#).



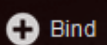
The image shows a 'Change Password' dialog box with a dark grey background and a white close button (X) in the top right corner. It contains three password input fields: 'Current Password', 'New Password', and 'Confirm Password', each with a key icon. Below the 'New Password' field are three strength indicators: 'Low', 'Middle', and 'High'. A red 'Save' button is located below the input fields. Below the fields is a note: '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

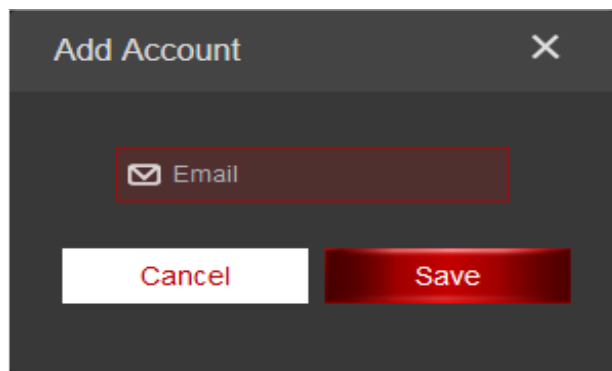
The TP-Link ID used to log in to the router for the first time will be automatically bound as the **Admin** account. An admin account can add or remove other TP-Link IDs to or from the same router as **Users**. All accounts can monitor and manage the router locally or remotely, but user accounts cannot:

- 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.



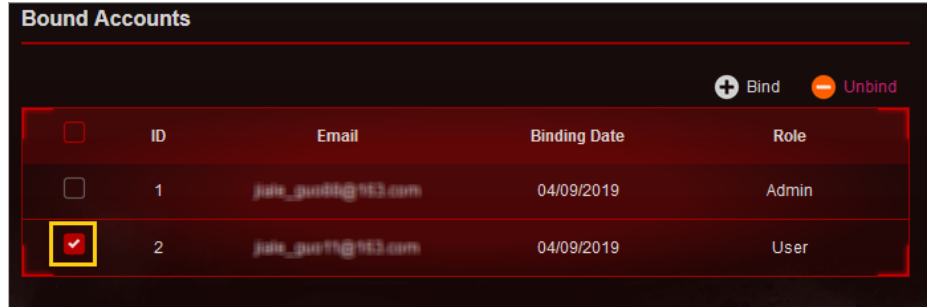
4. The new TP-Link ID will be displayed in the Bound Accounts table as a **User**.

Bound Accounts				
	ID	Email	Binding Date	Role
<input type="checkbox"/>	1	jule_gu01b@163.com	04/09/2019	Admin
<input type="checkbox"/>	2	jule_gu011@163.com	04/09/2019	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](#).



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.

3. Log in with your TP-Link ID.

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

4. Connect your device to the router's wireless network.

5. Select the model of your router and 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

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](#)

6. 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 and locate the [Guest Network](#) section.
3. Create a guest network as needed.
 - 1) Tick the [Enable](#) checkbox for the 2.4GHz/5GHz-1/5GH-2 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.
4. Select a [Security](#) type:

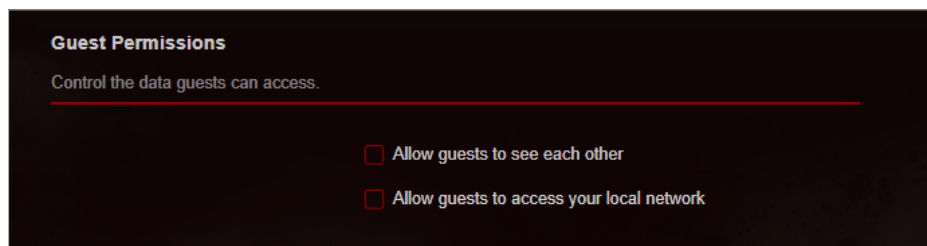
- [No Security](#) - Select this option to disable the wireless security. It is highly recommended that you enable the wireless security to protect your Guest Network from unauthorized access.
 - [WPA/WPA2 Personal](#) - Select this option to enable the standard authentication method. It is recommended that you select this security type for good compatibility with your other devices.
 - [WPA2/WPA3 Personal](#) - Select this option to enjoy strongest protections.
5. Set a password for the guest network.

6. Click **Save**. Now your guests can access your guest network using the SSID and password you set!

 **Tips:** To view guest network information, go to [Network Map](#), click the product picture and locate the [Guest Network](#) section. You can turn on or off the guest network function, or click  **Edit** to transfer to the Guest Network page for more settings.

6.2. 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 my 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 7

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](#)

7.1. 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](#) > [USB Storage Device](#) > [Device Settings](#) and click [Remove](#).

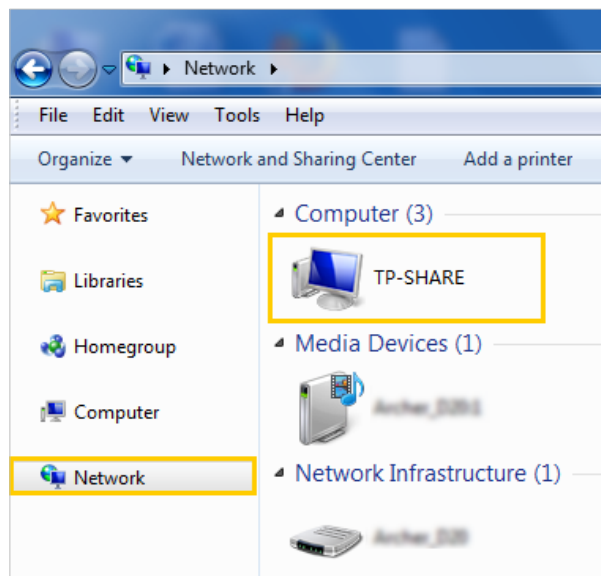
7.1.1. Access the USB Device Locally

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.

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

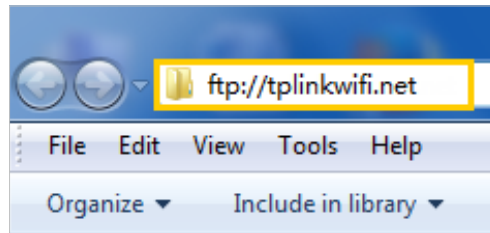
 **Note:** Operations in different systems are similar. Here we take Windows 7 as an example.

Windows
computer



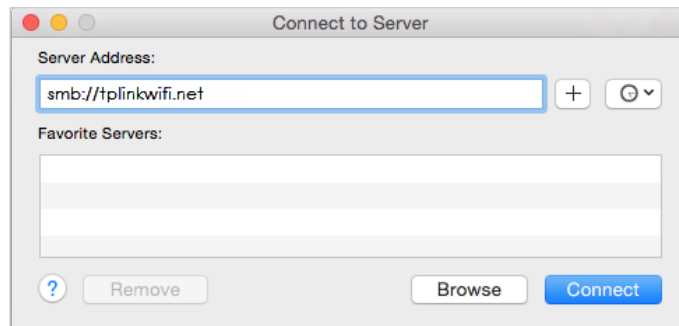
Windows
computer

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 disk by using your Network/Media Server Name as the server address. Refer to [To customize the address of the USB disk](#): to learn more.

7.1.2. 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 > USB Storage Device**.
3. Tick the **Internet FTP** checkbox, and then click **SAVE**.

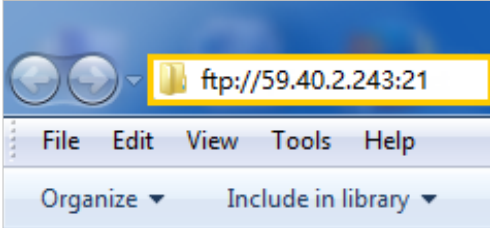
Access Method

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

Network/Media Server Name:

Enable	Access Method	Address	Port
<input checked="" type="checkbox"/>	Samba for Windows	\\TP-Share	---
<input checked="" type="checkbox"/>	Local FTP	ftp://192.168.0.1:21	21
<input checked="" type="checkbox"/>	Internet FTP	ftp://192.168.202.199:21 Set DDNS	<input type="text" value="21"/>

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

Computer	<ol style="list-style-type: none"> 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) <div data-bbox="644 527 1134 753" style="text-align: center;">  </div> <ol style="list-style-type: none"> 3) Press Enter on the keyboard. 4) Access with the username and password you set in To set up authentication for data security. <p><small>🔗 Tips: You can also access the USB disk via a third-party app for network files management, which can resume broken file transfers.</small></p>
	Tablet

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

7.1.3. 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](#) > [USB Storage Device](#).
 - **To customize the address of the USB disk:**

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

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



2. Now you can access the USB disk by visiting `\\MyShare` (for Windows) or `smb://MyShare` (for Mac).


- **To only share specific content:**

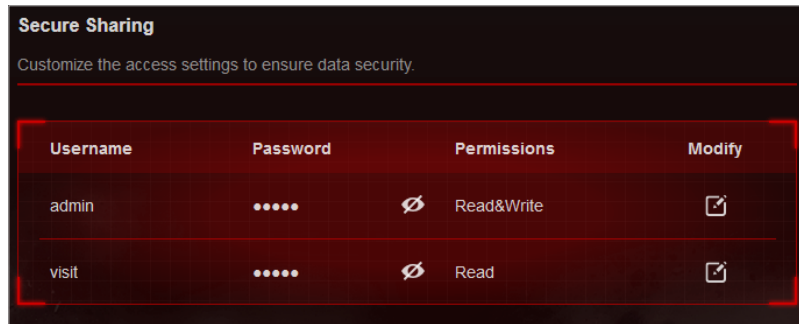
Focus on the [File Sharing](#) section and specify sharing folders and click [SAVE](#).



- **To set up authentication for data security:**

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

In the [File Sharing](#) section, enable [Secure Sharing](#). The default accounts are admin and visit. Click  to customize the username and a password.



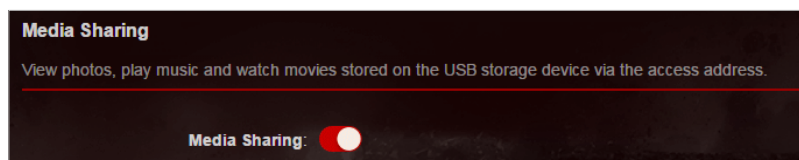
Note: For Windows users, do not set the sharing username the same as the Windows username. Otherwise, Windows credential mechanism may cause the following problems:

- 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 disk.](#)

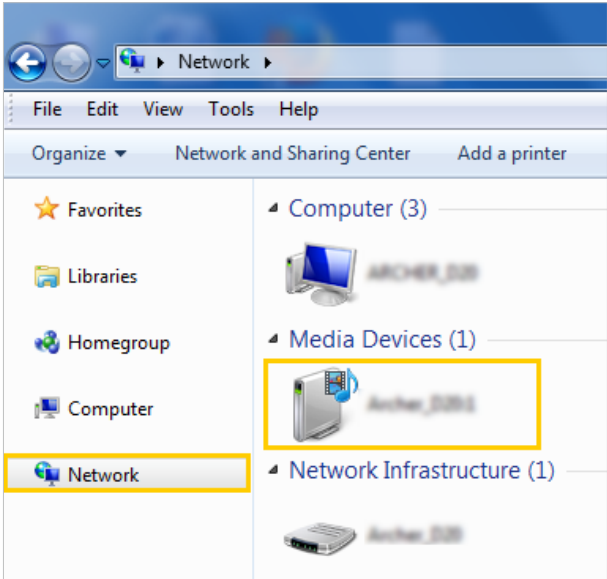
7.2. Media Sharing

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

1. When your USB disk 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 disks.
2. Enable **Media Sharing**.



3. Refer to the following table for detailed instructions.

Windows Computer	<ul style="list-style-type: none"> • Go to Computer > Network, then click the Media Server Name (Model number-share by default) in the Media Devices section. <p>Note: Here we take Windows 7 as an example.</p>  <p>The screenshot shows a Windows 7 File Explorer window titled 'Network'. The address bar shows 'Network'. The left sidebar has 'Network' selected. The main pane shows a tree view with 'Computer (3)', 'Media Devices (1)', and 'Network Infrastructure (1)'. Under 'Media Devices (1)', a device icon is highlighted with a yellow box.</p>
Tablet	<ul style="list-style-type: none"> • Use a third-party DLNA-supported player.

7.3. Time Machine

Time Machine backs up all files on your Mac computer to a USB storage device connected to 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** > **USB** > **Time Machine**.

Time Machine

Back up all files on your Mac to a USB storage device connected to your router.

Time Machine: Enable

Backup Location:

SELECT

Storage Limit for Backups: GB

(Enter "0" for no limit.)

3. Tick the checkbox to enable **Time Machine**.

4. Click **SELECT** to select a location for Time Machine backups.
5. Set the **Storage Limit for Backups**.
■ **Note:** 0 means no limit for the space.
6. Click **SAVE**.

Chapter 8

HomeCare™ – Parental Controls, QoS, Antivirus

TP-Link HomeCare™ powered by Trend Micro™ provides a kit of features to help you create a personalized network that caters for the whole family. You can ensure appropriate internet access for everyone with Parental Controls, save bandwidth for the things that matter with QoS and keep your network secure with built-in Antivirus.

It contains the following sections:

- [Parental Controls](#)
- [QoS](#)
- [Antivirus](#)

8.1. 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.

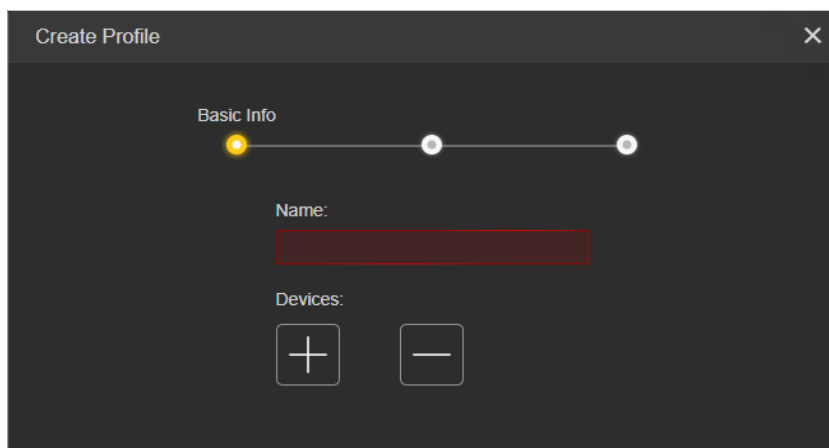
8.1.1. Scenario 1: Setting Up Access Restrictions


I want to:

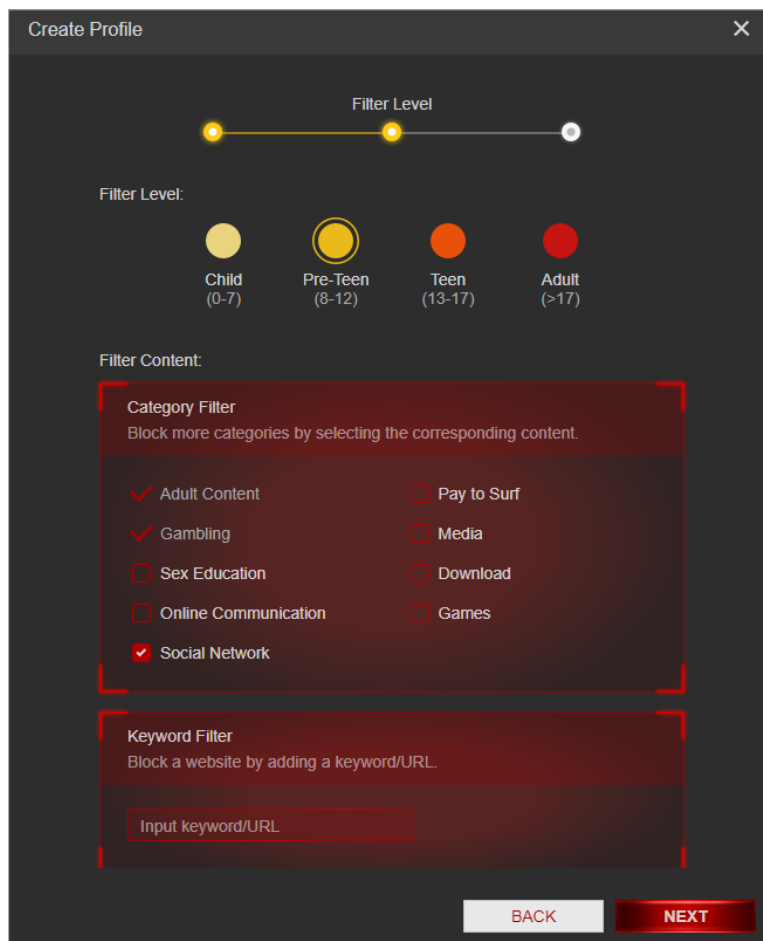
Block access to inappropriate online content for my child's devices, restrict internet access to 2 hours every day and block internet access during bed time (10 PM to 7 AM) on school nights (from Thunday to Thursday).

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](#) > [HomeCare](#) > [Parental Controls](#) or [Game Center](#) > [Game Protector](#) > [Parental Controls](#).
3. Click  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.
- 2) Under [Devices](#), click .
- 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.



- 1) Select a filter level based on the age of the family member this profile belongs to. Blocked content will then be displayed in the [Category Filter](#) list.
 - 2) If needed, you can edit the blocked content by selecting the categories in the [Category Filter](#) list.
 - 3) You can also block a specific website or application using the [Keyword Filter](#). Enter a keyword (for example, "Facebook") or a URL (for example, "www.facebook.com").
 - 4) Click [NEXT](#).
6. Set time restrictions on internet access.

The screenshot shows a 'Create Profile' window with a 'Time Controls' progress indicator at the top. The 'Time Limits' section is active, with 'Mon to Fri' and 'Daily Time Limit' (set to 2 hours) enabled. The 'Bed Time' section is also active, with 'School Nights' enabled and 'Good Night' set to 10:00 PM and 'Good Morning' set to 7:00 AM. 'Weekend' is disabled. 'BACK' and 'SAVE' buttons are at the bottom.

- 1) Enable **Time Limits** on Monday to Friday and Saturday & Sunday then set the allowed online time to 2 hours each day.
- 2) Enable **Bed Time** on School Nights 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.
- 3) Click **SAVE**.

Note: The effective time limits are based on the time of the router. You can go to [Advanced > System > Time & Language](#) to modify the time.

Done!

The amount of time your child spends online is controlled and inappropriate content is blocked on their devices.

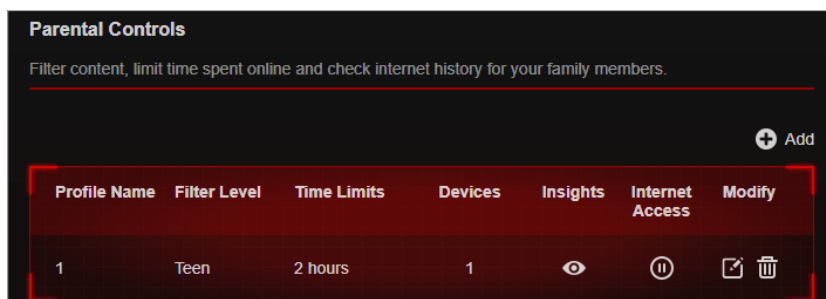
8.1.2. Scenario 2: Monitoring Internet Usage

I want to:

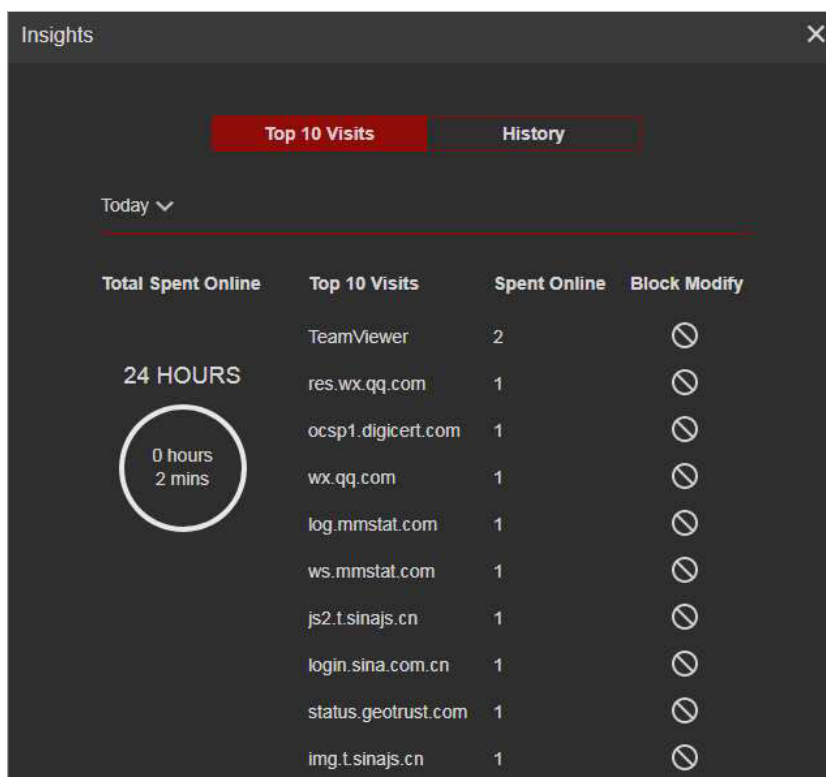
Check which websites my child has visited and how much time they have spent online recently.

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](#) > [HomeCare](#) > [Parental Controls](#) or [Game Center](#) > [Game Protector](#) > [Parental Controls](#).



3. Find the correct profile and click in the [Insights](#) column.
Note: If you have not set up a profile for your child yet, you should do that first by clicking [Add](#), then follow the steps to create a profile. Refer to [Scenario 1: Setting Up Access Restrictions](#) for detailed instructions.
4. Use the drop-down menu to view the websites visited and time spent online for any of the last 7 days. Click [History](#) to view a complete history.



Tips: Click to block the corresponding content for this profile.

Done!

You can now check up on your child's online activities.


8.2. QoS

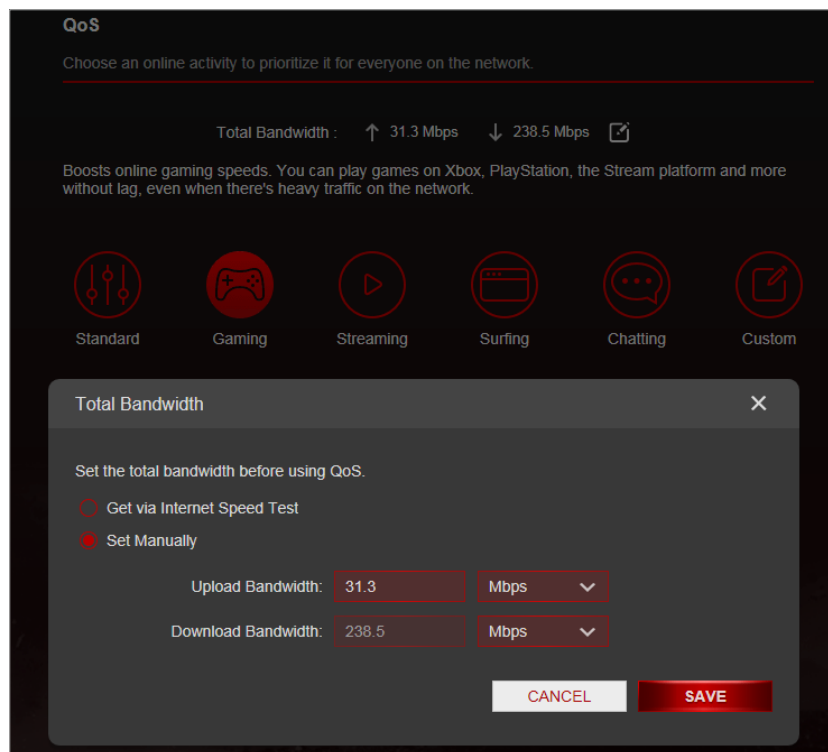
QoS (Quality of Service) allows you to prioritize the internet traffic of specific online activities, such as gaming or streaming. Activities set as high priority will be allocated more bandwidth and so continue to run smoothly even when there is heavy traffic on the network. You can also prioritize the connection of specific devices for a set duration.

I want to:

Ensure a fast connection while I play online games with friends on my computer for the next 2 hours.

How can I do that

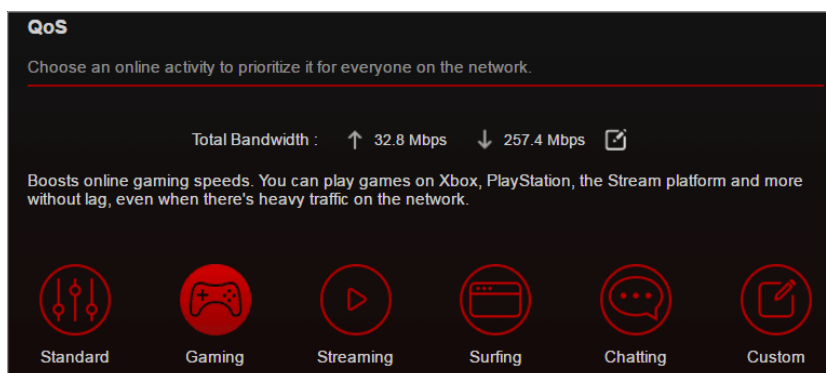
1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Advanced](#) > [HomeCare](#) > [QoS](#).
3. If you already run a Speedtest® and get the bandwidth value, just skip to step 4. If not, click the edit button  to set the total bandwidth. You can choose to run a Speedtest® to get the value or manually enter the bandwidth provided by your internet service provider.



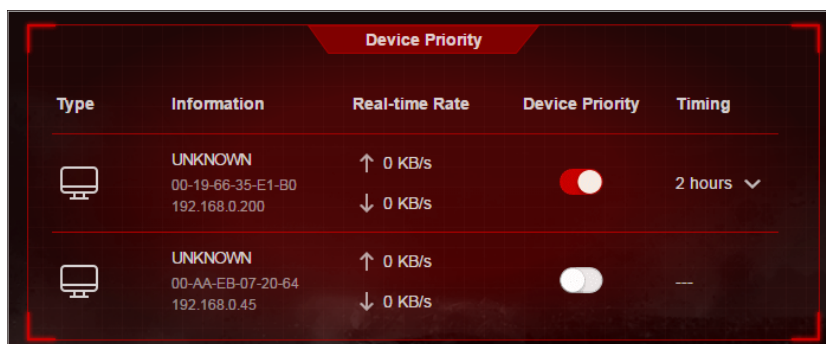
4. It's recommended to keep the Speedtest® result, but if you think the QoS rule you set does not achieve the expected result, you can manually set the upload

and download bandwidth to be a little bit lower than the value measured through Speedtest®.

- Click **Gaming** to prioritize this online activity. The default is **Standard**, with no application prioritized.



- Go to **Game Center > Dashboard** and locate the **Device Priority** section. Find your computer and toggle on **Device Priority**. Click the entry in the **Timing** column and select 2 hours as the duration you want the device to be prioritized for.



Done!

You can now enjoy playing games without lag on your computer for the next 2 hours.

8.3. Antivirus

Your router supports built-in Antivirus powered by Trend Micro™. It provides malicious content filtering and intrusion prevention for your home network, as well as a quarantine for infected devices. An active database protects every connected device from external threats.

Antivirus includes the following protection:

- Malicious Content Filter

Blocks malicious websites listed in Micro Trend's database. The database is automatically updated so new malicious websites are blocked when they go live.

- **Intrusion Prevention System**

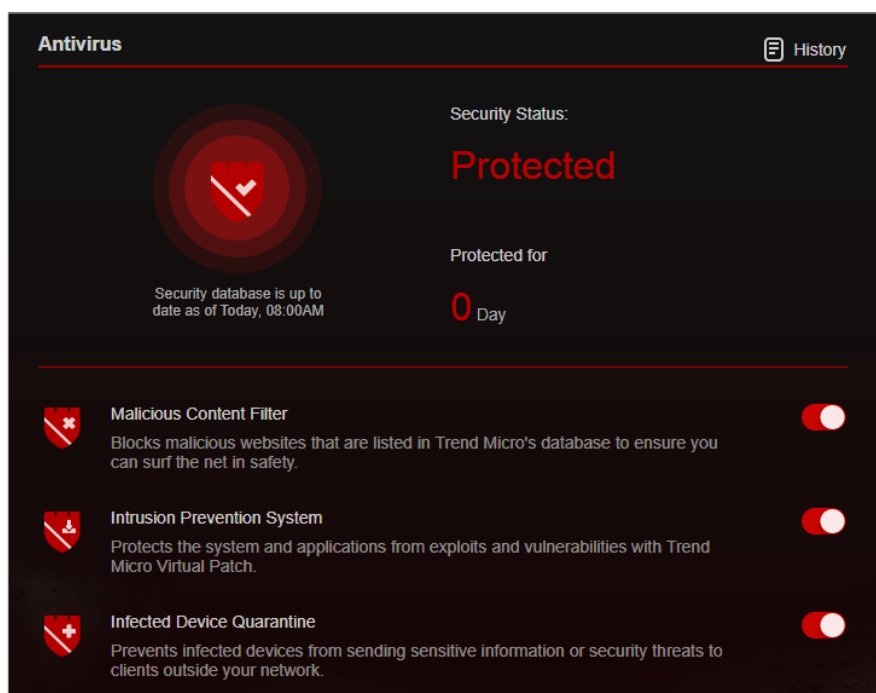
Identifies and blocks potential threats from attackers and fixes vulnerabilities in the network.

- **Infected Device Quarantine**

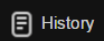
Prevents infected devices from sending your sensitive information to clients outside your network or spreading security threats.

- **To access your router's Antivirus 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](#) > [HomeCare](#) > [Antivirus](#) or [Game Center](#) > [Game Protector](#) > [Antivirus](#).



3. Choose the protection types you want to enable. It is recommended to keep them all enabled to ensure the best protection for your network.

4. Click  to view threats that have been detected and resolved.

Chapter 9

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 against DoS (Denial of Service) attacks from flooding your network with server requests using DoS Protection, block or allow specific client devices to access your network using Access Control, or you can prevent ARP spoofing and ARP attacks using IP & MAC Binding.

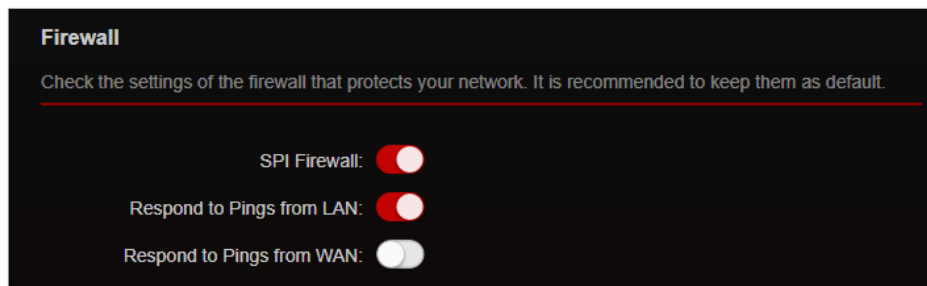
It contains the following sections:

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

9.1. 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.



9.2. 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 (Blacklist) or a list of allowed devices (Whitelist).

I want to:

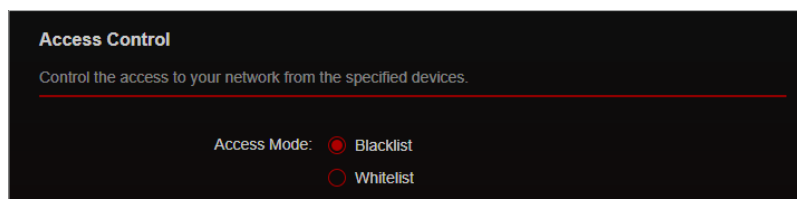
Block or allow specific client devices to access my network (via wired or wireless).

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. Select the access mode to either block (recommended) or allow the device(s) in the list.

To block specific device(s):

- 1) Select [Blacklist](#).

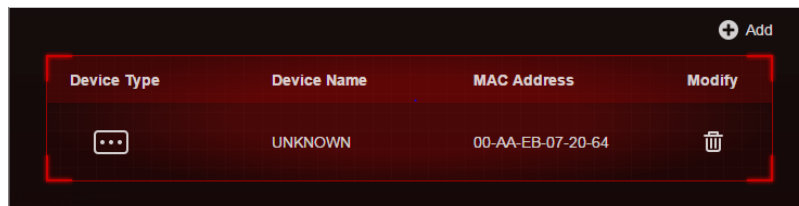


2) Click .



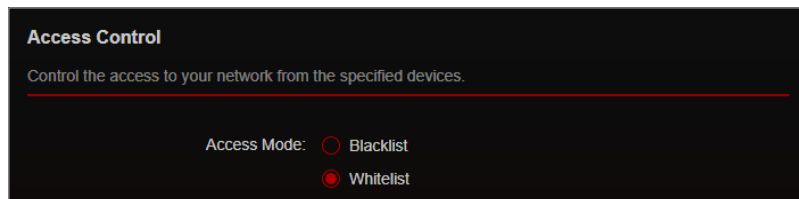
3) Select devices you want to be blocked and Click [ADD](#).


4) The [Operation Succeeded](#) message will appear on the screen, which means the selected devices have been successfully added to the blacklist.

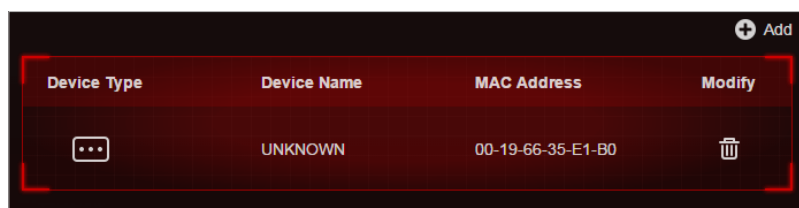


To allow specific device(s):

1) Select [Whitelist](#) and click [SAVE](#) in the lower page.



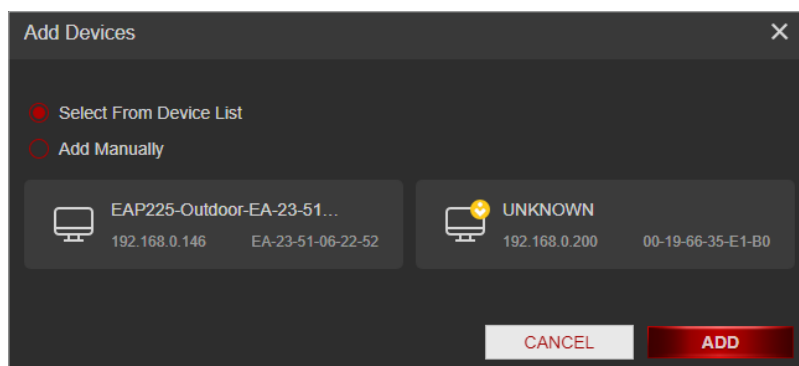
2) Your own device is in the whitelist by default and cannot be deleted. Click  to add other devices to the whitelist.



- **Add connected devices**

1) Click [Select From Device List](#).

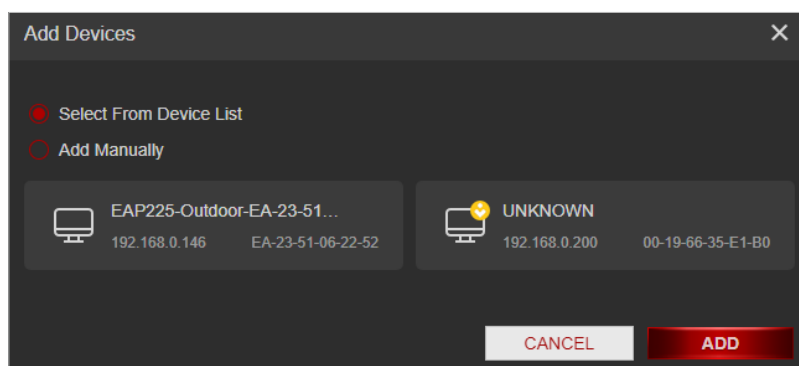
2) Select the devices you want to be allowed and click [ADD](#).



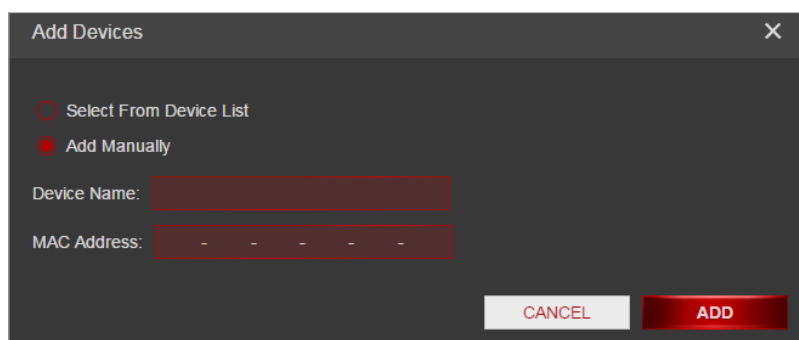
3) The **Operation Succeeded** message will appear on the screen, which means the selected devices have been successfully added to the whitelist.

- **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 whitelist.

Done!

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

9.3. IP & MAC Binding

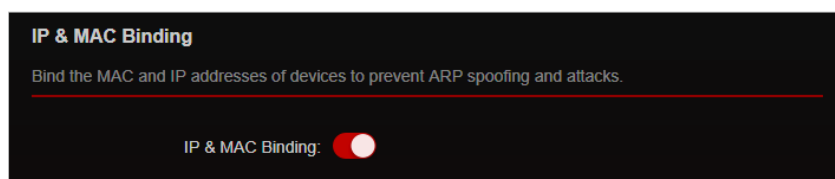
IP & MAC Binding, namely, ARP (Address Resolution Protocol) Binding, is used to bind network device's IP address to its MAC address. This will prevent ARP Spoofing and other ARP attacks by denying network access to an device with matching IP address in the Binding list, but unrecognized MAC address.

I want to:

Prevent ARP spoofing and ARP attacks.

How can I do that?

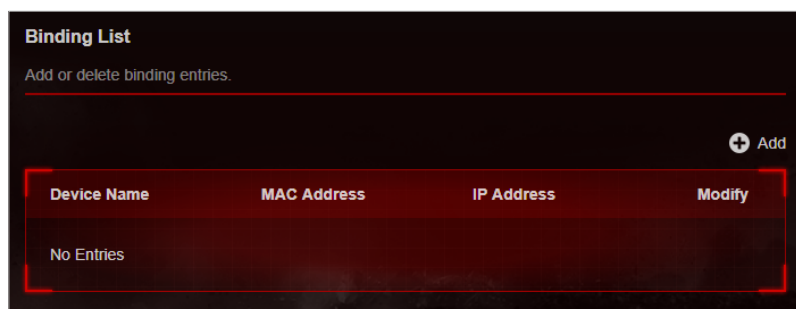
1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Advanced](#) > [Security](#) > [IP & MAC Binding](#).
3. Enable [IP & MAC Binding](#).



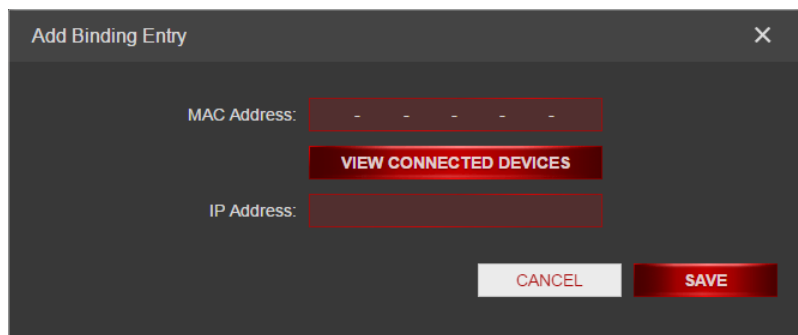
4. Bind your device(s) according to your need.

To bind the connected device(s):

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



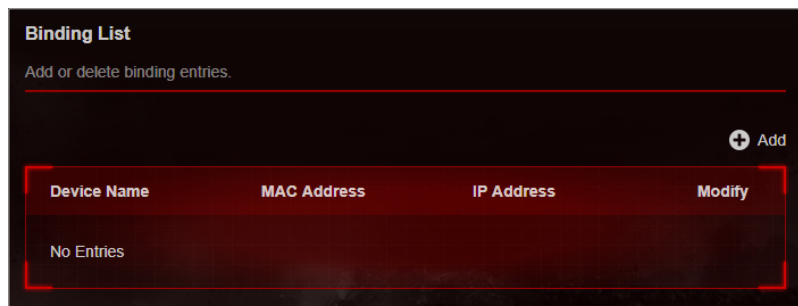
- 2) Click [VIEW CONNECTED DEVICES](#) and select the device you want to bind. The [MAC Address](#) and [IP Address](#) fields will be automatically filled in.



3) Click [SAVE](#).

To bind the unconnected device:

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



Device Name	MAC Address	IP Address	Modify
No Entries			

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!

Chapter 10

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](#)

10.1. Share Local Resources on the Internet by Port Forwarding

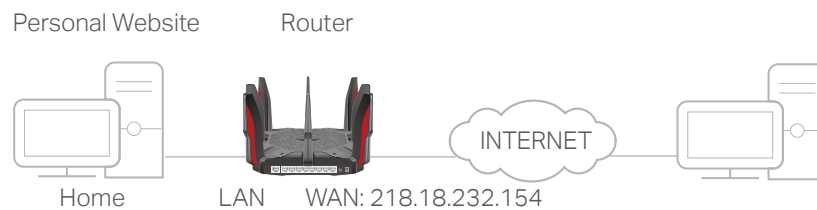
When you build up a server on the local network and want to share it on the internet, Port Forwarding can realize the service and provide it to internet users. At the same time Port Forwarding can keep the local network safe as other services are still invisible from the internet.

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:

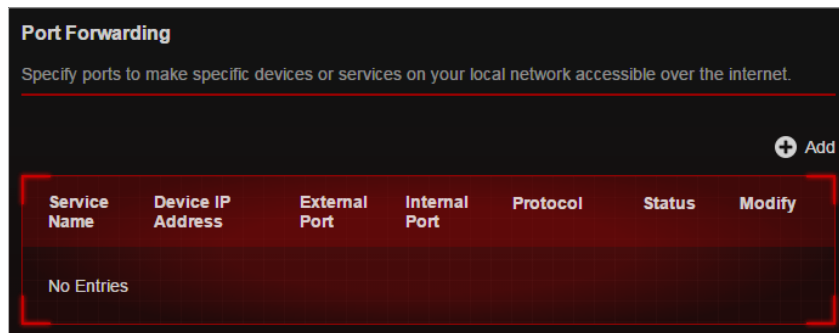
Share my personal website I've built in local network with my friends through the internet.

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.



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** or **Game Center** > **Port Forwarding**.
4. Click  **Add**.



5. Click **VIEW COMMON SERVICES** and select **HTTP**. The **External Port**, **Internal Port** and **Protocol** will be automatically filled in.
6. 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.
7. Click **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](http://WAN IP) (in this example: [http:// 218.18.232.154](http://218.18.232.154)) to visit your personal website.


Tips:

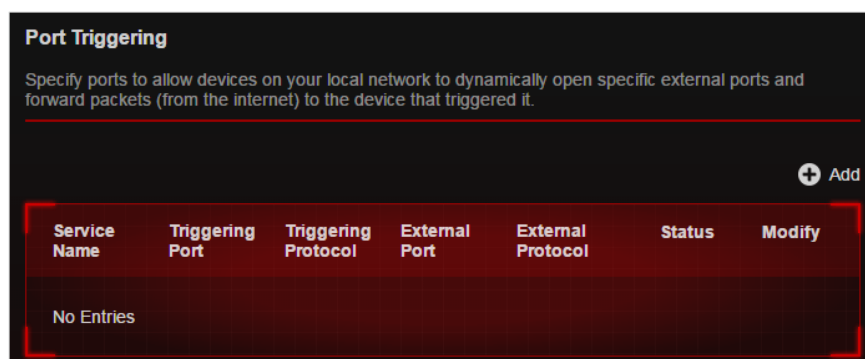
- The WAN IP should be a public IP address. For the WAN IP is assigned dynamically by the ISP, it is recommended to apply and register a domain name for the WAN referring to [Set Up a Dynamic DNS Service Account](#). Then users on the internet can use [http:// domain name](http://domain name) to visit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

10.2. 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:

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 > Port Triggering** and click .



3. 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.

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.

10.3. 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.

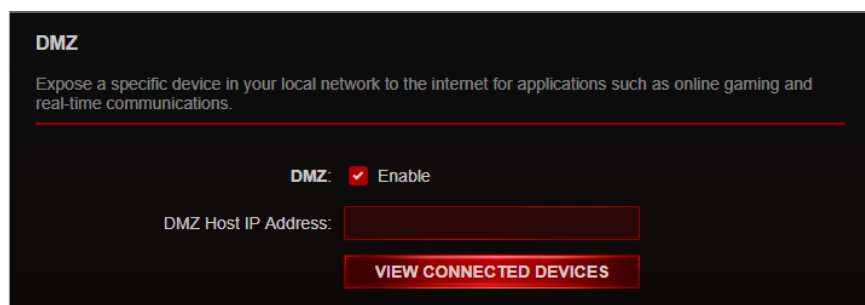
I want to:

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 login 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 select **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.

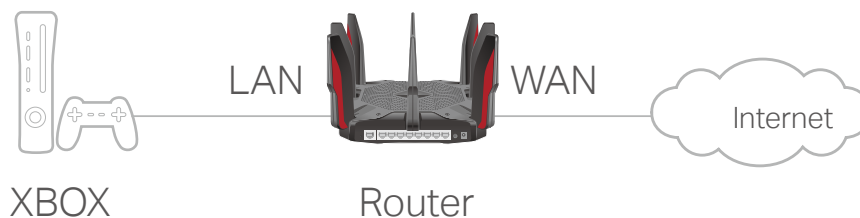
10.4. Make Xbox Online Games Run Smoothly by UPnP

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.



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.

UPnP

Enable UPnP (Universal Plug and Play) to allow devices on your local network to dynamically open ports for applications such as multiplayer gaming and real-time communications.

UPnP:

UPnP Client List

Displays the UPnP device information.

Total Clients: 0 Refresh

Service Description	External Port	Protocol	Client IP Address	Internal Port
No Entries				

Chapter 11

VPN Server

The VPN (Virtual Private Networking) Server allows you to access your home network in a secured way through internet when you are out of home. The router offers two ways to setup VPN connection: OpenVPN and PPTP (Point to Point Tunneling Protocol) VPN.

OpenVPN is somewhat complex but with greater security and more stable. It is suitable for restricted environment, such as campus network and company intranet.

PPTP VPN is more easily used and its speed is faster, it's compatible with most operating systems and also supports mobile devices. Its security is poor and your packets may be cracked easily, and PPTP VPN connection may be prevented by some ISP.

It contains the following sections, please choose the appropriate VPN server connection type as needed.

- [Use OpenVPN to Access Your Home Network](#)
- [Use PPTP VPN to Access Your Home Network](#)

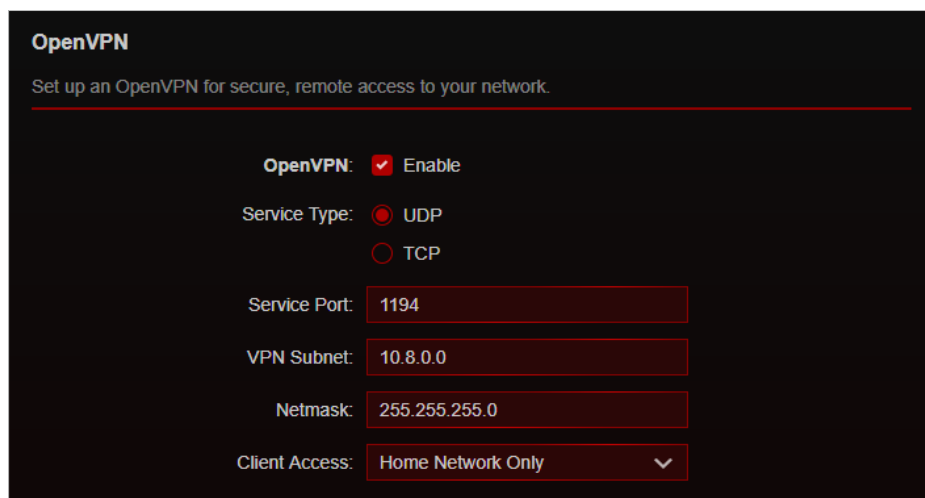
11.1. Use OpenVPN to Access Your Home Network

In the OpenVPN connection, the home network can act as a server, and the remote device can access the server through the router which acts as an OpenVPN Server gateway. To use the VPN feature, you should enable OpenVPN Server on your router, and install and run VPN client software on the remote device. Please follow the steps below to set up an OpenVPN connection.



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** or **Game Center > VPN Server > OpenVPN**, and tick the **Enable** box of **VPN Server**.

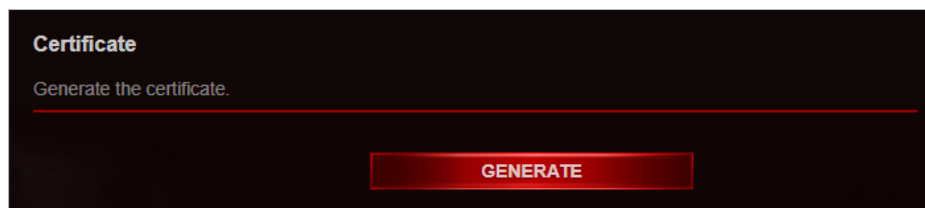


Note:

- 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.

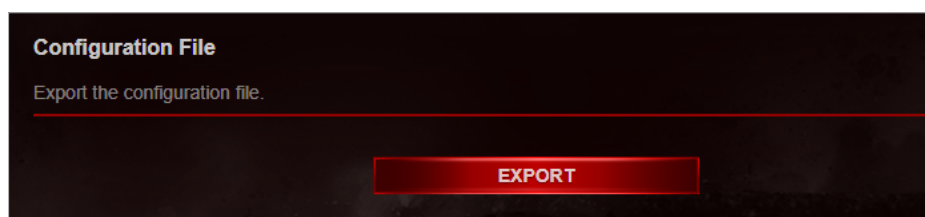
3. Select the **Service Type** (communication protocol) for OpenVPN Server: UDP, TCP.
4. Enter a VPN **Service Port** to which a VPN device connects, and the port number should be between 1024 and 65535.
5. In the **VPN Subnet/Netmask** fields, enter the range of IP addresses that can be leased to the 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.

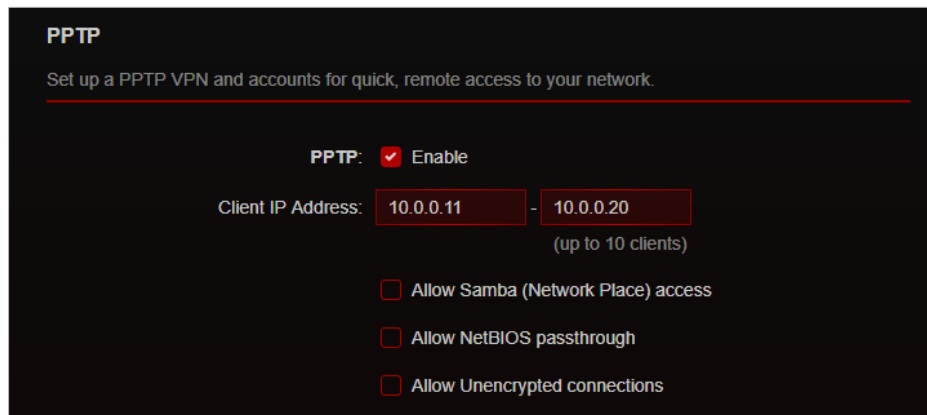
2. After the installation, copy the file exported from your router to the OpenVPN client utility's "config" folder (for example, **C:\Program Files\OpenVPN\config** on Windows). The path depends on where the OpenVPN client utility is installed.
3. Run the OpenVPN client utility and connect it to OpenVPN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

11.2. Use PPTP VPN to Access Your Home Network

PPTP VPN Server is used to create a VPN connection for remote device. To use the VPN feature, you should enable PPTP VPN Server on your router, and configure the PPTP connection on the remote device. Please follow the steps below to set up a PPTP VPN connection.

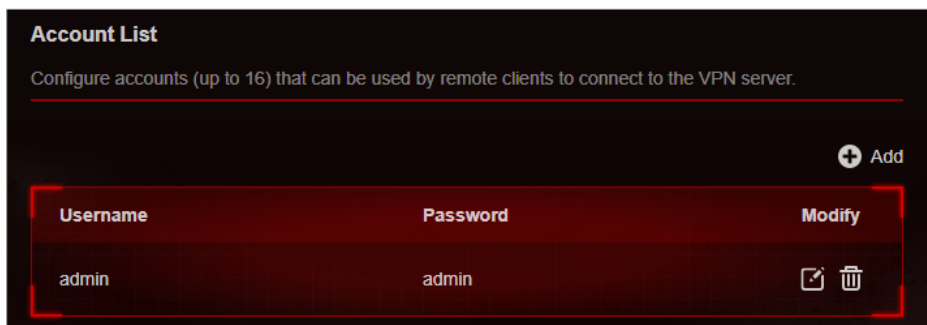
Step 1. Set up PPTP VPN Server on Your Router

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](#) or [Game Center](#) > [VPN Server](#) > [PPTP](#), and tick the [Enable](#) box of [PPTP](#).



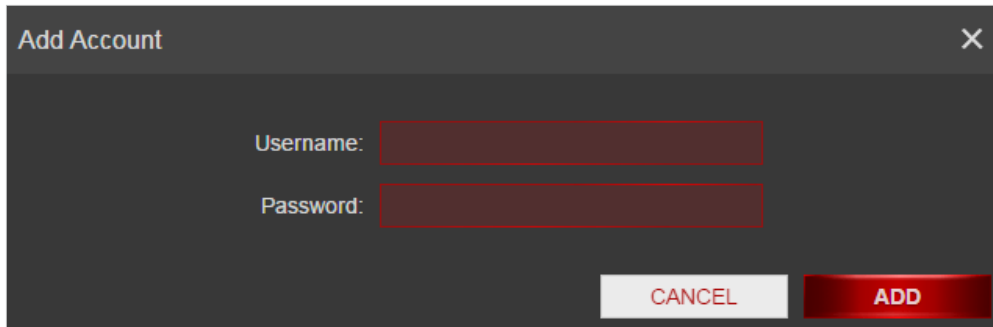
Note: Before you enable [VPN Server](#), we recommend you configure Dynamic DNS Service (recommended) or assign a static IP address for router's WAN port and synchronize your [System Time](#) with internet.

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 .

- 2) Enter the **Username** and **Password** to authenticate devices to the PPTP VPN Server.

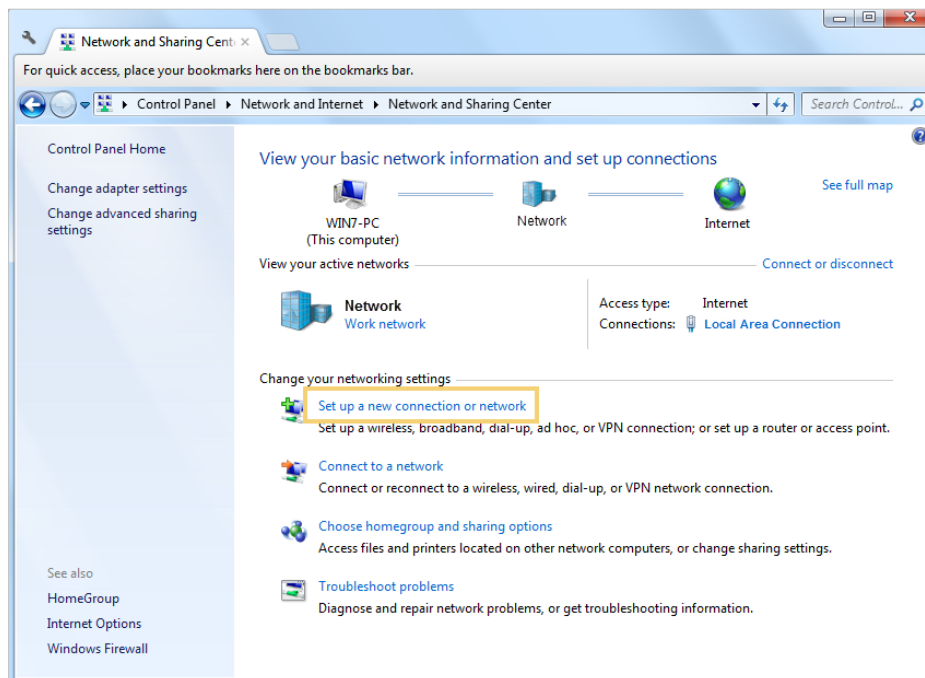


- 3) Click **ADD**.

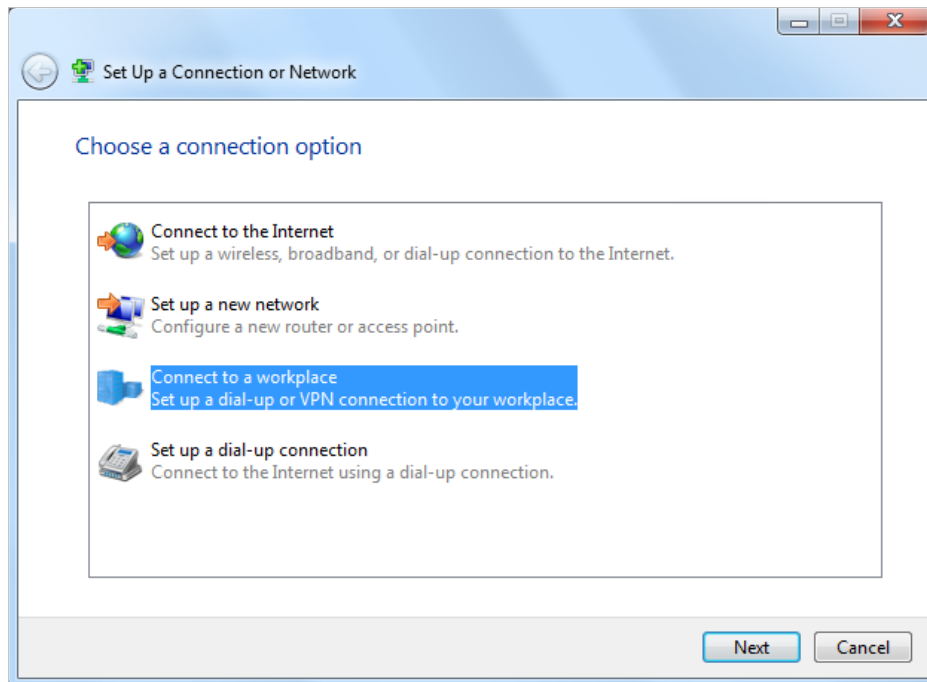
Step 2. Configure PPTP VPN Connection on Your Remote Device

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.

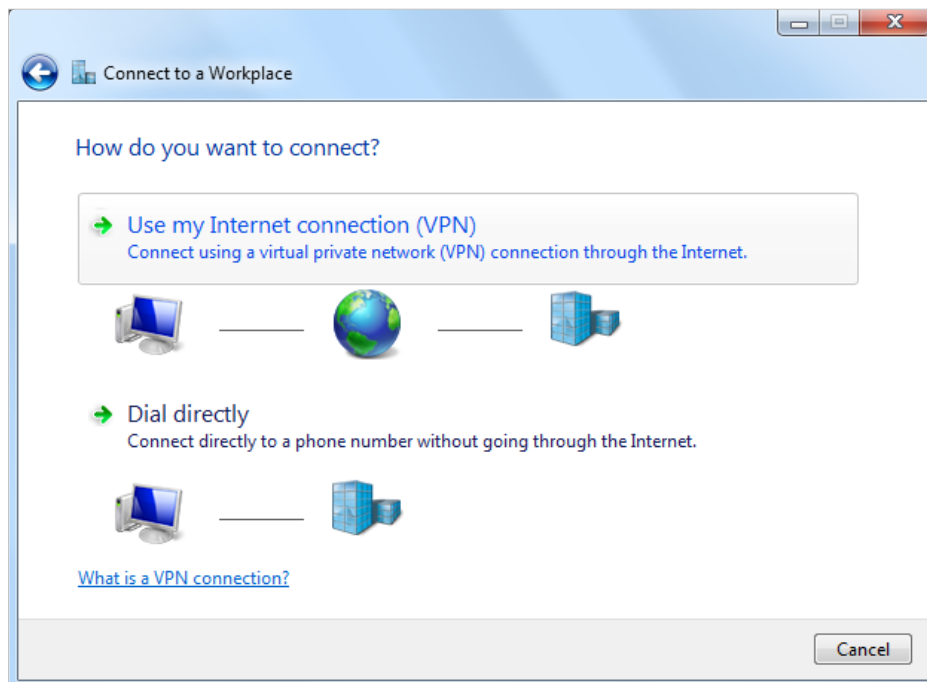
1. Go to **Start > Control Panel > Network and Internet > Network and Sharing Center**.
2. Select **Set up a new connection or network**.



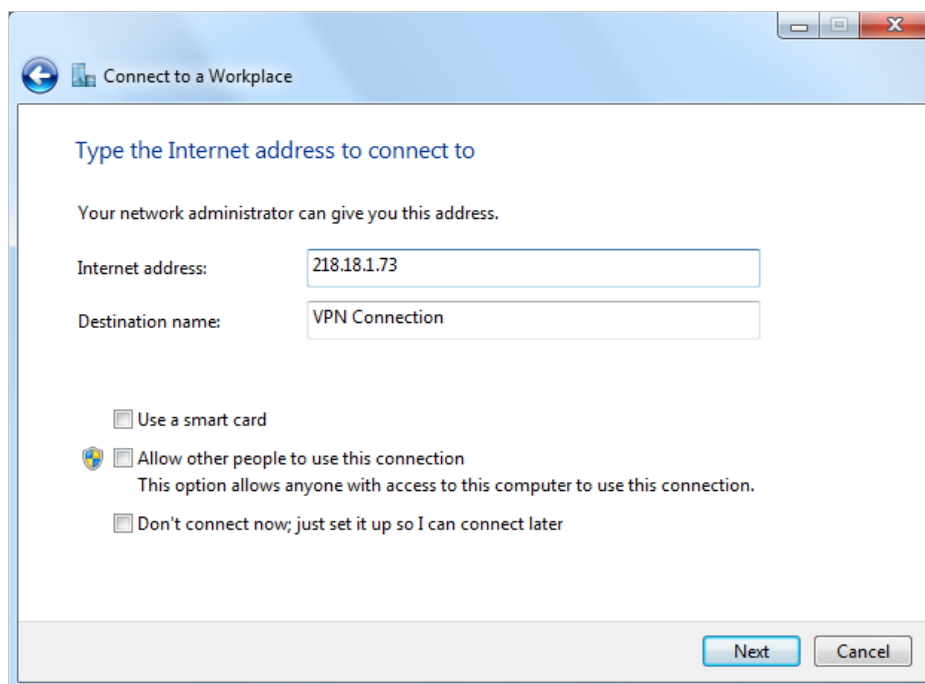
3. Select **Connect to a workplace** and click **Next**.



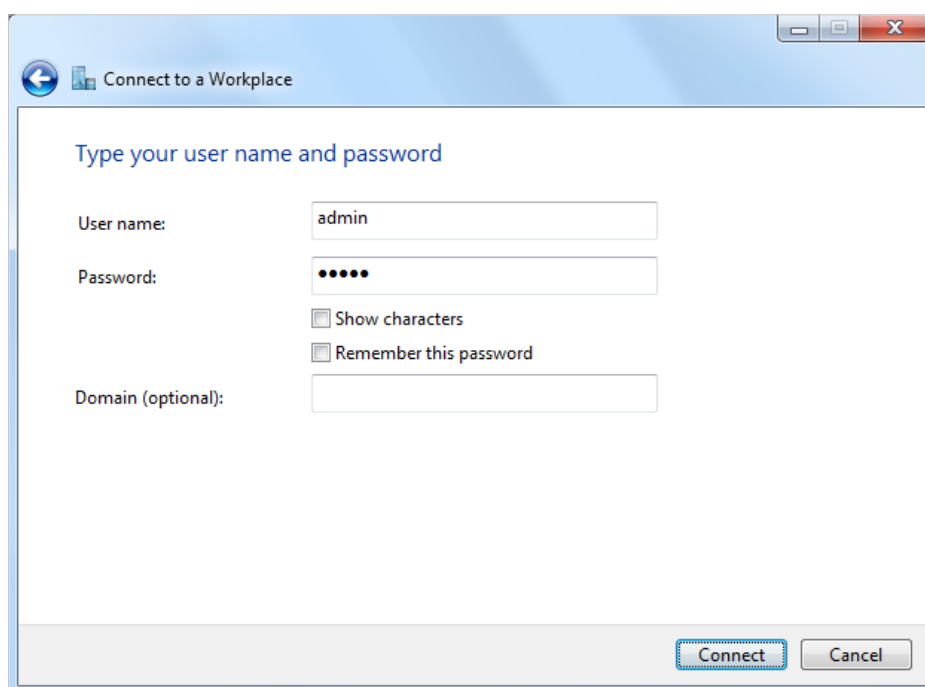
4. Select **Use my Internet connection (VPN)**.



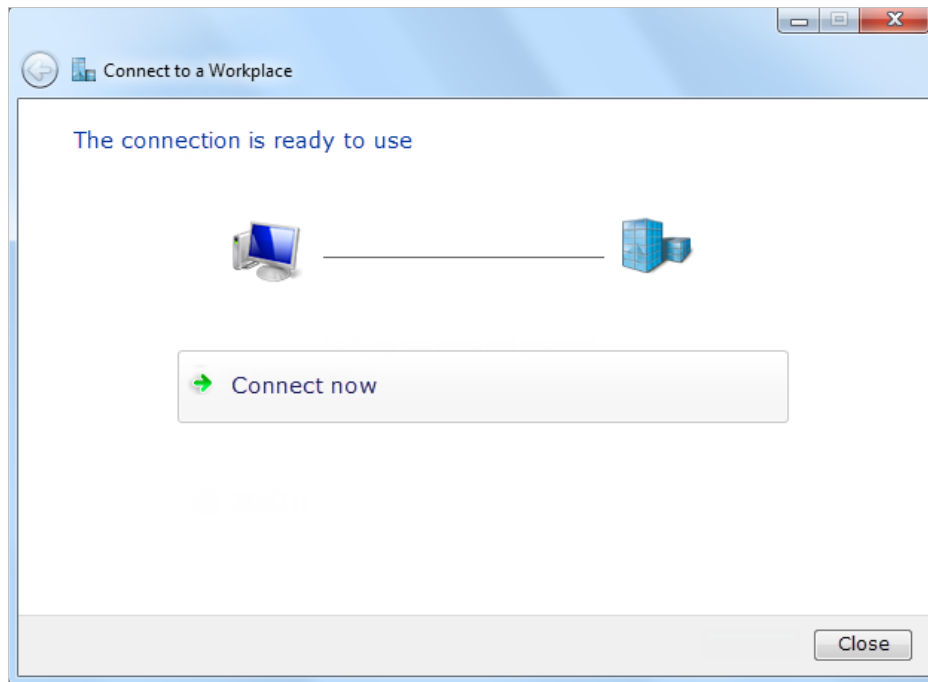
5. Enter the internet IP address of the router (for example: 218.18.1.73) in the **Internet address** field. Click **Next**.



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



7. The PPTP VPN connection is created and ready to use.



Chapter 12

Customize Your Network Settings

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

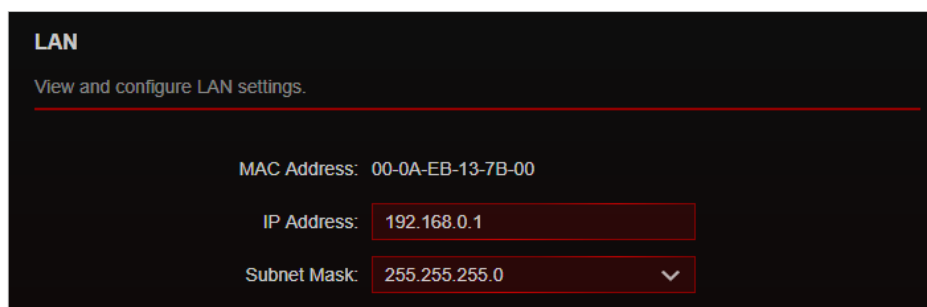
It contains the following sections:

- [Change the LAN Settings](#)
- [Set Up Link Aggregation](#)
- [Configure to Support IPTV Service](#)
- [Specify DHCP Server Settings](#)
- [Set Up a Dynamic DNS Service Account](#)
- [Create Static Routes](#)
- [Specify Wireless Settings](#)
- [Schedule Your Wireless Function](#)
- [Use WPS for Wireless Connection](#)
- [Use WDS to Extend Network](#)
- [Advanced Wireless Settings](#)

12.1. 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.



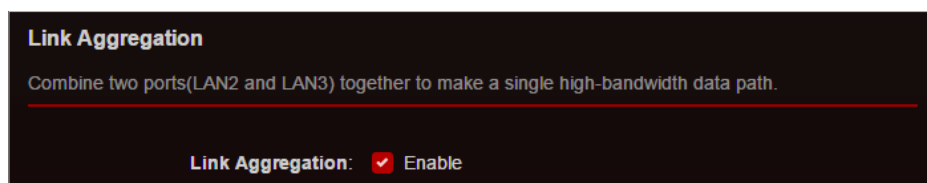
4. Click [SAVE](#).

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.

12.2. Set Up Link Aggregation

The Link Aggregation feature combines two ports together to make a single highbandwidth data path, thus sustaining a higher-speed and more stable wired 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](#) > [Network](#) > [LAN](#).
3. Enable [Link Aggregation](#). The router will reboot to apply the settings and the LAN ports 2 and 3 will be used for Link Aggregation.



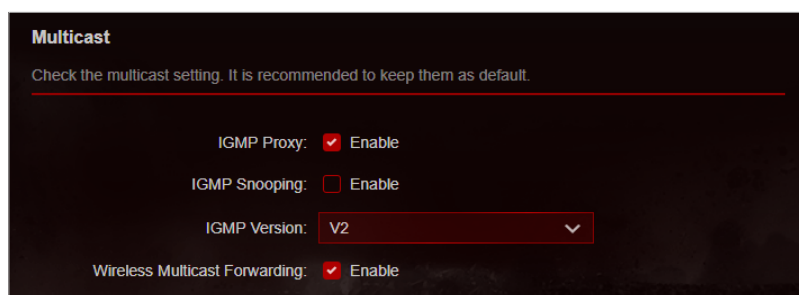
12.3. Configure to Support IPTV Service

I want to:

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

How can I do that?

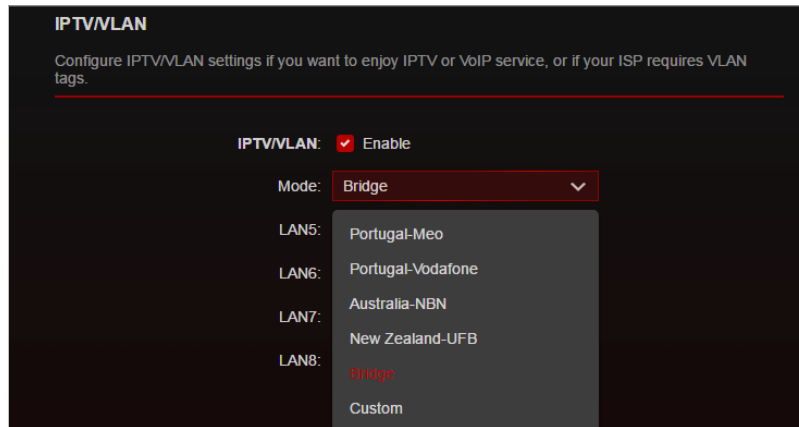
1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Advanced](#) > [Network](#) > [IPTV/VLAN](#).
3. If your ISP provides the networking service based on IGMP technology, e.g., British Telecom(BT) and Talk Talk in UK:
 - 1) Tick the [IGMP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



- 2) Click [SAVE](#).
- 3) 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.

12.4. 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:**

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.

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.
3. Enter the [IP address](#) to reserve for the client device.
4. Click [SAVE](#).

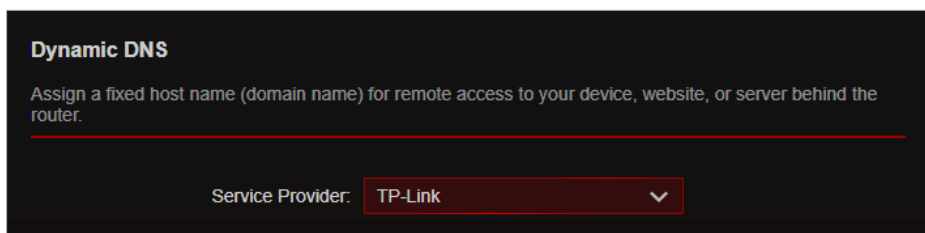
12.5. Set Up a Dynamic DNS Service Account

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

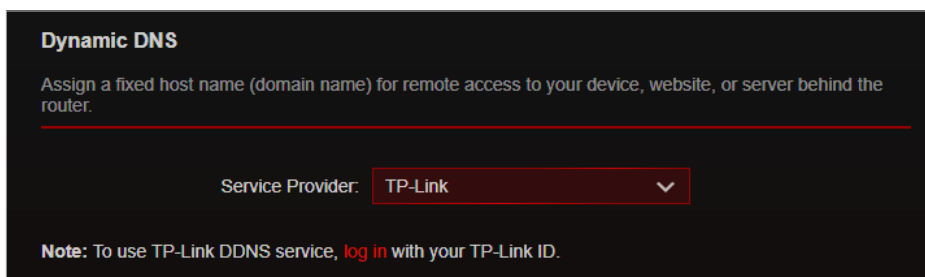
and you don't know when it changes. In this case, you might apply the DDNS (Dynamic Domain Name Server) feature on the router to allow you and your friends to access your router and local servers (FTP, HTTP, etc.) using a domain name without checking and remembering the IP address.

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](#).



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.

Dynamic DNS

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

Service Provider: TP-Link ▼

Current Domain Name:

Domain Name List

+ Register

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

5. Click **SAVE**.

🔗 **Tips:** If you want to use a new DDNS account, please click **Logout** first, and then log in with a new account.

12.6. Create Static Routes

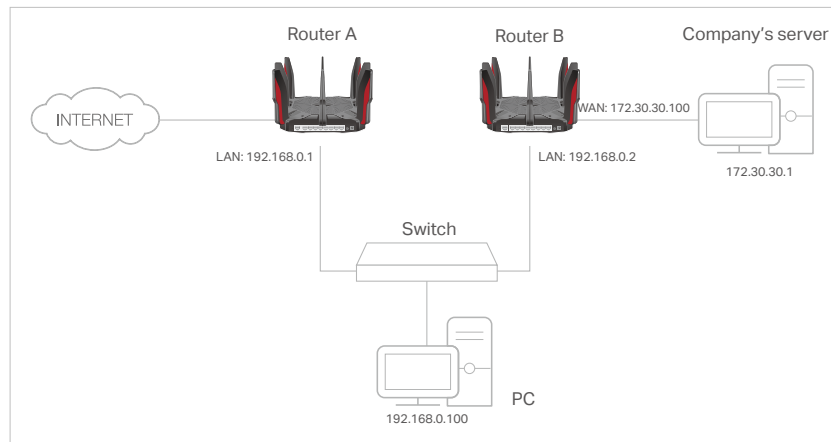
Static routing is a form of routing that is configured manually by a network administrator or a user by adding entries into a routing table. The manually-configured routing information guides the router in forwarding data packets to the specific destination.

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.



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:

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

- Network Destination:
- Subnet Mask:
- Default Gateway:
- Interface: (dropdown menu)
- Description:

At the bottom right of the dialog are two buttons: "CANCEL" and "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.

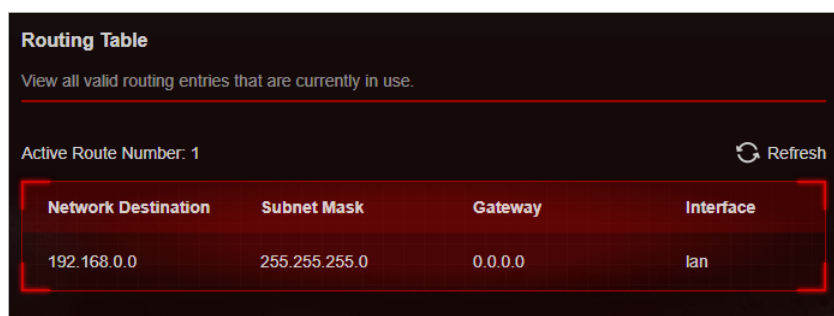
If the destination is a single IP address, enter 255.255.255.255; otherwise, enter the subnet mask of the corresponding network IP. In the example, the destination network is a single IP, so here enter 255.255.255.255.

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** 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.



The screenshot shows a 'Routing Table' interface with a dark background. At the top, it says 'View all valid routing entries that are currently in use.' Below this, it indicates 'Active Route Number: 1' and a 'Refresh' button. A table with a red border contains the following data:

Network Destination	Subnet Mask	Gateway	Interface
192.168.0.0	255.255.255.0	0.0.0.0	lan

Done!

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

12.7. Specify Wireless Settings

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

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

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

1. Go to **Wireless** or **Advanced > Wireless > Wireless Settings**.

2. The wireless function is enabled by default. If you want to disable the wireless function of the router, just untick the **Enable** checkbox of each wireless network. In this case, all the wireless settings will be invalid.

- **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 use OFDMA function:**

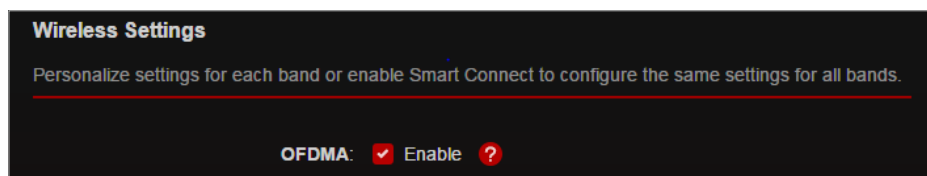
The OFDMA feature enables multiple users to transmit data simultaneously, and thus greatly improves speed and efficiency.

■ **Note:**

Only when your clients also support OFDMA can you fully enjoy the benefits.

1. Go to [Wireless](#) or [Advanced](#) > [Wireless](#) > [Wireless Settings](#).

2. Enable [OFDMA](#).



- **To use the smart connect function:**

The smart connect function lets you to enjoy a more high-speed network by assigning your devices to best wireless bands based on actual conditions to balance network demands.

1. Go to [Wireless](#) or [Advanced](#) > [Wireless](#) > [Wireless Settings](#).

2. Enable [Smart Connect](#).

Wireless Settings

Personalize settings for each band or enable Smart Connect to configure the same settings for all bands.

OFDMA: Enable ?

Smart Connect: Enable ? Sharing Network

Wireless Radio: Enable

Network Name (SSID): Hide SSID

Security:

Version:

Password:

Transmit Power:

3. Keep the default values or set a new SSID and password, and click **SAVE**. This SSID and password will be applied for the 2.4GHz and 5GHz wireless networks.

- **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 set **Security** to **WPA/WPA2-Personal** for good compatibility with your other devices.
3. Set **Version** according to your network needs. If the security type you set is **WPA2/WPA3-Personal**, it is recommended that you select **Auto** to allow for gradual migration to a WPA3-Personal network while maintaining interoperability with WPA2-Personal devices.

Wireless Settings

Personalize settings for each band or enable Smart Connect to configure the same settings for all bands.

OFDMA: Enable ?

Smart Connect: Enable ?

2.4GHz: Enable Sharing Network

Network Name (SSID): Hide SSID

Security:

Version:

Password:

Transmit Power:

Channel Width:

Channel:

Mode:

In addition

- **Transmit Power** - Select either **High**, **Middle** or **Low** to specify the data transmit power. The default and recommended setting is **High**.
- **Channel Width** - Select a channel width (bandwidth) for the wireless network.
- **Channel** - 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.
- **Mode** - Select a transmission mode according to your wireless client devices. It is recommended to just leave it as default.

- **To enable the MU-MIMO feature:**

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.

Note:

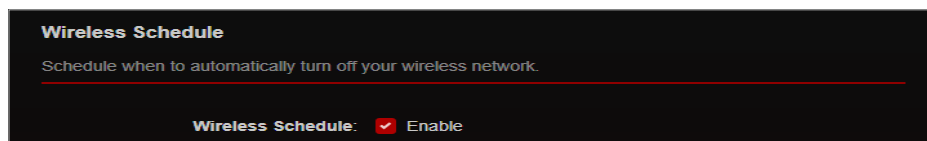
Devices supporting 5GHz wireless band can enjoy the MU-MIMO service.

1. Go to **Advanced > Wireless > Wireless Settings**.
2. Locate the **5GHz-1** or **5GHz-2** network.
3. Tick the **Enable** box for **MU-MIMO**.
4. Click **SAVE**.

12.8. 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.



4. Click **Add** to specify a wireless off period during which you need the wireless off automatically, and click **SAVE**.

The screenshot shows a dark-themed dialog box titled "Add Schedule" with a close button (X) in the top right corner. The "Wireless Off Time" section has two rows: "From" and "To". Each row contains three dropdown menus for hour, minute, and AM/PM. The "From" row is set to 1:00 AM, and the "To" row is set to 1:00 AM with "(next day)" written below it. Below the time fields is a "Repeat:" section with seven radio buttons labeled S, M, T, W, T, F, S. The "S" radio button is selected. At the bottom of the dialog are two buttons: "CANCEL" and "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.

12.9. 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](#).

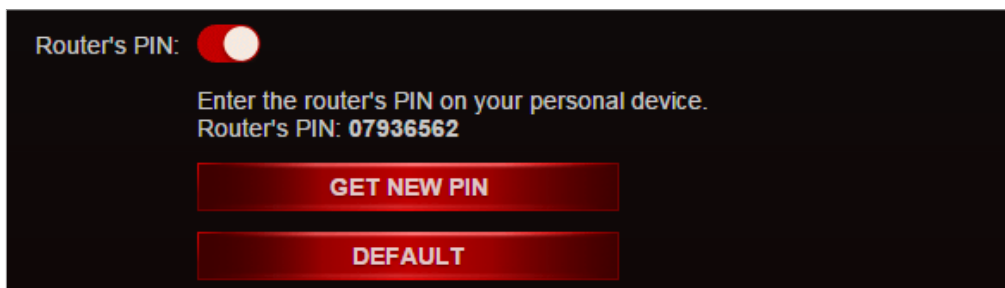
12.9.1. Connect via the Client's PIN

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

The screenshot shows a dark-themed screen for WPS configuration. At the top, "WPS:" is followed by a red toggle switch that is turned on. Below this, "Method 1: Using a PIN" is displayed. There are two radio buttons: "Client's PIN" (which is selected) and "Router's PIN". Below the radio buttons is a text input field with the placeholder text "Enter your personal device's PIN here and click **CONNECT**". At the bottom of the screen is a red "CONNECT" button.


12.9.2. Connect via the Router's PIN

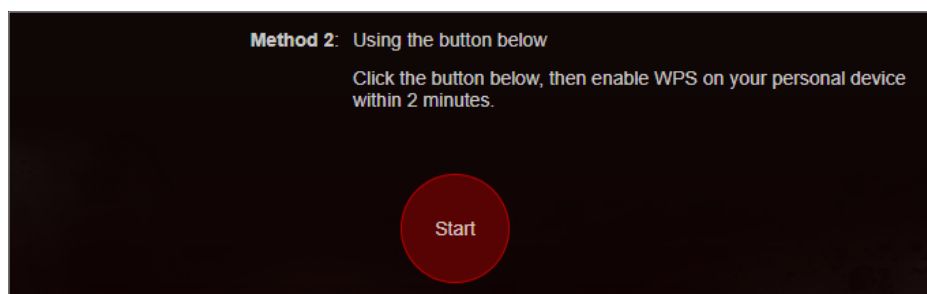
Select [Router's PIN](#) in [Method 1](#) to enable [Router's PIN](#). You can use the default PIN or generate a new one.

**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.

12.9.3. Push the WPS Button

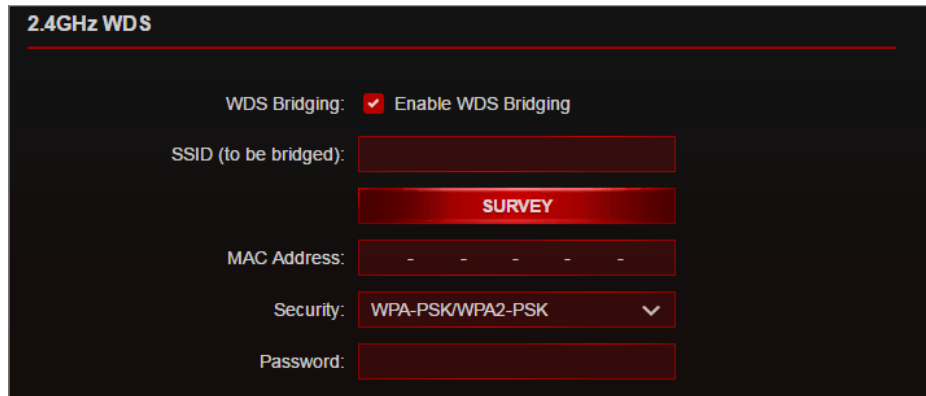
Click [Start WPS](#) on the screen. Within two minutes, press the WPS button on your device. [Success](#) will appear on the above screen and the  LED of the router should change from pulsing white to solid on, indicating successful WPS connection.



12.10. Use WDS to Extend Network

WDS (Wireless Distribution System) Bridging feature allows you to bridge a router with an access point to extend the wireless network coverage. The access point should also support the WDS Bridging feature.

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](#) > [WDS](#).
3. Select [Enable WDS Bridging](#) of [2.4GHz WDS](#), [5GHz-1 WDS](#) or [5GHz-2 WDS](#).



4. Survey the SSID to be bridged.

- Click **SURVEY** to scan all available networks and select the network you want to bridge. The SSID (network name) and MAC Address will be automatically populated. you can also manually fill in these parameters.
- Manually enter these parameters.

5. Select a **Security** type and enter the related parameters, which should be the same as the network to be bridged.

6. Click **SAVE**.

Note:

- The IP address of the extended router needs to be in the same subnet with the root router.
- You need to enable and configure the WDS Bridging feature for the access point as well.
- WDS and Guest Network cannot be enabled at the same time.

12. 11. 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: Enable

Short GI: Enable

AP Isolation: Enable

Airtime Fairness: Enable

Zero Wait DFS: Enable

Beacon Interval: 100

RTS Threshold: 2346

DTIM Interval: 1

Group Key Update Period: 0 s

- **WMM** - WMM function can guarantee the packets with high-priority messages being transmitted preferentially.
- **Short GI** - It is recommended to enable this function, for it will increase the data capacity by reducing the guard interval time.
- **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.
- **Zero Wait DFS** - Zero Wait DFS (Dynamic Frequency Selection) allows the router to immediately reselect a new channel once the radar signal is detected on a channel allocated to radar devices to ensure lag-free network experience.
- **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 13

Manage the Router

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

It contains the following sections:

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

13.1. Upgrade the Firmware

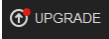
TP-Link aims at providing better network experience for users.

We will inform you through the web management page if there's any update 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.

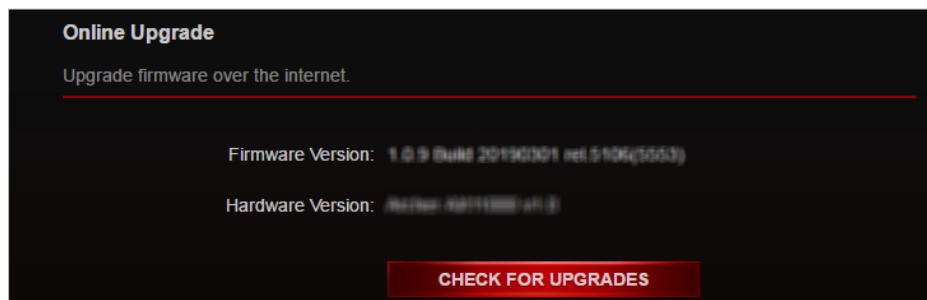
Note:

- Make sure you remove all attached USB devices from the router before the firmware upgrade to prevent data loss.
- Backup your router configuration before firmware upgrade.
- Do NOT turn off the router during the firmware upgrade.

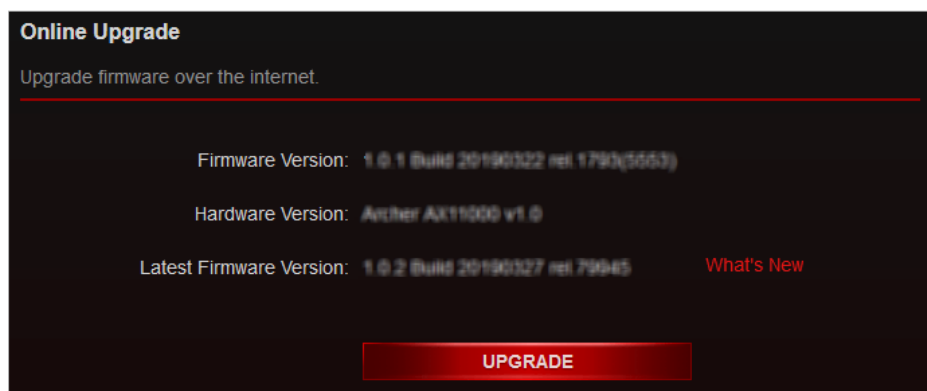
13.1.1. Online Upgrade

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 upgrade icon  will display in the top-right corner of the page. Click the icon to go to the [Firmware Upgrade](#) page.

Alternatively, you can go to [Advanced](#) > [System](#) > [Firmware Upgrade](#), and click [CHECK FOR UPGRADES](#) to see whether the latest firmware is released.

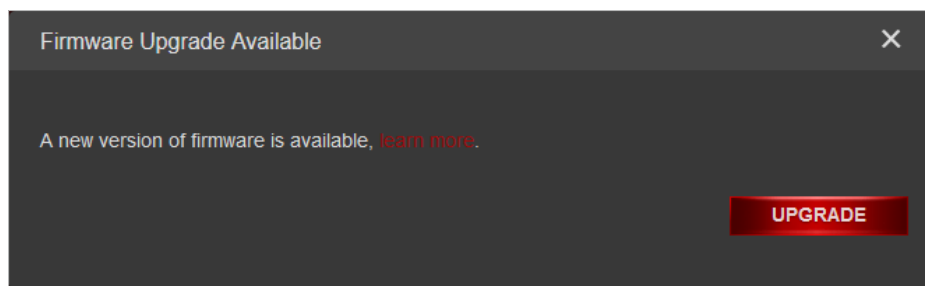


3. Focus on the [Online Upgrade](#) section, and click [UPGRADE](#).



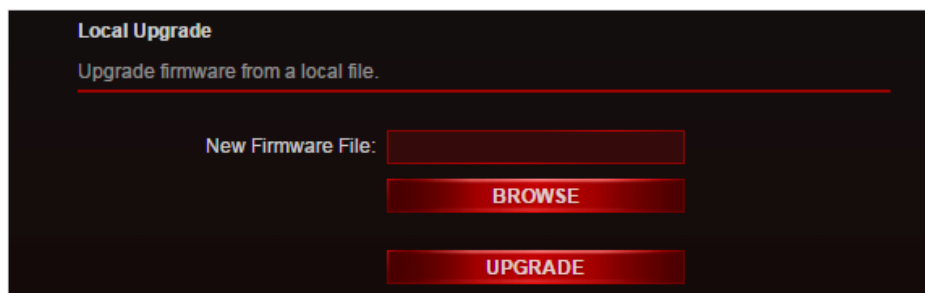
4. Wait a few minutes for the upgrade and reboot to complete.

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



13.1.2. Local Upgrade

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 Upgrade](#).
4. Focus on the [Local Upgrade](#) section. Click **BROWSE** to locate the downloaded new firmware file, and click **UPGRADE**.



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

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

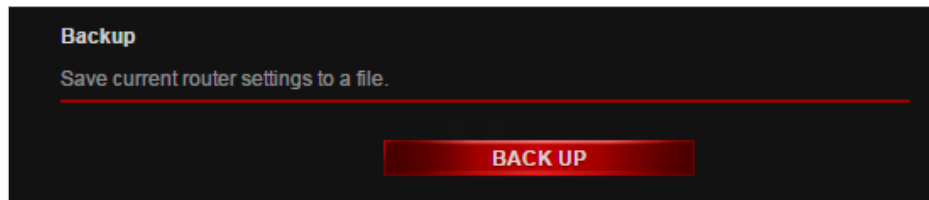
13.2. Backup and Restore Configuration Settings

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.

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](#) > [Backup & Restore](#).

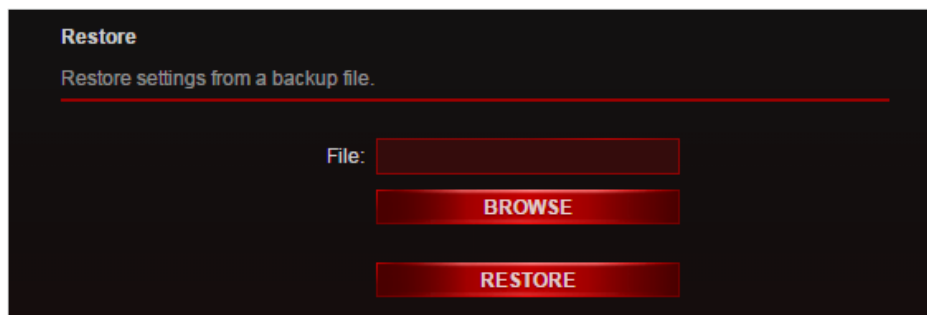
- **To backup configuration settings:**

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:**

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

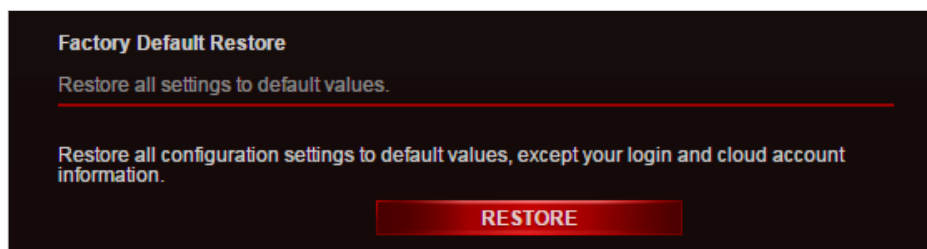


2. Wait a few minutes for the restoring and rebooting.

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](#).



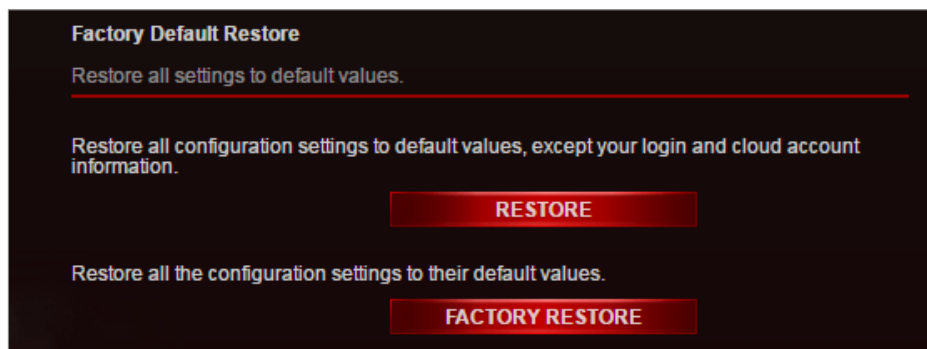
2. Wait a few minutes for the resetting and rebooting.

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:

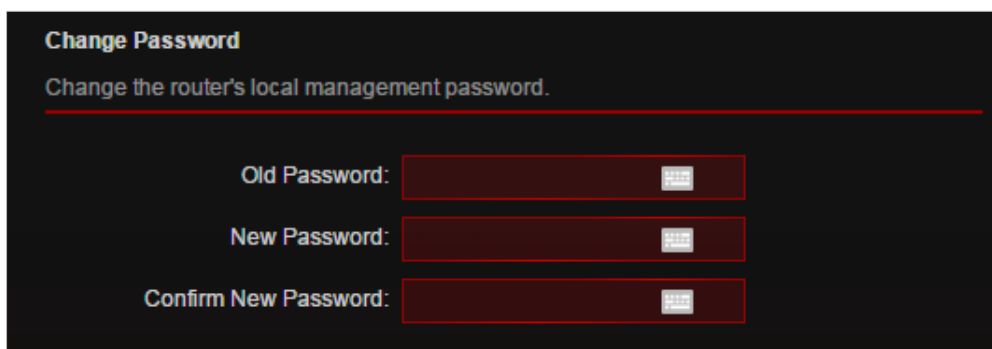
- During the resetting process, do not turn off or reset the router.
- We strongly recommend you backup the current configuration settings before resetting the router.

13.3. 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.

13.4. Password Recovery

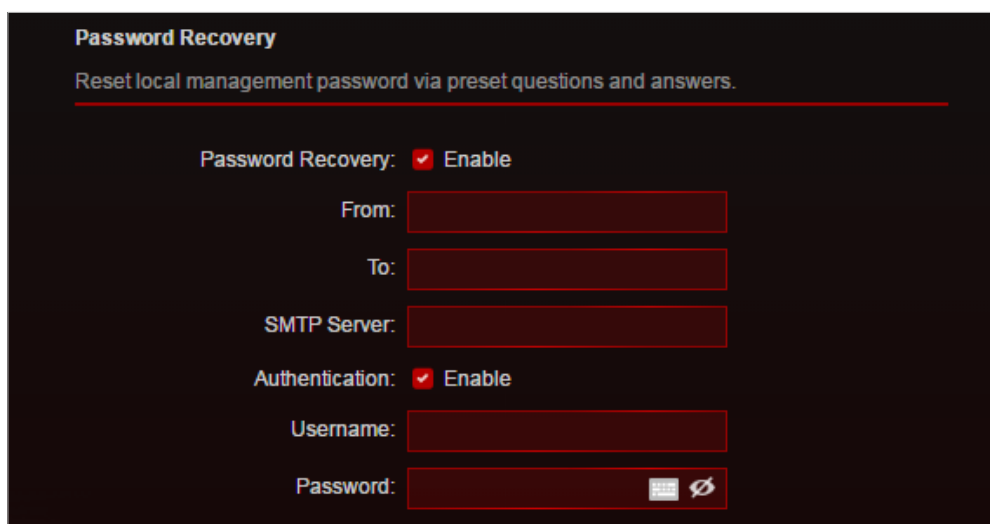
This feature allows you to recover the login password you set for you router in case you forget it.

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.



The screenshot shows the 'Password Recovery' configuration page. At the top, it says 'Reset local management password via preset questions and answers.' Below this, there are several settings:

- Password Recovery:** **Enable**
- From:** [Text input field]
- To:** [Text input field]
- SMTP Server:** [Text input field]
- Authentication:** **Enable**
- Username:** [Text input field]
- Password:** [Text input field with a toggle icon]

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.

13.5. 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

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

Select **All Devices** for **Local Managers**.

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

Local Management via HTTPS: Enable

Local Managers: **All Devices** ▼

- **Allow specific devices to manage the router:**

1. Select **All Devices** for **Local Managers** and click **SAVE**.

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

Local Management via HTTPS: Enable

Local Managers: **Specified Devices** ▼

+ Add Device

Description	MAC Address	Operation
No Entries		

2. Click **Add Device**.

Add Device [X]

Description:

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**.

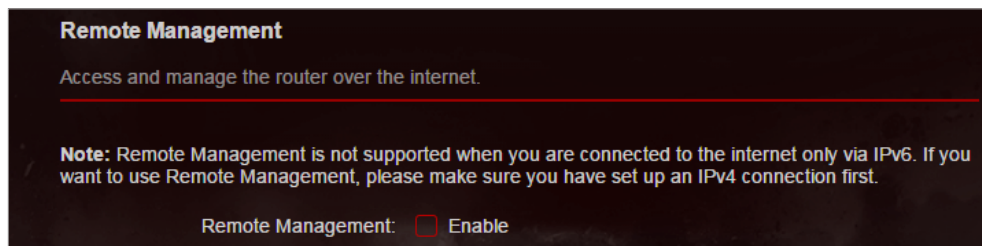
13.6. Remote Management

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**.



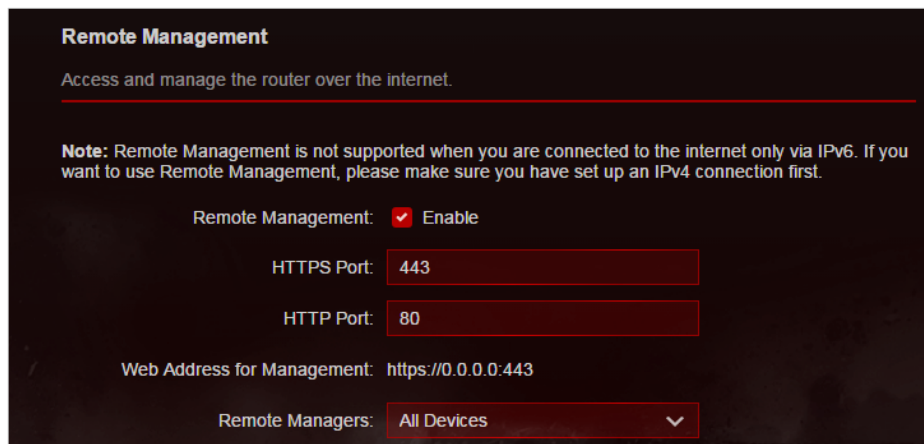
Remote Management

Access and manage the router over 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: Enable

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



Remote Management

Access and manage the router over 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: Enable

HTTPS Port:

HTTP Port:

Web Address for Management:

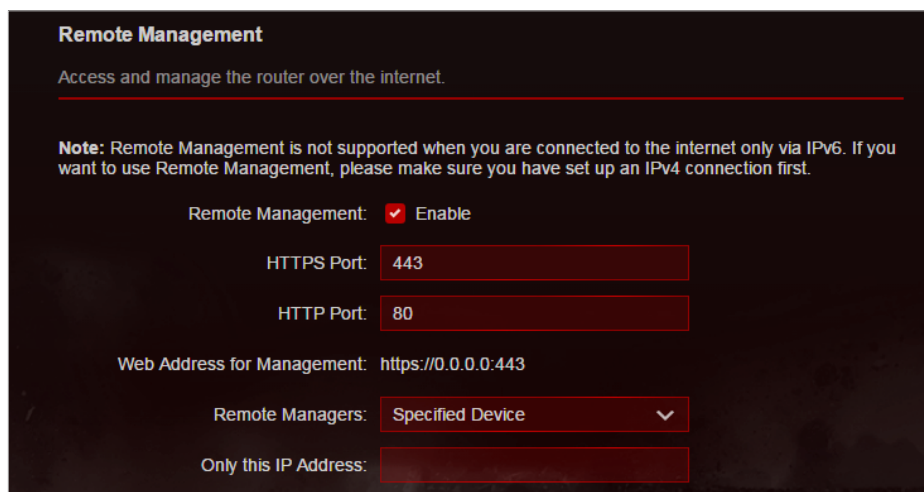
Remote Managers:

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 **All Devices** for **Remote Managers**.
4. Click **SAVE**.

Devices on the internet can log in to <http://Router's WAN IP address:port number> (such as <http://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:**



The screenshot shows the 'Remote Management' configuration page. At the top, it says 'Access and manage the router over the internet.' Below this is a note: '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.' The configuration options are: 'Remote Management' is checked and set to 'Enable'; 'HTTPS Port' is set to '443'; 'HTTP Port' is set to '80'; 'Web Address for Management' is 'https://0.0.0.0:443'; 'Remote Managers' is set to 'Specified Device' with a dropdown arrow; and 'Only this IP Address' is an empty text field.

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 Managers**.
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.

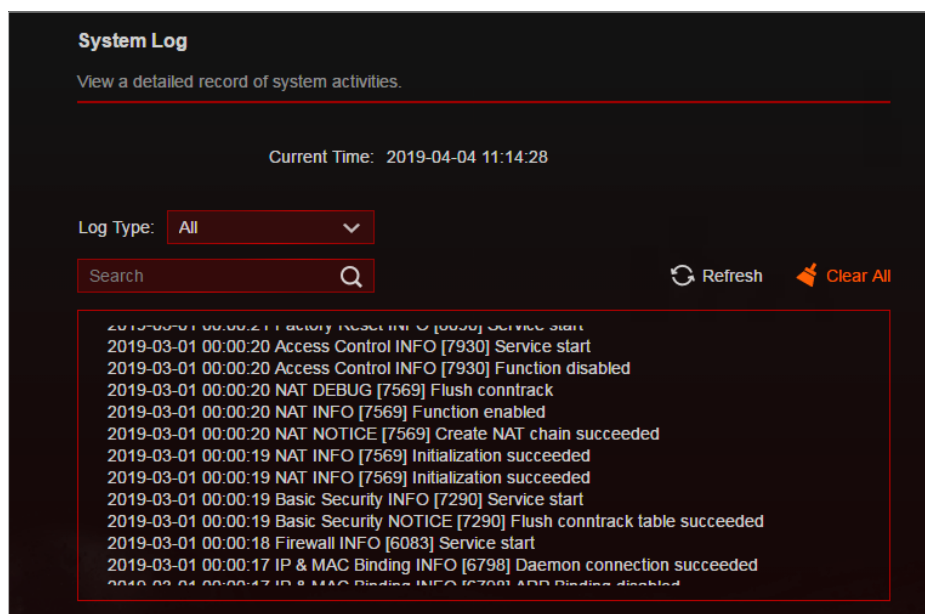
13.7. System Log

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

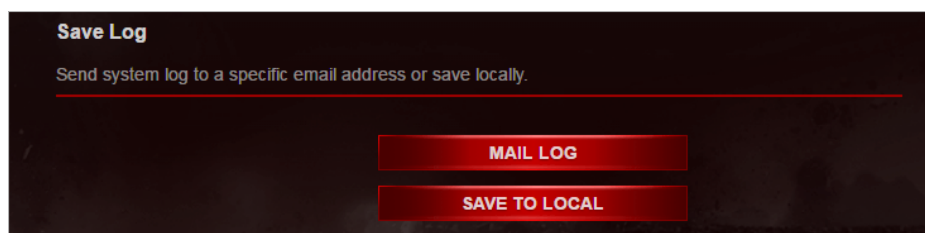
- **To save the system log locally:**

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.



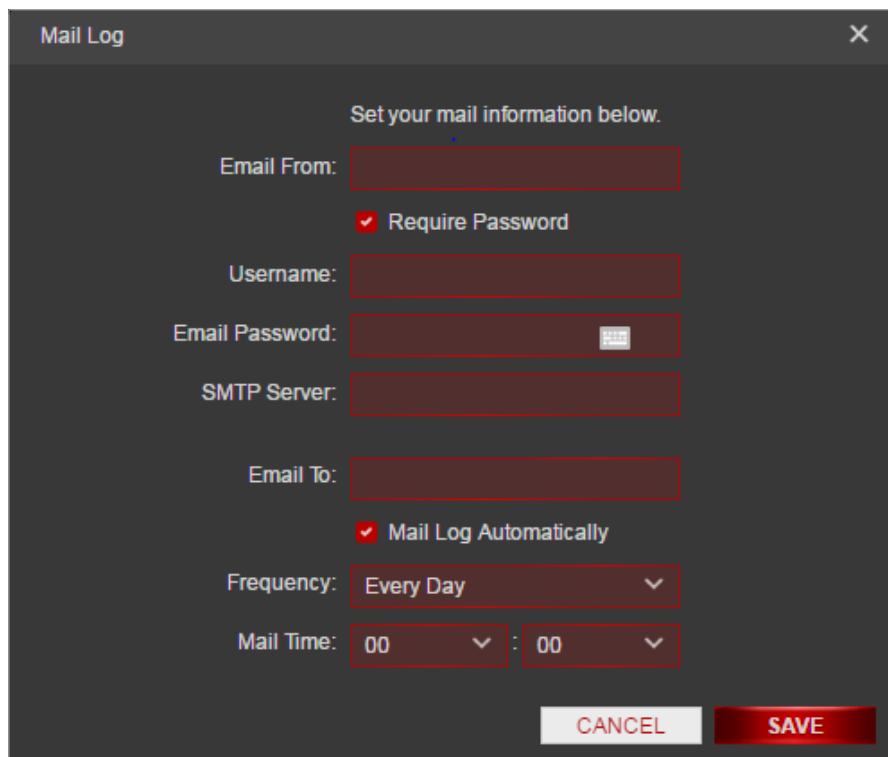
4. In the [Save Log](#) section, click [SAVE TO LOCAL](#) to save the system logs to a local disk.



- 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:



The image shows a 'Mail Log' configuration dialog box with a dark background and white text. At the top right is a close button (X). Below the title is the instruction 'Set your mail information below.' The form contains several fields: 'Email From:' with a text input; a checked checkbox for 'Require Password'; 'Username:' with a text input; 'Email Password:' with a text input and a password icon; 'SMTP Server:' with a text input; 'Email To:' with a text input; a checked checkbox for 'Mail Log Automatically'; 'Frequency:' with a dropdown menu set to 'Every Day'; and 'Mail Time:' with two dropdown menus set to '00'. At the bottom right are two buttons: 'CANCEL' and 'SAVE'.

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.

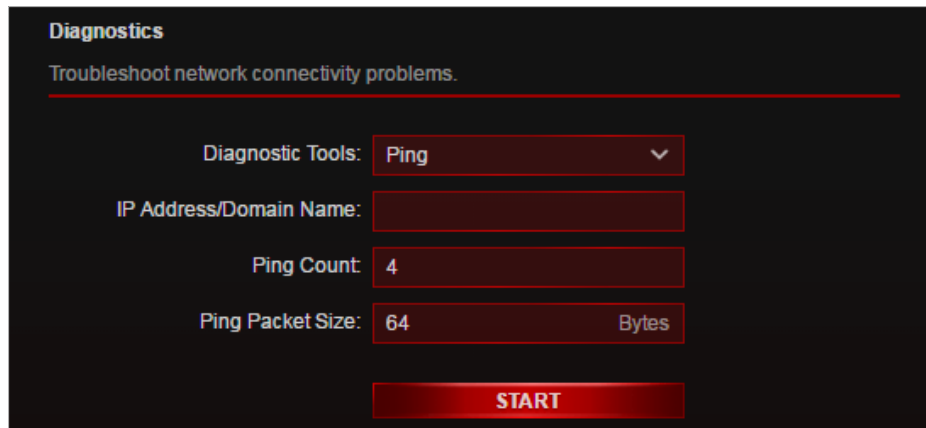
8) **Frequency:** This determines how often the recipient will receive the system log .

5. Click **SAVE**.

13.8. 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](#) or [Game Center](#) > [Game Diagnostics](#).



Diagnostics
Troubleshoot network connectivity problems.

Diagnostic Tools:

IP Address/Domain Name:

Ping Count:

Ping Packet Size: Bytes

START

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 yahoo.com (98.138.219.231): 64 data bytes
Reply from 98.138.219.231: bytes=64 ttl=49 seq=1 time=304.936 ms
Reply from 98.138.219.231: bytes=64 ttl=49 seq=2 time=314.398 ms
Reply from 98.138.219.231: bytes=64 ttl=49 seq=3 time=323.191 ms
Reply from 98.138.219.231: bytes=64 ttl=49 seq=4 time=344.335 ms
--- Ping Statistics for "yahoo.com" ---
Packets: Sent=4, Received=4, Lost=0 (0.00% loss)
Round-trip min/avg/max = 304.936/321.715/344.335 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 yahoo.com (72.30.35.9), 5 hops max, 38 byte packets
 1 unknown (10.0.0.1) 0.681 ms 0.553 ms 0.570 ms
 2 61.141.64.1 (61.141.64.1) 7.443 ms 3.493 ms 8.752 ms
 3 202.105.158.25 (202.105.158.25) 2.939 ms 202.105.155.201 (202.105.155.201) 2.550 ms
 202.105.155.205 (202.105.155.205) 2.501 ms
 4 183.56.65.14 (183.56.65.14) 8.672 ms 183.56.65.70 (183.56.65.70) 6.533 ms 9.779 ms
 5 202.97.94.122 (202.97.94.122) 6.064 ms 202.97.66.154 (202.97.66.154) 5.636 ms
 202.97.94.138 (202.97.94.138) 7.608 ms
Trace Complete.
traceroute is stopped.

```

13.9. Set Up 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.

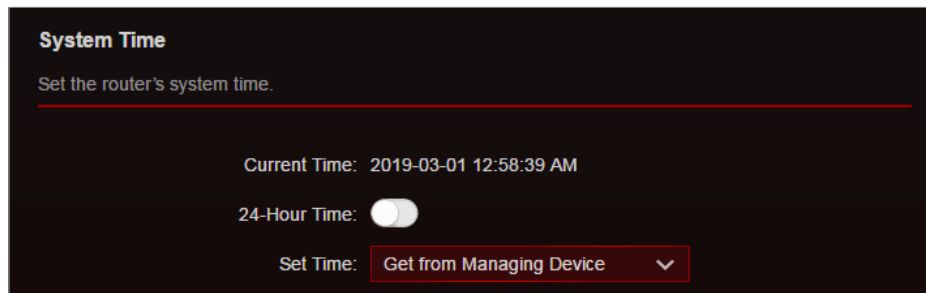
1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Advanced](#) > [System](#) > [Time & Language](#).
 - **To get time from the internet:**
 1. Enable [24-Hour Time](#) if you want the time to display in a 24-hour way.
 2. In the [Set Time](#)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

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**.



System Time
Set the router's system time.

Current Time: 2019-03-01 12:58:39 AM

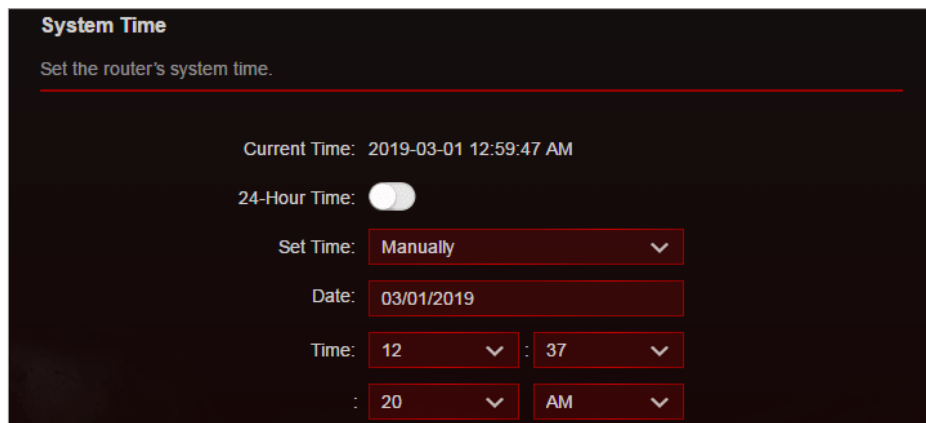
24-Hour Time:

Set Time: **Get from Managing Device** ▼

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: 2019-03-01 12:59:47 AM

24-Hour Time:

Set Time: **Manually** ▼

Date: **03/01/2019**

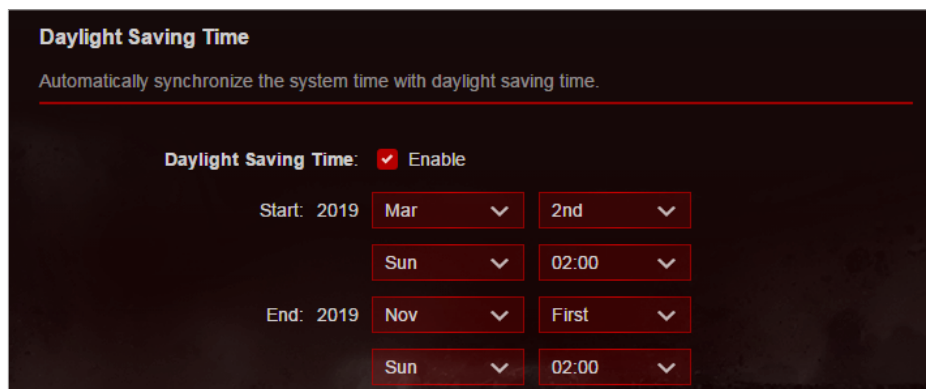
Time: **12** ▼ : **37** ▼

: **20** ▼ **AM** ▼

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 up 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: Enable

Start: 2019 Mar 2nd Sun 02:00

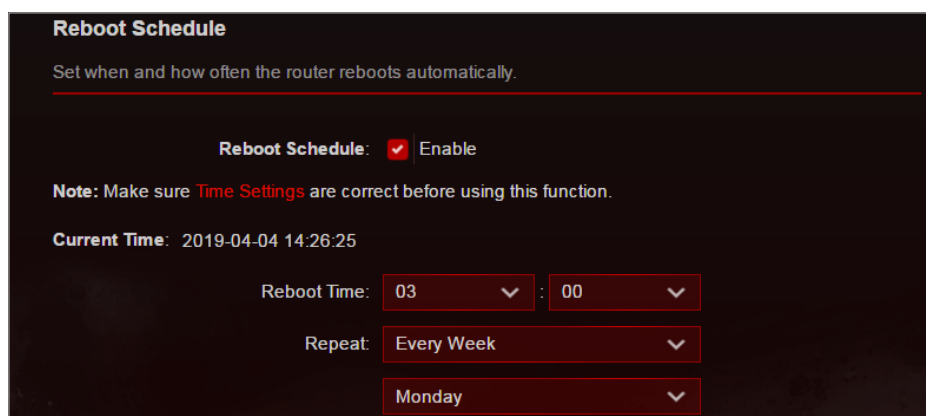
End: 2019 Nov First Sun 02:00

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**.

13. 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**.



Reboot Schedule
Set when and how often the router reboots automatically.

Reboot Schedule: Enable

Note: Make sure **Time Settings** are correct before using this function.

Current Time: 2019-04-04 14:26:25

Reboot Time: 03 : 00

Repeat: Every Week Monday

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

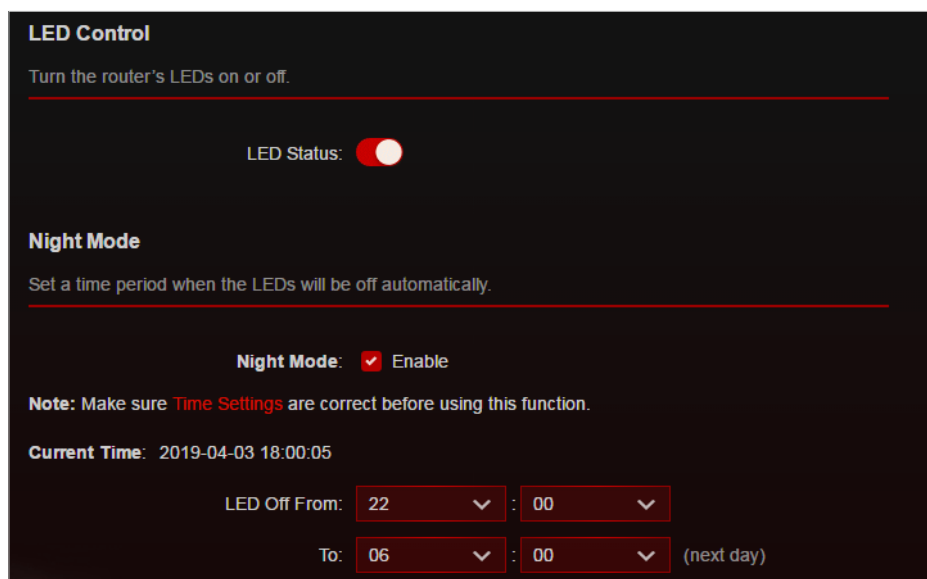
13. 11. Control the LED

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.

Note: The effective LED off time is based on the time of the router. You can go to [Advanced](#) > [System](#) > [Time & Language](#) to modify the time.

5. Click [SAVE](#).

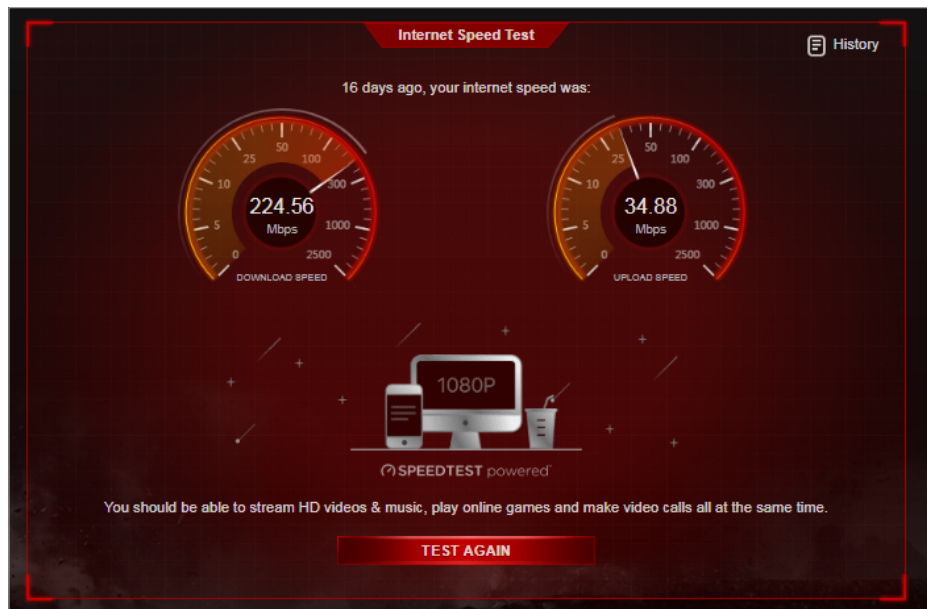


13. 12. Test Your Internet Speed

Speedtest® provides an easy way to monitor your network speed. It reveals the current upload and download speeds received from your provider and gives practical advice about the activities you can enjoy.

- **To test your internet speed:**

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](#) and click [SPEED TEST](#).
3. If it is the first time you run a test, the router will start the test automatically. Otherwise, click [TEST AGAIN](#).



Note:

- To run a Speedtest®, your router must be connected to the internet.
- For a more accurate result, make sure no apps or programs are running on devices on your network.

To view the history of internet speeds:

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** and click **History** to view a record of previous test results.

Internet Speed Test History

Clear All

Time	Download	Upload
2019-03-01 2:33 AM	58.22 Mbps	18.8 Mbps
2019-03-01 2:33 AM	63.75 Mbps	17.96 Mbps
2019-02-28 0:01 AM	61.24 Mbps	22.05 Mbps

Chapter 14

Game Center

This chapter will show some gaming related information and guide you on how to protect and accelerate your gaming.

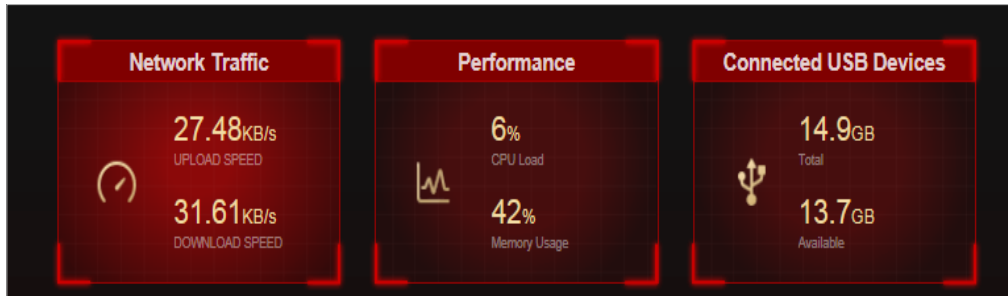
It contains the following sections:

- [Check Key Parameters through Dashboard](#)
- [Boost Game Speed through Game Accelerator](#)
- [TP-Link Router Skill for Alexa](#)
- [Game Protector](#)
- [VPN Server](#)
- [Port Forwarding](#)
- [Game Diagnostics](#)

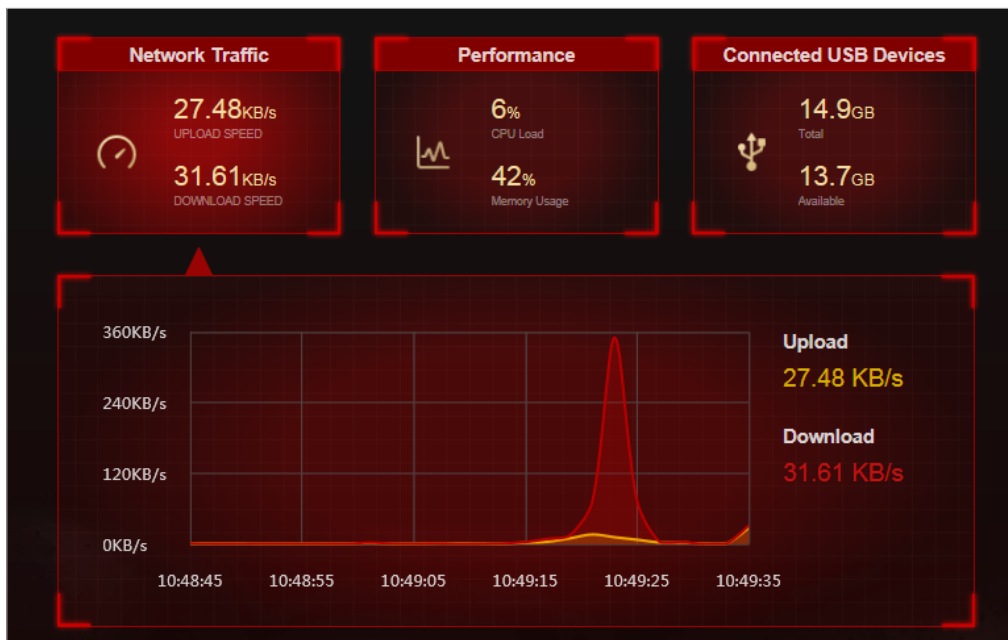
14. 1. Check Key Parameters through Dashboard

Here you can check some key parameters related to your router, including network traffic of the WAN port, Performance of the router, connected USB devices and more.

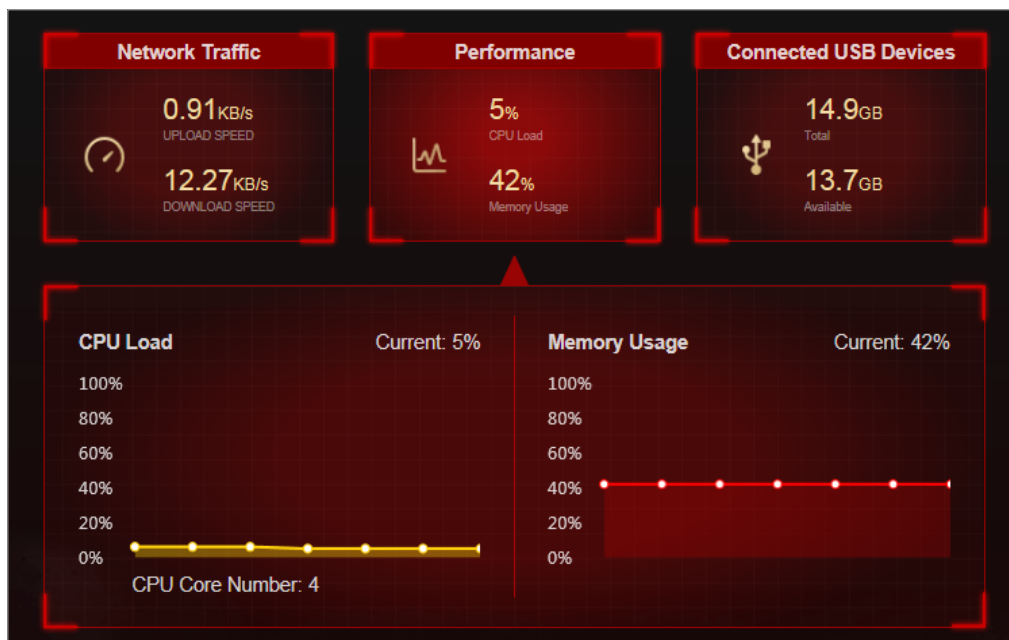
1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Game Center > Dashboard](#).




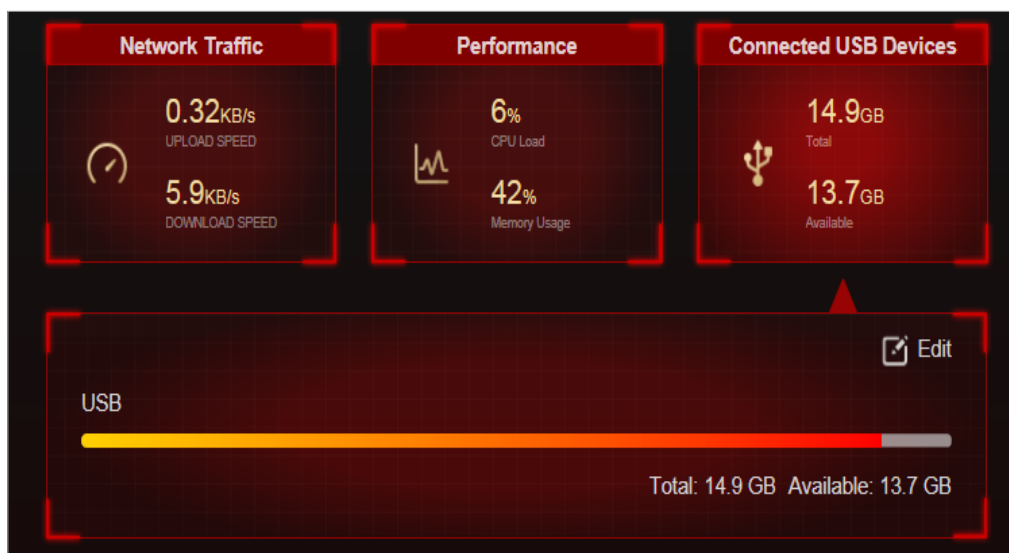
3. Click [Network Traffic](#) to view the real-time upload and download speed for the WAN port.



4. Click [Performance](#) to view the current status CPU load and memory usage.



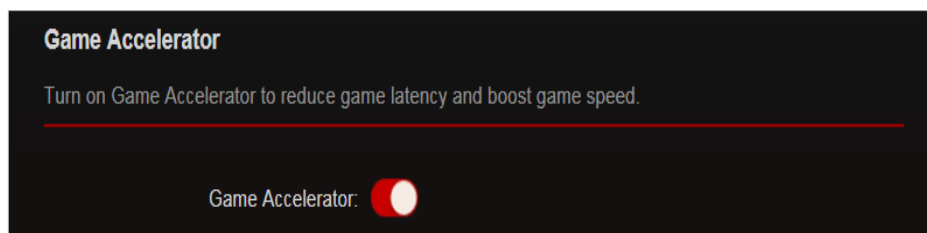
- Click [Connected USB Devices](#) to view the total and available memory capacity of connected USB devices. Click the edit button  to transfer to the USB settings page for sharing files and media from the USB storage devices. You can also go to [Advanced > USB > USB Storage Device](#) for configuration.



14. 2. Boost Game Speed through Game Accelerator

Game Accelerator is used to reduce game latency and boost game speed. It automatically detects and optimizes gaming streams, to ensure your gaming stays immersive, and keep you network as fast as your reaction speed.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Game Center** > **Game Accelerator** and turn on **Game Accelerator**.



3. The **Statistics** section shows the gaming information of connected devices.

 A screenshot of the 'Statistics' section in the TP-Link interface. It displays a table with columns for Type, Information, Real-time Rate, Latency, and Gaming Duration. Two devices are listed: Jeff's iPhone and Macbook Pro.

Type	Information	Real-time Rate	Latency	Gaming Duration
	Jeff's iPhone 00:00:00:00:00:01 192.168.0.101	↓ 10.7 MB/s ↑ 4.8 MB/s	8.351ms	1 h 6 min (Total) 24 min (Current)
	Macbook Pro 00:00:00:00:00:02 192.168.0.102	↓ 8.7 MB/s ↑ 3.4 MB/s	8.351ms	4 h 56 min (Total) 56 min (Current)

Information: Displays the device name, IP address and MAC address of the client.

Real-time Rate: Displays the real-time upload and download speed of the client.

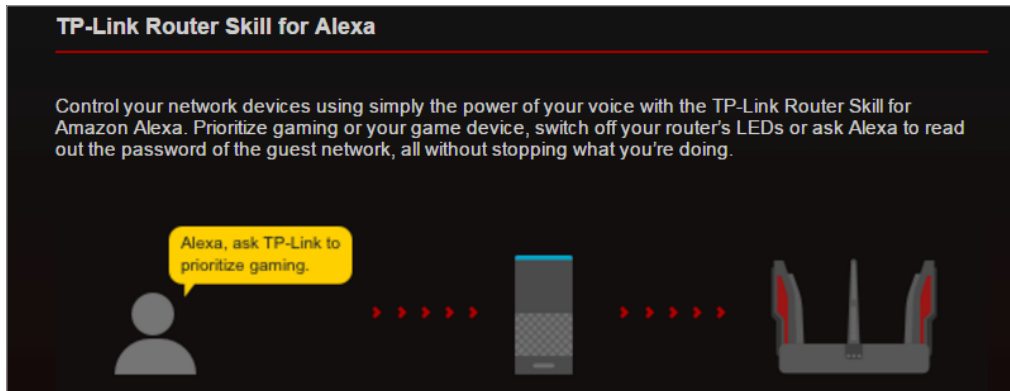
Latency: Displays the round-trip time that a router pings a client. Click to refresh the value of latency. If the client disables ping response, the value will be displayed as "--".


Gaming Duration: Displays the current gaming duration this time and the accumulated total gaming duration for the client.

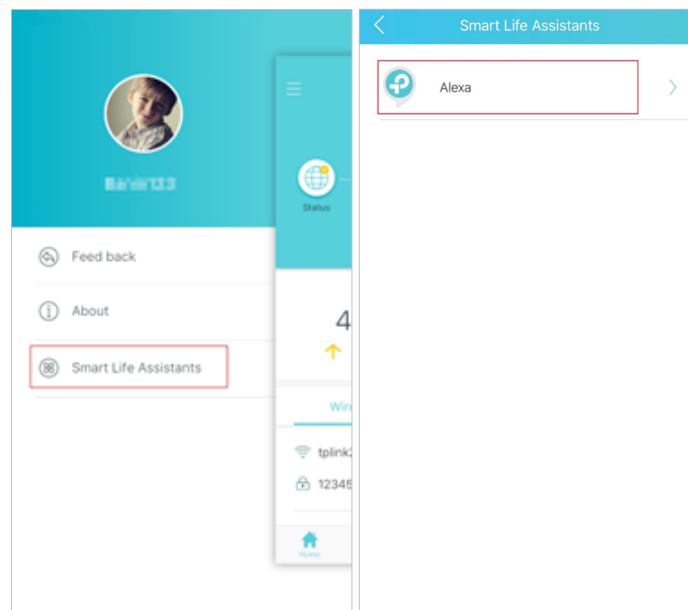
14.3. TP-Link Router Skill for Alexa

Control your network devices using simply the power of your voice with the TP-Link Router Skill for Amazon Alexa. Prioritize gaming or your game device, switch off your router's LEDs or ask Alexa to read out the password of the guest network, all without stopping what you're doing.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Game Center** > **Smart Game Assistant** > **Alexa**.
3. Follow the on-screen instructions to set up smart control of your router.



Or download [TP-Link Tether](#) app, open it and tap the  icon, then select [Smart Life Assistants](#) to complete the setup.



14.4. Game Protector

Game Protector keeps your accounts and system safe, ensuring your security while gaming online. It contains the features of [Parental Controls](#) and [Antivirus](#). To learn more about the two features, refer to [Parental Controls](#) and [Antivirus](#).

14.5. VPN Server

The VPN (Virtual Private Networking) Server allows you to access your home network in a secured way through internet when you are out of home. To know more about VPN Server, refer to [VPN Server](#).

14.6. Port Forwarding

Port Forwarding enables you to build up a server on the local network and want to share it on the internet. Please refer to [Share Local Resources on the Internet by Port Forwarding](#) to get the detailed information about Port Forwarding.

14.7. Game Diagnostics

Game Diagnostics is used to test the connectivity between the router and the host or other network devices while gaming. Please refer to [Test the Network Connectivity](#) to learn how to use Game Diagnostics.

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](#) or [Advanced](#) > [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 LED blinks to reset it, and then visit <http://tplinkwifi.net> to create a new login password.

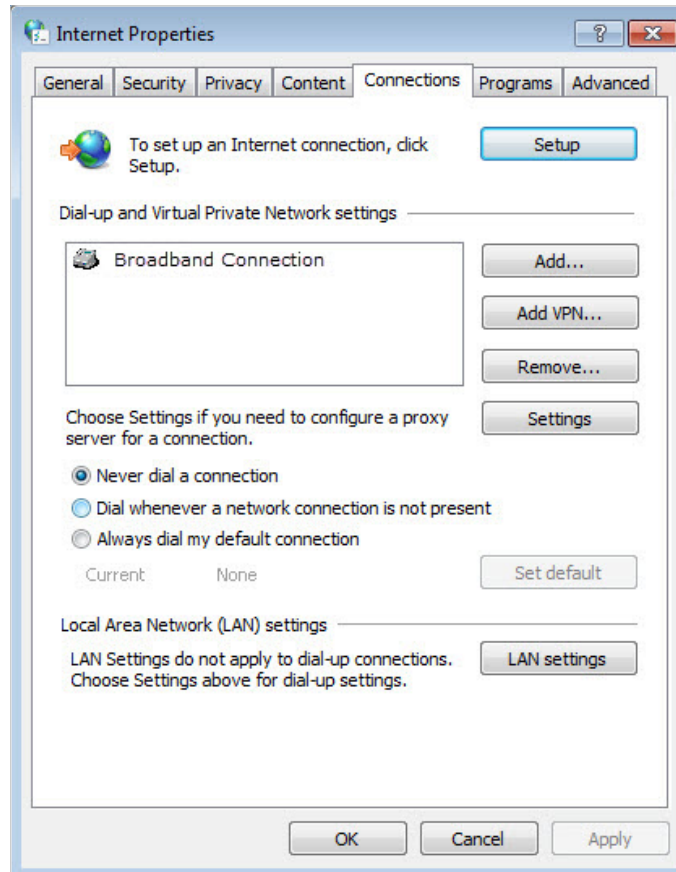
Note:

- 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.

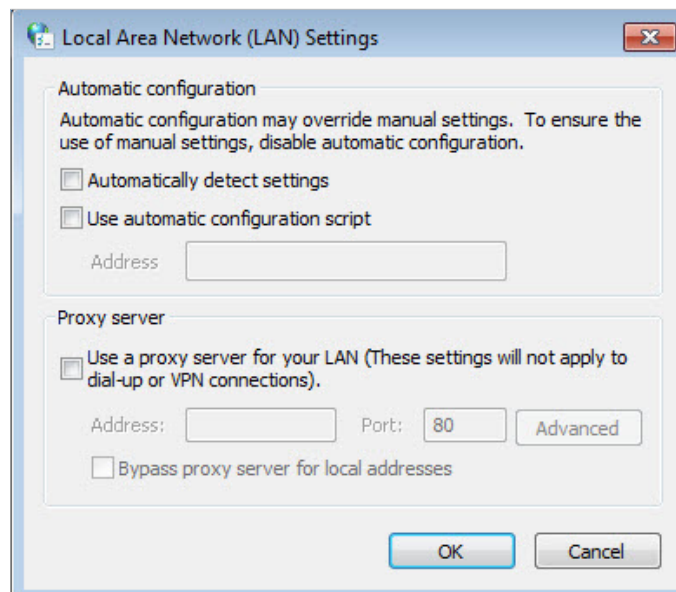
Q3. What should I do if I cannot log in to the router's web management page?

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

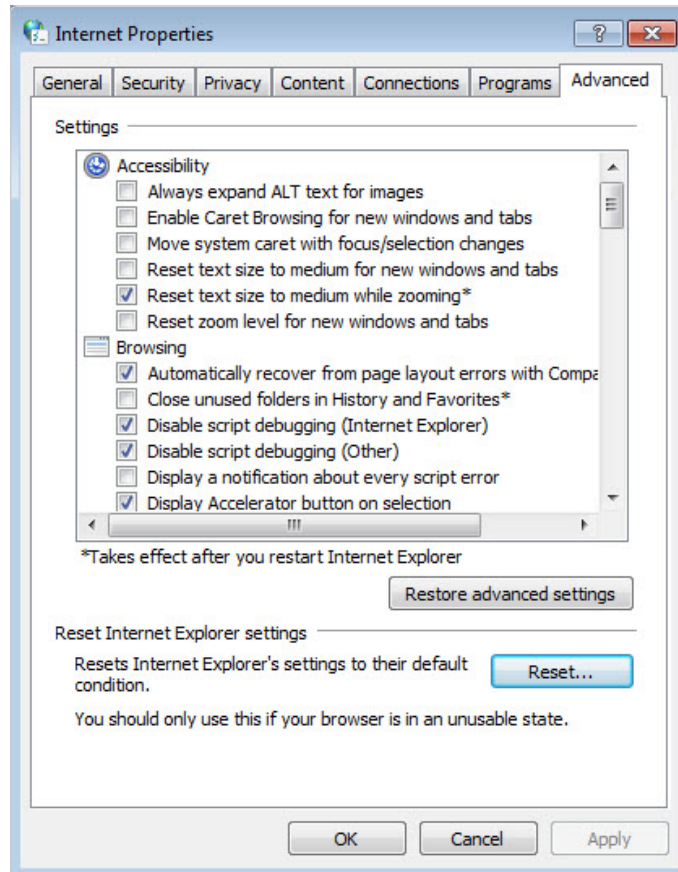
- Make sure your computer is connected to the router correctly and the corresponding LED indicator(s) light up.
- Make sure the IP address of your computer is configured as [Obtain an IP address automatically](#) and [Obtain DNS server address automatically](#).
- Make sure <http://tplinkwifi.net> or <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 the router can't be found via Bluetooth in Tether (how to reset the router)?

The router's Bluetooth will be enabled for 30 minutes following a reset to factory defaults. There are two ways to reset the router:

- With the router powered on, use a pin to press and hold the **Reset** button on the back of the router until the LED blinks.
- Log in to the web management page of the router. Go to **Advanced > System > Backup & Restore**, and click **FACTORY RESTORE**. The router will reset and restart automatically.

Q5. What should I do if I cannot 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 **Network Map** or **Advanced > Status** to check internet status.

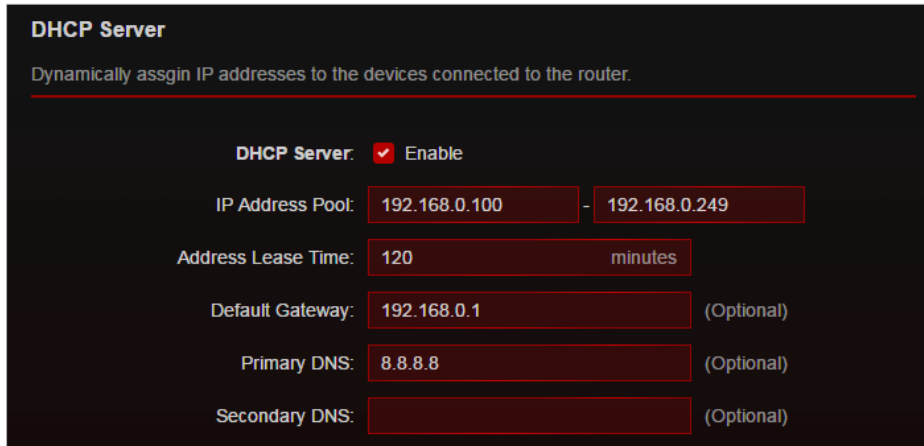
If the IP Address is a valid one, please try the methods below and try again:

- 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: 192.168.0.100 - 192.168.0.249

Address Lease Time: 120 minutes

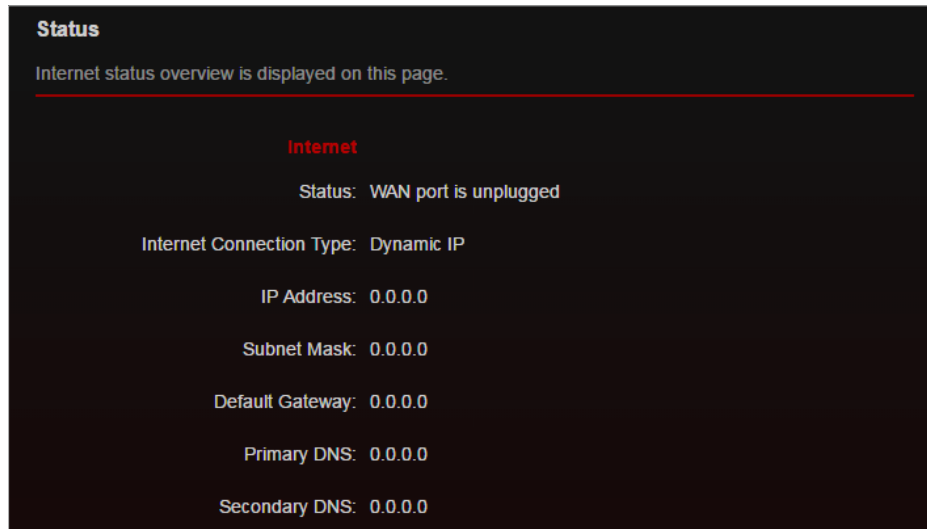
Default Gateway: 192.168.0.1 (Optional)

Primary DNS: 8.8.8.8 (Optional)

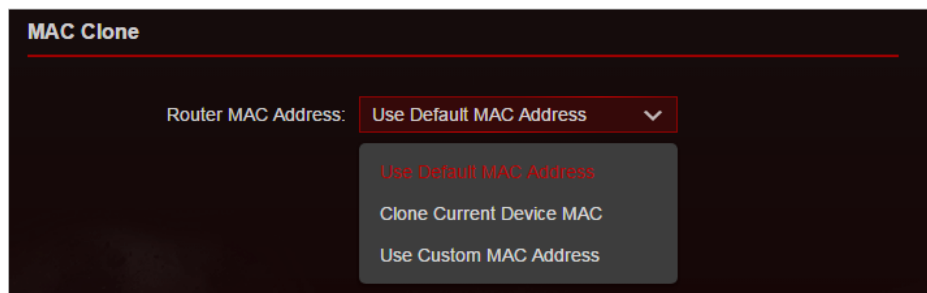
Secondary DNS: (Optional)

- 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:



- 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:**

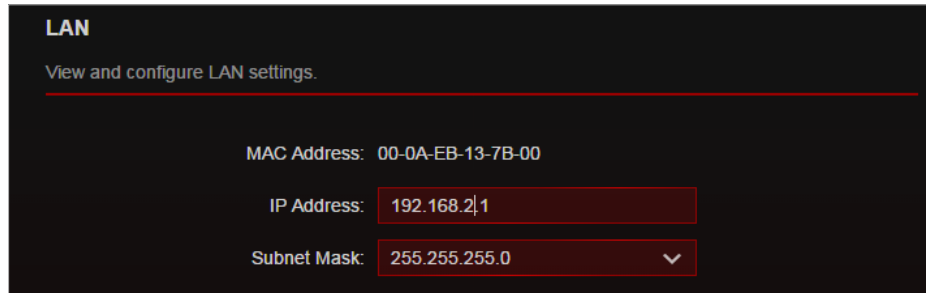
- Some ISP will register the MAC address of your computer when you access the internet for the first time through their Cable modem, if you add a router into your network to share your internet connection, the ISP will not accept it as the MAC address is changed, so we need to clone your computer's MAC 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](#).



LAN

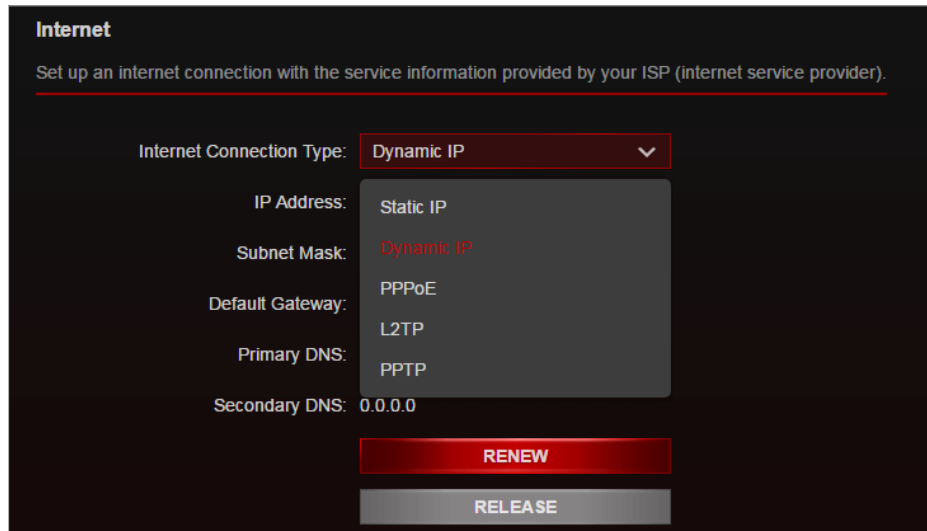
View and configure LAN settings.

MAC Address: 00-0A-EB-13-7B-00

IP Address: 192.168.2.1

Subnet Mask: 255.255.255.0

- 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](#).



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.

Q6. What should I do if I cannot find my wireless network or I cannot connect the wireless network?

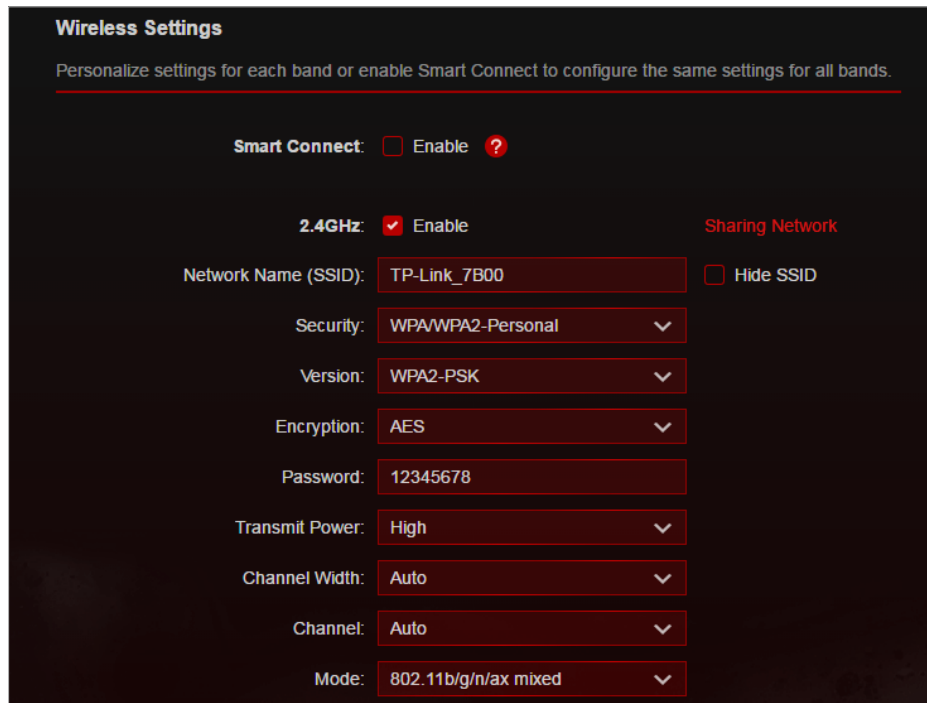
If you fail to find any wireless network, please follow the steps below:

- 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](#).

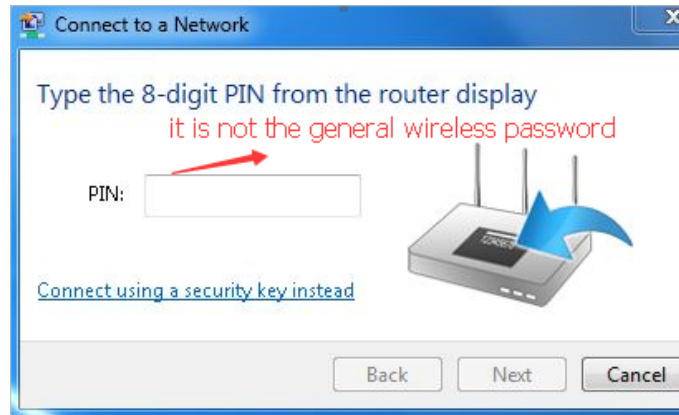
If you can find other wireless network except your own, please follow the steps below:

- 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 [Advanced](#) > [Wireless](#) > [Wireless Settings](#), and check the wireless settings. Double check your Wireless Network Name and SSID is not hidden.



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: AX11000 Tri-Band Wi-Fi 6 Gaming Router

Model Number: Archer AX11000

Component Name	Model
I.T.E. Power Supply	S065PQ1200500

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 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter."

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: 2022.8.30

FCC compliance information statement

Product Name: I.T.E. Power Supply

Model Number: S065PQ1200500

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: 2022.8.30

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)

2402 MHz -2480 MHz(20dBm)

2412 MHz -2472 MHz(20dBm)

5180MHz—5240MHz(23dBm)

5250 MHz -5350 MHz(23dBm)

5470 MHz -5725 MHz(30dBm)

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.

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/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 is used at 20 cm from your body.

National Restrictions

Attention: This device may only be used indoors in all EU member states, EFTA countries and Northern Ireland.

	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>

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.

This radio transmitter (IC: 8853A-AX11000/Model: Archer AX11000) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list below, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio (IC: 8853A-AX11000/Model: Archer AX11000) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste ci-dessous et dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

Antenna	8 external antennas 2.0dBi@2.4-2.5GHz, 3.0dBi@5.15-5.85GHz
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Caution:

1. 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;
2. For devices with detachable antenna(s), the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit;
3. For devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-topoint operation as appropriate; and

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

Avertissement:

1. 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;
2. Le gain maximal d'antenne permis pour les dispositifs avec antenne(s) amovible(s) utilisant les bandes 5250-5350 MHz et 5470-5725 MHz doit se conformer à la limitation P.I.R.E.;
3. Le gain maximal d'antenne permis pour les dispositifs avec antenne(s) amovible(s) utilisant la bande 5725-5850 MHz doit se conformer à la limitation

P.I.R.E spécifiée pour l'exploitation point à point et non point à point, selon le cas.

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 20cm 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 20 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!

依據 低功率電波輻射性電機管理辦法

第十二條 經型式認證合格之低功率射頻電機，非經許可，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或功能。

第十四條 低功率射頻電機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。前項合法通信，指依電信規定作業之無線電信。低功率射頻電機需忍受合法通信或工業、科學以及醫療用電波輻射性電機設備之干擾。

4.7.9.1應避免影響附近雷達系統之操作。

4.7.9.2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。
- 請不要私自打開機殼，不要嘗試自行維修本產品，請由授權的專業人士進行此項工作。

限用物質含有情況標示聲明書

設備名稱：AX5400 Wi-Fi 6 Router Equipment name		型號（型式）：Archer AX73 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	○	○	○	○	○	○
<p>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.</p> <p>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.</p> <p>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.</p>						



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.
- 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

Symbol	Explanation
	DC voltage
	AC voltage
	Class II equipment
	Polarity of output terminals
	Energy efficiency Marking
	Indoor use only
	Caution
	Operator's manual
	<p>RECYCLING</p> <p>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.</p> <p>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.</p>