User Guide

AXE5400 Tri-Band Wi-Fi 6E Router
Archer AXE5400

1910013450 REV1.0.0

Contents

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

More Info

The latest software, management app and utility can be found at Download Center 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 page at https://www.tp-link.com/support.

* Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput 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 Wi-Fi 6 (802.11ax), Wi-Fi 6E, and features including OFDMA, 1024-QAM, and HE160 require clients to also support the corresponding features. Seven 160MHz channels may not be all available in the 6 GHz band in some regions/countries due to regulatory restrictions.

* Saving clients' battery power requires clients to also support the 802.11ax Wi-Fi standard. Actual power reduction may vary as a result of network conditions, client limitations, and environmental factors.

* HomeShield includes the Free Basic Plan. Fees apply for the Pro Plan. Visit **tp-link.com/homeshield** for more information.

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

* This router may not support all the mandatory features as ratified in Draft 3.0 of IEEE 802.11ax specification.

* Further software upgrades for feature availability may be required.

Chapter 1

Get to Know About Your Router

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

It chapter contains the following sections:

- Product Overview
- Appearance

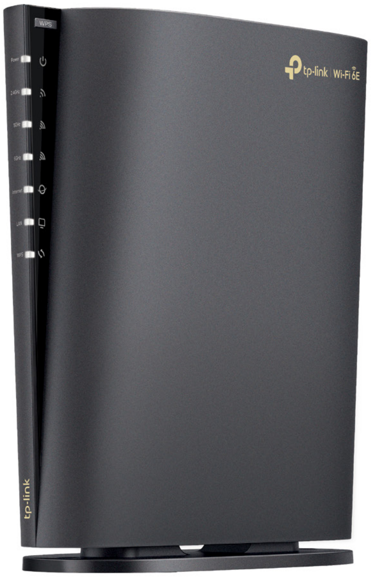
1. 1. Product Overview

TP-Link AXE router, with the 802.11ax Wi-Fi technology and the brand-new 6 GHz band, achieves Wi-Fi performance at its ultimate level. The revolutionary combination of OFDMA and 1024QAM improve throughput by 4 times and dramatically increase capacity and efficiency of the whole network. Access to the 6 GHz band brings more bandwidth, faster speeds, and lower latency, opening up resources for future innovations like in AR/VR, 8K streaming and more.

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

1. 2. Appearance

1. 2. 1. Top Panel



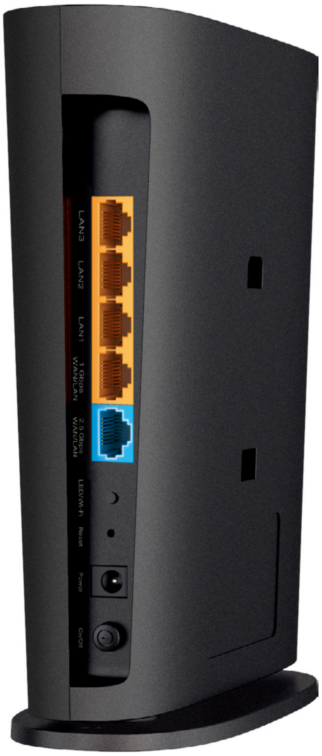
The router's LEDs (view from up to down) are located on the front. You can check the router's working status by following the LED Explanation table.

LED Explanation

Name	Status	Indication
Power	On	The system has started up successfully.
	Flashing	The system is starting up, updating the firmware, or establishing WPS connection. Do not disconnect or power off your router.
	Off	Power is off.

Name	Status	Indication
2.4 GHz	On	The 2.4 GHz wireless band is enabled.
	Off	The 2.4 GHz wireless band is disabled.
5 GHz	On	The 5 GHz wireless band is enabled.
	Off	The 5 GHz wireless band is disabled.
6 GHz	On	The 6 GHz wireless band is enabled.
	Off	The 6 GHz wireless band is disabled.
Internet	White On	Internet service is available.
	Orange On	The router's Internet port is connected, but the internet service is not available.
	Off	The router's Internet port is unplugged.
LAN	On	At least one powered-on device is connected to the router's Ethernet port.
	Off	No powered-on device is connected to the router's Ethernet port.
WPS	On/Off	This light remains on for 5 minutes when a WPS connection is established, then turns off.
	Blinking	WPS connection is in progress. This may take up to 2 minutes.

1. 2. 2. Back Panel



The following parts (view from up to down) are located on the back panel.

Item	Description
LAN Port (1-3)	For connecting your PC or other wired devices to the router.
1 Gbps WAN/LAN Port	For connecting to a DSL/Cable modem, or an Ethernet jack.
2.5 Gbps WAN/LAN Port	For connecting to a DSL/Cable modem, or an Ethernet jack.
LED/Wi-Fi	Press and hold this button for more than 2 seconds to turn on or off the wireless function of your router. Press the LED button for 1 second to turn on or off the LED of your router.
Reset Button	Press and hold the button for about 6 seconds until the Power LED blinks to reset the router to its factory default settings.
Power Port	For connecting the router to a power socket via the provided power adapter.
Power On/Off Button	Press this button to power on or off the router.

Chapter 2

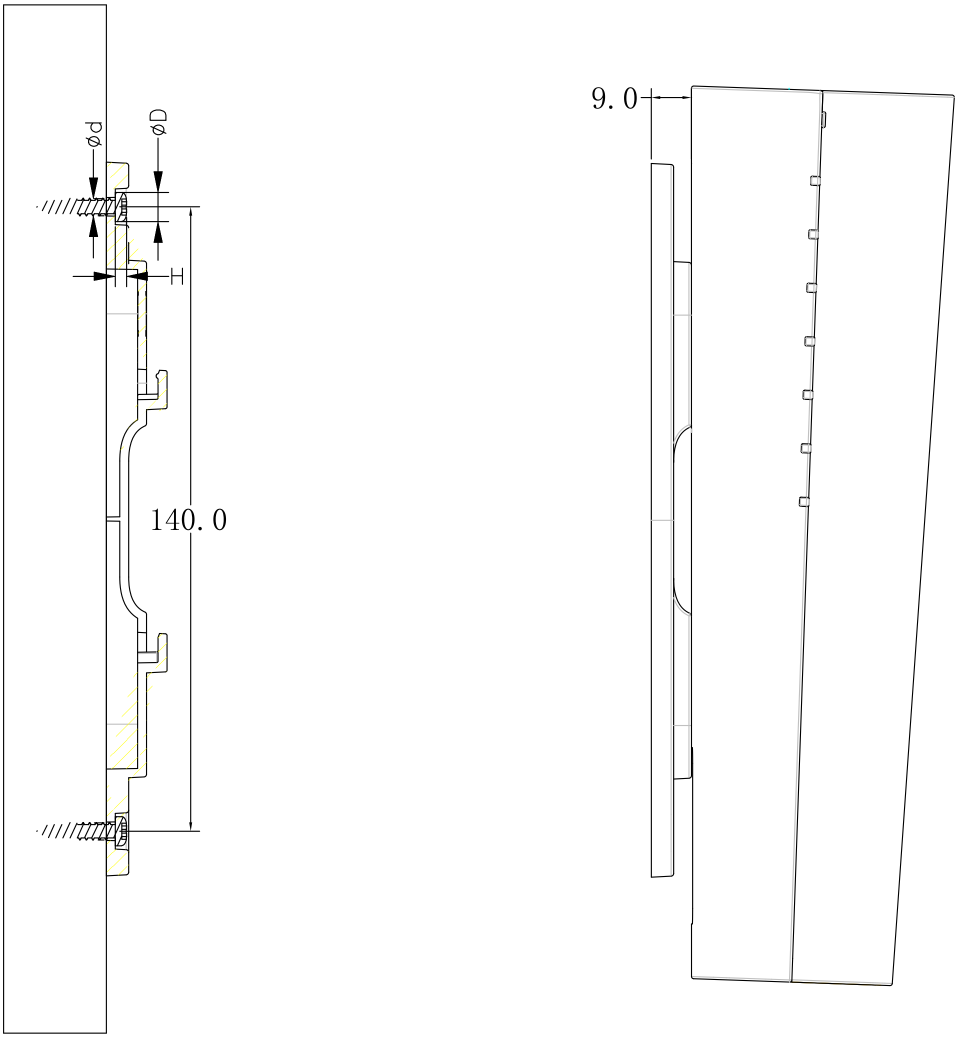
Connect the Hardware

This chapter contains the following sections:

- Position Your Router
- Connect Your Router

2. 1. Position Your Router

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



Note:

The diameter of the screw head, 4.67mm<D<8mm, and the distance of two screws is 140mm. The screw that project from the wall need around 5mm based, and the length of the screw need to be at least 20mm to withstand the weight of the product.

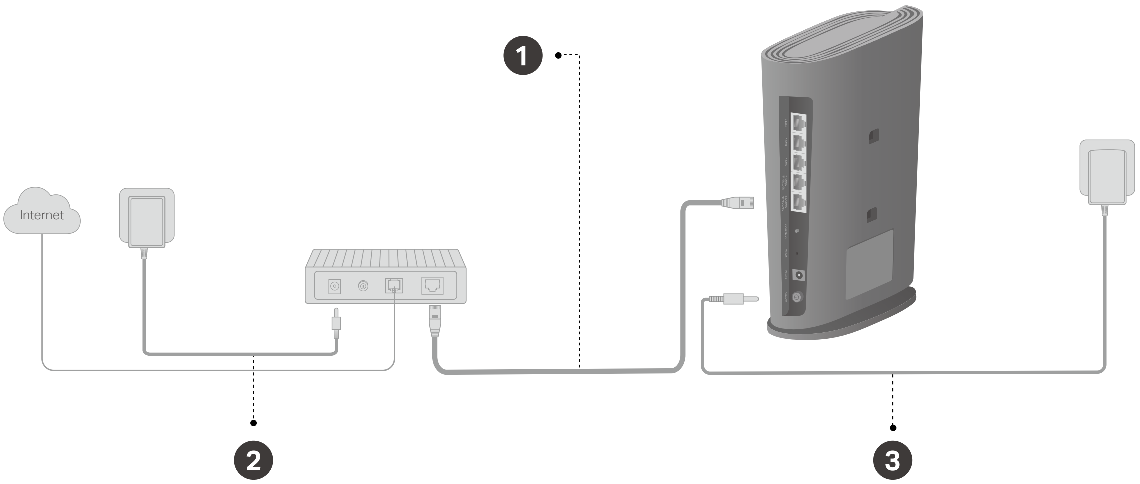
2. 2. Connect Your Router

Before you start:

1) Turn off your modem, if any, and remove the backup battery if it has one.

2) Place the router horizontally and orient the antennas vertically.

If your internet comes from an Ethernet outlet instead of a DSL / Cable / Satellite modem, connect the router's WAN port to it, then follow steps 3 and 4 to complete the hardware connection.



1. Connect the **powered-off modem** to the router's **2.5 Gbps WAN/LAN 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 hardware connection is correct by checking the following LEDs.

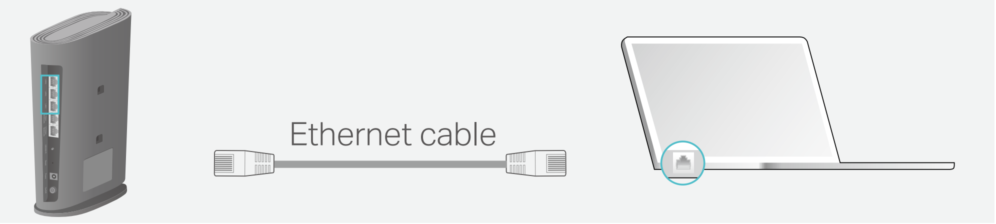
Power	2.4GHz	5GHz	6GHz	Internet
On	On	On	On	On

Note: If the 2.4 GHz, 5 GHz, and 6 GHz LEDs are off, press and hold the Wi-Fi button on the back for more than 2 seconds. These LEDs should turn solid on.

5. Connect your computer to the router.

- **Method 1: Wired**

Turn off the Wi-Fi on your computer and connect the devices as shown below.

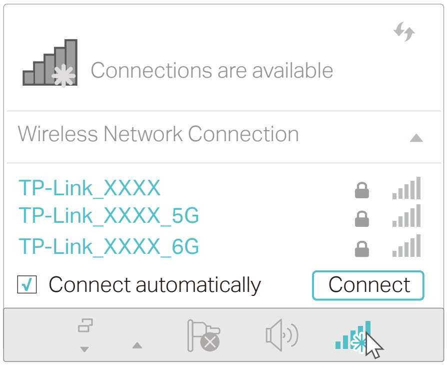


- **Method 2: Wirelessly**

1) Find the SSIDs (Network Names) and Wireless Password printed on the label at the bottom of the router.

2) Click the network icon of your computer or go to Wi-Fi Settings of your smart device, and then select the SSID to join the network.

Computer



Connections are available

Wireless Network Connection

TP-Link_XXXX

TP-Link_XXXX_5G

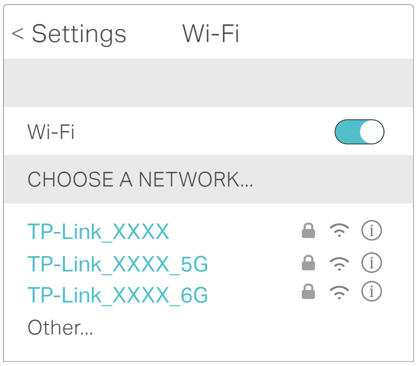
TP-Link_XXXX_6G

☑ Connect automatically

Connect

OR

Smart Device



< Settings Wi-Fi

Wi-Fi

CHOOSE A NETWORK...

TP-Link_XXXX

TP-Link_XXXX_5G

TP-Link_XXXX_6G

Other...

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

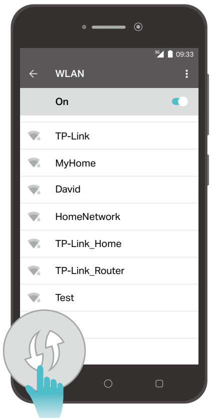
Wireless devices that support WPS, including Android phones, tablets, and most USB network cards, can be connected to your router through this method.

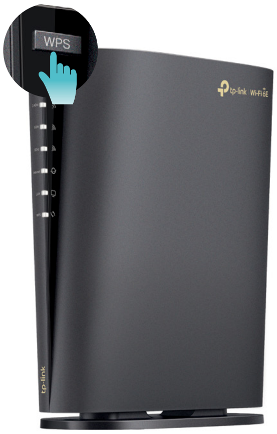
Note:

- 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 WPS button on your router.





Chapter 3

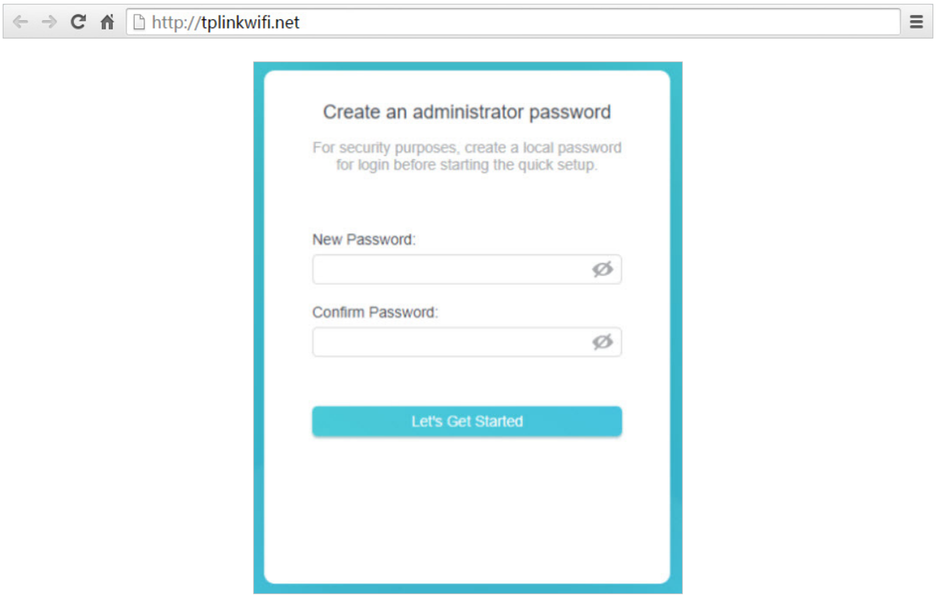
Log In to Your Router

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.



http://tplinkwifi.net

Create an administrator password

For security purposes, create a local password for login before starting the quick setup.

New Password:

Confirm Password:

Chapter 4

Set Up Internet Connection

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

It contains the following sections:

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

4. 1. Use Quick Setup Wizard

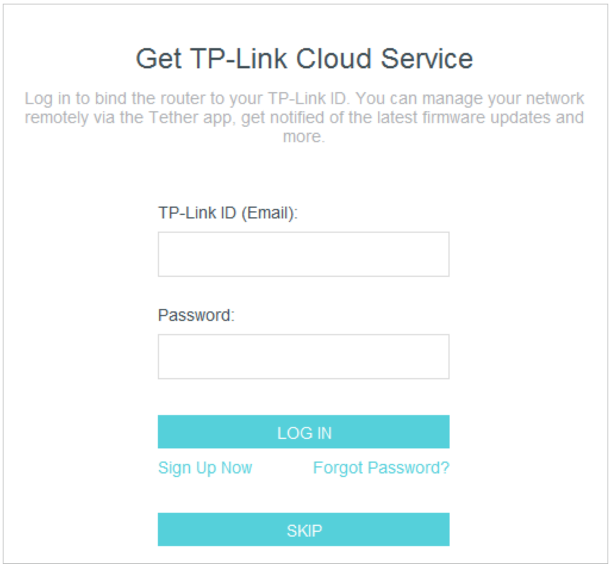
The Quick Setup Wizard will guide you to set up your router.

Tips:

If you need the IPv6 internet connection, please refer to the section of Set Up an IPv6 Internet Connection.

Follow the steps below to set up your router.

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



Get TP-Link Cloud Service

Log in to bind the router to your TP-Link ID. You can manage your network remotely via the Tether app, get notified of the latest firmware updates and more.

TP-Link ID (Email):

Password:

Note:

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

4. 2. Quick Setup Via TP-Link Tether App

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

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

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

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

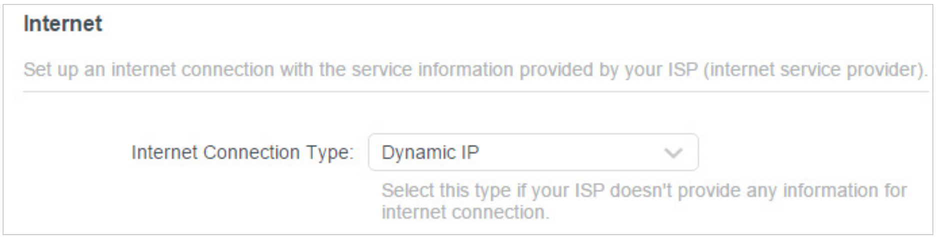
3. Tap the **+** button and select Wireless Router > Standard Routers. Follow the steps to complete the setup and connect to the internet.
4. Connect your devices to the newly configured wireless networks of the router and enjoy the internet!

4. 3. Manually Set Up Your Internet Connection

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

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

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



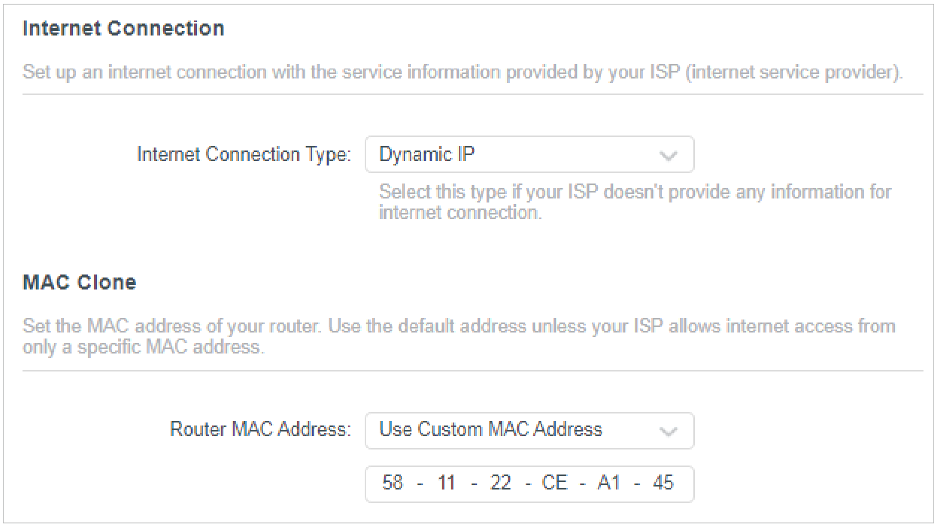
Internet

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

Internet Connection Type: Dynamic IP

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

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 Connection

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

Internet Connection Type: Dynamic IP

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

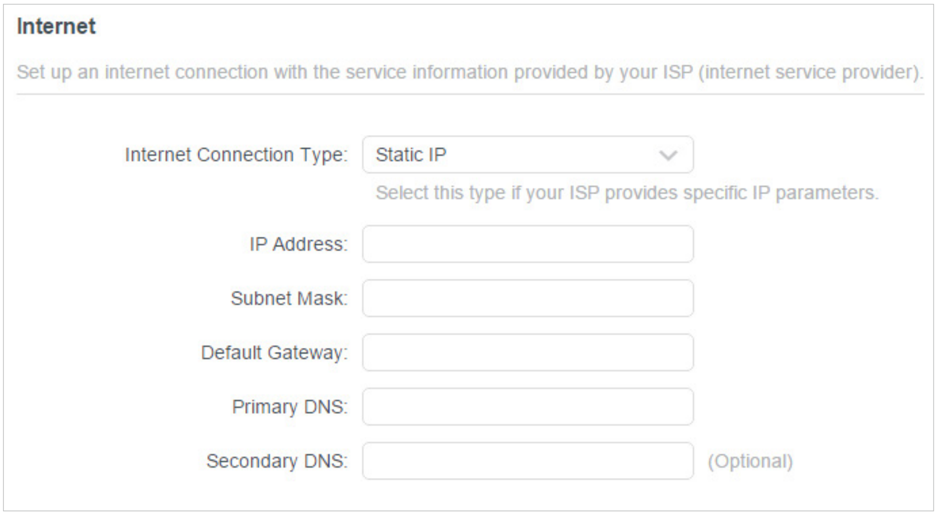
MAC Clone

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

Router MAC Address: Use Custom MAC Address

58 - 11 - 22 - CE - A1 - 45

2) If you choose Static IP, enter the information provided by your ISP in the corresponding fields.



Internet

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

Internet Connection Type: Static IP

Select this type if your ISP provides specific IP parameters.

IP Address:

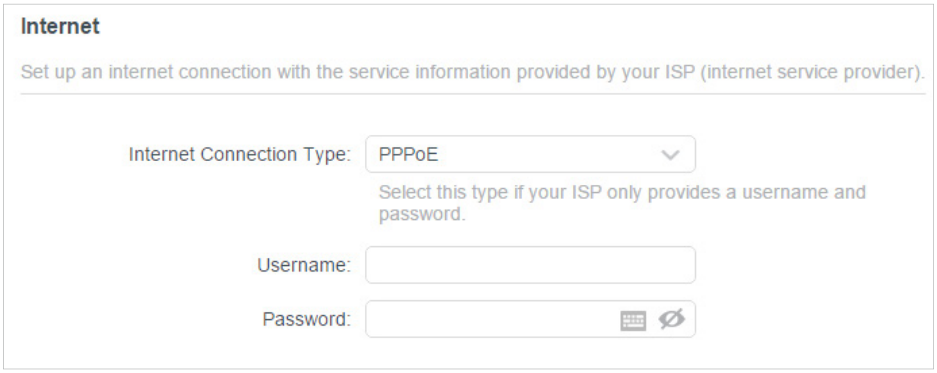
Subnet Mask:

Default Gateway:

Primary DNS:

Secondary DNS: (Optional)

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



Internet

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

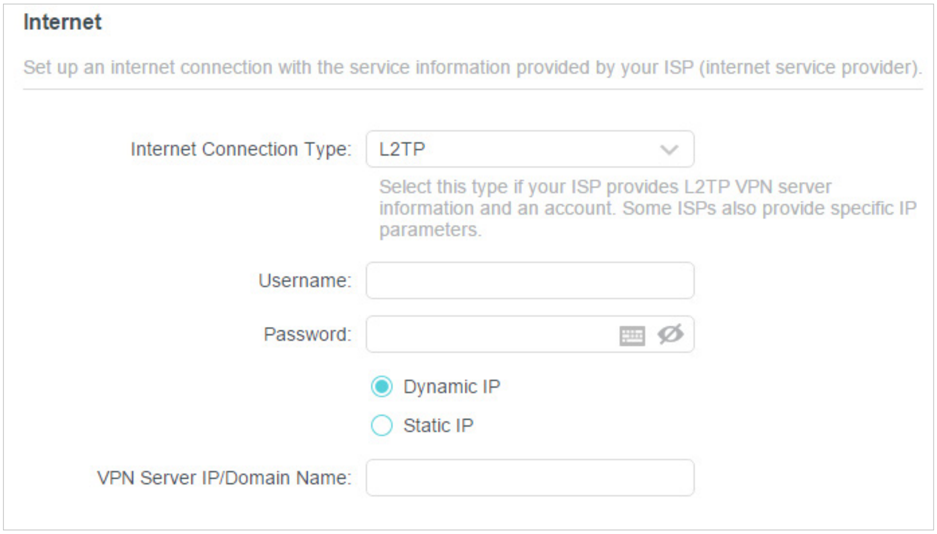
Internet Connection Type: PPPoE

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

Username:

Password:

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



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:

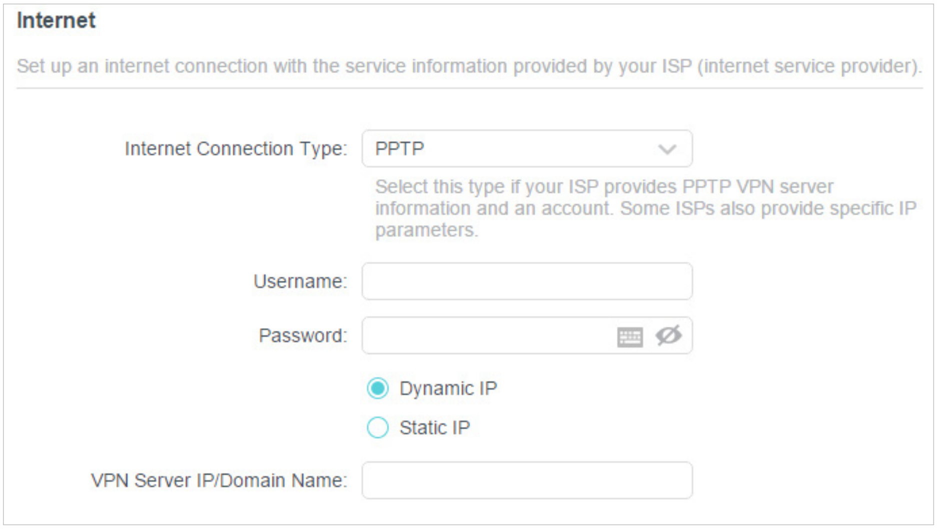
Password:

● Dynamic IP

○ Static IP

VPN Server IP/Domain Name:

5) If you choose PPTP, enter the username and password, and choose the Secondary Connection 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:

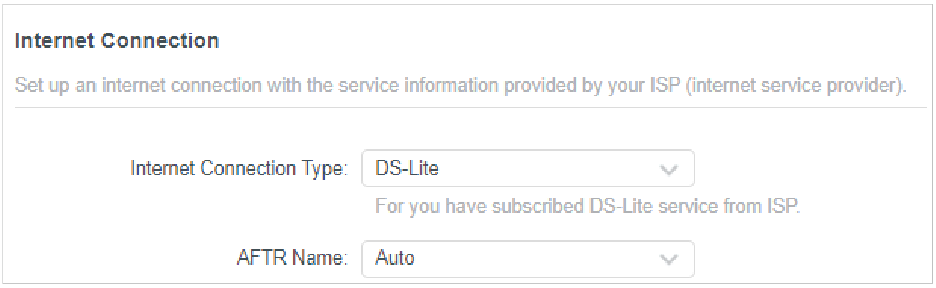
Password:

● Dynamic IP

○ Static IP

VPN Server IP/Domain Name:

6) If you choose DS-Lite, enter the AFTR Name or choose auto filled in.



Internet Connection

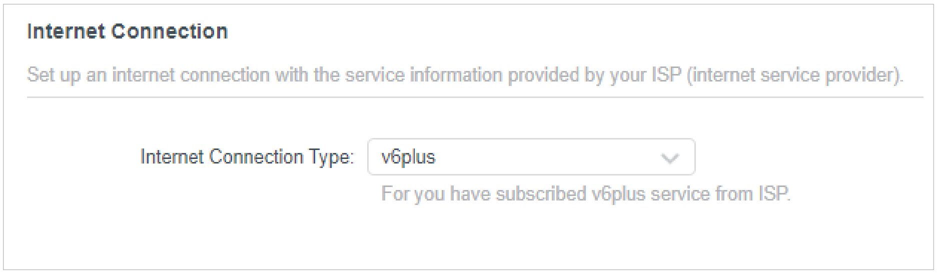
Set up an internet connection with the service information provided by your ISP (internet service provider).

Internet Connection Type: DS-Lite

For you have subscribed DS-Lite service from ISP.

AFTR Name: Auto

7) Choose v6plus if you have subscribed v6plus service from your ISP.



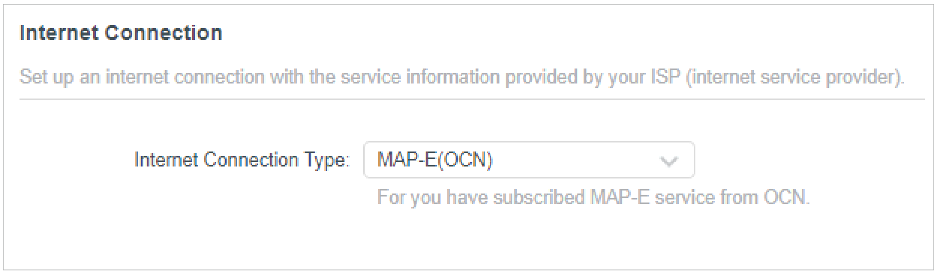
Internet Connection

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

Internet Connection Type: v6plus

For you have subscribed v6plus service from ISP.

8) Choose MAP-E(OCN) if you have subscribed MAP-E service from your ISP.



Internet Connection

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

Internet Connection Type: MAP-E(OCN)

For you have subscribed MAP-E service from OCN.

5. Click SAVE.

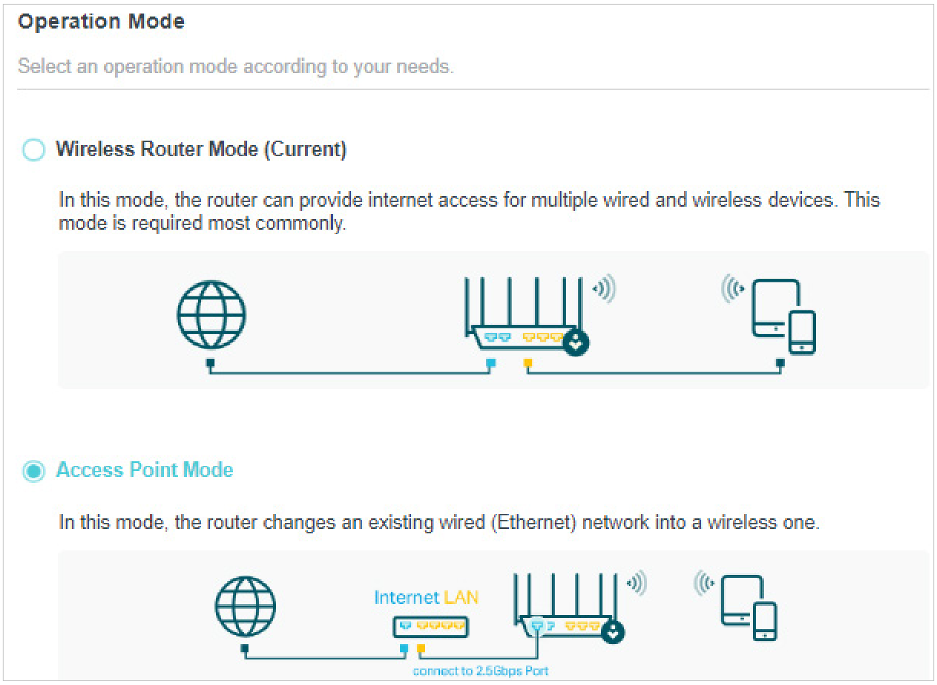
Tips:

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

4. 4. Set Up the Router as an Access Point

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

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



Operation Mode

Select an operation mode according to your needs.

○ Wireless Router Mode (Current)

In this mode, the router can provide internet access for multiple wired and wireless devices. This mode is required most commonly.

● Access Point Mode

In this mode, the router changes an existing wired (Ethernet) network into a wireless one.

3. After rebooting, connect the router to your existing wired router via an Ethernet cable.

4. Log in again to the web management page http://tplinkwifi.net, and go to Advanced > Quick Setup.

5. Configure your wireless settings and click Next.

6. Confirm the information and click SAVE. Now, you can enjoy Wi-Fi.

Tips:

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

4. 5. Set Up an IPv6 Internet Connection

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

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

2. Go to Advanced > IPv6.

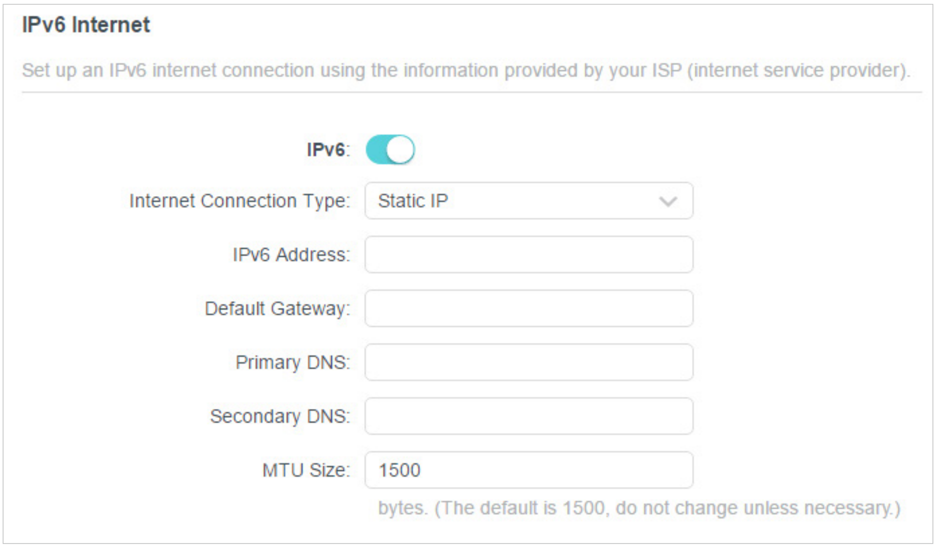
3. Enable IPv6 and select the internet connection type provided by your ISP.

Tips:

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

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

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



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:

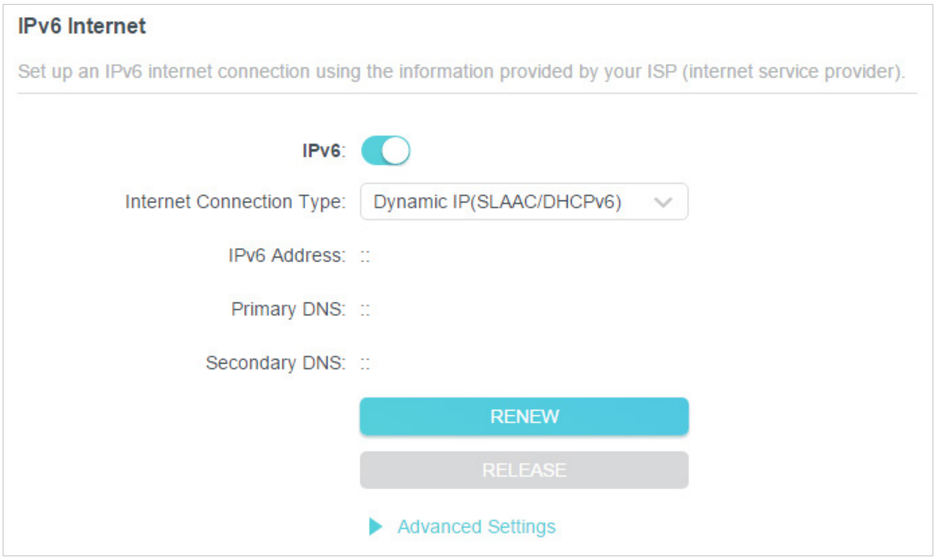
Primary DNS:

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 and then click Renew.



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: ::

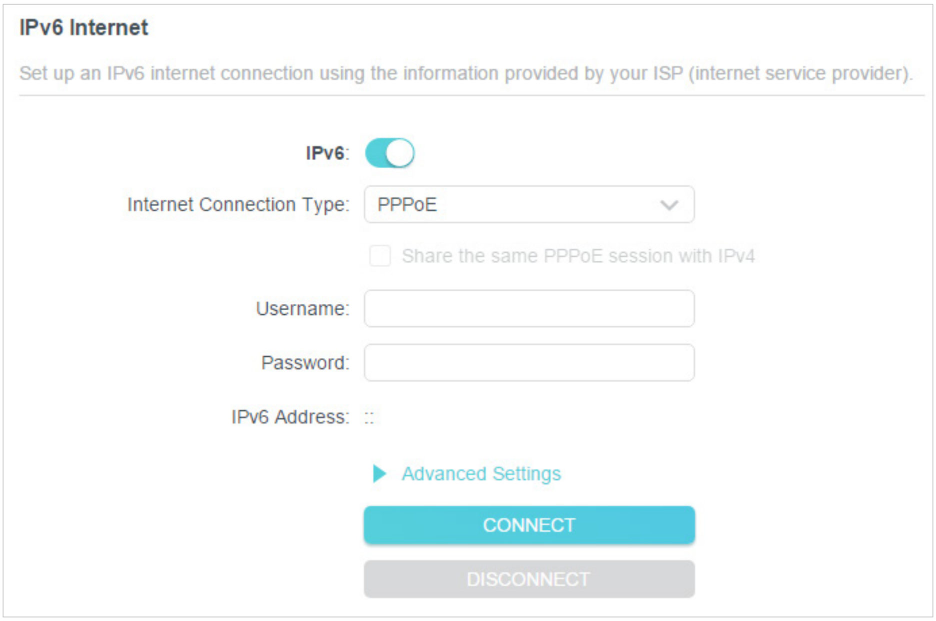
Primary DNS: ::

Secondary DNS: ::

3) PPPoE: By default, the router uses the IPv4 account to connect to the IPv6 server. Click Advanced to input further information if your ISP requires. Click SAVE and then click Connect.

Note:

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



IPv6 Internet

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

IPv6: ●

Internet Connection Type: PPPoE

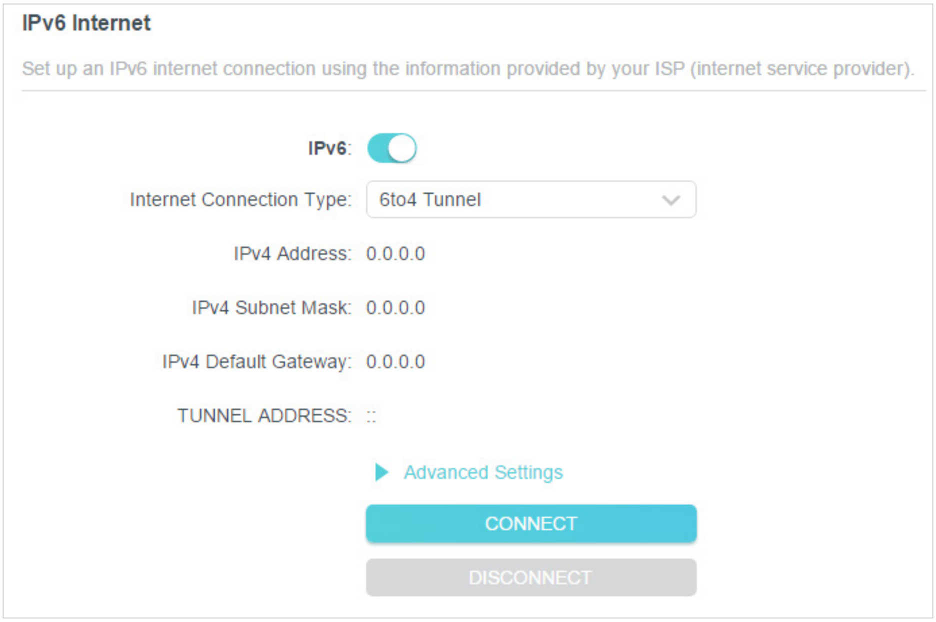
□ Share the same PPPoE session with IPv4

Username:

Password:

IPv6 Address: ::

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

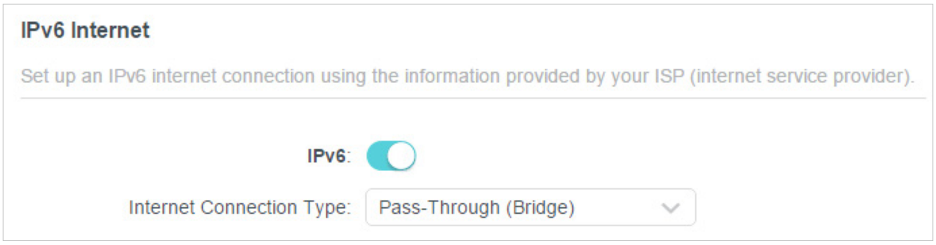
IPv4 Address: 0.0.0.0

IPv4 Subnet Mask: 0.0.0.0

IPv4 Default Gateway: 0.0.0.0

TUNNEL ADDRESS: ::

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



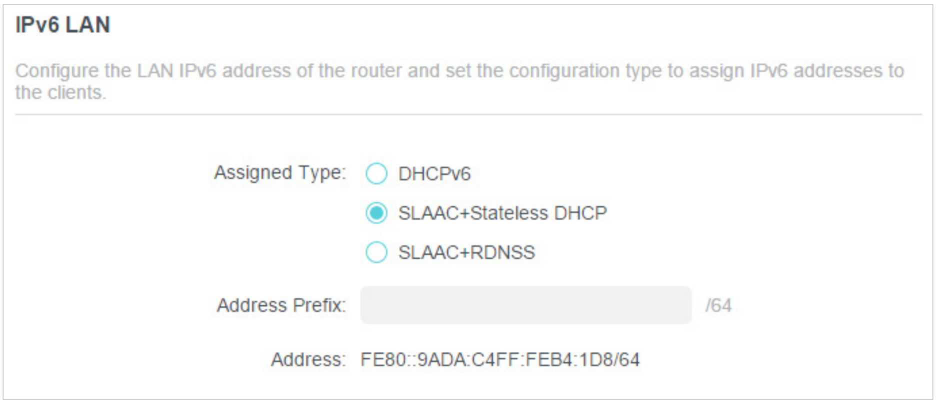
IPv6 Internet

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

IPv6: ●

Internet Connection Type: Pass-Through (Bridge)

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.



IPv6 LAN

Configure the LAN IPv6 address of the router and set the configuration type to assign IPv6 addresses to the clients.

Assigned Type: ○ DHCPv6
● SLAAC+Stateless DHCP
○ SLAAC+RDNSS

Address Prefix: /64

Address: FE80::9ADA:C4FF:FEB4:1D8/64

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.

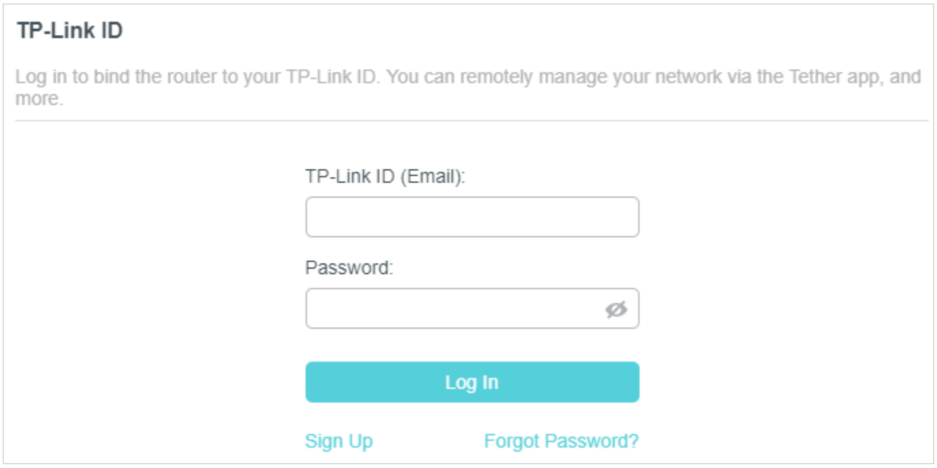
This chapter introduces how to register a new TP-Link ID, bind or unbind TP-Link IDs to manage your router, and the Tether app with which you can manage your home network no matter where you may find yourself.

It contains the following sections:

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.



TP-Link ID

Log in to bind the router to your TP-Link ID. You can remotely manage your network via the Tether app, and more.

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

Note:

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

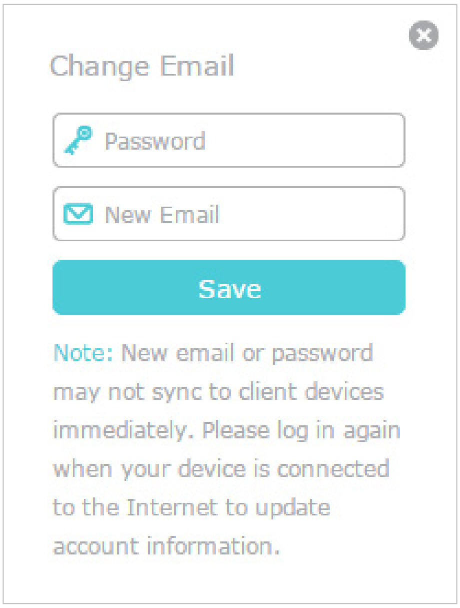
5. 2. Change Your TP-Link ID Information

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.



Change Email

Password

New Email

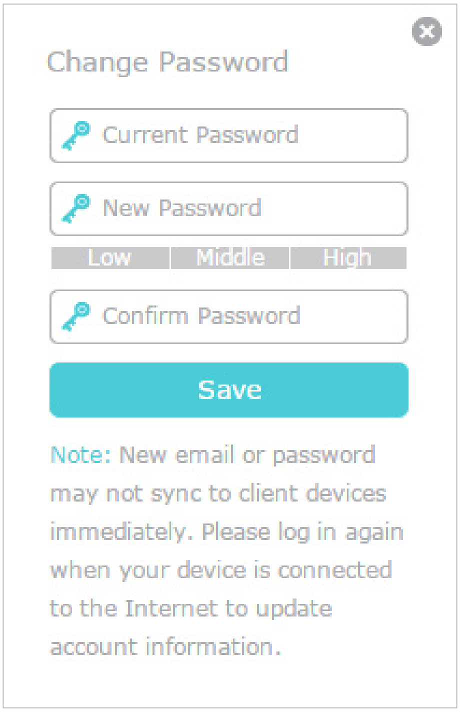
Save

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.



Change Password

Current Password

New Password

Low | Middle | High

Confirm Password

Save

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

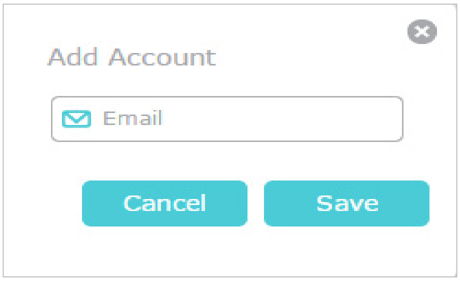
The TP-Link ID used to log in to the router for the first time will be automatically bound as the Admin account. An admin account can add or remove other TP-Link IDs to or from the same router as Users. All accounts can monitor and manage the router locally or remotely, but user accounts cannot:

- 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.

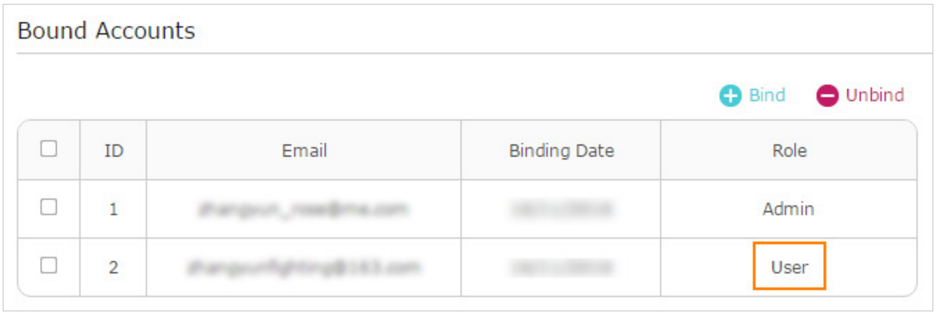
5. 3. 1. Add TP-Link ID to Manage the Router

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.



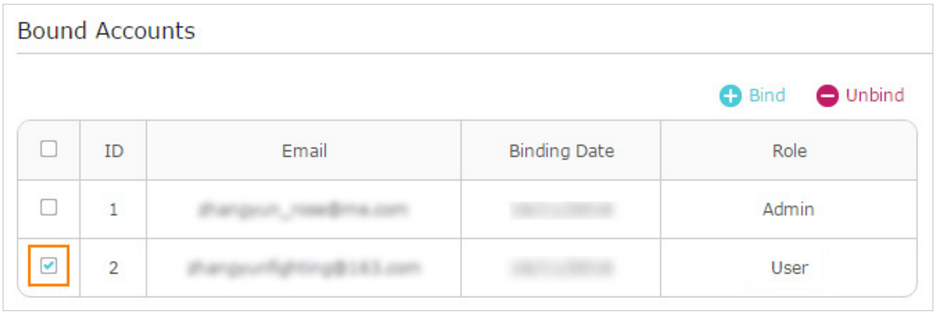
4. The new TP-Link ID will be displayed in the Bound Accounts table as a User.


Bound Accounts

□	ID	Email	Binding Date	Role
□	1	[redacted]	[redacted]	Admin
□	2	[redacted]	[redacted]	User

5. 3. 2. Remove TP-Link ID(s) from Managing the Router

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



Bound Accounts

⊕ Bind ⊖ Unbind

□	ID	Email	Binding Date	Role
□	1	[redacted]	[redacted]	Admin
☑	2	[redacted]	[redacted]	User

5. 4. Manage the Router via the TP-Link Tether App

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

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

Download on the App Store
GET IT ON Google Play
OR

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

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

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

4. Go back to the Tether app, select the model of your router and log in with the password you set for the router.

5. Manage your router as needed.

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

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

Chapter 6

Wireless Settings

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

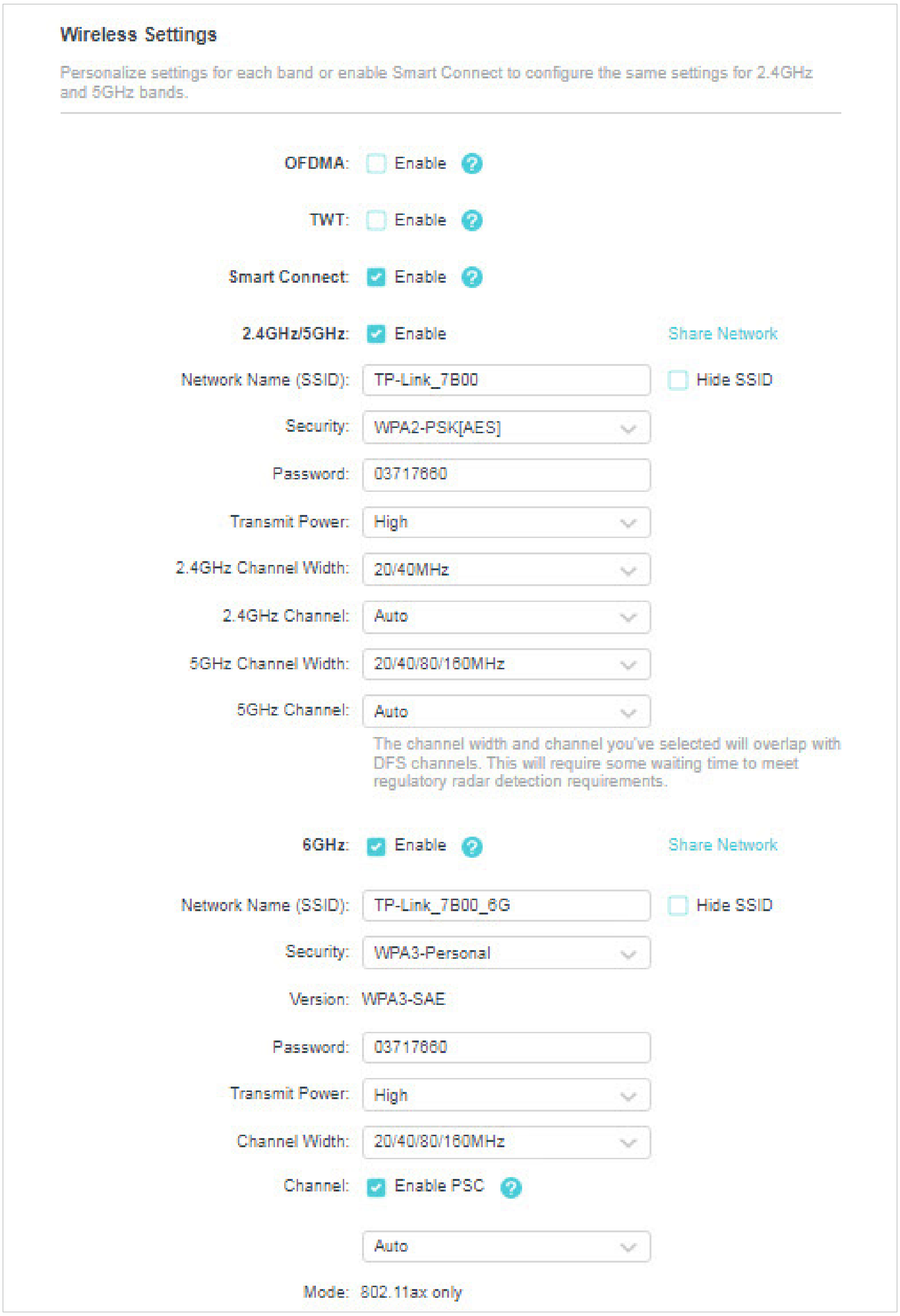
It contains the following sections:

- Specify Wireless Settings
- Schedule Your Wireless Function
- Use WPS for Wireless Connection
- Advanced Wireless Settings

6. 1. Specify Wireless Settings

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

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



Wireless Settings

Personalize settings for each band or enable Smart Connect to configure the same settings for 2.4GHz and 5GHz bands.

OFDMA: □ Enable

TWT: □ Enable

Smart Connect: ☑ Enable

2.4GHz/5GHz: ☑ Enable Share Network

Network Name (SSID): TP-Link_7B00 □ Hide SSID

Security: WPA2-PSK[AES]

Password: 03717660

Transmit Power: High

2.4GHz Channel Width: 20/40MHz

2.4GHz Channel: Auto

5GHz Channel Width: 20/40/80/160MHz

5GHz Channel: Auto

The channel width and channel you've selected will overlap with DFS channels. This will require some waiting time to meet regulatory radar detection requirements.

6GHz: ☑ Enable Share Network

Network Name (SSID): TP-Link_7B00_6G □ Hide SSID

Security: WPA3-Personal

Version: WPA3-SAE

Password: 03717660

Transmit Power: High

Channel Width: 20/40/80/160MHz

Channel: ☑ Enable PSC

Auto

Mode: 802.11ax only

- **To enable or disable OFDMA:**

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

1. Go to Advanced > Wireless > Wireless Settings.

2. Enable OFDMA.

- **To enable or disable TWT:**

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

1. Go to Advanced > Wireless > Wireless Settings.

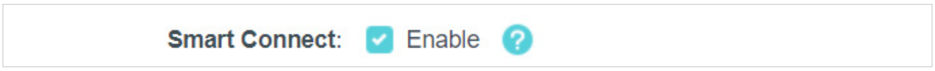
2. Enable TWT.

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

Smart Connect combines the 2.4 GHz and 5 GHz bands and assigns your devices between them to balance network demands, while leaving the brand-new 6 GHz band exclusive for your Wi-Fi 6E devices to unleash the most out of the latest Wi-Fi.

1. Go to Advanced > Wireless > Wireless Settings.

2. Enable Smart Connect.



Smart Connect: ☑ Enable

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

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

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

2. The wireless bands are enabled by default. If you want to disable a wireless band, just deselect its Enable checkbox.

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

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

2. Create a new SSID in Network Name (SSID) and customize the password for the network in Password. The value is case-sensitive.

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

- **To hide SSID:**

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

- **To change the security option:**

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

- **To change the transmit power:**

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

- **To change channel settings:**

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

   For the 6 GHz network, you can select the Enable PSC checkbox. When PSC (Preferred Scanning Channel) is enabled, only channels with higher connectivity will be reserved to ensure 6 GHz device connections.

- **To change the transmission mode:**

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

   The 6 GHz network only supports 802.11ax mode, which cannot be changed.

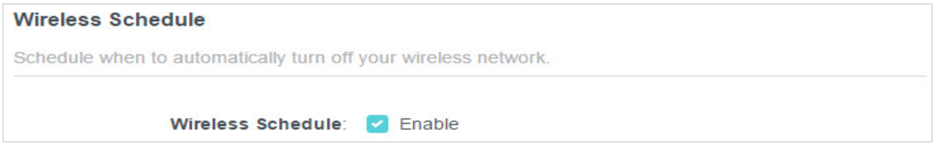
6. 2. Schedule Your Wireless Function

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

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

2. Go to Advanced > Wireless > Wireless Schedule.

3. Enable the Wireless Schedule feature.

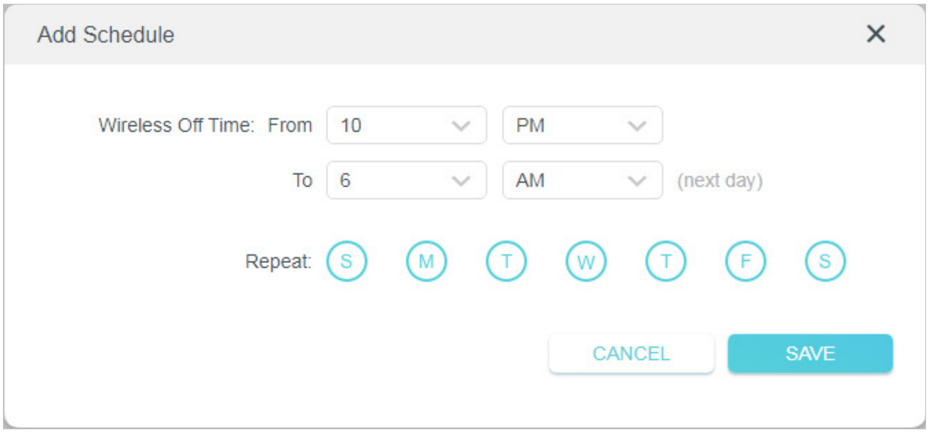


Wireless Schedule

Schedule when to automatically turn off your wireless network.

Wireless Schedule: ☑ Enable

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



Add Schedule

Wireless Off Time: From 10 PM

To 6 AM (next day)

Repeat: S M T W T F S

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.

6. 3. Use WPS for Wireless Connection

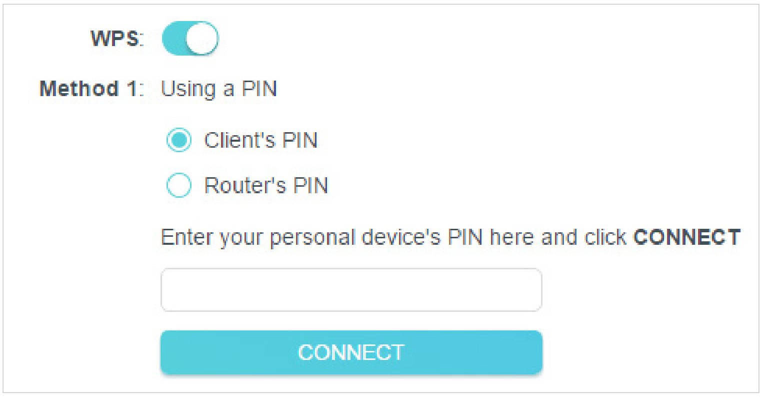
Wi-Fi Protected Setup (WPS) provides an easier approach to set up a security-protected Wi-Fi connection.

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

2. Make sure the Wi-Fi of your router is on and go to Advanced > Wireless > WPS.

6. 3. 1. Connect via the Client's PIN

Enter the PIN of your device and click Connect. Then your device will get connected to the router.



WPS:

Method 1: Using a PIN

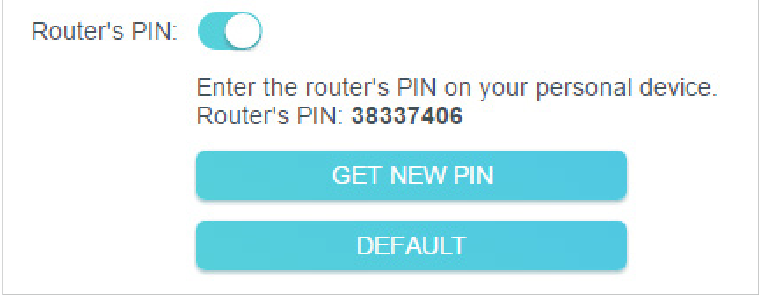
● Client's PIN

○ Router's PIN

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

6. 3. 2. Connect via the Router’s PIN

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



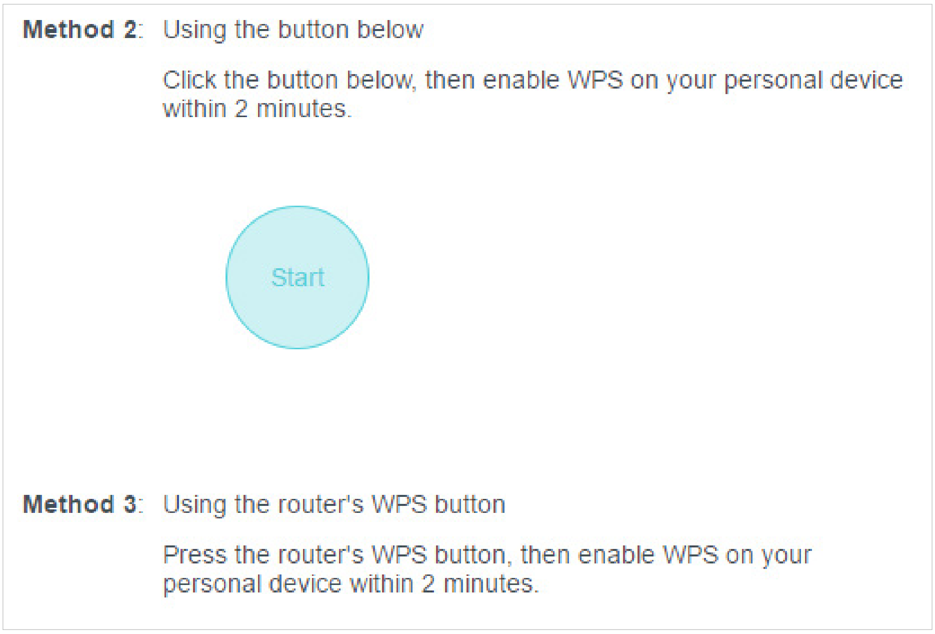
Router's PIN:

Enter the router's PIN on your personal device.
Router's PIN: **38337406**

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.

6. 3. 3. Push the WPS Button

Click Start on the screen or directly press the router’s WPS button. Within two minutes, enable WPS on your personal device. Success will appear on the screen and the WPS LED of the router should change from flashing to solid on, indicating successful WPS connection.



Method 2: Using the button below

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

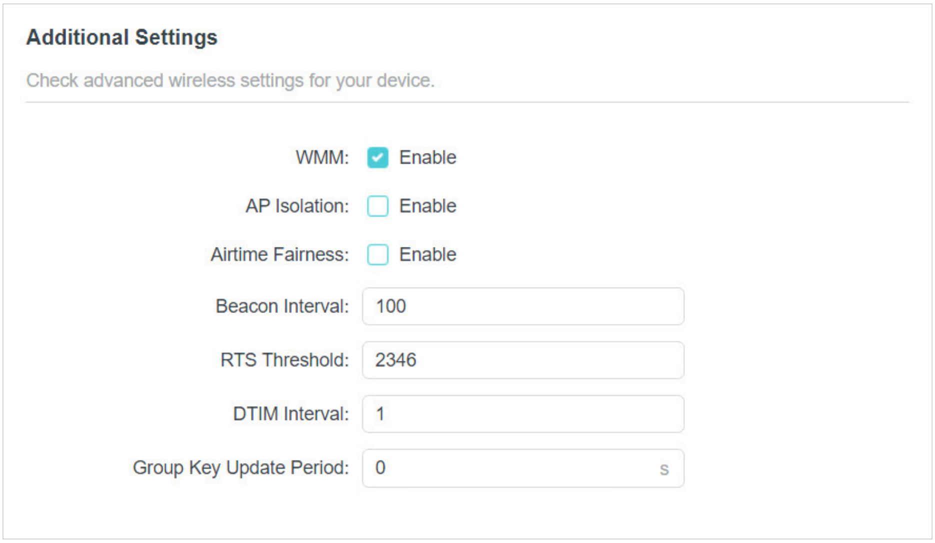
Method 3: Using the router's WPS button

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

6. 4. Advanced Wireless Settings

Check advanced wireless settings for your device.

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



Additional Settings

Check advanced wireless settings for your device.

WMM: ☑ Enable

AP Isolation: □ Enable

Airtime Fairness: □ Enable

Beacon Interval: 100

RTS Threshold: 2346

DTIM Interval: 1

Group Key Update Period: 0 s

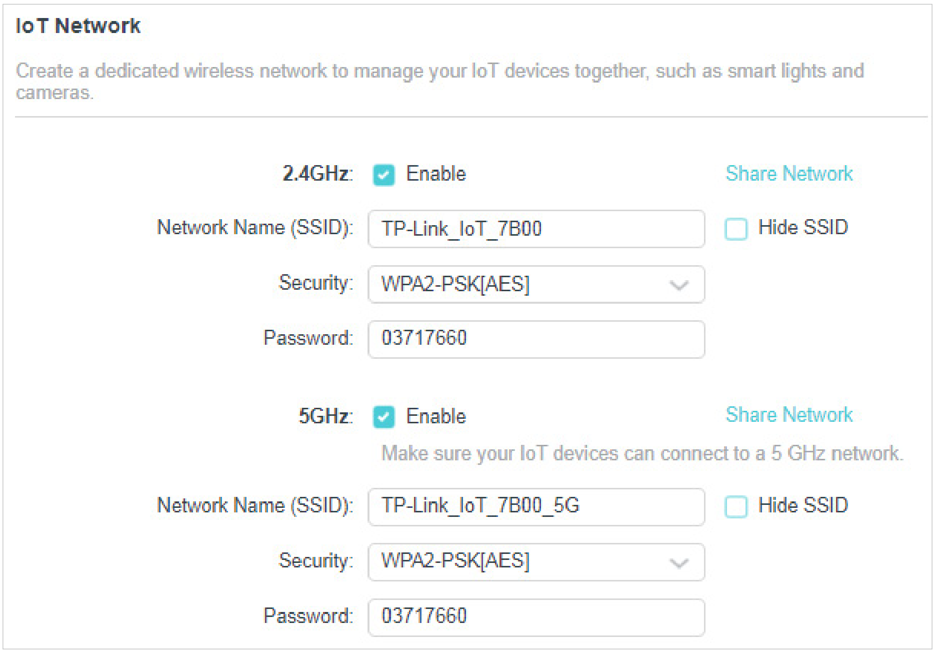
- WMM - WMM function can guarantee the packets with high-priority messages being transmitted preferentially.

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

6. 5. Create An IoT Network

Create a dedicated wireless network to manage your IoT devices together, such as smart lights and cameras.

1. Visit http://tplinkwifi.net, and log in with your TP-Link ID or the password you set for the router.
2. Go to Wireless or Advanced > Wireless > IoT Network.
3. Create an IoT network as needed.
    1) Tick the Enable checkbox for the 2.4GHz or 5GHz wireless network.
    2) Customize the SSID. Don't select Hide SSID unless you want your guests to manually input the SSID for guest network access.
    3) Select the Security type (None, WPA2-PSK[AES], WPA2-PSK[AES]+WPAPSK[TKIP], WPA3-Personal, WPA3-Personal+WPA2-PSK[AES]) and customize your own password. If None is selected, no password is needed to access your guest network.



IoT Network

Create a dedicated wireless network to manage your IoT devices together, such as smart lights and cameras.

2.4GHz: ☑ Enable

Network Name (SSID): TP-Link_IoT_7B00 □ Hide SSID

Security: WPA2-PSK[AES]

Password: 03717660

5GHz: ☑ Enable

Make sure your IoT devices can connect to a 5 GHz network.

Network Name (SSID): TP-Link_IoT_7B00_5G □ Hide SSID

Security: WPA2-PSK[AES]

Password: 03717660

Chapter 7

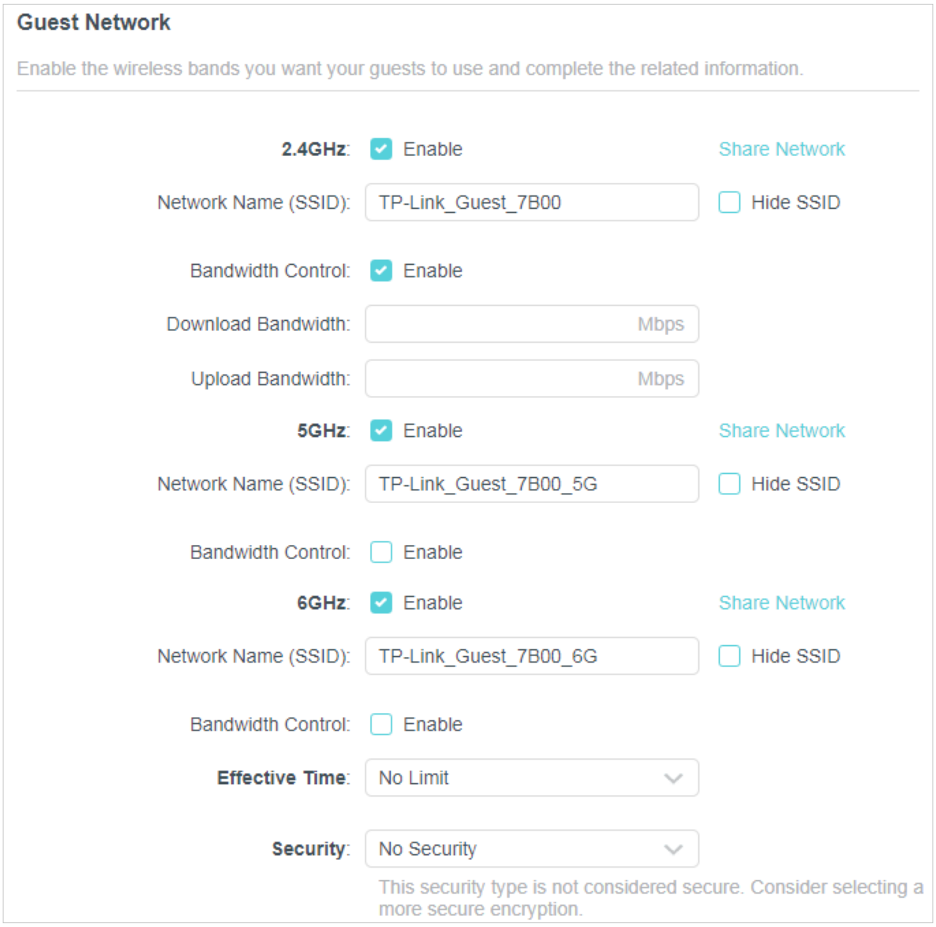
Guest Network

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:

7. 1. Create a Network for Guests

1. Visit http://tplinkwifi.net, and log in with your TP-Link ID or the password you set for the router.
2. Go to Advanced > Wireless > Guest Network or click Wireless on the top page. Locate the Guest Network section.
3. Create a guest network as needed.
   1) Tick the Enable checkbox for the 2.4GHz, 5 GHz or 6GHz wireless network.
   2) Customize the Network Name(SSID). Don't select Hide SSID unless you want your guests to manually input the SSID for guest network access.
   3) Enable Bandwidth Control for one or all networks as you needed and customize the download bandwidth and upload bandwidth for the network.
   4) Select the Effective Time (No Limit, 4 Hours, 1 Day, Custom). The guest network will be automatically turned off after the effective time. The default No Limit indicates that the guest network will always remain on.
   5) Select the Security type and customize your own password. If No security is selected, no password is needed to access your guest network.



Guest Network

Enable the wireless bands you want your guests to use and complete the related information.

2.4GHz: ☑ Enable — Share Network

Network Name (SSID): TP-Link_Guest_7B00 — □ Hide SSID

Bandwidth Control: ☑ Enable

Download Bandwidth: Mbps

Upload Bandwidth: Mbps

5GHz: ☑ Enable — Share Network

Network Name (SSID): TP-Link_Guest_7B00_5G — □ Hide SSID

Bandwidth Control: □ Enable

6GHz: ☑ Enable — Share Network

Network Name (SSID): TP-Link_Guest_7B00_6G — □ Hide SSID

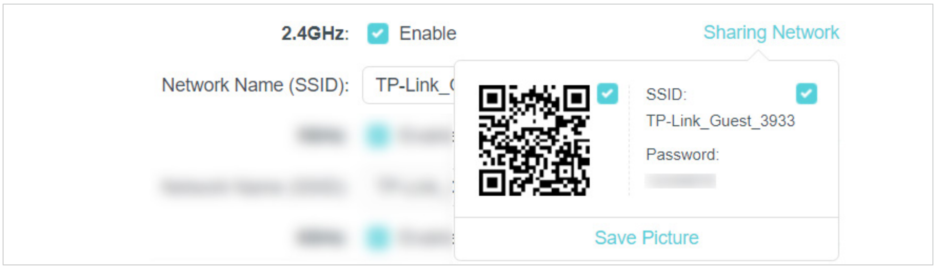
Bandwidth Control: □ Enable

Effective Time: No Limit

Security: No Security

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

4. Click SAVE. Now your guests can access your guest network using the SSID and password you set!
5. You can also click Sharing Network to share the SSID and password to your guests.



2.4GHz: ☑ Enable Sharing Network

Network Name (SSID): TP-Link_(

☑ SSID: ☑
TP-Link_Guest_3933
Password:
[redacted]

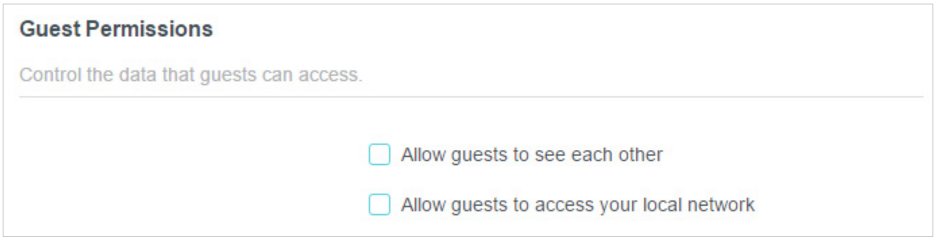
Save Picture

✎ **Tips:**

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

7. 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.



Guest Permissions

Control the data that guests can access.

☐ Allow guests to see each other

☐ Allow guests to access your local network

- Allow guests to see each other

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

- Allow guests to access your local network

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

4. Click SAVE. Now you can ensure network security and privacy!

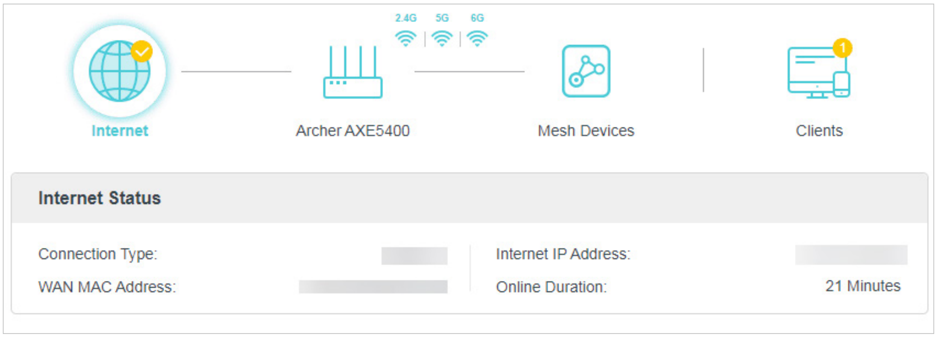
Chapter 8

Network Map

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

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

- Click Internet to check internet status.



Internet Status

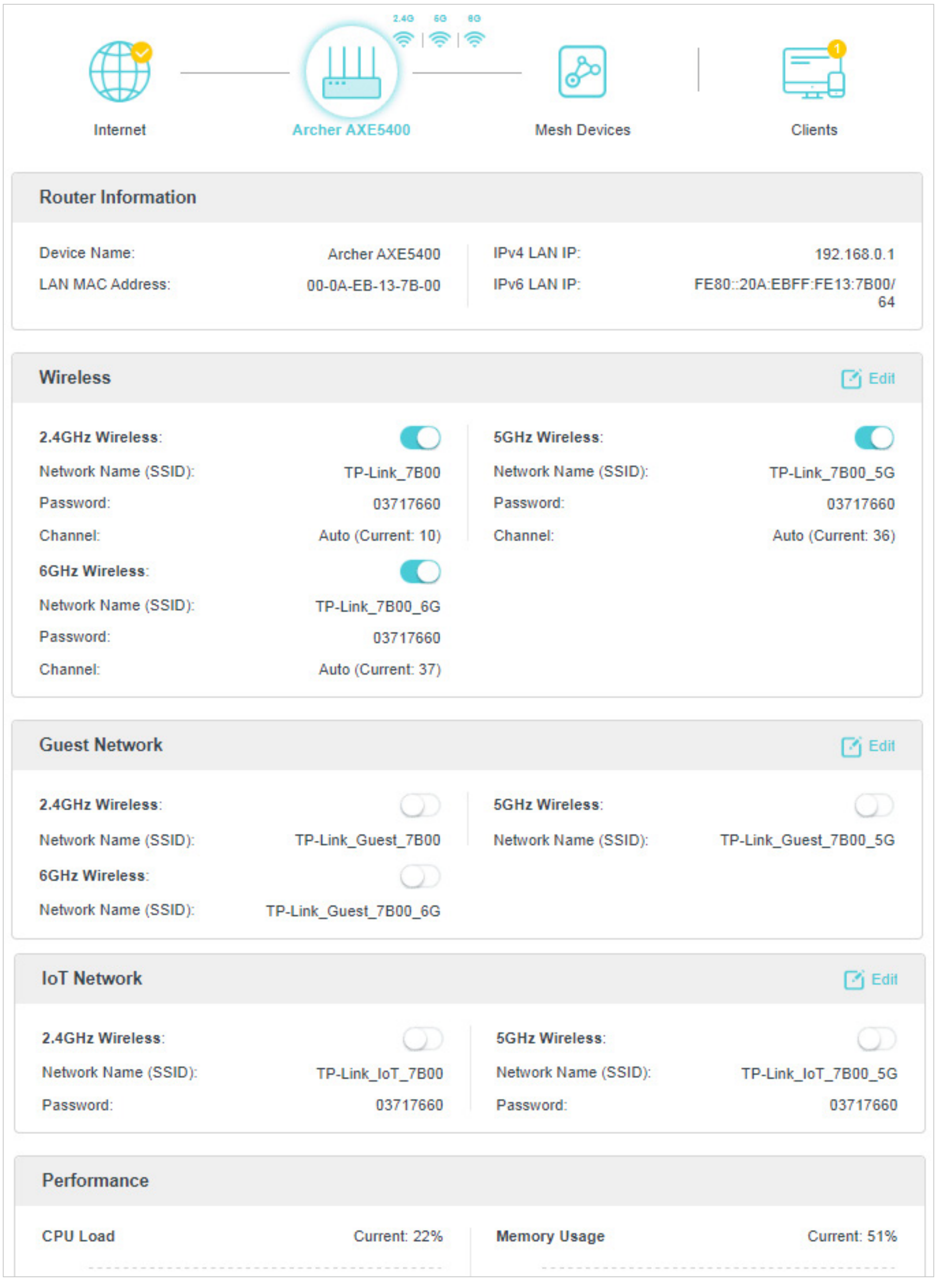
Connection Type:

WAN MAC Address:

Internet IP Address:

Online Duration: 21 Minutes

- Click the router to check device status and network settings. You can turn on or off the wireless network or guest network, or click Edit to change related settings.



Router Information

Device Name:	Archer AXE5400	IPv4 LAN IP:	192.168.0.1
LAN MAC Address:	00-0A-EB-13-7B-00	IPv6 LAN IP:	FE80::20A:EBFF:FE13:7B00/64

Wireless Edit

2.4GHz Wireless:	●	5GHz Wireless:	●
Network Name (SSID):	TP-Link_7B00	Network Name (SSID):	TP-Link_7B00_5G
Password:	03717660	Password:	03717660
Channel:	Auto (Current: 10)	Channel:	Auto (Current: 36)
6GHz Wireless:	●		
Network Name (SSID):	TP-Link_7B00_6G		
Password:	03717660		
Channel:	Auto (Current: 37)		

Guest Network Edit

2.4GHz Wireless:	○	5GHz Wireless:	○
Network Name (SSID):	TP-Link_Guest_7B00	Network Name (SSID):	TP-Link_Guest_7B00_5G
6GHz Wireless:	○		
Network Name (SSID):	TP-Link_Guest_7B00_6G		

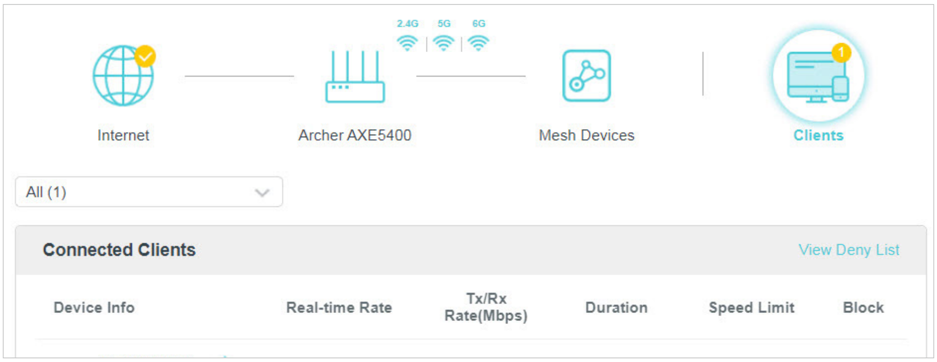
IoT Network Edit

2.4GHz Wireless:	○	5GHz Wireless:	○
Network Name (SSID):	TP-Link_IoT_7B00	Network Name (SSID):	TP-Link_IoT_7B00_5G
Password:	03717660	Password:	03717660

Performance

CPU Load	Current: 22%	Memory Usage	Current: 51%

- Click Mesh Devices to view the devices that form a mesh network with the router.

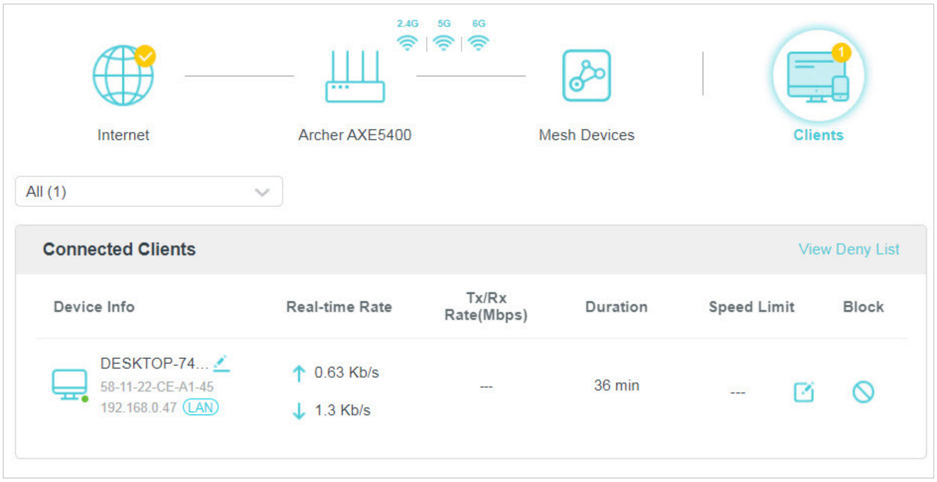


All (1)

Connected Clients View Deny List

Device Info	Real-time Rate	Tx/Rx Rate(Mbps)	Duration	Speed Limit	Block

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

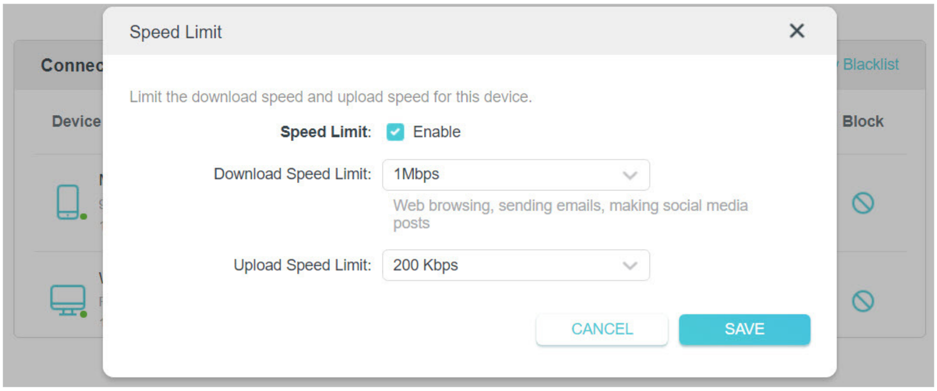


Connected Clients

Device Info	Real-time Rate	Tx/Rx Rate(Mbps)	Duration	Speed Limit	Block
DESKTOP-74... 58-11-22-CE-A1-45 192.168.0.47 LAN	↑ 0.63 Kb/s ↓ 1.3 Kb/s	---	36 min	--- ✎	⊘

To limit the speeds of a device:

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



Speed Limit

Limit the download speed and upload speed for this device.

Speed Limit: ☑ Enable

Download Speed Limit: 1Mbps

Web browsing, sending emails, making social media posts

Upload Speed Limit: 200 Kbps

Chapter 9

HomeShield

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

It contains the following sections:

- Network Security
- Parental Controls
- Network Analysis & Optimization

9. 1. Network Security

TP-Link HomeShield provides many tools to protect your network from malicious attacks.

Network Analysis

Analyze and optimize your network

IoT Protection

Get real-time security for your Internet of Things

Intrusion Prevention System

Identifies and block network intruders

Malicious Content Filter

Block malicious content

DDoS Protection

Protects your home network from DDoS attacks

- **To use this feature, download Tether to enjoy the HomeShield service**

1. Scan the QR code or get the Tether app from the Apple App Store or Google Play.

Download on the App Store

GET IT ON Google Play

OR

2. Launch the Tether app and log in with your TP-Link ID. If you don't have an account, create one first.

3. Log in to your router and tap the HomeShield tab to use this feature.

9. 2. Parental Controls

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

Child Protection

Keep your child away from inappropriate content

Family Incentive Program

Manage screen time and create rewards

Family Time

Pause the internet to enjoy family time

- **To use this feature, download Tether to enjoy the HomeShield service**

1. Scan the QR code or get the Tether app from the Apple App Store or Google Play.

2. Launch the Tether app and log in with your TP-Link ID. If you don't have an account, create one first.

3. Log in to your router and tap the HomeShield tab to use this feature.

9. 3. Network Analysis & Optimization

TP-Link HomeShield provides many tools for you to analyze and optimize your network.

Weekly and Monthly Reports

Get weekly and monthly reports of your network usage

Quality of Service (QoS)

Prioritizes devices to give faster performance

Scan

Run a scan for a better network performance and security anytime

- **To use this feature, download Tether to enjoy the HomeShield service**

1. Scan the QR code or get the Tether app from the Apple App Store or Google Play.

2. Launch the Tether app and log in with your TP-Link ID. If you don’t have an account, create one first.
3. Log in to your router and tap the HomeShield tab to use this feature.

Chapter 10

EasyMesh with Seamless Roaming

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

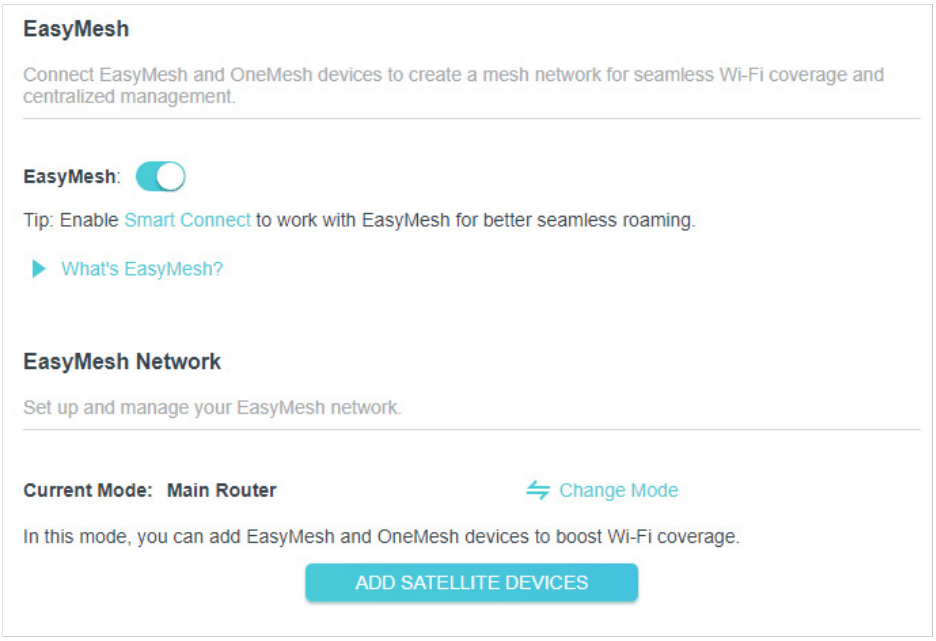
It contains the following sections:

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

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

10. 1. Add a Router as a Satellite Device

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



EasyMesh

Connect EasyMesh and OneMesh devices to create a mesh network for seamless Wi-Fi coverage and centralized management.

EasyMesh: ●

Tip: Enable Smart Connect to work with EasyMesh for better seamless roaming.

▶ What's EasyMesh?

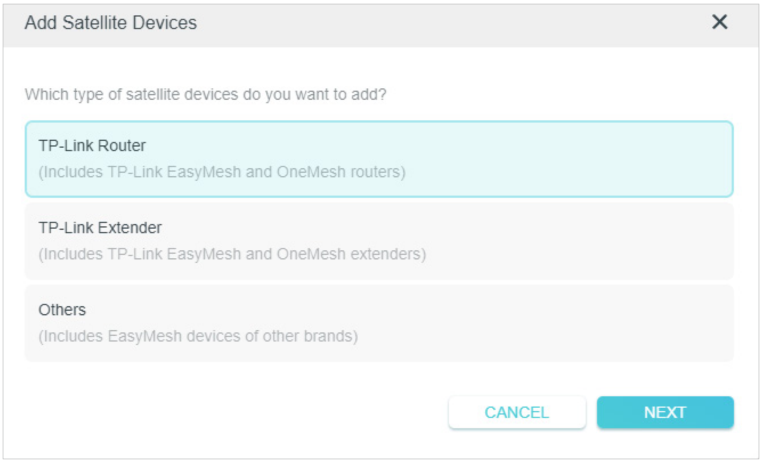
EasyMesh Network

Set up and manage your EasyMesh network.

Current Mode: Main Router

In this mode, you can add EasyMesh and OneMesh devices to boost Wi-Fi coverage.

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



Add Satellite Devices

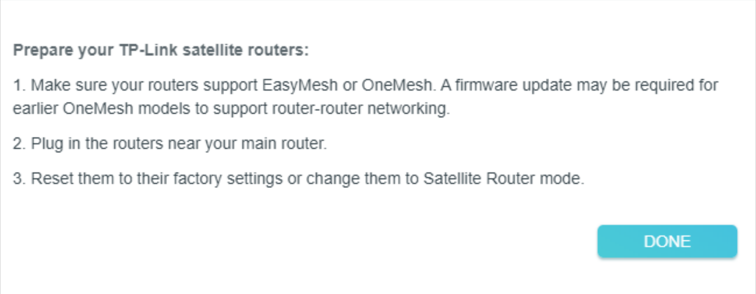
Which type of satellite devices do you want to add?

TP-Link Router
(Includes TP-Link EasyMesh and OneMesh routers)

TP-Link Extender
(Includes TP-Link EasyMesh and OneMesh extenders)

Others
(Includes EasyMesh devices of other brands)

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



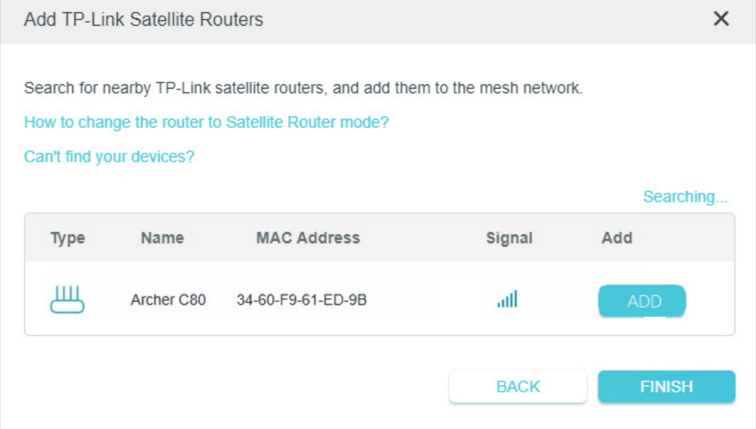
Prepare your TP-Link satellite routers:

1. Make sure your routers support EasyMesh or OneMesh. A firmware update may be required for earlier OneMesh models to support router-router networking.

2. Plug in the routers near your main router.

3. Reset them to their factory settings or change them to Satellite Router mode.

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



Add TP-Link Satellite Routers

Search for nearby TP-Link satellite routers, and add them to the mesh network.

How to change the router to Satellite Router mode?

Can't find your devices?

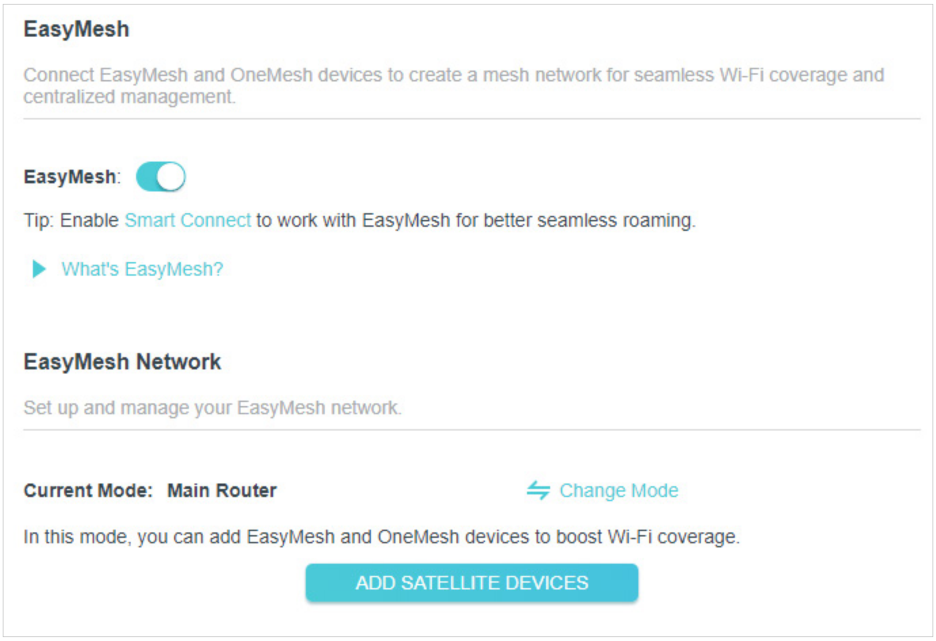
Searching...

Type	Name	MAC Address	Signal	Add
	Archer C80	34-60-F9-61-ED-9B		ADD

10. 2. Add a Range Extender as a Satellite Device

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

2. Go to Advanced > EasyMesh, and enable EasyMesh.



EasyMesh

Connect EasyMesh and OneMesh devices to create a mesh network for seamless Wi-Fi coverage and centralized management.

EasyMesh: ●

Tip: Enable Smart Connect to work with EasyMesh for better seamless roaming.

▶ What's EasyMesh?

EasyMesh Network

Set up and manage your EasyMesh network.

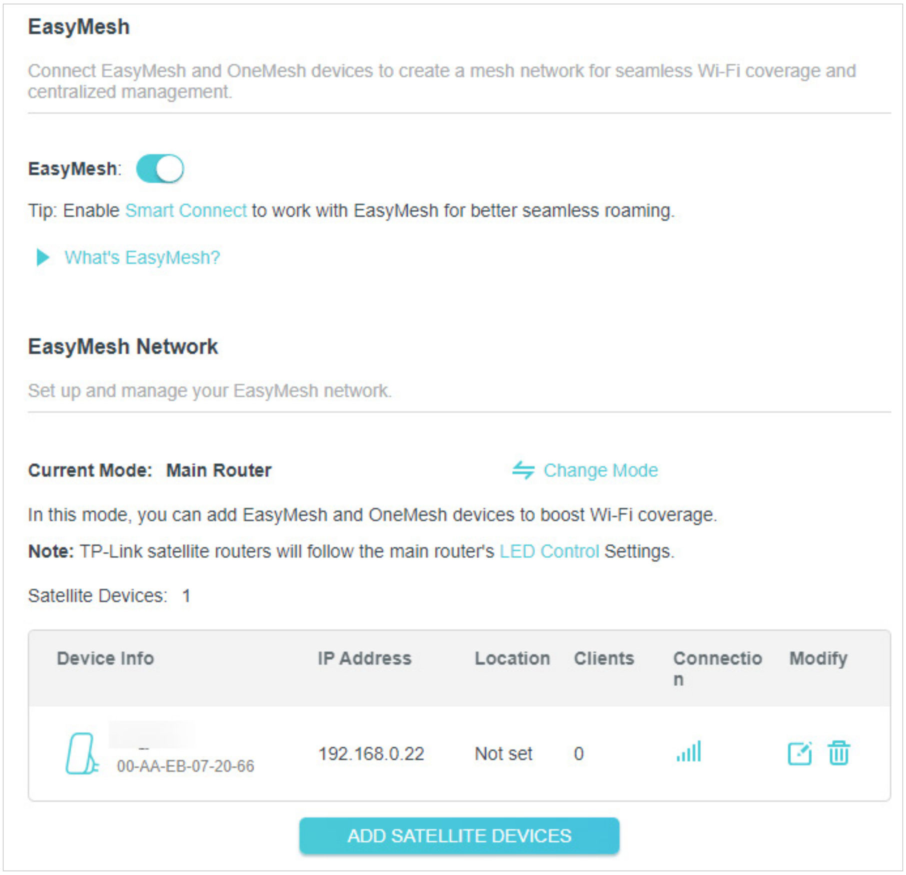
Current Mode: Main Router ⇆ Change Mode

In this mode, you can add EasyMesh and OneMesh devices to boost Wi-Fi coverage.

3. Plug in the extender next to the main router.

4. With in 2 minutes, press the WPS button on main router and on the extender. Wait until the WPS process is complete.

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



EasyMesh

Connect EasyMesh and OneMesh devices to create a mesh network for seamless Wi-Fi coverage and centralized management.

EasyMesh: ●

Tip: Enable Smart Connect to work with EasyMesh for better seamless roaming.

▶ What's EasyMesh?

EasyMesh Network

Set up and manage your EasyMesh network.

Current Mode: Main Router ⇆ Change Mode

In this mode, you can add EasyMesh and OneMesh devices to boost Wi-Fi coverage.

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

Satellite Devices: 1

Device Info	IP Address	Location	Clients	Connection	Modify
00-AA-EB-07-20-66	192.168.0.22	Not set	0	📶	✎ 🗑

10. 3. Manage Devices in the EasyMesh Network

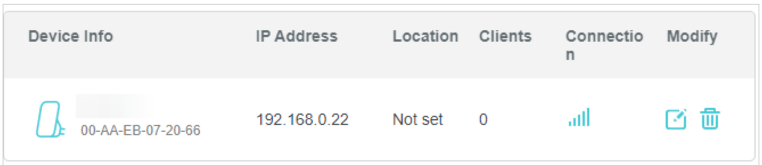
In an EasyMesh network, you can manage all mesh devices and connected clients on your main router's web page.

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

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

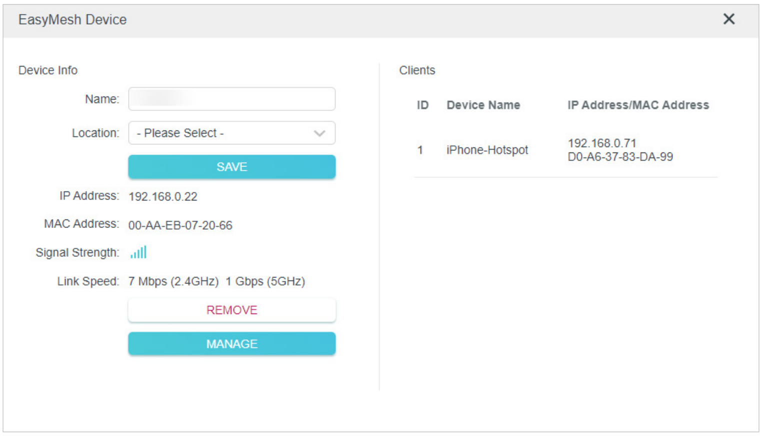
- **To manage an EasyMesh device in the network:**

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



Device Info	IP Address	Location	Clients	Connectio n	Modify
00-AA-EB-07-20-66	192.168.0.22	Not set	0	.ıll	

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



EasyMesh Device ×

Device Info

Name:

Location: - Please Select -

SAVE

IP Address: 192.168.0.22

MAC Address: 00-AA-EB-07-20-66

Signal Strength: .ıll

Link Speed: 7 Mbps (2.4GHz) 1 Gbps (5GHz)

REMOVE

MANAGE

Clients

ID	Device Name	IP Address/MAC Address
1	iPhone-Hotspot	192.168.0.71 D0-A6-37-83-DA-99

- Change device information.
- Click Manage to redirect to the web management page of this device.
- Click Remove to delete this device from the EasyMesh network.

Chapter 11

Network Security

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

It contains the following sections:

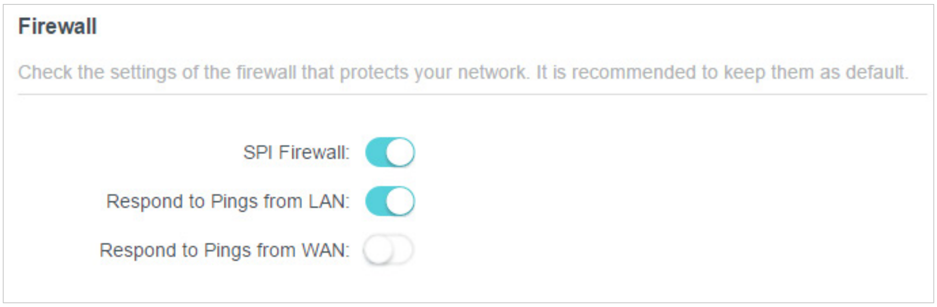
- Protect the Network from Cyber Attacks
- Access Control
- IP & MAC Binding
- ALG
- Device Isolation

*For a more comprehensive home network protection system, refer to the HomeShield chapter.

11. 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.



Firewall

Check the settings of the firewall that protects your network. It is recommended to keep them as default.

SPI Firewall: ●

Respond to Pings from LAN: ●

Respond to Pings from WAN: ○

11. 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:

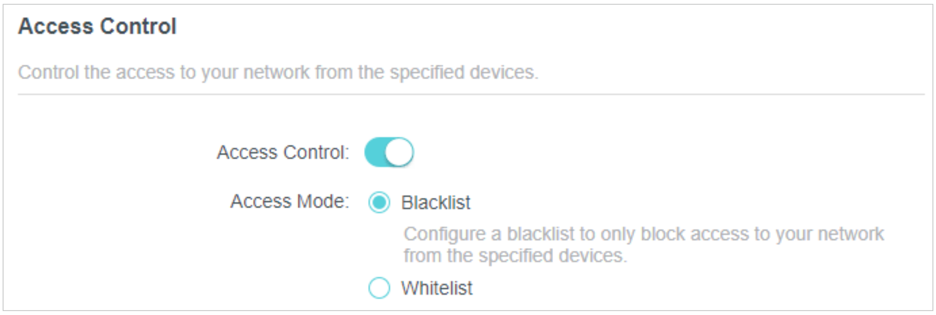
Block or allow specific client devices to access my network (via wired or wireless).

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. Toggle on to enable Access Control.
4. Select the access mode to either block (recommended) or allow the device(s) in the list.

   To block specific device(s):

   1) Select Blacklist.



Access Control

Control the access to your network from the specified devices.

Access Control: ●

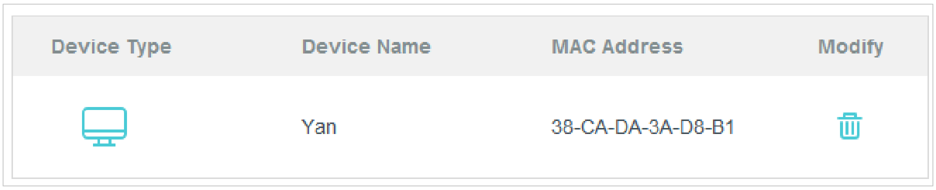
Access Mode: ● Blacklist

Configure a blacklist to only block access to your network from the specified devices.

○ Whitelist

2) Click ⊕ Add and select devices you want to be blocked and Click ADD.

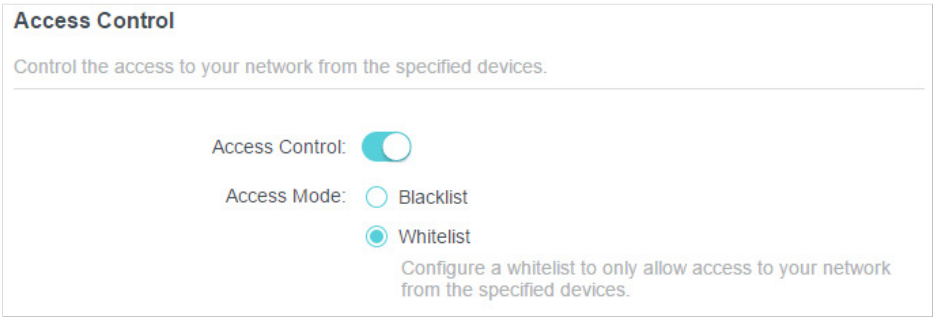
3) The Operation Succeeded message will appear on the screen, which means the selected devices have been successfully added to the blacklist.



Device Type	Device Name	MAC Address	Modify
	Yan	38-CA-DA-3A-D8-B1	

To allow specific device(s):

1) Select Whitelist and click SAVE.



Access Control

Control the access to your network from the specified devices.

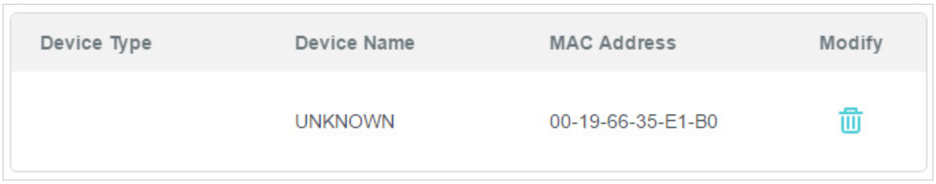
Access Control: ●

Access Mode: ○ Blacklist

● Whitelist

Configure a whitelist to only allow access to your network from the specified devices.

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

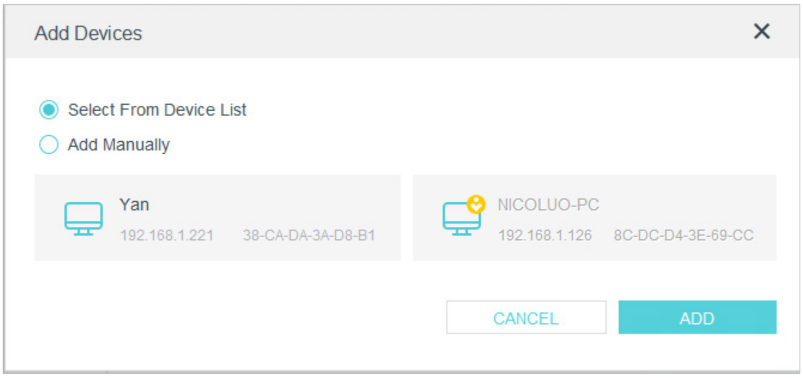


Device Type	Device Name	MAC Address	Modify
	UNKNOWN	00-19-66-35-E1-B0	

- **Add connected devices**

1) Click Select From Device List.

2) Select the devices you want to be allowed and click ADD.


Add Devices ✕

● Select From Device List
○ Add Manually

Yan 192.168.1.221 38-CA-DA-3A-D8-B1

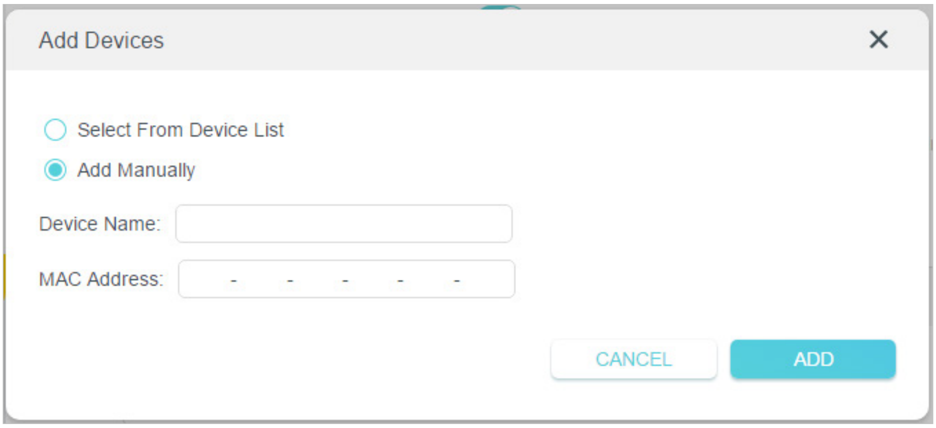
NICOLUO-PC 192.168.1.126 8C-DC-D4-3E-69-CC

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.


Add Devices ✕

○ Select From Device List
● Add Manually

Device Name:

MAC Address: - - - - -

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.

11. 3. IP & MAC Binding

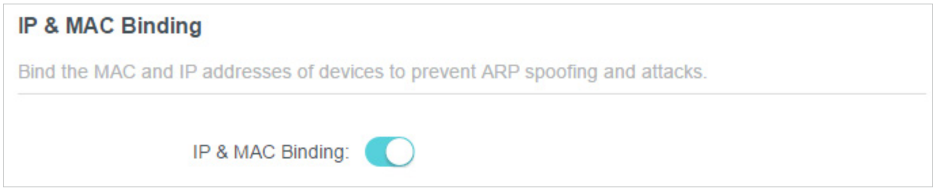
IP & MAC Binding, namely, ARP (Address Resolution Protocol) Binding, is used to bind network device's IP address to its MAC address. This will prevent ARP Spoofing and other ARP attacks by denying network access to an device with matching IP address in the Binding list, but unrecognized MAC address.

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.



IP & MAC Binding

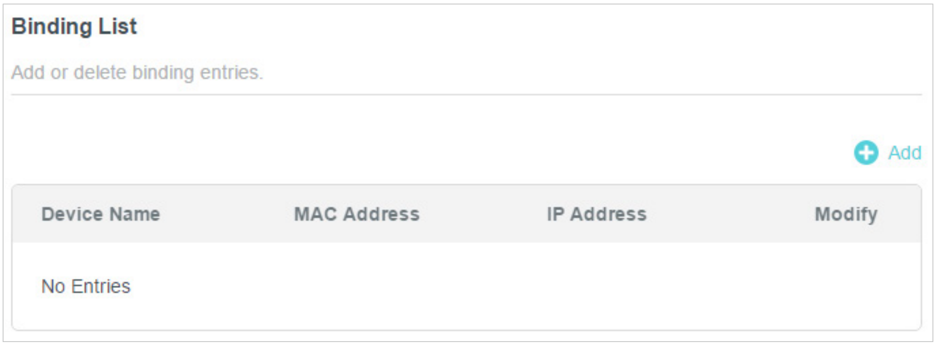
Bind the MAC and IP addresses of devices to prevent ARP spoofing and attacks.

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.



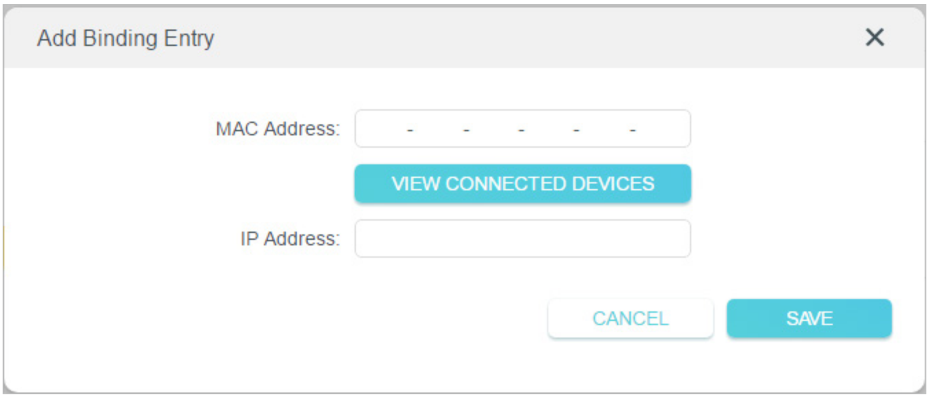
Binding List

Add or delete binding entries.

⊕ Add

Device Name	MAC Address	IP Address	Modify
No Entries			

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.



Add Binding Entry ✕

MAC Address: - - - - -

VIEW CONNECTED DEVICES

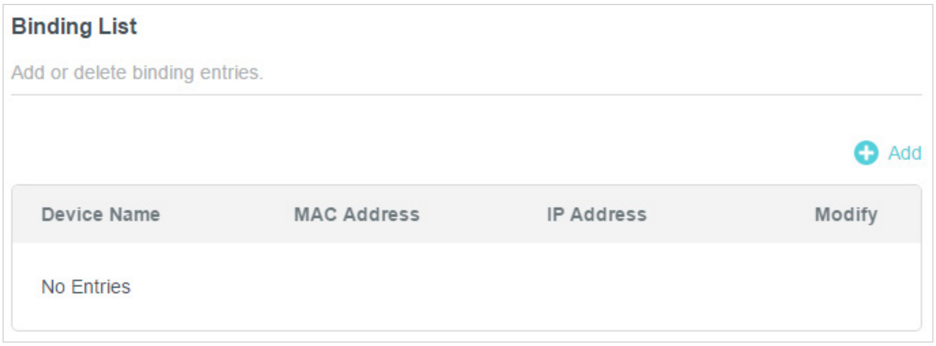
IP Address:

CANCEL SAVE

3) Click SAVE.

To bind the unconnected device:

1) Click ⊕ Add in the Binding List section.



Binding List

Add or delete binding entries.

⊕ Add

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!

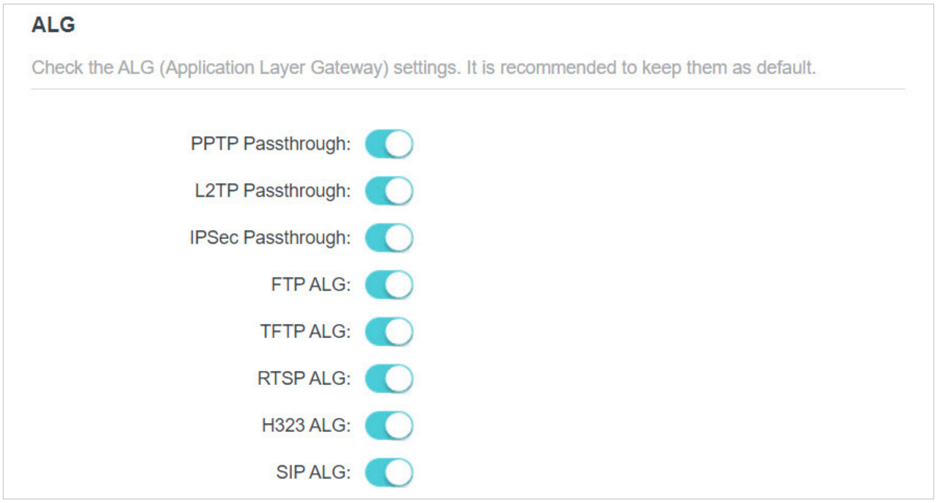
Now you don’t need to worry about ARP spoofing and ARP attacks!

11. 4. ALG

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

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

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



ALG

Check the ALG (Application Layer Gateway) settings. It is recommended to keep them as default.

PPTP Passthrough: ●

L2TP Passthrough: ●

IPSec Passthrough: ●

FTP ALG: ●

TFTP ALG: ●

RTSP ALG: ●

H323 ALG: ●

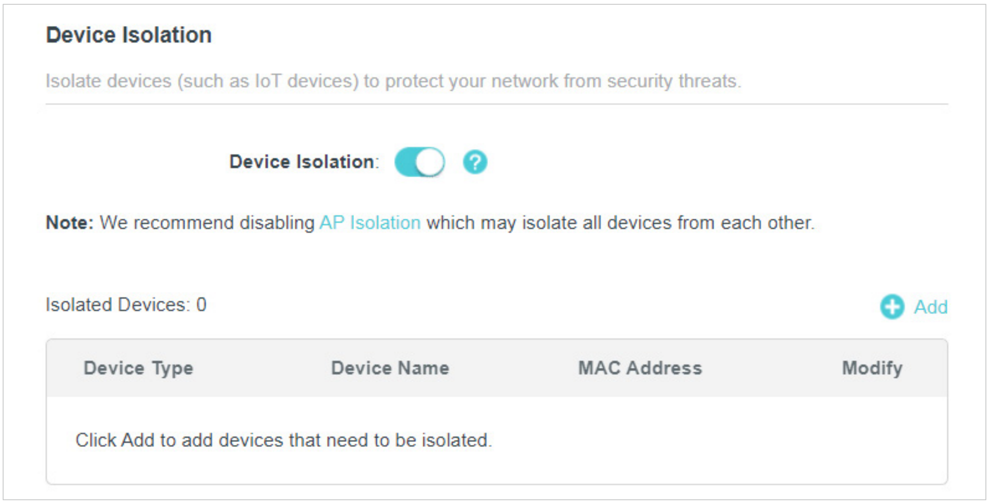
SIP ALG: ●

11. 5. Device Isolation

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

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

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



Device Isolation

Isolate devices (such as IoT devices) to protect your network from security threats.

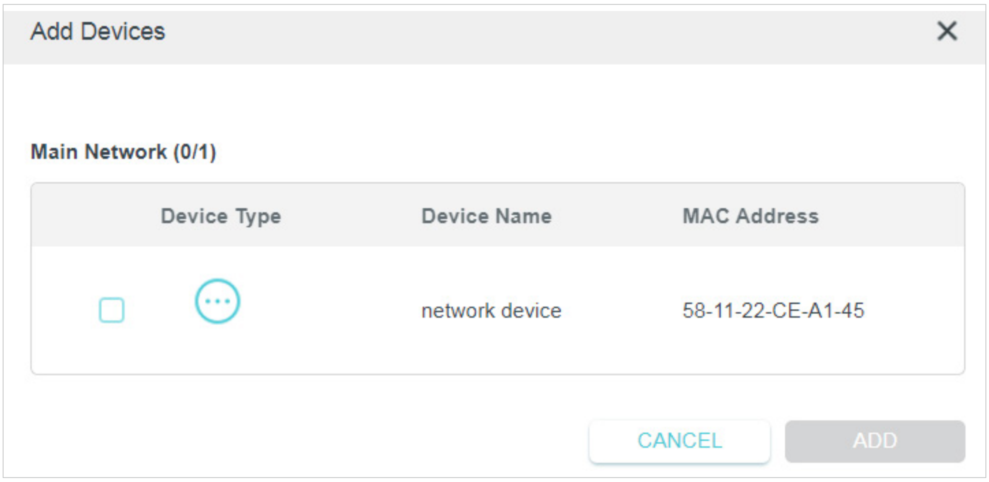
Device Isolation: ●

Note: We recommend disabling AP Isolation which may isolate all devices from each other.

Isolated Devices: 0

Device Type	Device Name	MAC Address	Modify
Click Add to add devices that need to be isolated.			

4. Choose your device and click ADD.



Add Devices

Main Network (0/1)

	Device Type	Device Name	MAC Address
□	⋯	network device	58-11-22-CE-A1-45

Chapter 12

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:

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

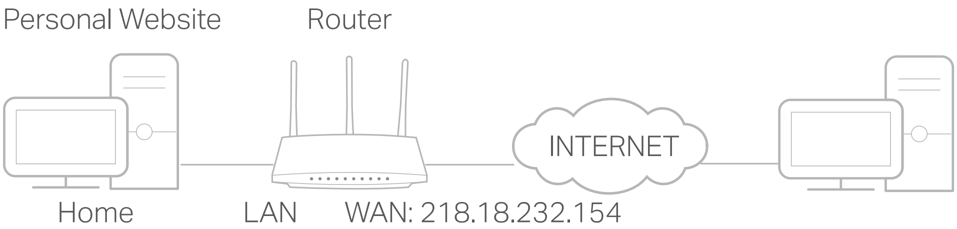
When you build up a server on the local network and want to share it on the internet, Port Forwarding can realize the service and provide it to internet users. At the same time Port Forwarding can keep the local network safe as other services are still invisible from the internet.

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:

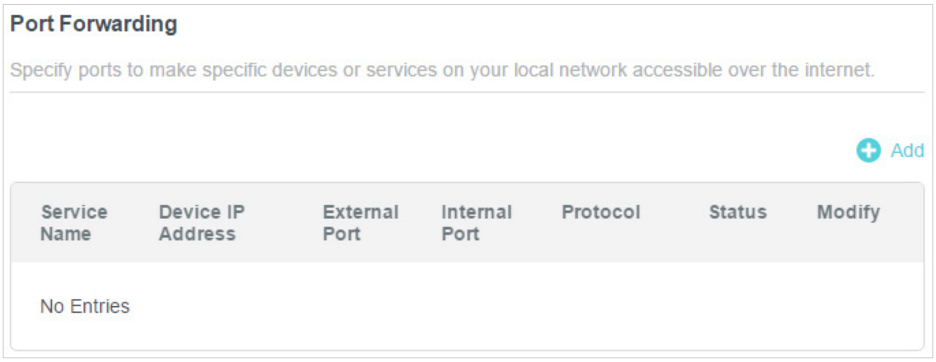
Share my personal website I've built in local network with my friends through the internet.

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.
4. Click ⊕ Add.

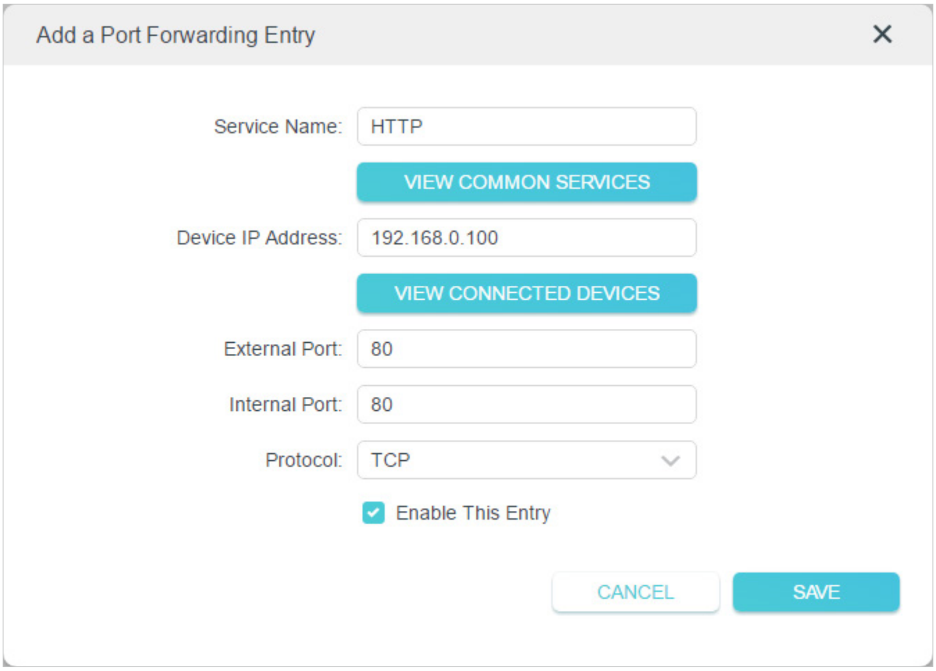


Port Forwarding

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

Service Name	Device IP Address	External Port	Internal Port	Protocol	Status	Modify
No Entries						

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.



Add a Port Forwarding Entry

Service Name: HTTP

Device IP Address: 192.168.0.100

External Port: 80

Internal Port: 80

Protocol: TCP

☑ Enable This Entry

Tips:

- It is recommended to keep the default settings of Internal Port and Protocol if you are not clear about which port and protocol to use.
- If the service you want to use is not in the common services list, you can enter the corresponding parameters manually. You should verify the port number that the service needs.
- You can add multiple port forwarding rules if you want to provide several services in a router. Please note that the External Port should not be overlapped.

Done!

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

Tips:

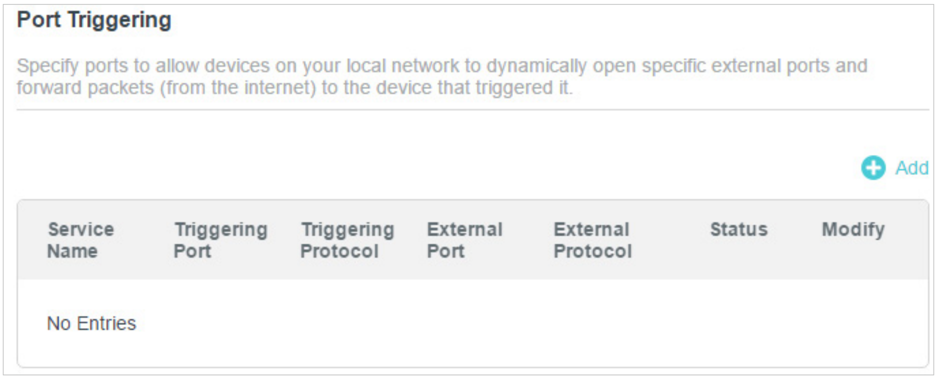
- The WAN IP should be a public IP address. For the WAN IP is assigned dynamically by the ISP, it is recommended to apply and register a domain name for the WAN referring to Set Up a Dynamic DNS Service Account. Then users on the internet can use http:// domain name to visit the website.
- If you have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

12. 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 ⊕ Add.

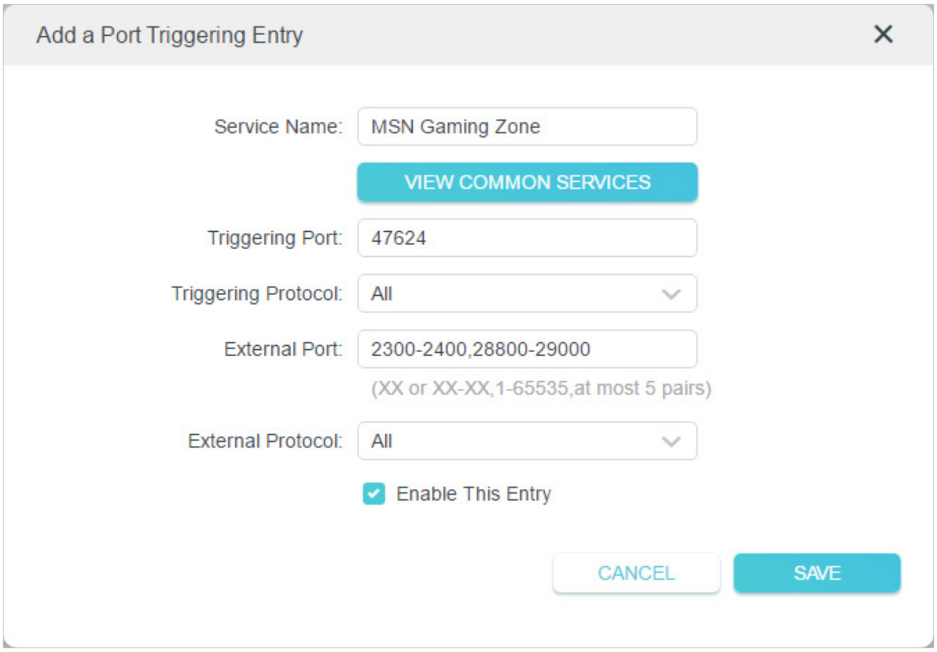


Port Triggering

Specify ports to allow devices on your local network to dynamically open specific external ports and forward packets (from the internet) to the device that triggered it.

Service Name	Triggering Port	Triggering Protocol	External Port	External Protocol	Status	Modify
No Entries						

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.


Add a Port Triggering Entry

Service Name: MSN Gaming Zone

Triggering Port: 47624

Triggering Protocol: All

External Port: 2300-2400,28800-29000

(XX or XX-XX,1-65535,at most 5 pairs)

External Protocol: All

☑ Enable This Entry

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.

12. 3. Make Applications Free from Port Restriction by DMZ

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

Note:

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

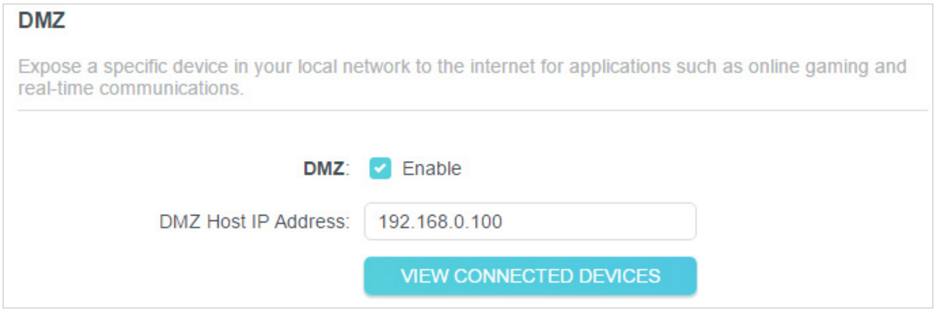
I want to:

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

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

How can I do that?

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



DMZ

Expose a specific device in your local network to the internet for applications such as online gaming and real-time communications.

DMZ: ☑ Enable

DMZ Host IP Address: 192.168.0.100

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.

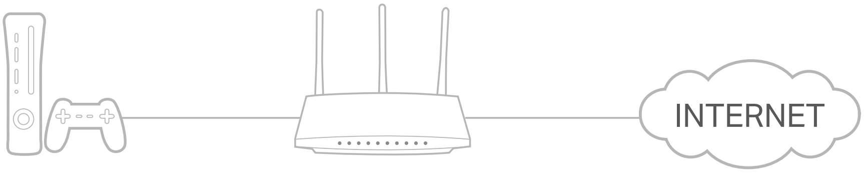
12. 4. Make Xbox Online Games Run Smoothly by UPnP

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:

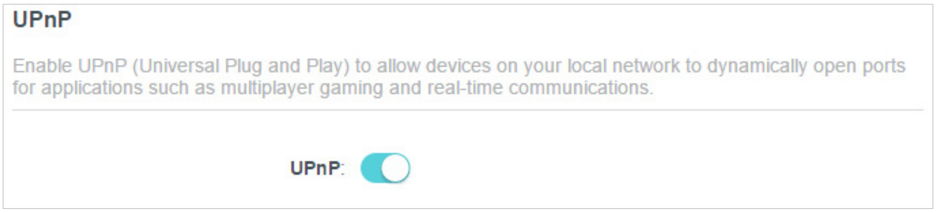
- UPnP is enabled by default in this router.
- Only the application supporting UPnP protocol can use this feature.
- UPnP feature needs the support of operating system (e.g. Windows Vista/ Windows 7/ Windows 8, etc. Some of operating system need to install the UPnP components).

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: ●

Chapter 13

VPN Server&Client

The router offers several ways to set up VPN connections:

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

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

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

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

WireGuard VPN is a modern VPN technology that offers high performance and easy configuration. Compared to OpenVPN, VPN performance has been greatly improved. It is very suitable for remote access application scenarios.

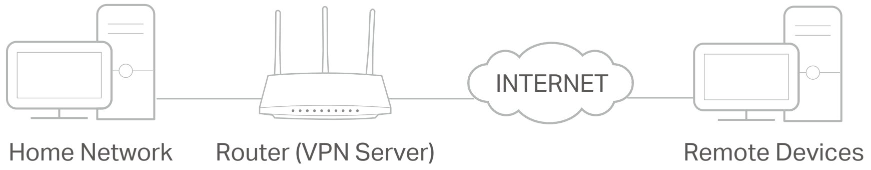
VPN Client allows devices in your home network to access remote VPN servers, without the need to install VPN software on each device.

This chapter contains the following sections:

13. 1. Use OpenVPN to Access Your Home Network

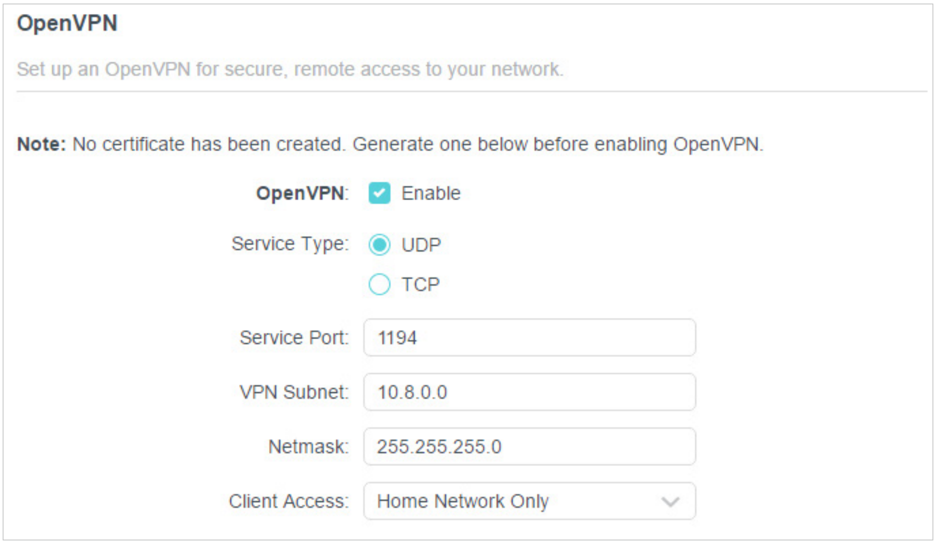
OpenVPN Server is used to create an OpenVPN connection for remote devices to access your home network.

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



Step1. Set up OpenVPN Server on Your Router

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



OpenVPN

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

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

OpenVPN: ☑ Enable

Service Type: ● UDP ○ TCP

Service Port: 1194

VPN Subnet: 10.8.0.0

Netmask: 255.255.255.0

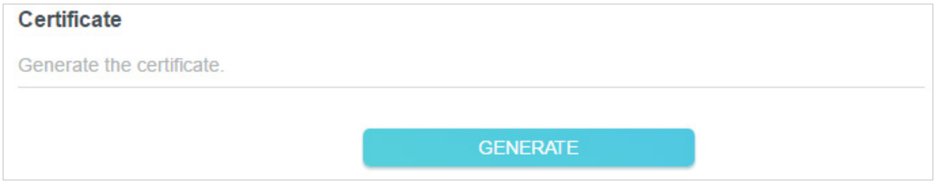
Client Access: Home Network Only

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.

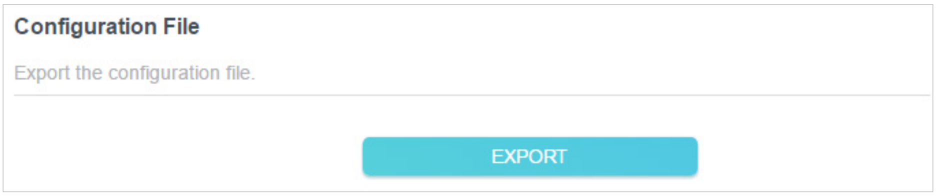


Certificate

Generate the 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.



Configuration File

Export the configuration file.

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.

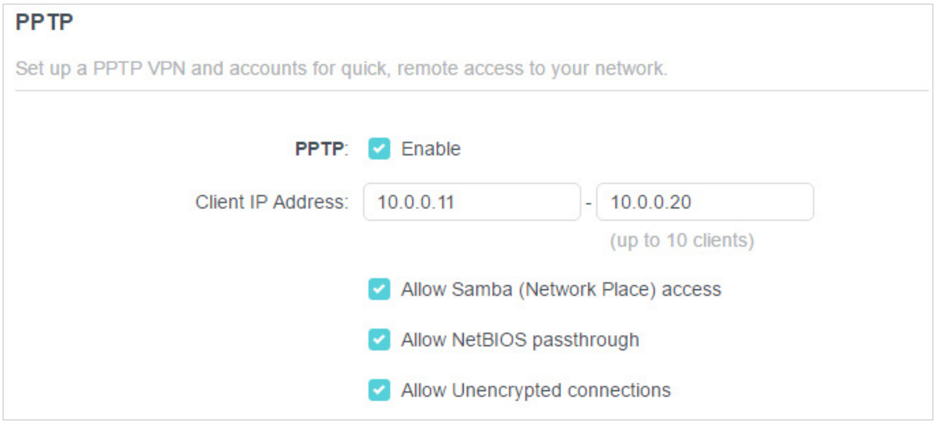
13. 2. Use PPTP VPN to Access Your Home Network

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

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

Step 1. Set up PPTP VPN Server on Your Router

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



PPTP

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

PPTP: ☑ Enable

Client IP Address: 10.0.0.11 - 10.0.0.20

(up to 10 clients)

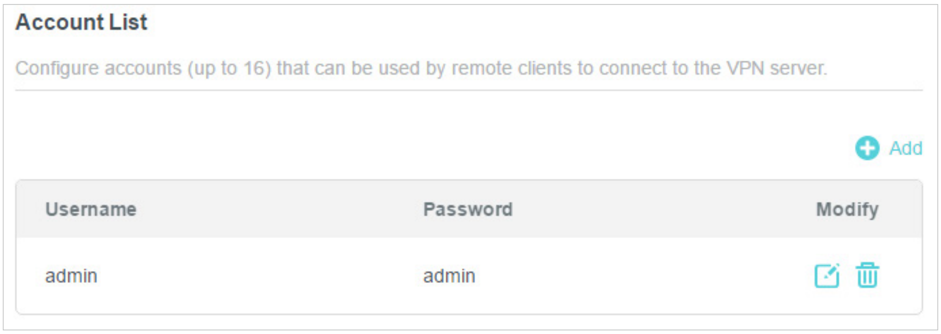
☑ Allow Samba (Network Place) access

☑ Allow NetBIOS passthrough

☑ Allow Unencrypted connections

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.

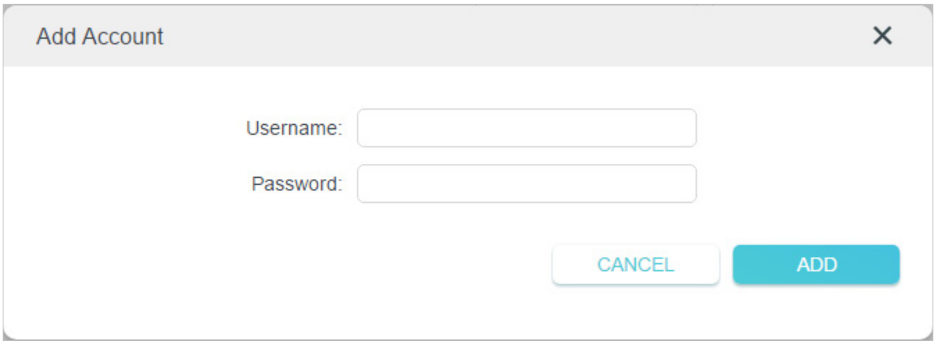


Account List

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

Username	Password	Modify
admin	admin	

1) Click Add.
2) Enter the Username and Password to authenticate devices to the PPTP VPN Server.



Add Account

Username:

Password:

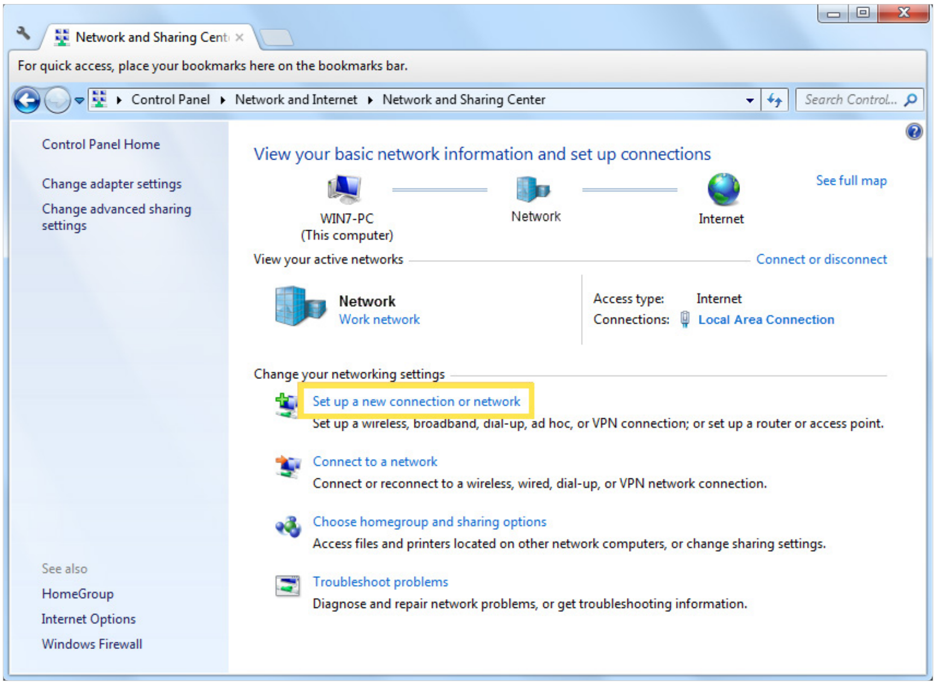
3) Click ADD.

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.



View your basic network information and set up connections

View your active networks

Access type: Internet
Connections: Local Area Connection

Change your networking settings

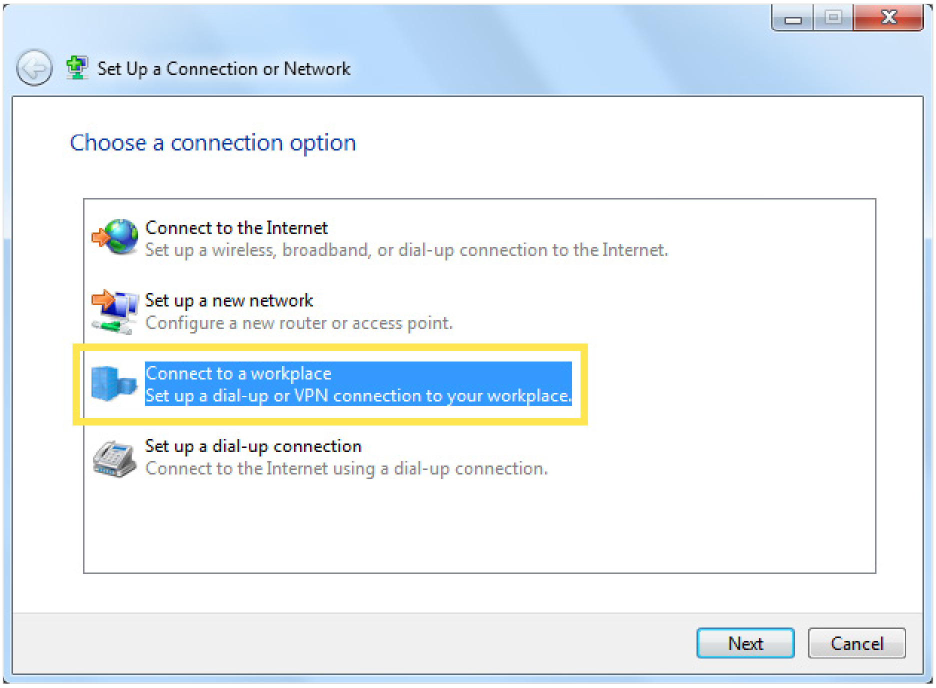
Set up a new connection or network
Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up a router or access point.

Connect to a network
Connect or reconnect to a wireless, wired, dial-up, or VPN network connection.

Choose homegroup and sharing options
Access files and printers located on other network computers, or change sharing settings.

Troubleshoot problems
Diagnose and repair network problems, or get troubleshooting information.

3. Select Connect to a workplace and click Next.



Set Up a Connection or Network

Choose a connection option

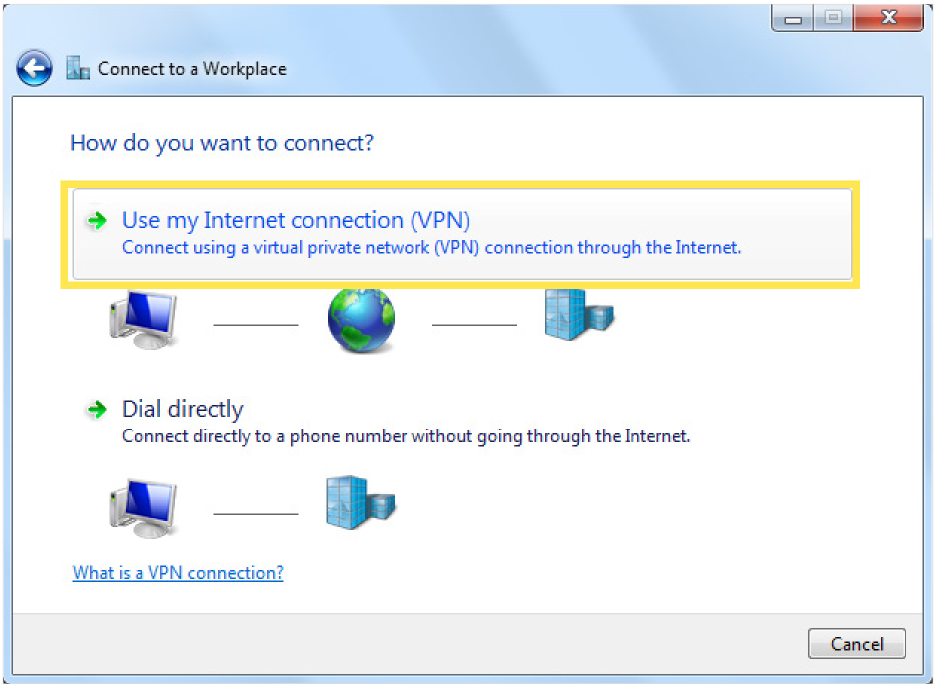
Connect to the Internet
Set up a wireless, broadband, or dial-up connection to the Internet.

Set up a new network
Configure a new router or access point.

Connect to a workplace
Set up a dial-up or VPN connection to your workplace.

Set up a dial-up connection
Connect to the Internet using a dial-up connection.

4. Select Use my Internet connection (VPN).



Connect to a Workplace

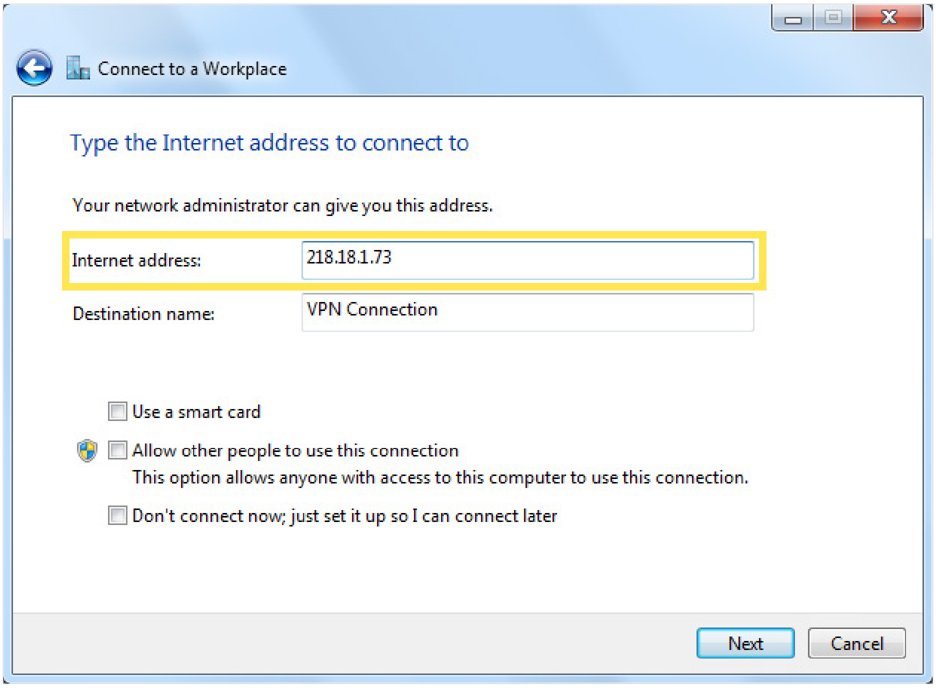
How do you want to connect?

Use my Internet connection (VPN)
Connect using a virtual private network (VPN) connection through the Internet.

Dial directly
Connect directly to a phone number without going through the Internet.

What is a VPN connection?

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



Connect to a Workplace

Type the Internet address to connect to

Your network administrator can give you this address.

Internet address: 218.18.1.73

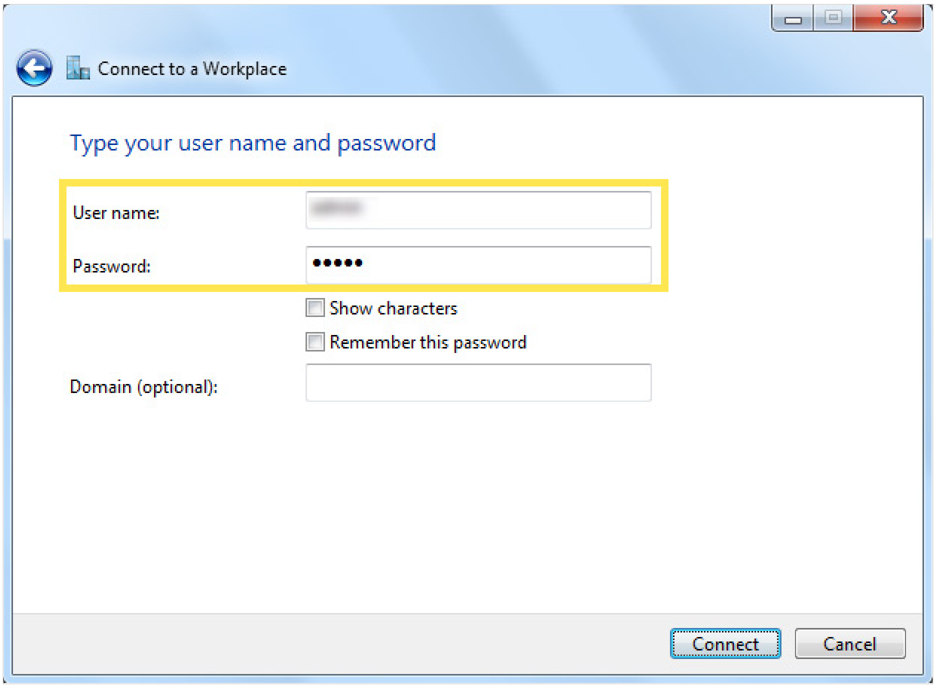
Destination name: VPN Connection

□ Use a smart card

□ Allow other people to use this connection
This option allows anyone with access to this computer to use this connection.

□ Don't connect now; just set it up so I can connect later

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



Connect to a Workplace

Type your user name and password

User name: [redacted]

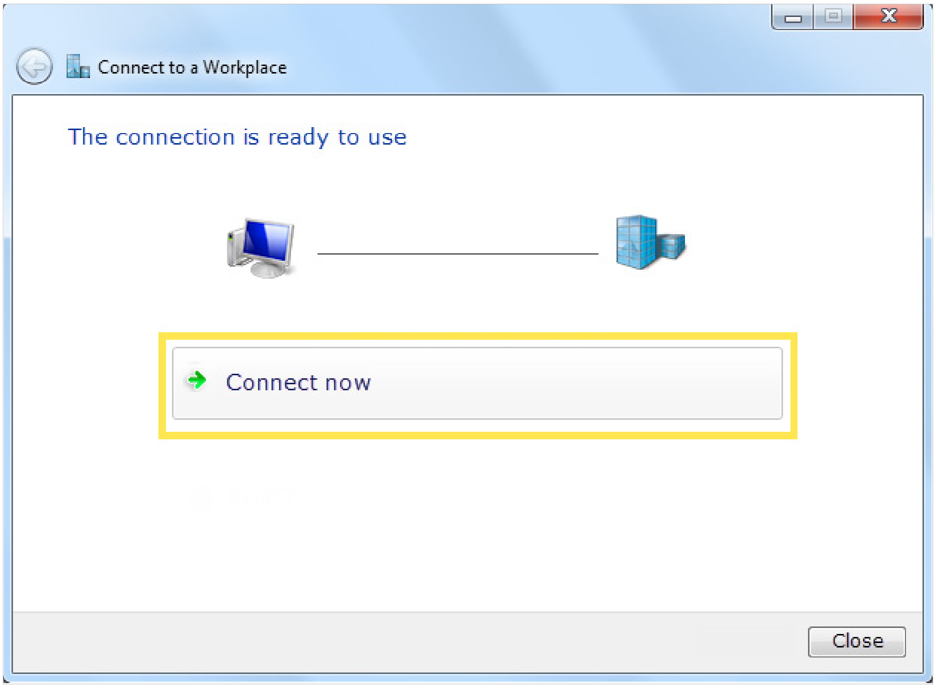
Password: •••••

□ Show characters

□ Remember this password

Domain (optional):

7. Click Connect Now when the VPN connection is ready to use.

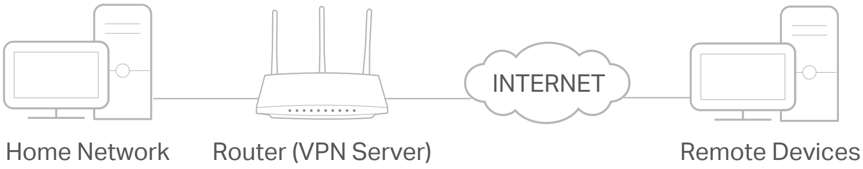


The connection is ready to use

13. 3. Use L2TP/IPSec VPN to Access Your Home Network

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

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



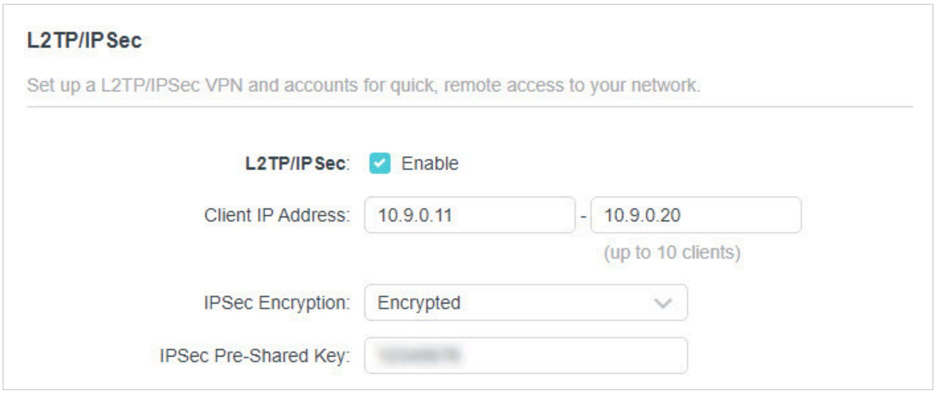
Step 1. Set up L2TP/IPSec VPN Server on Your Router

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

2. Go to Advanced > VPN Server > L2TP/IPSec, and enable L2TP/IPSec.

Note:

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



L2TP/IPSec

Set up a L2TP/IPSec VPN and accounts for quick, remote access to your network.

L2TP/IPSec: ☑ Enable

Client IP Address: 10.9.0.11 - 10.9.0.20 (up to 10 clients)

IPSec Encryption: Encrypted

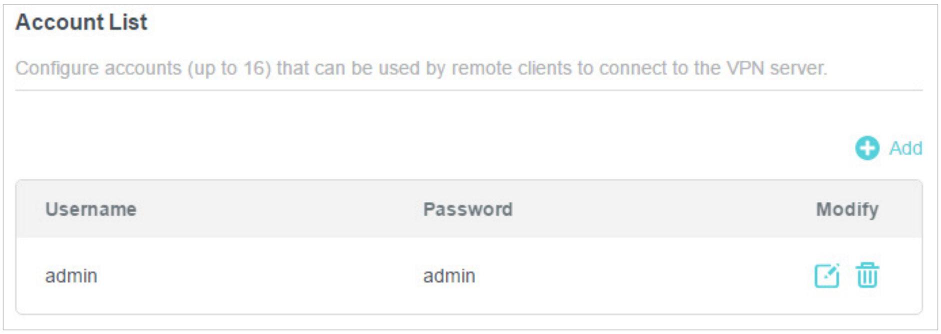
IPSec Pre-Shared Key: [redacted]

3. In the Client IP Address field, enter the range of IP addresses (up to 10) that can be leased to the devices by the L2TP/IPSec VPN server.

4. Keep IPSec Encryption as Encrypted and create an IPSec Pre-Shared Key.

5. Click SAVE.

6. Configure the L2TP/IPSec VPN connection account for the remote device. You can create up to 16 accounts.



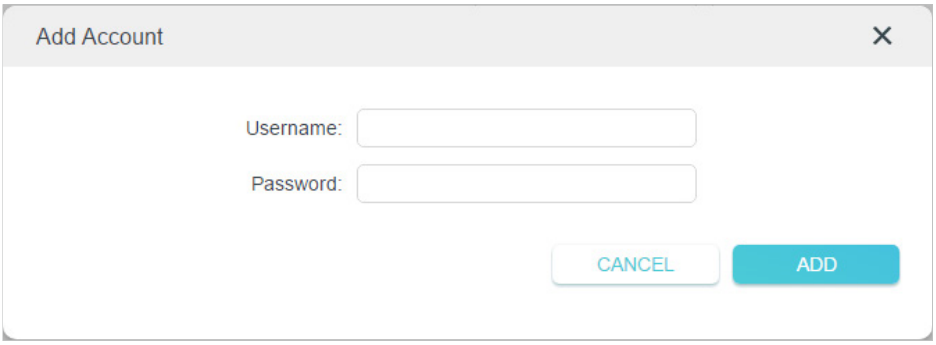
Account List

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

Username	Password	Modify
admin	admin	

4) Click Add.

5) Enter the Username and Password to authenticate devices to the L2TP/IPSec VPN Server.



Add Account

Username:

Password:

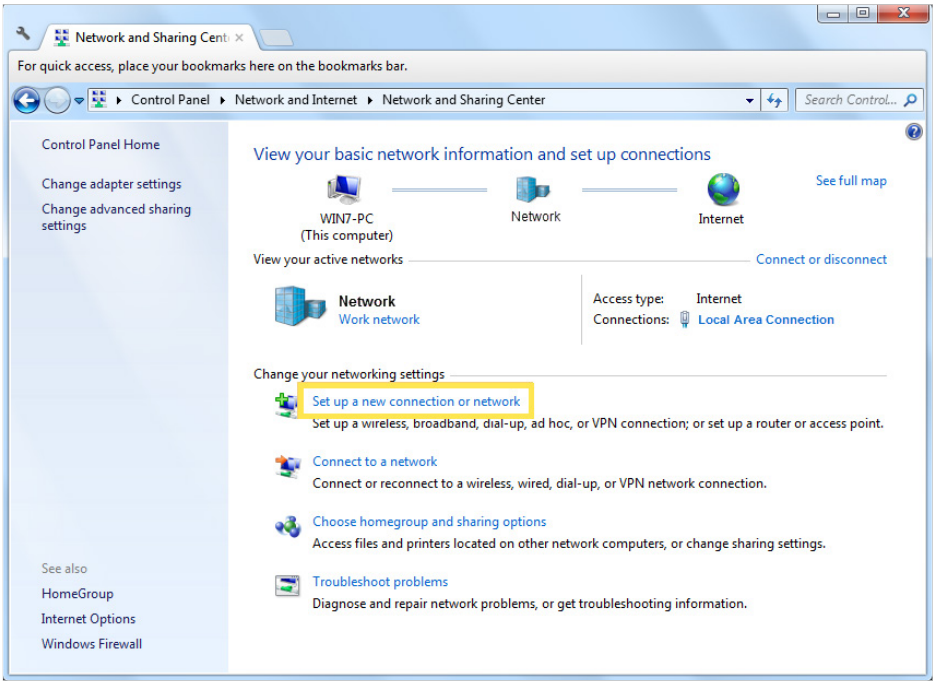
6) Click ADD.

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

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

1. Go to Start > Control Panel > Network and Internet > Network and Sharing Center.

2. Select Set up a new connection or network.



View your basic network information and set up connections

View your active networks

Network
Work network

Access type: Internet
Connections: Local Area Connection

Change your networking settings

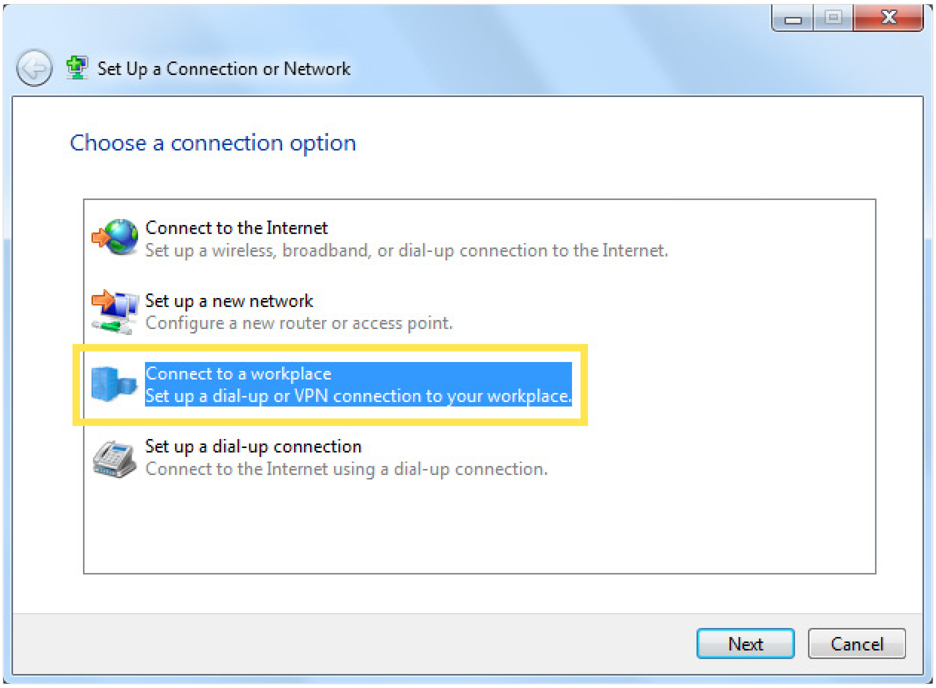
Set up a new connection or network
Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up a router or access point.

Connect to a network
Connect or reconnect to a wireless, wired, dial-up, or VPN network connection.

Choose homegroup and sharing options
Access files and printers located on other network computers, or change sharing settings.

Troubleshoot problems
Diagnose and repair network problems, or get troubleshooting information.

3. Select Connect to a workplace and click Next.



Choose a connection option

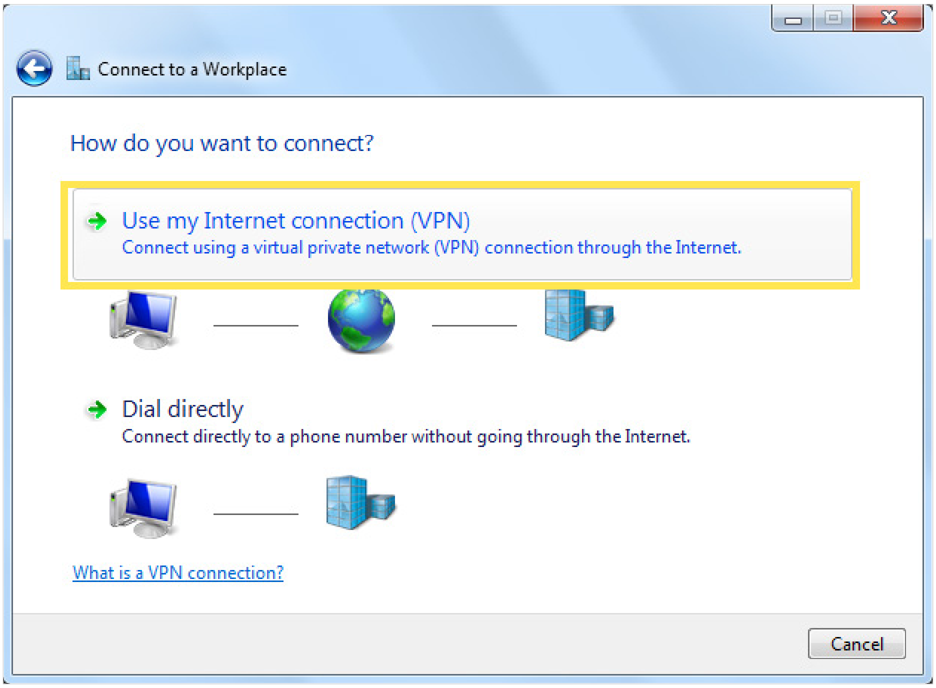
Connect to the Internet
Set up a wireless, broadband, or dial-up connection to the Internet.

Set up a new network
Configure a new router or access point.

Connect to a workplace
Set up a dial-up or VPN connection to your workplace.

Set up a dial-up connection
Connect to the Internet using a dial-up connection.

4. Select Use my Internet connection (VPN).


Connect to a Workplace

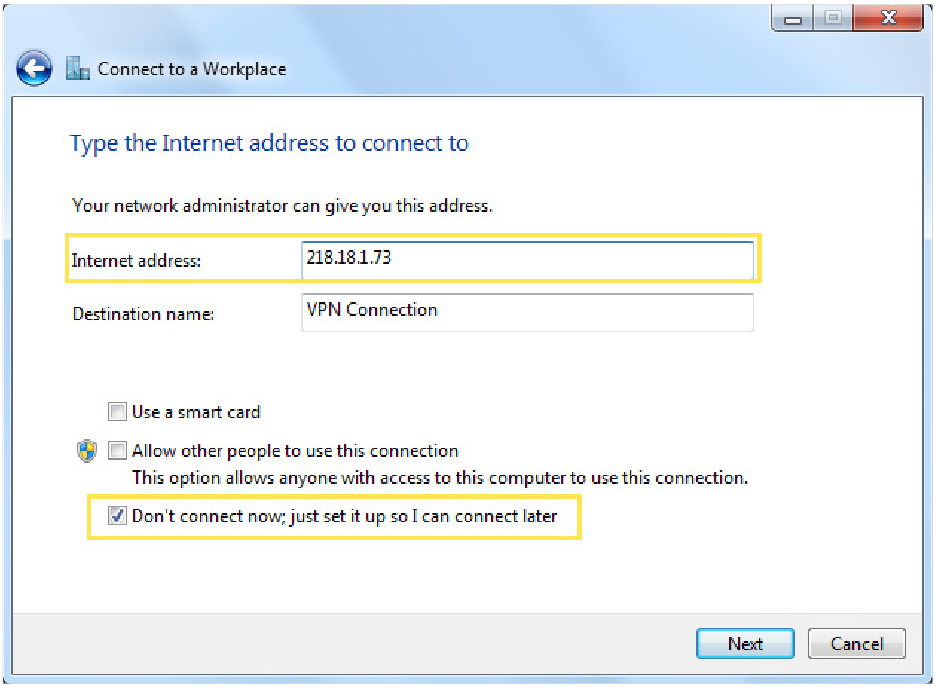
How do you want to connect?

→ Use my Internet connection (VPN)
Connect using a virtual private network (VPN) connection through the Internet.

→ Dial directly
Connect directly to a phone number without going through the Internet.

What is a VPN connection?

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


Connect to a Workplace

Type the Internet address to connect to

Your network administrator can give you this address.

Internet address: 218.18.1.73

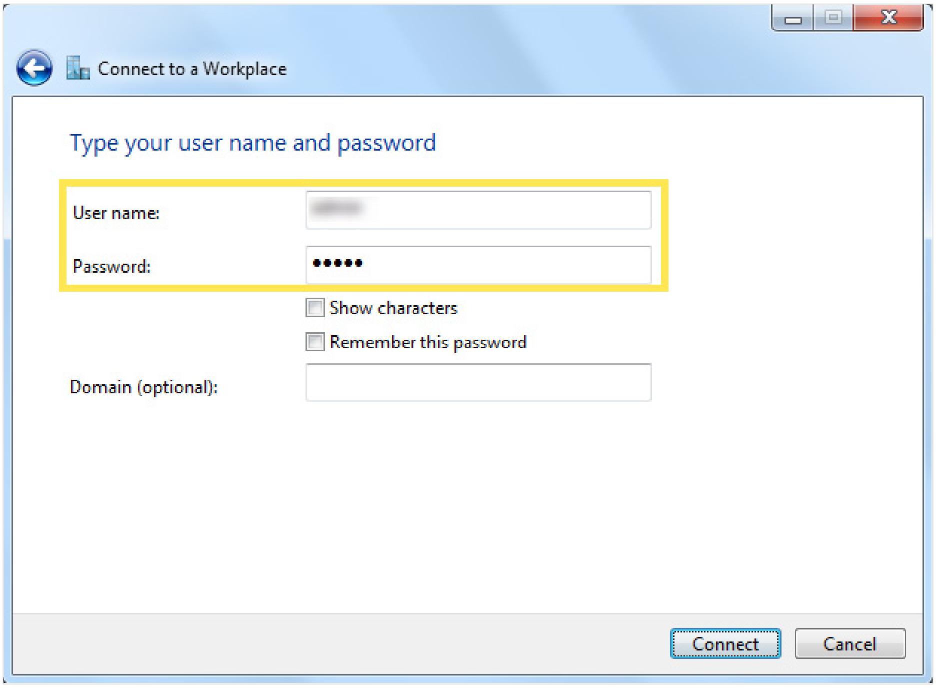
Destination name: VPN Connection

□ Use a smart card

□ Allow other people to use this connection
This option allows anyone with access to this computer to use this connection.

☑ Don't connect now; just set it up so I can connect later

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



Connect to a Workplace

Type your user name and password

User name: [redacted]

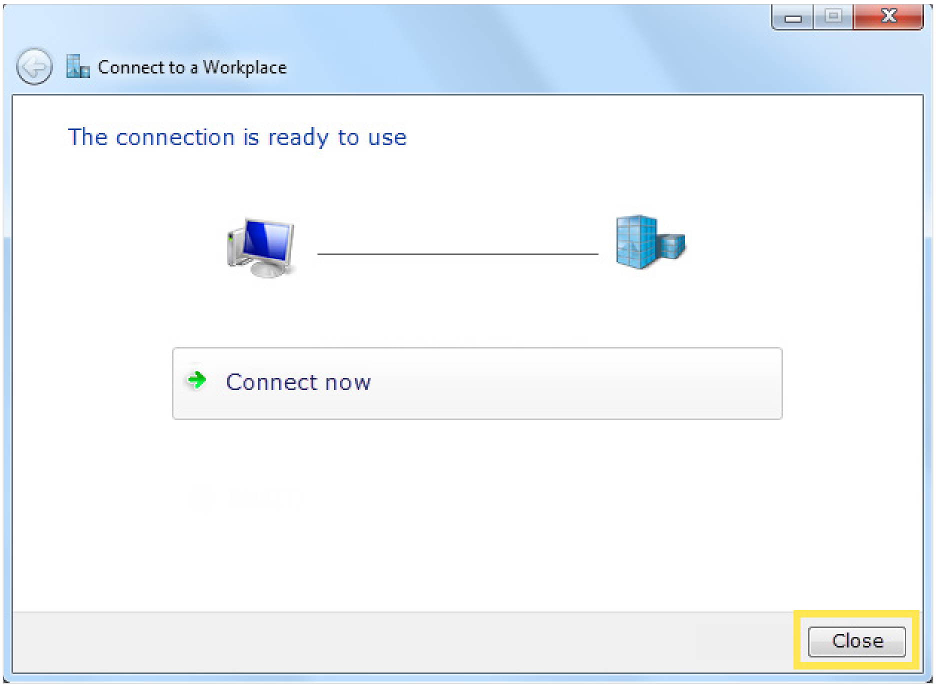
Password: ●●●●●

□ Show characters

□ Remember this password

Domain (optional):

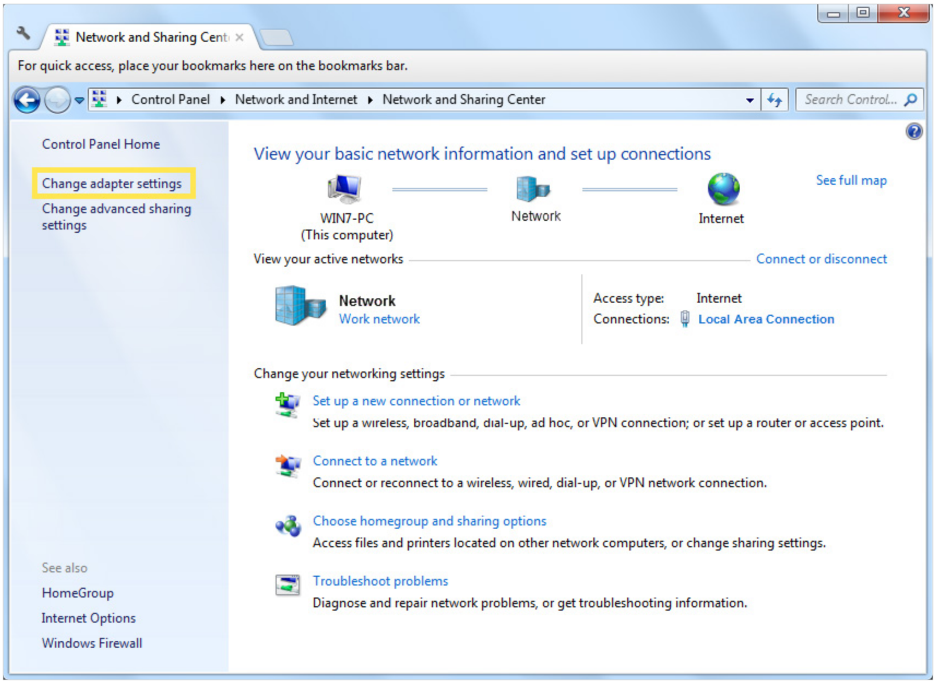
7. Click Close when the VPN connection is ready to use



Connect to a Workplace

The connection is ready to use

8. Go to Network and Sharing Center and click Change adapter settings.



Network and Sharing Cent

For quick access, place your bookmarks here on the bookmarks bar.

Control Panel ▸ Network and Internet ▸ Network and Sharing Center

Search Control...

Control Panel Home

Change adapter settings

Change advanced sharing settings

See also

HomeGroup

Internet Options

Windows Firewall

View your basic network information and set up connections

See full map

WIN7-PC (This computer) — Network — Internet

View your active networks — Connect or disconnect

Network
Work network

Access type: Internet
Connections: Local Area Connection

Change your networking settings

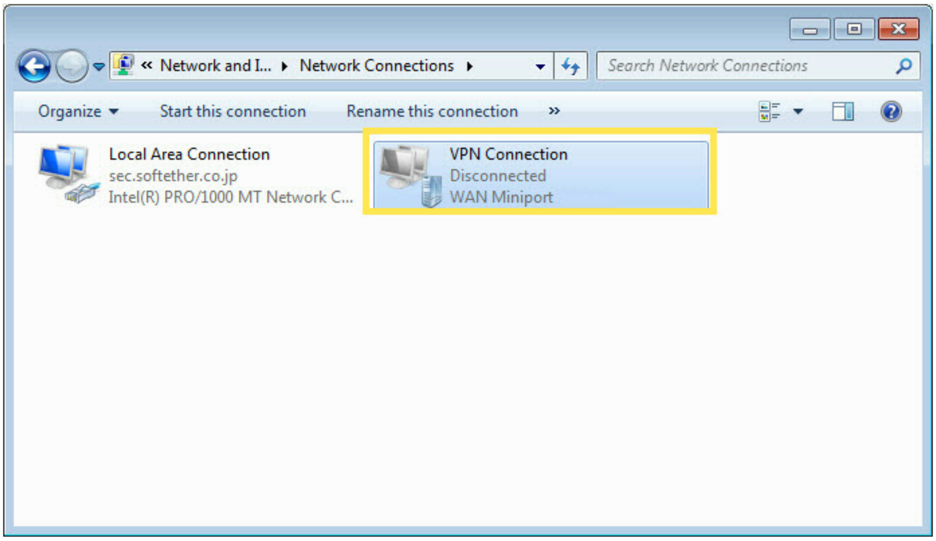
Set up a new connection or network
Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up a router or access point.

Connect to a network
Connect or reconnect to a wireless, wired, dial-up, or VPN network connection.

Choose homegroup and sharing options
Access files and printers located on other network computers, or change sharing settings.

Troubleshoot problems
Diagnose and repair network problems, or get troubleshooting information.

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



« Network and I... ▸ Network Connections ▸

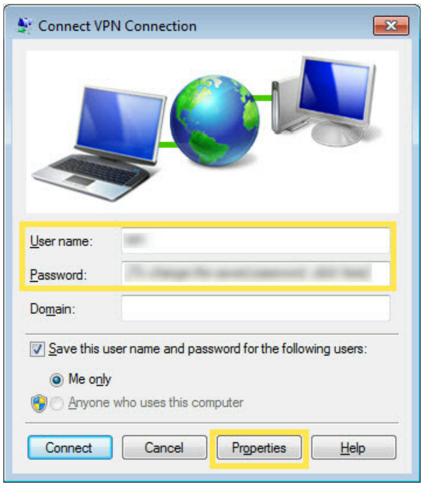
Search Network Connections

Organize ▾ Start this connection Rename this connection »

Local Area Connection
sec.softether.co.jp
Intel(R) PRO/1000 MT Network C...

VPN Connection
Disconnected
WAN Miniport

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



User name: [redacted]

Password: [redacted]

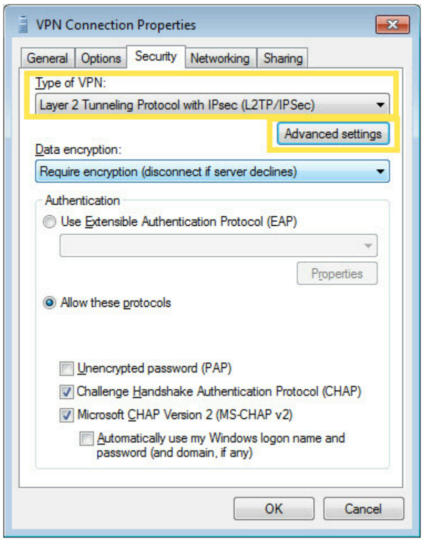
Domain:

☑ Save this user name and password for the following users:

● Me only

○ Anyone who uses this computer

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



Type of VPN: Layer 2 Tunneling Protocol with IPsec (L2TP/IPSec)

Data encryption: Require encryption (disconnect if server declines)

Authentication

○ Use Extensible Authentication Protocol (EAP)

● Allow these protocols

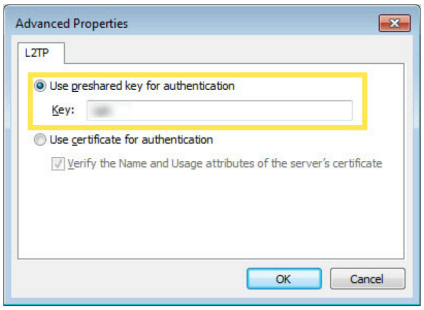
☐ Unencrypted password (PAP)

☑ Challenge Handshake Authentication Protocol (CHAP)

☑ Microsoft CHAP Version 2 (MS-CHAP v2)

☐ Automatically use my Windows logon name and password (and domain, if any)

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



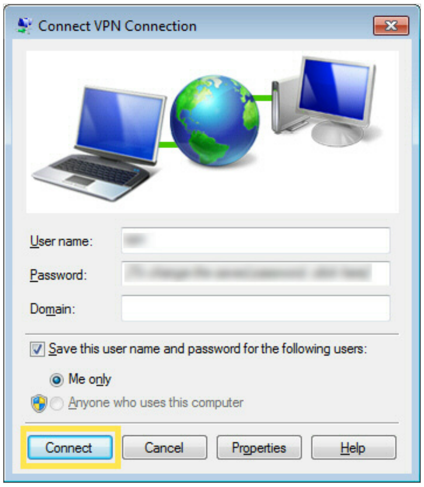
● Use preshared key for authentication

Key: [redacted]

○ Use certificate for authentication

☑ Verify the Name and Usage attributes of the server's certificate

Done! Click Connect to start VPN connection.



Connect VPN Connection

User name: [redacted]

Password: [redacted]

Domain:

☑ Save this user name and password for the following users:

● Me only

○ Anyone who uses this computer

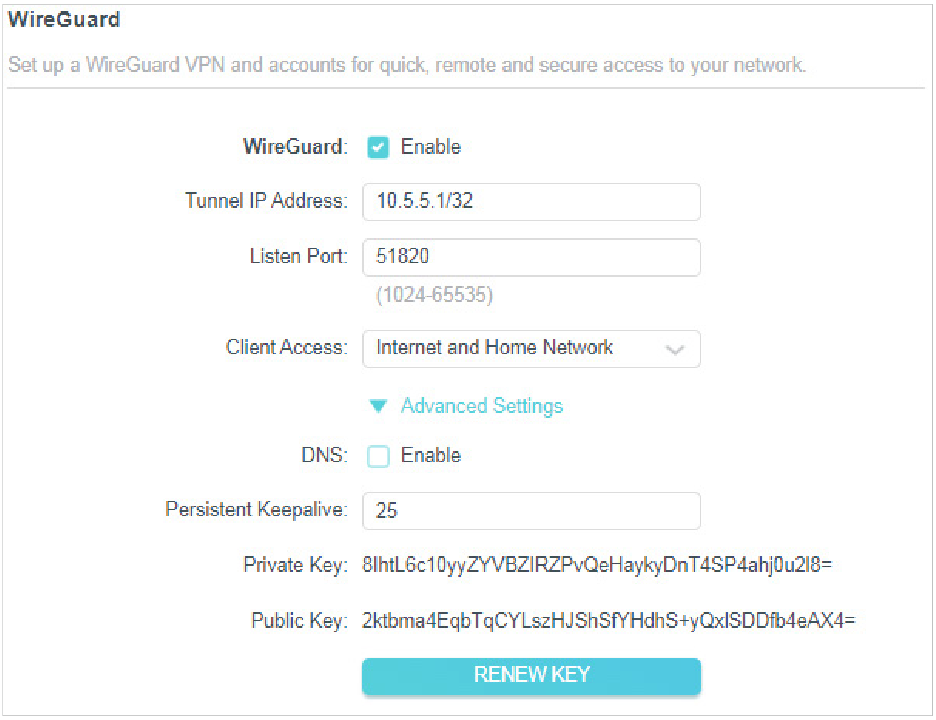
13. 4. Use WireGuard to Access Your HomeNetwork

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

Step 1. Set up WireGuard Server on Your Router

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

2. Go to Advanced > VPN Server > WireGuard, and tick the Enable box.



WireGuard

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

WireGuard: ☑ Enable

Tunnel IP Address: 10.5.5.1/32

Listen Port: 51820 (1024-65535)

Client Access: Internet and Home Network

▼ Advanced Settings

DNS: □ Enable

Persistent Keepalive: 25

Private Key: 8lhtL6c10yyZYVBZIRZPvQeHaykyDnT4SP4ahj0u2l8=

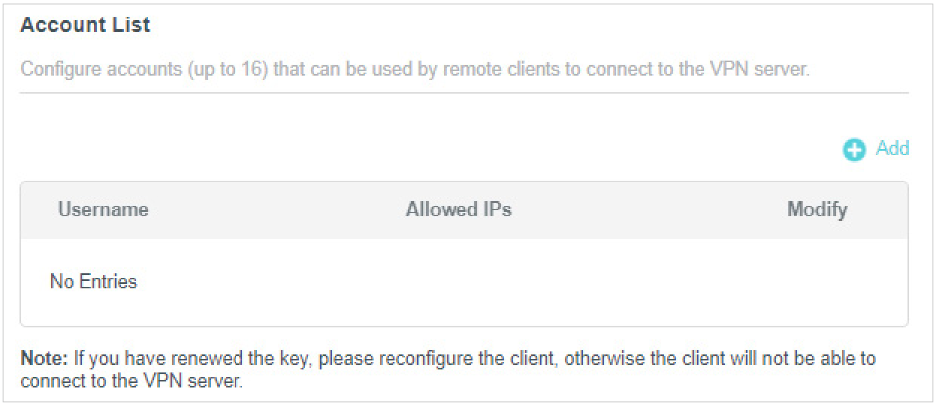
Public Key: 2ktbma4EqbTqCYLszHJShSfYHdhS+yQxlSDDfb4eAX4=

3. Fill in the following parameters:

- Tunnel IP Address: 192.168.0.1 (This is the IP address of the WireGuard VPN interface, it is recommended not to have the same LAN IP as the router.)
- Listen Port: Enter 51820 (The default port is 51820, which can be modified).
- 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.
- (Optional) Click Advanced Settings to display more settings. If DNS is turned on, the router will become the DNS server of the VPN client that establishes a connection with it. Change the Persistent Keepalive time (25 seconds by default) to send out heartbeat regularly, you can also click RENEW KEY to update the private key and public key.

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

1. Locate the Account List section. Click Add to create an account.

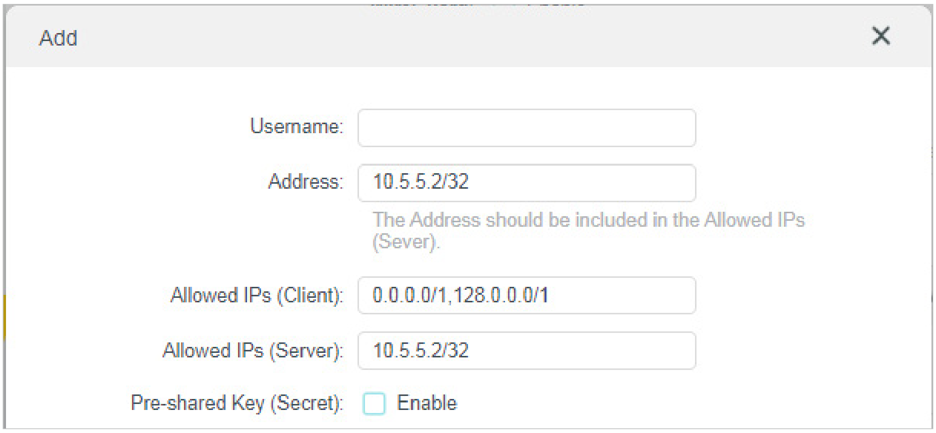


Account List

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

Username	Allowed IPs	Modify
No Entries		

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



Username:

Address: 10.5.5.2/32

The Address should be included in the Allowed IPs (Sever).

Allowed IPs (Client): 0.0.0.0/1,128.0.0.0/1

Allowed IPs (Server): 10.5.5.2/32

Pre-shared Key (Secret): □ Enable

2. Give a Username to this account.

3. View the Address of the virtual interface assigned to this account. Do NOT change it unless necessary.

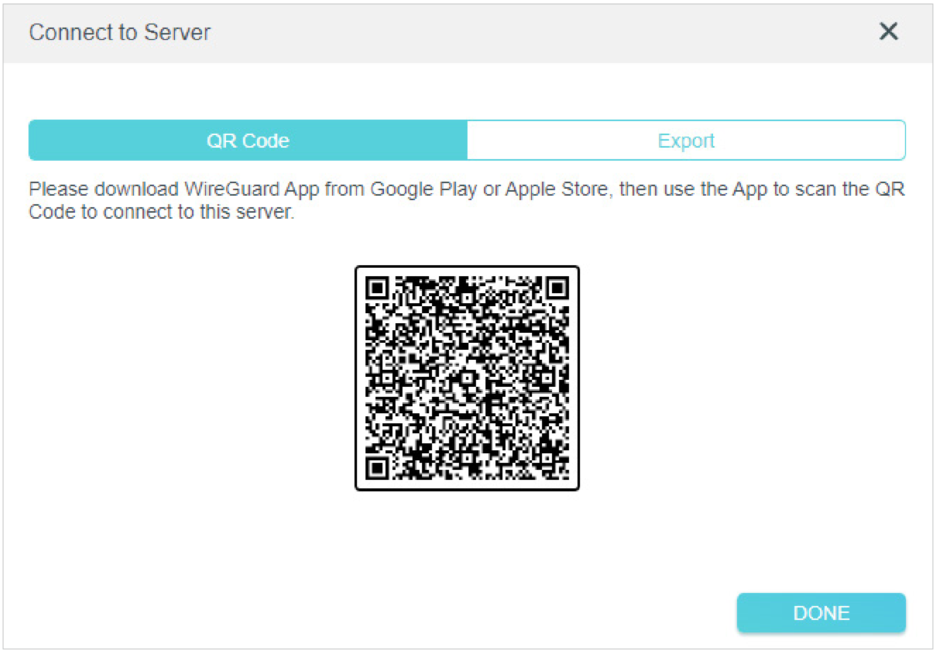
4. Traffic sent from the WireGard VPN client to the allowed IPs (client) will be transmitted through the tunnel. By default, all network traffic from clients will be transmitted through the tunnel. Do NOT change it unless necessary.

5. Traffic sent from the WireGard VPN server to the allowed IPs (server) will be transmitted through the tunnel. Do NOT change it unless necessary.

6. Enable or disable Pre-shared Key.

7. Click SAVE.

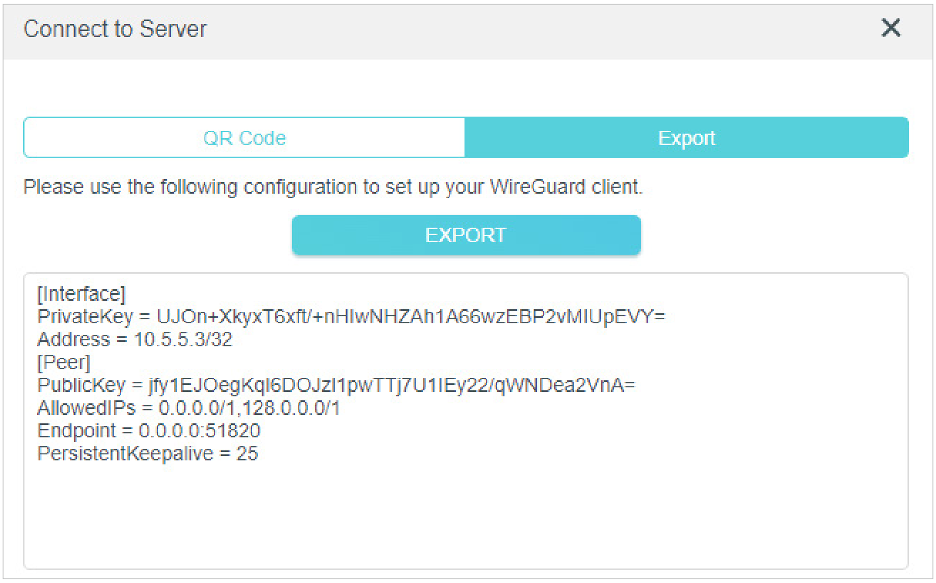
Note: One account can only be used by one WireGuard VPN client at the same time to connect to the WireGuard VPN server.



Please download WireGuard App from Google Play or Apple Store, then use the App to scan the QR Code to connect to this server.

8. 8. Connect to the WireGuard server.

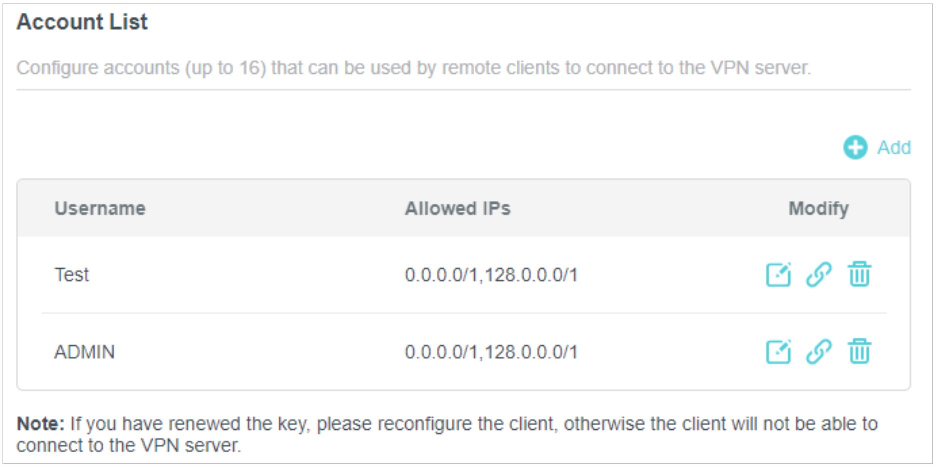
- For mobile phones, download WireGuard App from Google Play or Apple Store, then use the App to scan the QR Code to connect to this server.
- For other devices (e.g. TP-Link WireGuard VPN client), Click EXPORT to save the WireGuard VPN configuration file which will be used by the remote device to access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



Please use the following configuration to set up your WireGuard client.

```
[Interface]
PrivateKey = UJOn+XkyxT6xft/+nHIwNHZAh1A66wzEBP2vMIUpEVY=
Address = 10.5.5.3/32
[Peer]
PublicKey = jfy1EJOegKqI6DOJzI1pwTTj7U1IEy22/qWNDea2VnA=
AllowedIPs = 0.0.0.0/1,128.0.0.0/1
Endpoint = 0.0.0.0:51820
PersistentKeepalive = 25
```

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



Account List

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

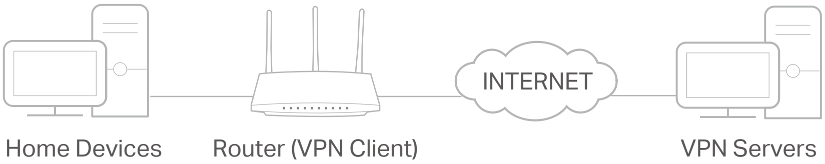
Username	Allowed IPs	Modify
Test	0.0.0.0/1,128.0.0.0/1	
ADMIN	0.0.0.0/1,128.0.0.0/1	

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

13. 5. Use VPN Client to Access a Remote VPN Server

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

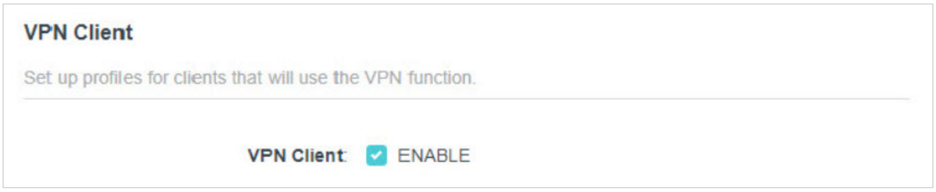
To use the VPN feature, simply configure a VPN connection and choose your desired devices on your router, then these devices can access the remote VPN server. Please follow the steps below:



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

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

3. Enable VPN Client, then save the settings.

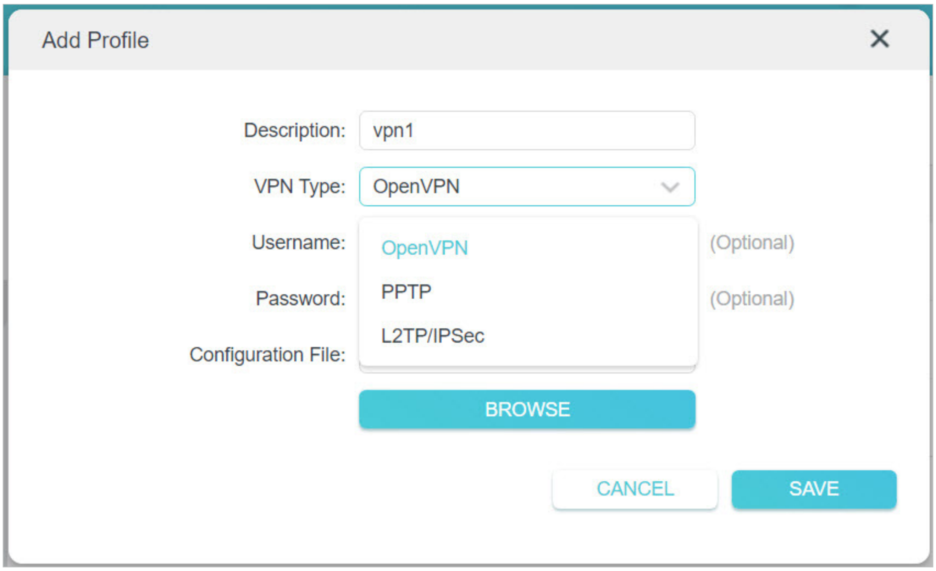


VPN Client

Set up profiles for clients that will use the VPN function.

VPN Client: ☑ ENABLE

4. Add VPN servers, and enable the one you need.
   1) In the Server List section, click Add.
   2) Specify a description for the VPN, and choose the VPN type.



Add Profile

Description: vpn1

VPN Type: OpenVPN

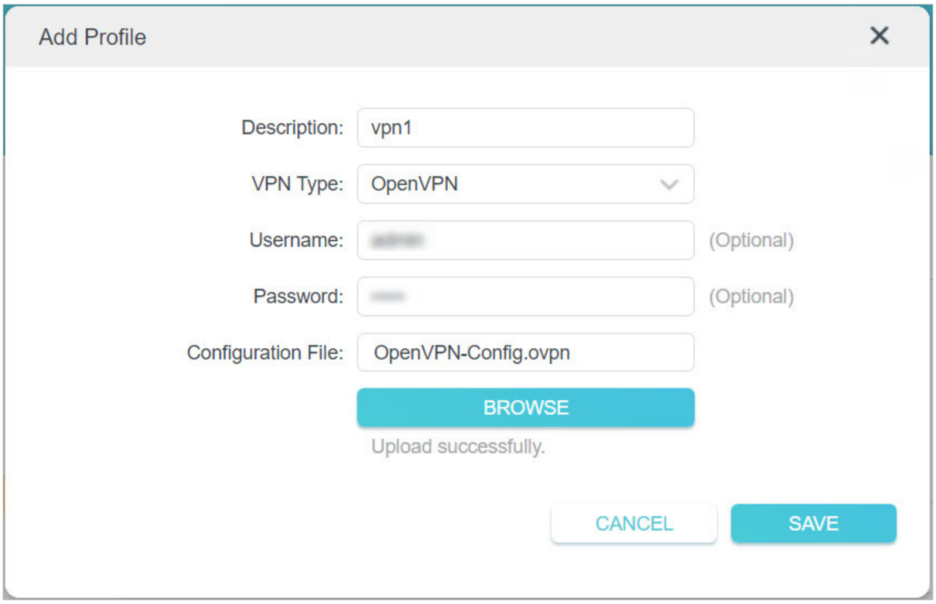
Username: (Optional)

Password: (Optional)

Configuration File:

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

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



Add Profile

Description: vpn1

VPN Type: OpenVPN

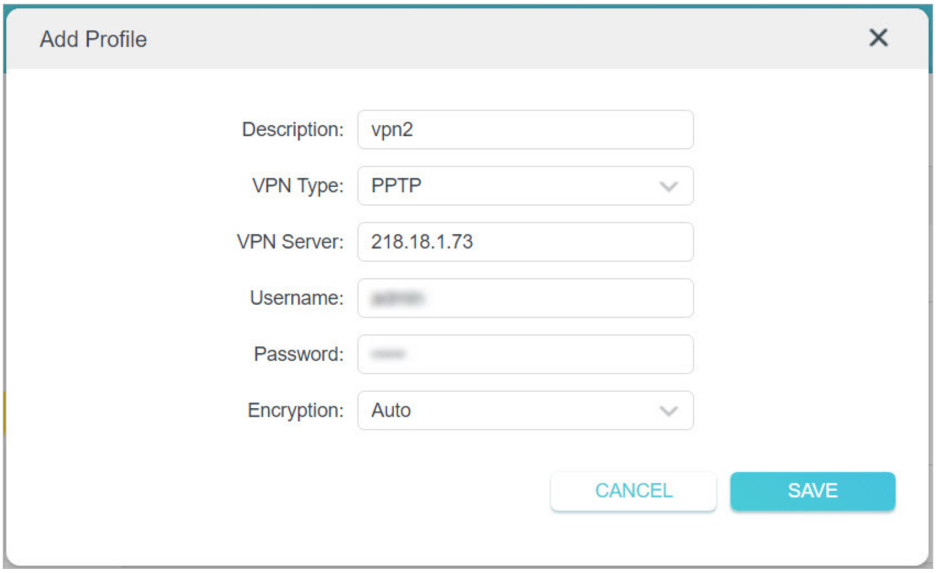
Username: [redacted] (Optional)

Password: [redacted] (Optional)

Configuration File: OpenVPN-Config.ovpn

Upload successfully.

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



Add Profile

Description: vpn2

VPN Type: PPTP

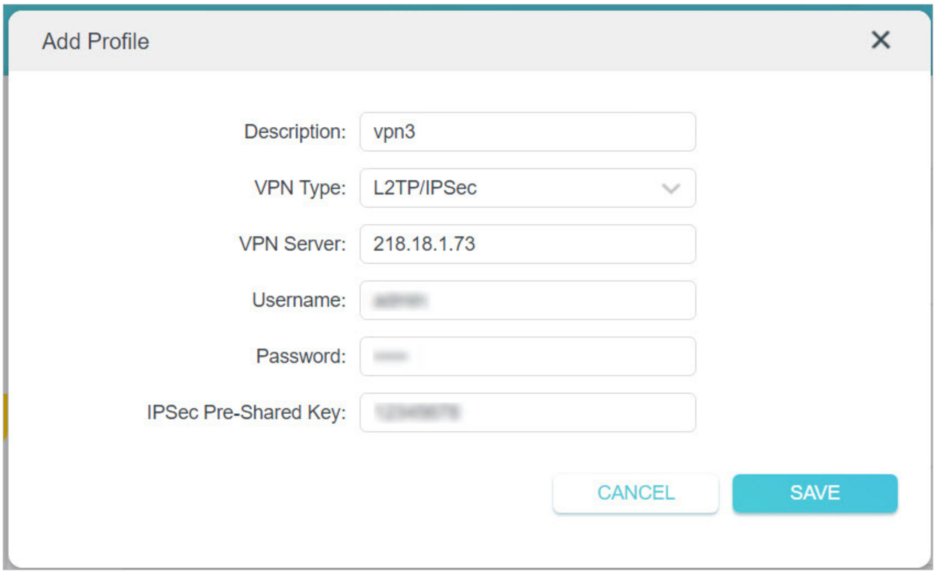
VPN Server: 218.18.1.73

Username: [redacted]

Password: [redacted]

Encryption: Auto

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

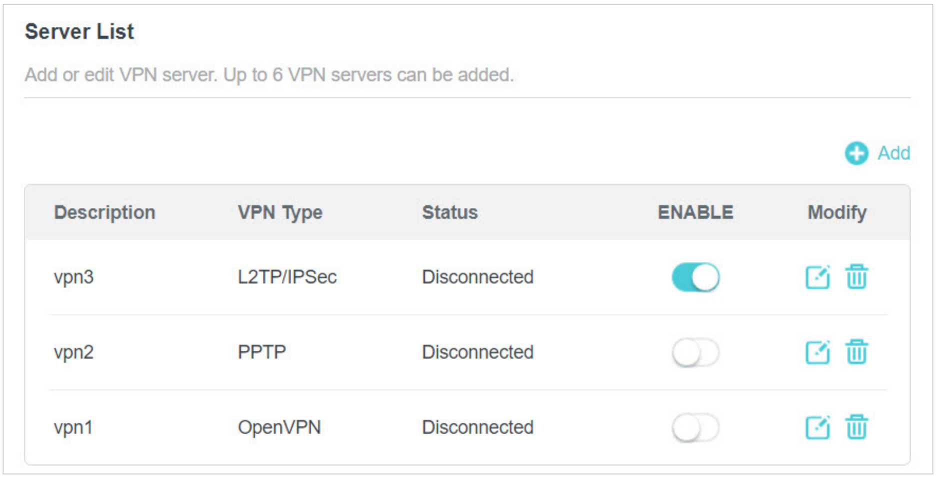


Add Profile

Description:	vpn3
VPN Type:	L2TP/IPSec
VPN Server:	218.18.1.73
Username:	[redacted]
Password:	[redacted]
IPSec Pre-Shared Key:	[redacted]

4) Save the settings.

5) In the server list, enable the one you need.



Server List

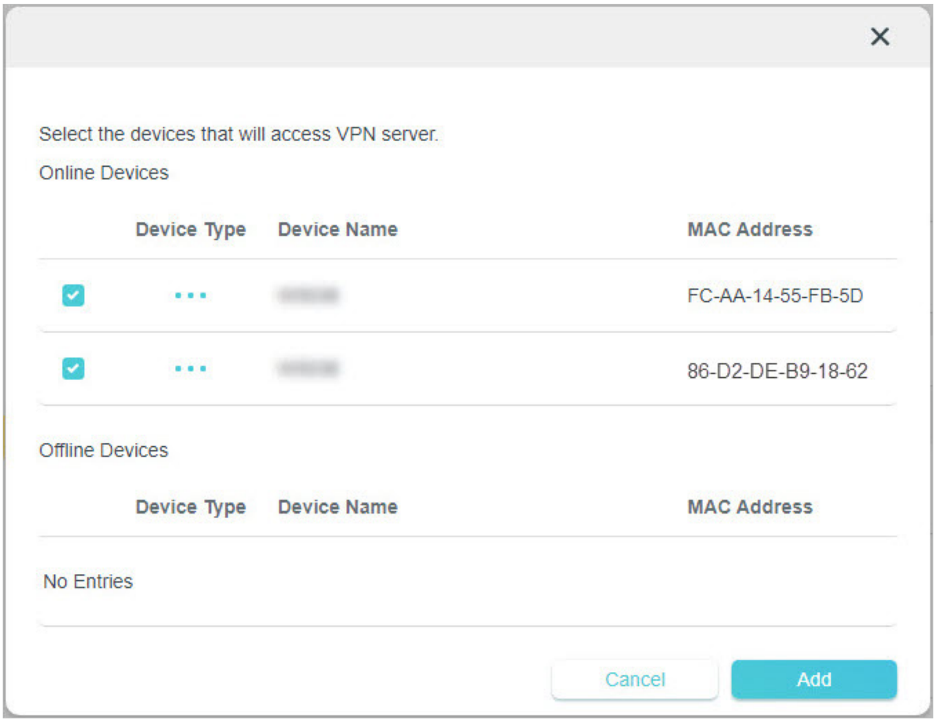
Add or edit VPN server. Up to 6 VPN servers can be added.

Description	VPN Type	Status	ENABLE	Modify
vpn3	L2TP/IPSec	Disconnected	●	✎ 🗑
vpn2	PPTP	Disconnected	○	✎ 🗑
vpn1	OpenVPN	Disconnected	○	✎ 🗑

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

1) In the Device List section, click Add.

2) Choose and add the devices that will access the VPN server you have configured.



Select the devices that will access VPN server.

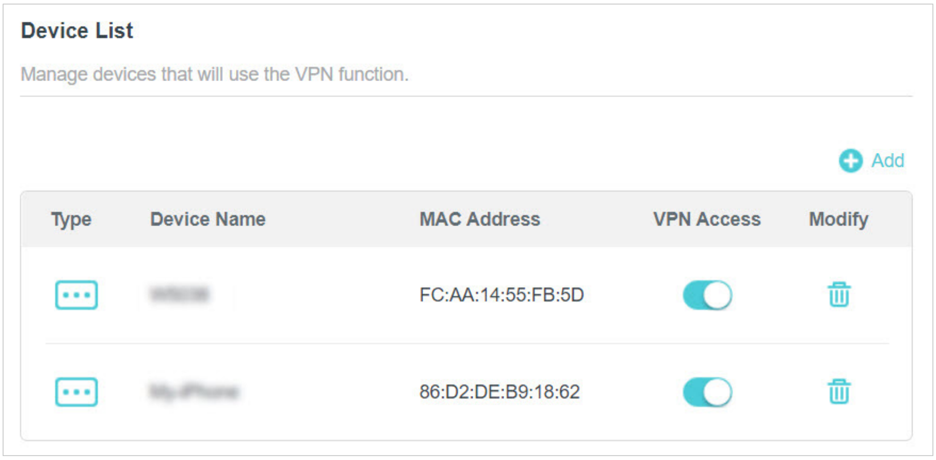
Online Devices

	Device Type	Device Name	MAC Address
☑	•••	[redacted]	FC-AA-14-55-FB-5D
☑	•••	[redacted]	86-D2-DE-B9-18-62

Offline Devices

Device Type	Device Name	MAC Address
No Entries		

6. Save the settings.



Device List

Manage devices that will use the VPN function.

Type	Device Name	MAC Address	VPN Access	Modify
•••	[redacted]	FC:AA:14:55:FB:5D	●	🗑
•••	[redacted]	86:D2:DE:B9:18:62	●	🗑

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

Chapter 14

Customize Your Network Settings

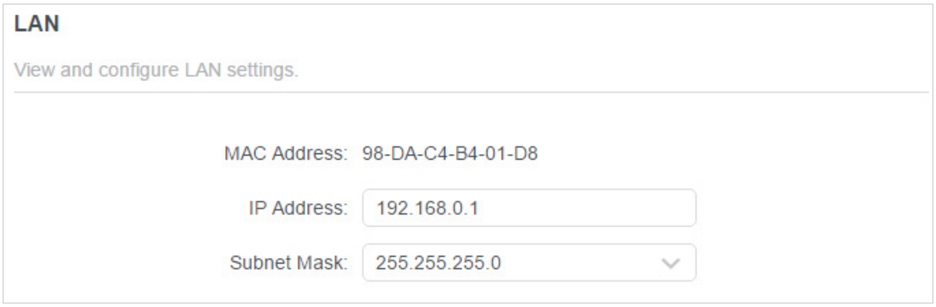
This chapter guides you on how to configure advanced network features.

It contains the following sections:

14. 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.



LAN

View and configure LAN settings.

MAC Address: 98-DA-C4-B4-01-D8

IP Address: 192.168.0.1

Subnet Mask: 255.255.255.0

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.

14. 2. Configure to Support IPTV Service

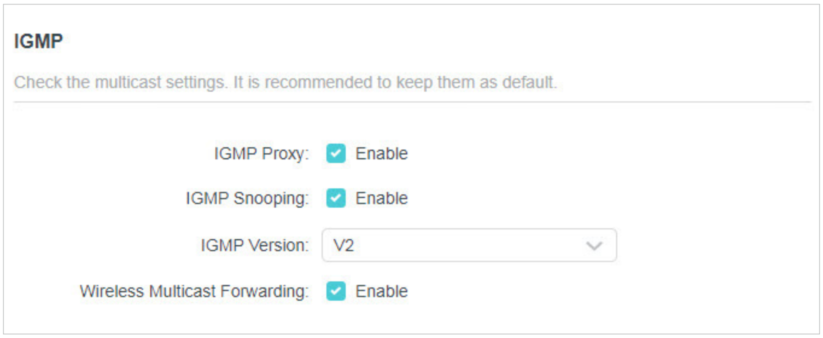
I want to:

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 and IGMP Snooping checkbox, then select the IGMP Version, either V2 or V3, as required by your ISP.



IGMP

Check the multicast settings. It is recommended to keep them as default.

IGMP Proxy: ☑ Enable

IGMP Snooping: ☑ Enable

IGMP Version: V2

Wireless Multicast Forwarding: ☑ Enable

2) Click SAVE.

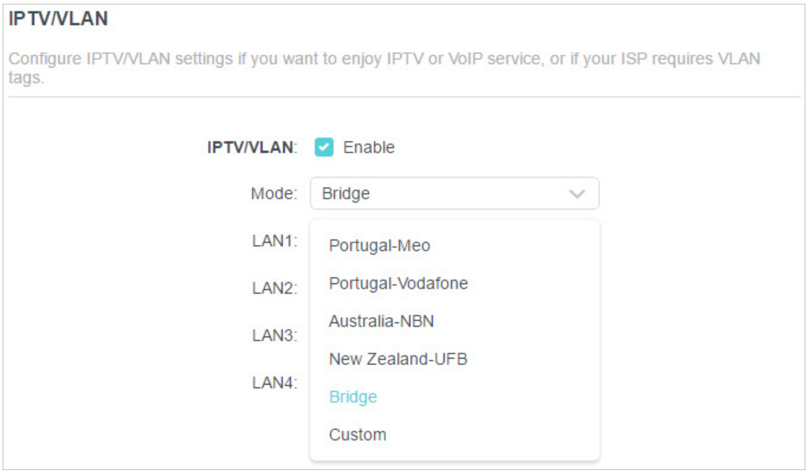
3) After configuring IGMP proxy, IPTV can work behind your router now. You can connect your set-top box to any of the router's Ethernet port.

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.



IPTV/VLAN

Configure IPTV/VLAN settings if you want to enjoy IPTV or VoIP service, or if your ISP requires VLAN tags.

IPTV/VLAN: ☑ Enable

Mode: Bridge

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!

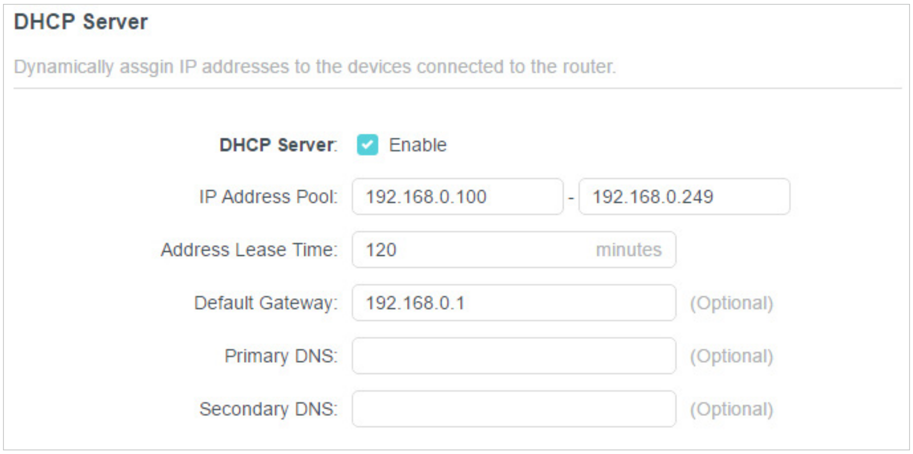
Your IPTV setup is done now! You may need to configure your set-top box before enjoying your TV.

14. 3. Specify DHCP Server Settings

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

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

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



DHCP Server

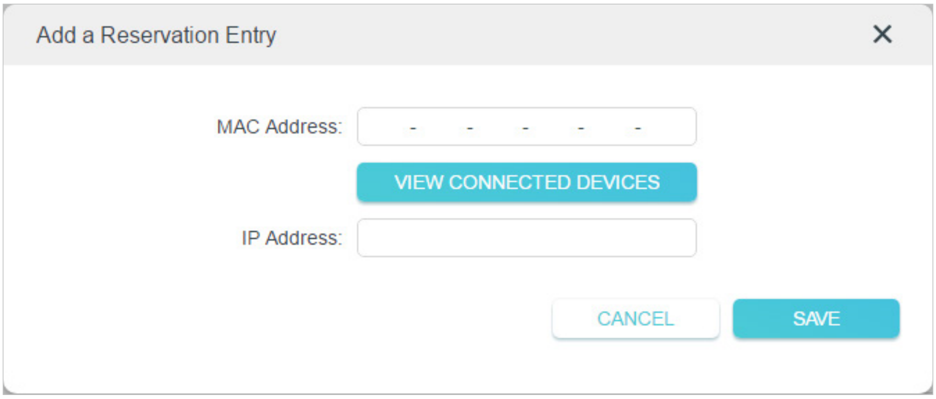
Dynamically assgin IP addresses to the devices connected to the router.

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:		(Optional)
Secondary DNS:		(Optional)

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

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

1. Click Add in the Address Reservation section.



Add a Reservation Entry

MAC Address: - - - - -

IP Address:

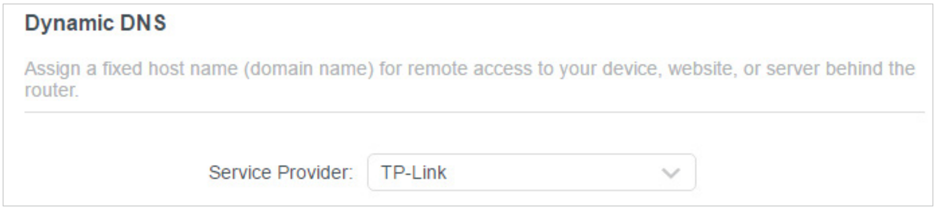
2. Click VIEW CONNECTED DEVICES and select the you device you want to reserve an IP for. Then the MAC Address will be automatically filled in. Or enter the MAC address of the client device manually.
3. Enter the IP address to reserve for the client device.
4. Click SAVE.

14. 4. 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.



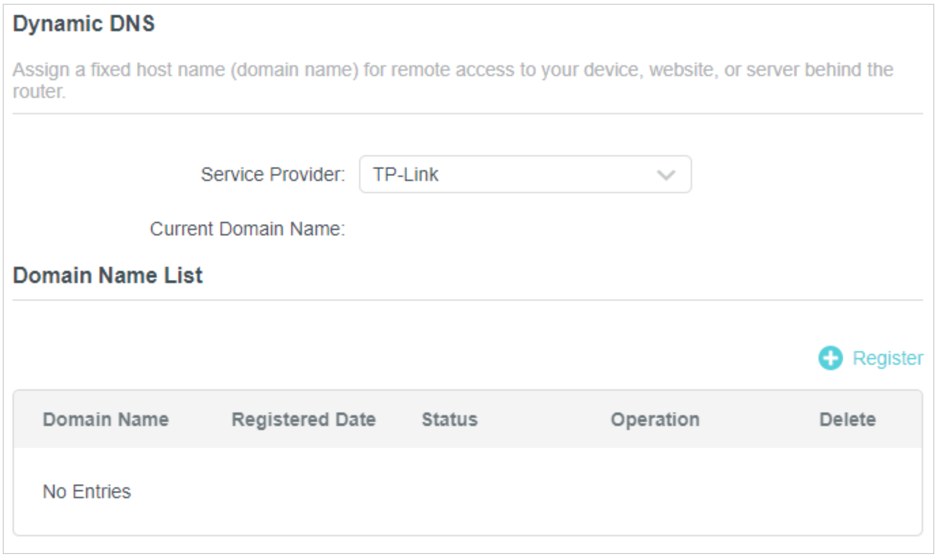
Dynamic DNS

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

Service Provider: TP-Link

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.

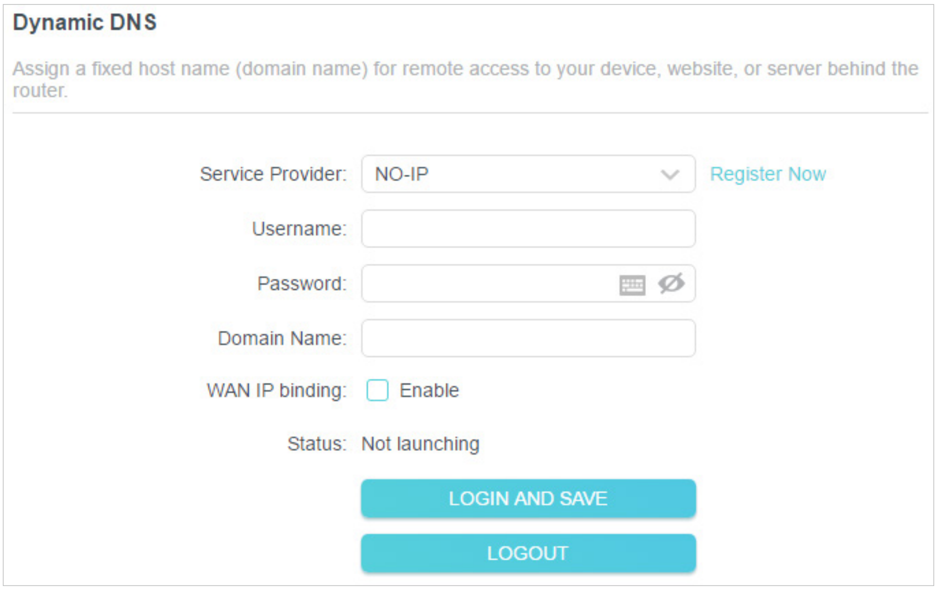
Service Provider: TP-Link

Current Domain Name:

Domain Name List

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

Username:

Password:

Domain Name:

WAN IP binding: □ Enable

Status: Not launching

5. Click LOGIN AND SAVE.

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

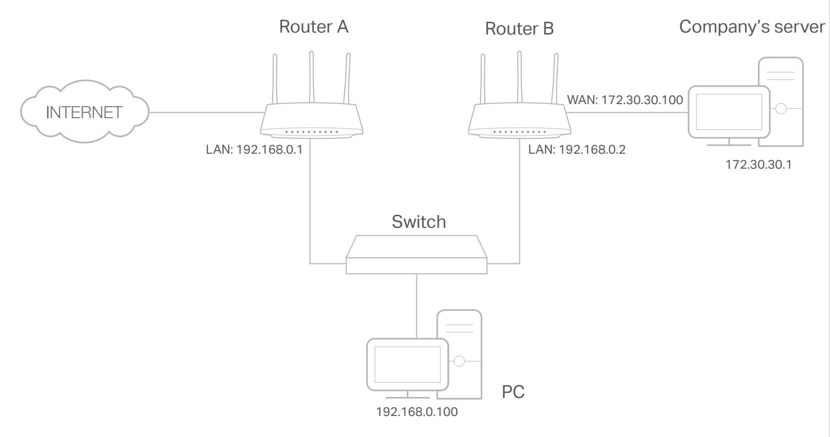
14. 5. Create Static Routes

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:

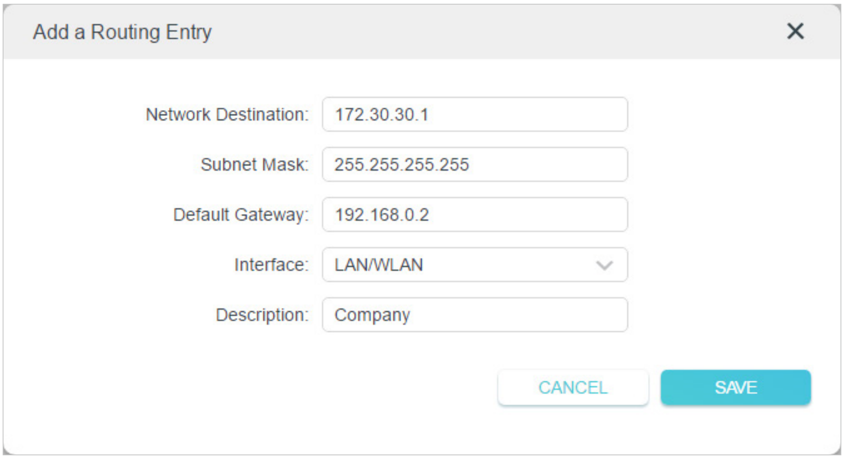
Visit multiple networks and servers at the same time.

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:



Add a Routing Entry ✕

Network Destination: 172.30.30.1

Subnet Mask: 255.255.255.255

Default Gateway: 192.168.0.2

Interface: LAN/WLAN

Description: Company

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

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

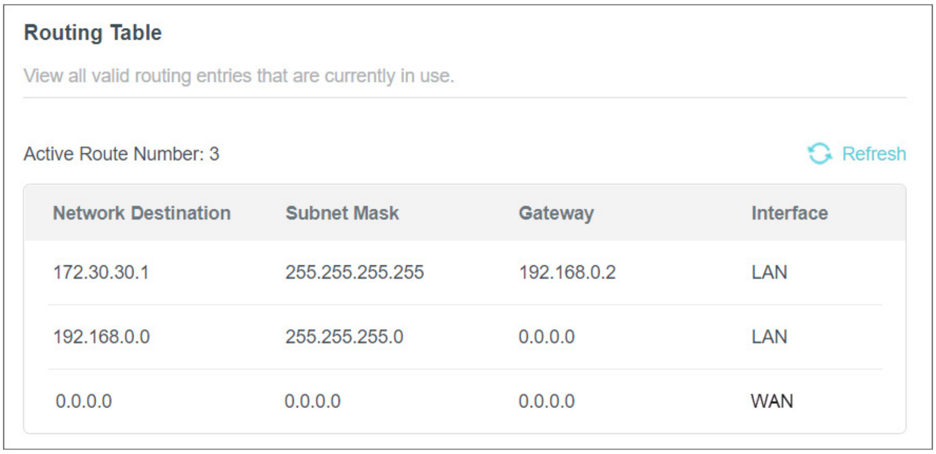
Default Gateway: The IP address of the gateway device to which the data packets will be sent. This IP address must be on the same subnet with the router's IP which sends out data. In the example, the data packets will be sent to the LAN port of Router B and then to the Server, so the default gateway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

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

Description: Enter a description for this static routing entry.

5. Click SAVE.

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



Routing Table

View all valid routing entries that are currently in use.

Active Route Number: 3

Network Destination	Subnet Mask	Gateway	Interface
172.30.30.1	255.255.255.255	192.168.0.2	LAN
192.168.0.0	255.255.255.0	0.0.0.0	LAN
0.0.0.0	0.0.0.0	0.0.0.0	WAN

Done!

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

Chapter 15

Manage the Router

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

It contains the following sections:

15. 1. Update the Firmware

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

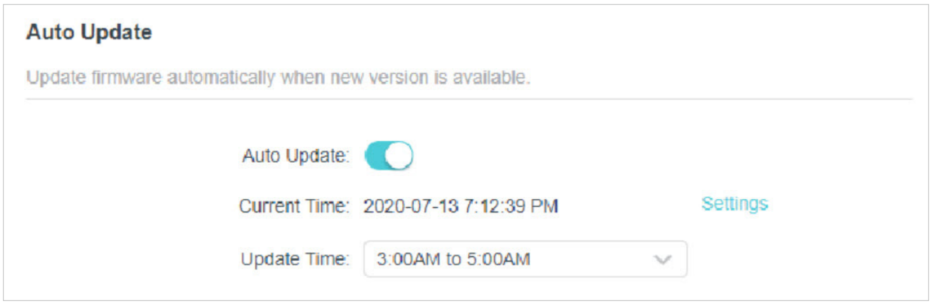
We will inform you through the web management page if there's any new firmware available for your router. Also, the latest firmware will be released at the TP-Link official website www.tp-link.com, and you can download it from the Support page for free.

Note:

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

15. 1. 1. Auto Update

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



Auto Update

Update firmware automatically when new version is available.

Auto Update: ●

Current Time: 2020-07-13 7:12:39 PM

Update Time: 3:00AM to 5:00AM

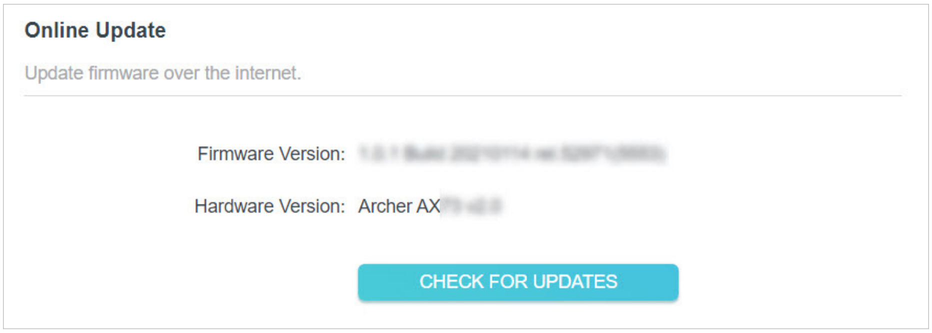
4. Specify the Update Time and save the settings.

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

15. 1. 2. Online Update

1. Visit http://tplinkwifi.net, and log in with your TP-Link ID or the password you set for the router.
2. When the latest firmware is available for your router, the update icon ⊕ will display in the top-right corner of the page. Click the icon to go to the Firmware Update page.

   Alternatively, you can go to Advanced > System > Firmware Update, and click CHECK FOR UPDATES to see whether the latest firmware is released.



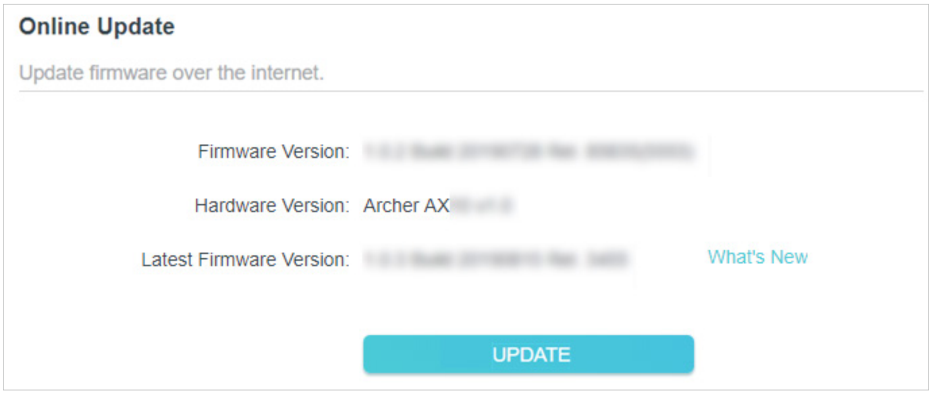
Online Update

Update firmware over the internet.

Firmware Version: [redacted]

Hardware Version: Archer AX[redacted]

3. Focus on the Online Update section, and click UPDATE if there is new firmware.



Online Update

Update firmware over the internet.

Firmware Version: [redacted]

Hardware Version: Archer AX[redacted]

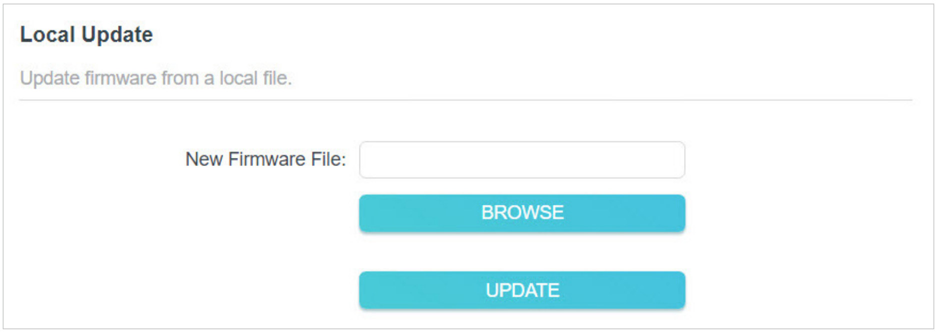
Latest Firmware Version: [redacted]

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

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

15. 1. 3. Local Update

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



Local Update

Update firmware from a local file.

New Firmware File:

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

Note: If you fail to update the firmware for the router, please contact our Technical Support.

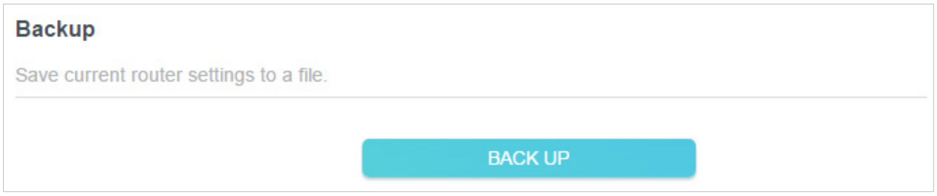
15. 2. Backup and Restore Configuration Settings

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:**

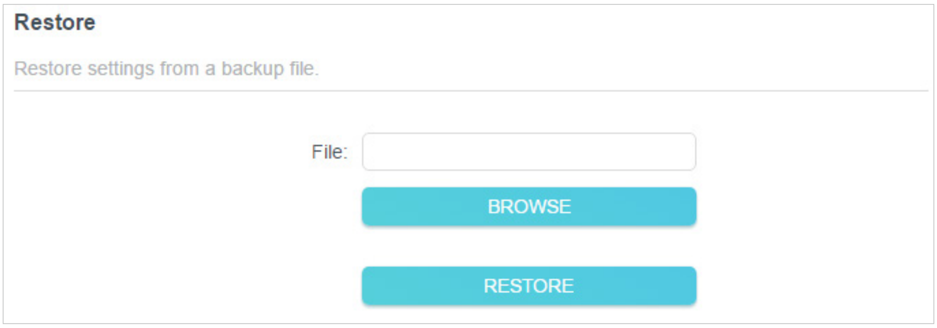
Click BACK UP to save a copy of the current settings to your local computer. A '.bin' file of the current settings will be stored to your computer.


Backup

Save current router settings to a file.

- **To restore configuration settings:**

1. Click BROWSE to locate the backup configuration file stored on your computer, and click RESTORE.


Restore

Restore settings from a backup file.

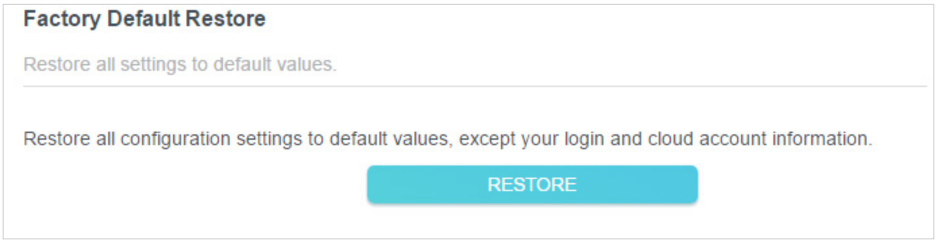
File:

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.



Factory Default Restore

Restore all settings to default values.

Restore all configuration settings to default values, except your login and cloud account information.

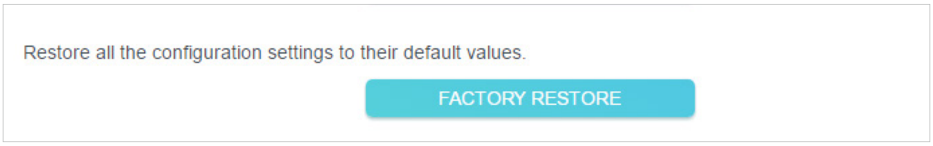
2. Wait a few minutes for the resetting and rebooting.

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.



Restore all the configuration settings to their default values.

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.

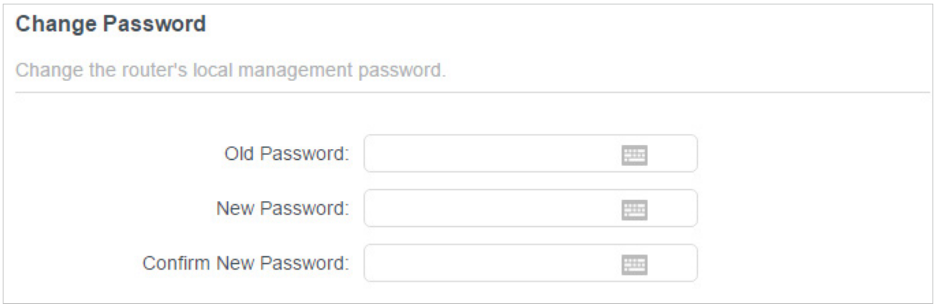
15. 3. Change the Login Password

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.



Change Password

Change the router's local management password.

Old Password:

New Password:

Confirm New Password:

3. Enter the old password, then a new password twice (both case-sensitive). Click SAVE.

4. Use the new password for future logins.

15. 4. Password Recovery

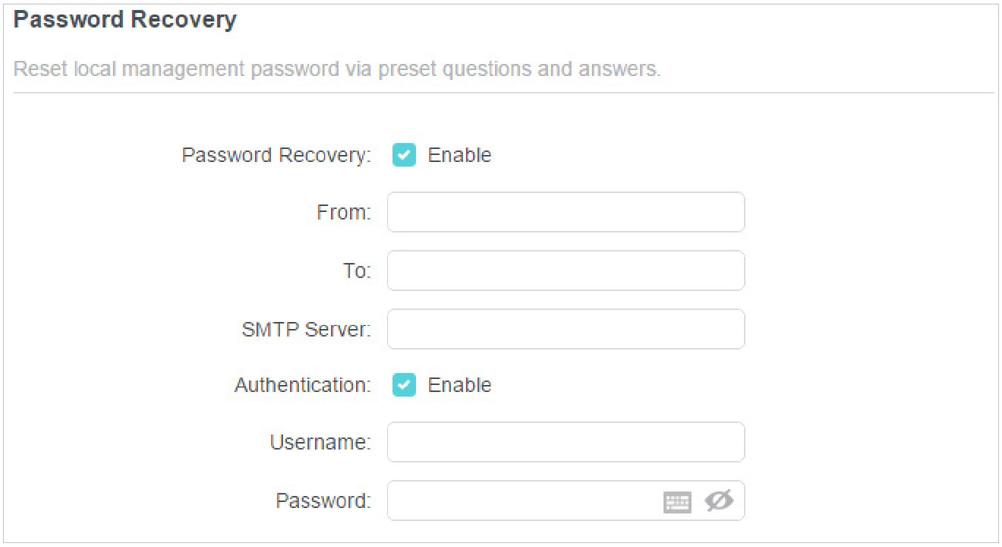
This feature allows you to recover the login password you set for you router in case you forget it.

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.



Password Recovery

Reset local management password via preset questions and answers.

Password Recovery:	☑ Enable
From:	
To:	
SMTP Server:	
Authentication:	☑ Enable
Username:	
Password:	

5. Click SAVE.

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

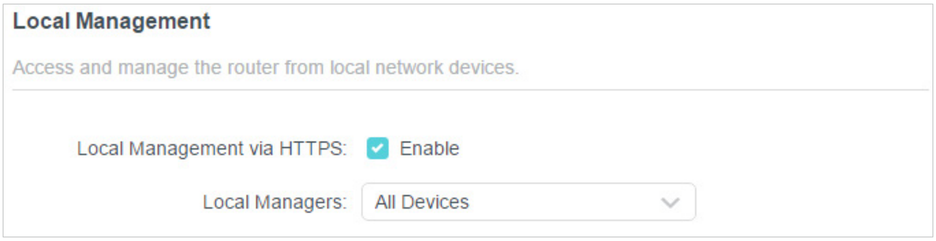
15. 5. Local Management

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

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

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

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



Local Management

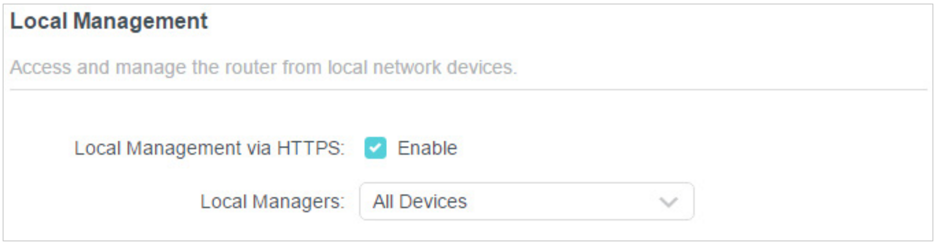
Access and manage the router from local network devices.

Local Management via HTTPS: ☑ Enable

Local Managers: All Devices

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

Select All Devices for Local Managers.



Local Management

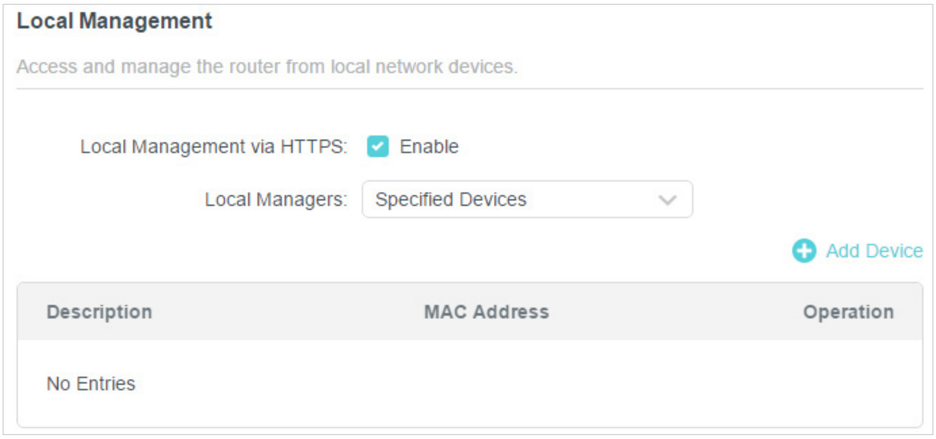
Access and manage the router from local network devices.

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

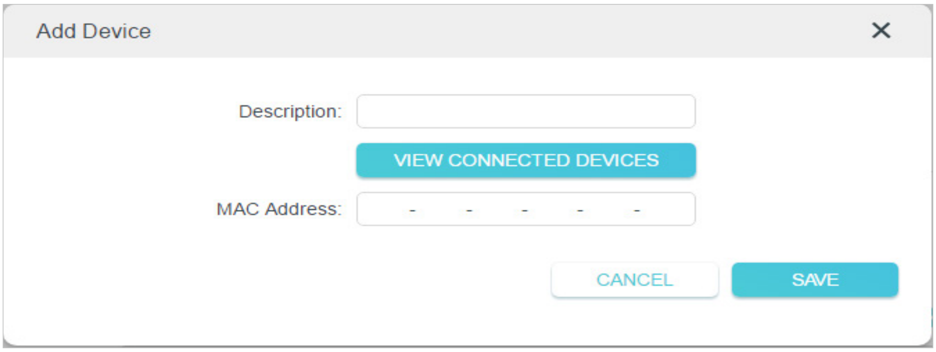
Access and manage the router from local network devices.

Local Management via HTTPS: ☑ Enable

Local Managers: Specified Devices

Description	MAC Address	Operation
No Entries		

2. Click Add Device.



Add Device

Description:

MAC Address: - - - - -

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.

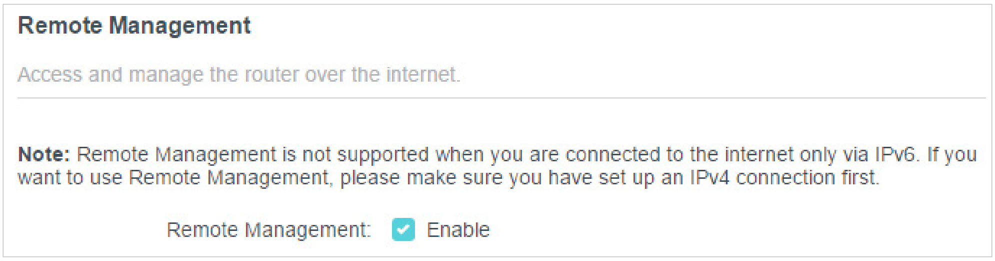
15. 6. Remote Management

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.



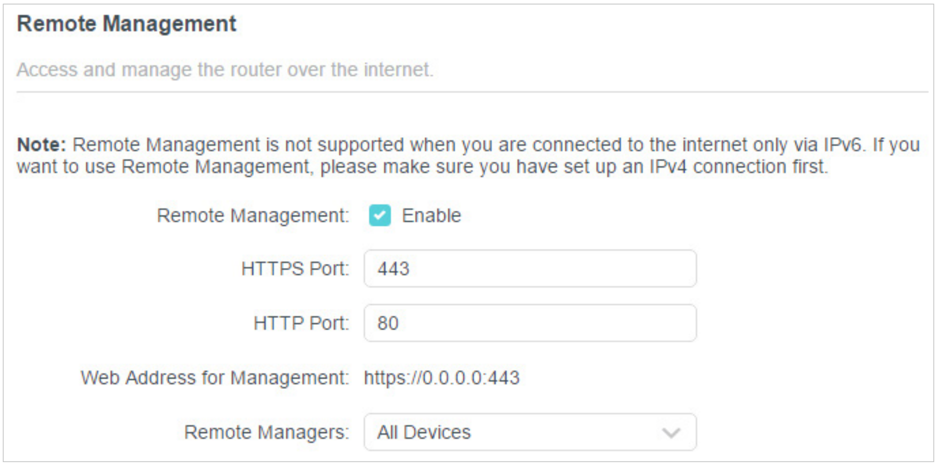
Remote Management

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: 443

HTTP Port: 80

Web Address for Management: https://0.0.0.0:443

Remote Managers: All Devices

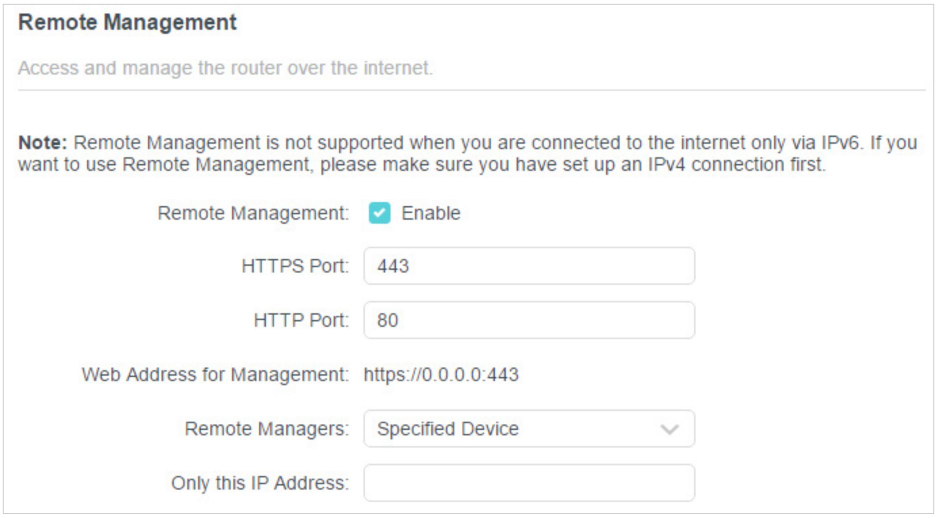
1. Tick the Enable checkbox of Remote Management.
2. Keep the HTTPS and HTTP port as default settings (recommended) or enter a value between 1024 and 65535.
3. Select All Devices for Remote Managers.
4. Click SAVE.

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:**



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:	443
HTTP Port:	80
Web Address for Management:	https://0.0.0.0:443
Remote Managers:	Specified Device
Only this IP Address:	

1. Tick the Enable checkbox of Remote Management.
2. Keep the HTTPS and HTTP port as default settings (recommended) or enter a value between 1024 and 65535.
3. Select Specified Device for Remote 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).

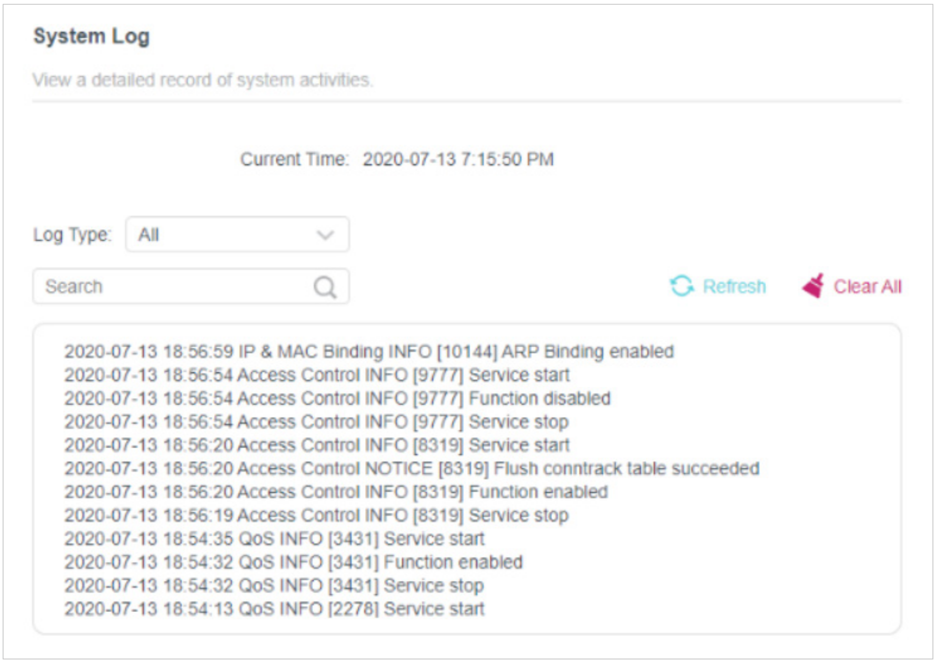
Tips: The router's WAN IP is usually a dynamic IP. Please refer to Set Up a Dynamic DNS Service Account if you want to log in to the router through a domain name.

15. 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:**

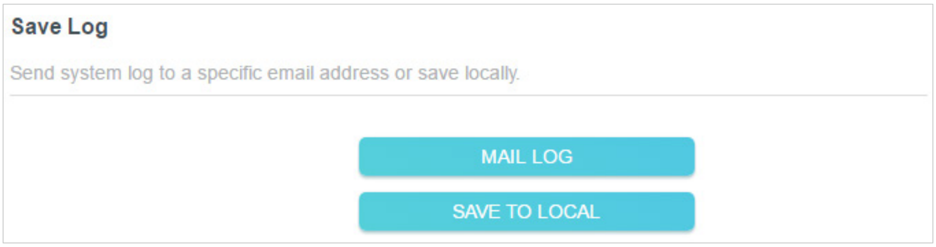
1. Visit http://tplinkwifi.net, and log in your TP-Link ID or the password you set for the router.
2. Go to Advanced > System > System Log.
3. Choose the type and level of the system logs as needed.



System Log
View a detailed record of system activities.
Current Time: 2020-07-13 7:15:50 PM
Log Type: All
Search
Refresh
Clear All

```
2020-07-13 18:56:59 IP & MAC Binding INFO [10144] ARP Binding enabled
2020-07-13 18:56:54 Access Control INFO [9777] Service start
2020-07-13 18:56:54 Access Control INFO [9777] Function disabled
2020-07-13 18:56:54 Access Control INFO [9777] Service stop
2020-07-13 18:56:20 Access Control INFO [8319] Service start
2020-07-13 18:56:20 Access Control NOTICE [8319] Flush conntrack table succeeded
2020-07-13 18:56:20 Access Control INFO [8319] Function enabled
2020-07-13 18:56:19 Access Control INFO [8319] Service stop
2020-07-13 18:54:35 QoS INFO [3431] Service start
2020-07-13 18:54:32 QoS INFO [3431] Function enabled
2020-07-13 18:54:32 QoS INFO [3431] Service stop
2020-07-13 18:54:13 QoS INFO [2278] Service start
```

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

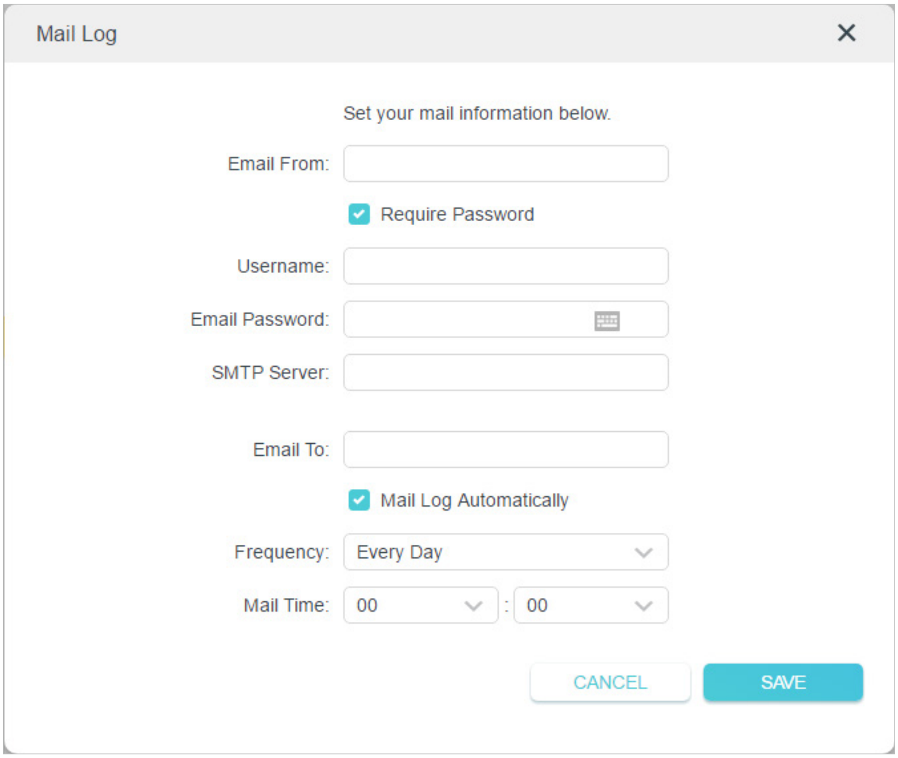


Save Log
Send system log to a specific email address or save locally.
MAIL LOG
SAVE TO LOCAL

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

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

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



Mail Log

Set your mail information below.

Email From:

☑ Require Password

Username:

Email Password:

SMTP Server:

Email To:

☑ Mail Log Automatically

Frequency: Every Day

Mail Time: 00 : 00

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 .

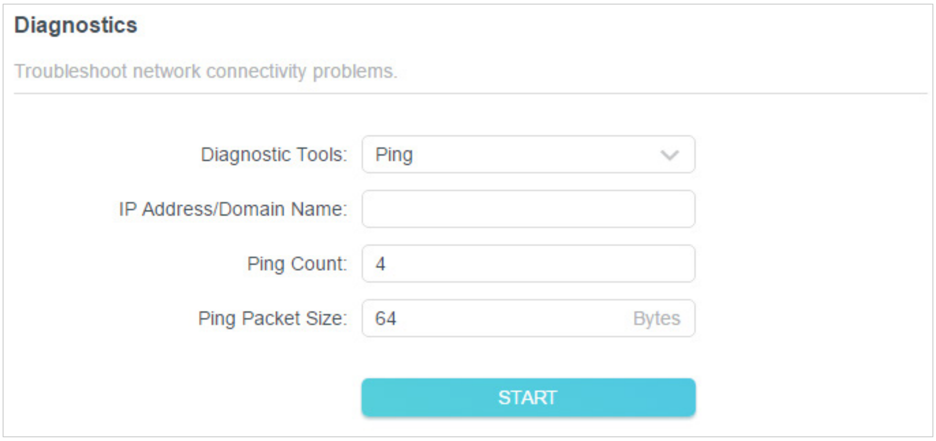
5. Click SAVE.

15. 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.



Diagnostics

Troubleshoot network connectivity problems.

Diagnostic Tools: Ping

IP Address/Domain Name:

Ping Count: 4

Ping Packet Size: 64 Bytes

3. Enter the information:

   1) Choose Ping or Traceroute as the diagnostic tool to test the connectivity;

   - Ping is used to test the connectivity between the router and the tested host, and measure the round-trip time.
   - Traceroute is used to display the route (path) your router has passed to reach the tested host, and measure transit delays of packets across an Internet Protocol network.

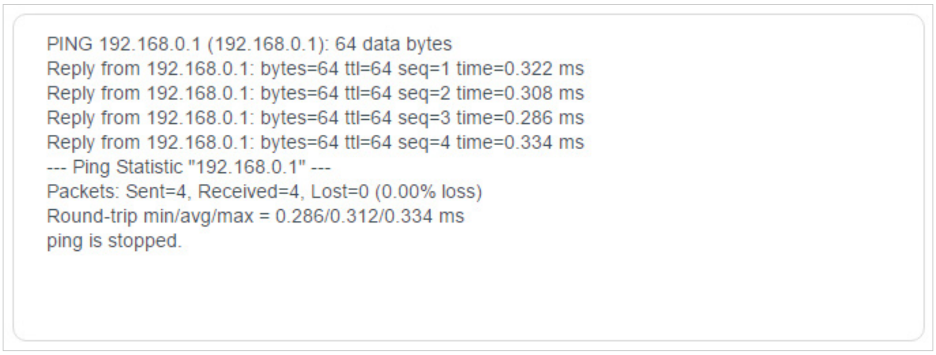
   2) Enter the IP Address or Domain Name of the tested host.

   3) Modify the Ping Count number and the Ping Packet Size. It's recommended to keep the default value.

   4) If you have chosen Traceroute, you can modify the Traceroute Max TTL. It's recommended to keep the default value.

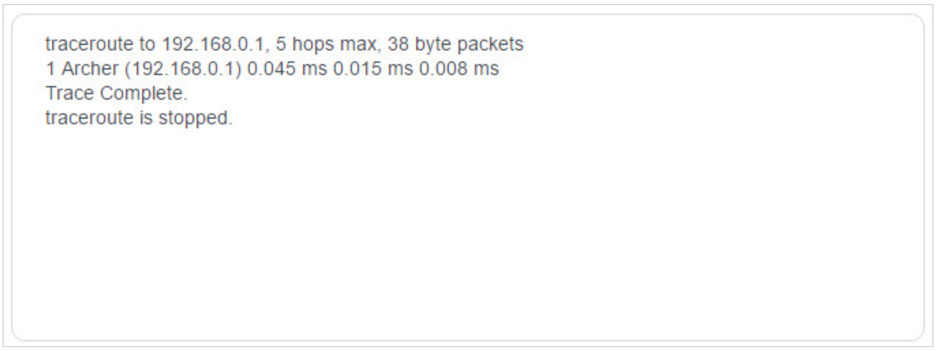
4. Click START to begin the diagnostics.

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



```
PING 192.168.0.1 (192.168.0.1): 64 data bytes
Reply from 192.168.0.1: bytes=64 ttl=64 seq=1 time=0.322 ms
Reply from 192.168.0.1: bytes=64 ttl=64 seq=2 time=0.308 ms
Reply from 192.168.0.1: bytes=64 ttl=64 seq=3 time=0.286 ms
Reply from 192.168.0.1: bytes=64 ttl=64 seq=4 time=0.334 ms
--- Ping Statistic "192.168.0.1" ---
Packets: Sent=4, Received=4, Lost=0 (0.00% loss)
Round-trip min/avg/max = 0.286/0.312/0.334 ms
ping is stopped.
```

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



```
traceroute to 192.168.0.1, 5 hops max, 38 byte packets
1 Archer (192.168.0.1) 0.045 ms 0.015 ms 0.008 ms
Trace Complete.
traceroute is stopped.
```

15. 9. Set System Time and Language

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.

System language is the language displayed when you log into the router. You can change the system language as needed.

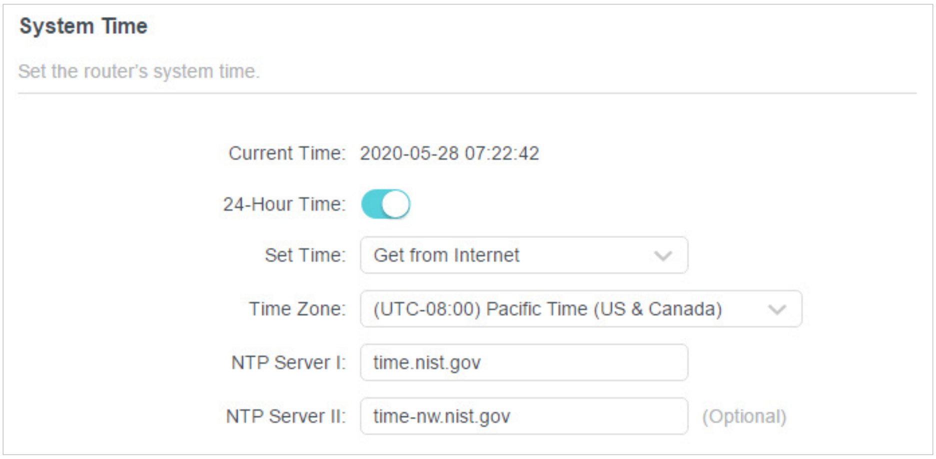
1. Visit http://tplinkwifi.net, and log in with your TP-Link ID or the password you set for the router.

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.



System Time

Set the router's system time.

Current Time: 2020-05-28 07:22:42

24-Hour Time: ●

Set Time: Get from Internet

Time Zone: (UTC-08:00) Pacific Time (US & Canada)

NTP Server I: time.nist.gov

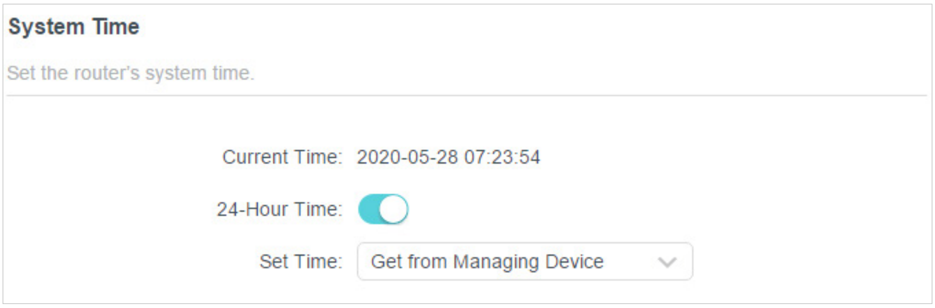
NTP Server II: time-nw.nist.gov (Optional)

3. Select your local Time Zone from the drop-down list.

4. In the NTP Server I field, enter the IP address or domain name of your desired NTP Server.
5. (Optional) In the NTP Server II field, enter the IP address or domain name of the second NTP Server.
6. Click SAVE.

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

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



System Time

Set the router's system time.

Current Time: 2020-05-28 07:23:54

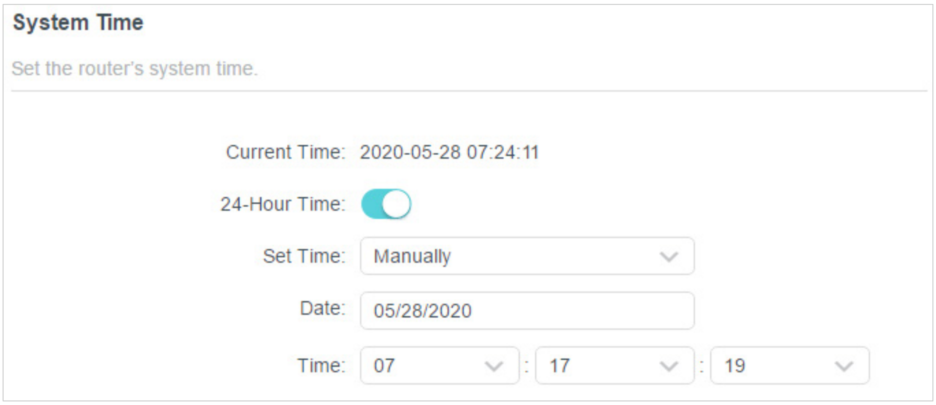
24-Hour Time: ●

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: 2020-05-28 07:24:11

24-Hour Time: ●

Set Time: Manually

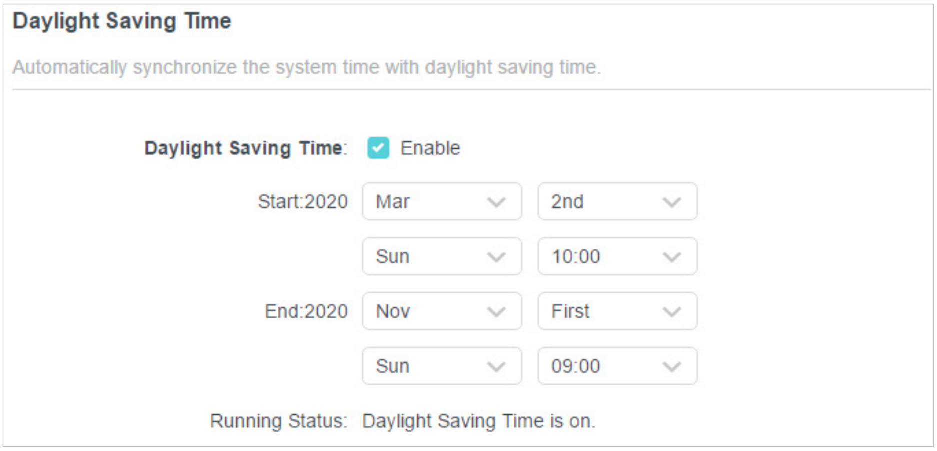
Date: 05/28/2020

Time: 07 : 17 : 19

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

- **To set Daylight Saving Time:**

1. Tick the Enable box of Daylight Saving Time.



Daylight Saving Time

Automatically synchronize the system time with daylight saving time.

Daylight Saving Time: ☑ Enable

Start:2020 Mar 2nd

Sun 10:00

End:2020 Nov First

Sun 09:00

Running Status: Daylight Saving Time is on.

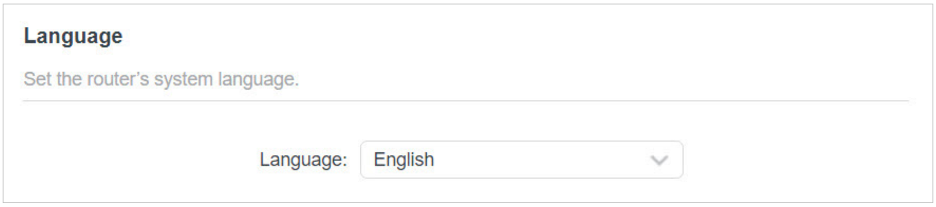
2. Select the correct Start date and time when daylight saving time starts at your local time zone.

3. Select the correct End date and time when daylight saving time ends at your local time zone.

4. Click SAVE.

- **To set system language:**

Select the language from the dropdown list, then click SAVE.



Language

Set the router's system language.

Language: English

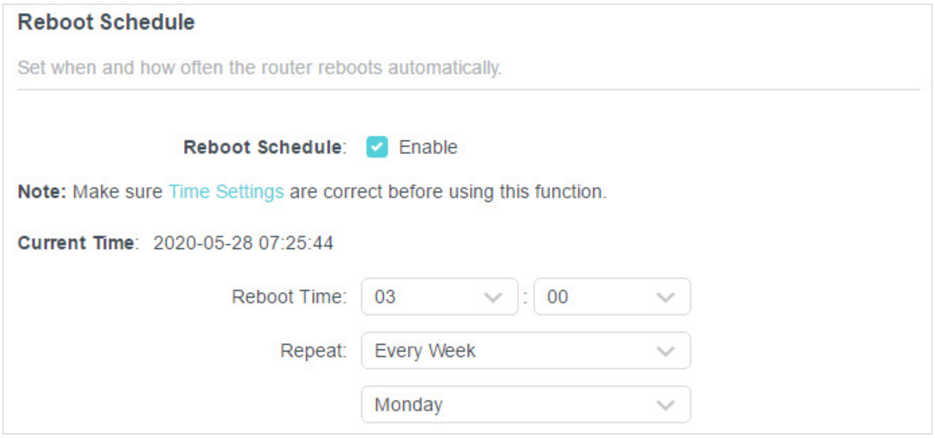
15. 10. Set the Router to Reboot Regularly

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: 2020-05-28 07:25:44

Reboot Time: 03 : 00

Repeat: Every Week

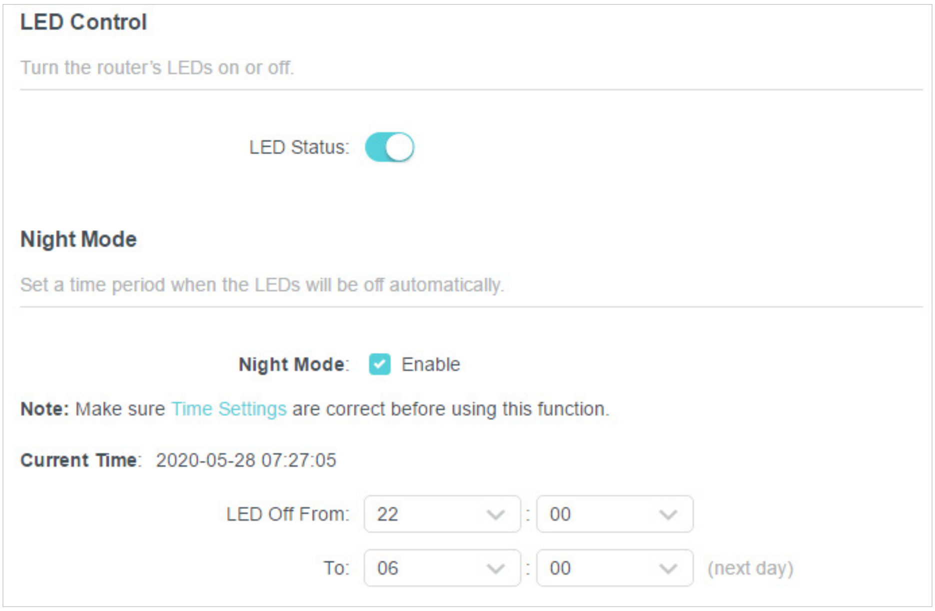
Monday

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

15. 11. Control the LED

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

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



LED Control

Turn the router's LEDs on or off.

LED Status: ●

Night Mode

Set a time period when the LEDs will be off automatically.

Night Mode: ☑ Enable

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

Current Time: 2020-05-28 07:27:05

LED Off From: 22 : 00

To: 06 : 00 (next day)

FAQ

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

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

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

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

- If you are using a TP-Link ID to log in, or you have enabled the Password Recovery feature of the router, click Forgot password on the login page and then follow the instructions to reset it.
- Alternatively, press and hold the Reset button of the router for about 6 seconds until the Power LED blinks to restore factory default settings, and then visit http://tplinkwifi.net to create a new login password.

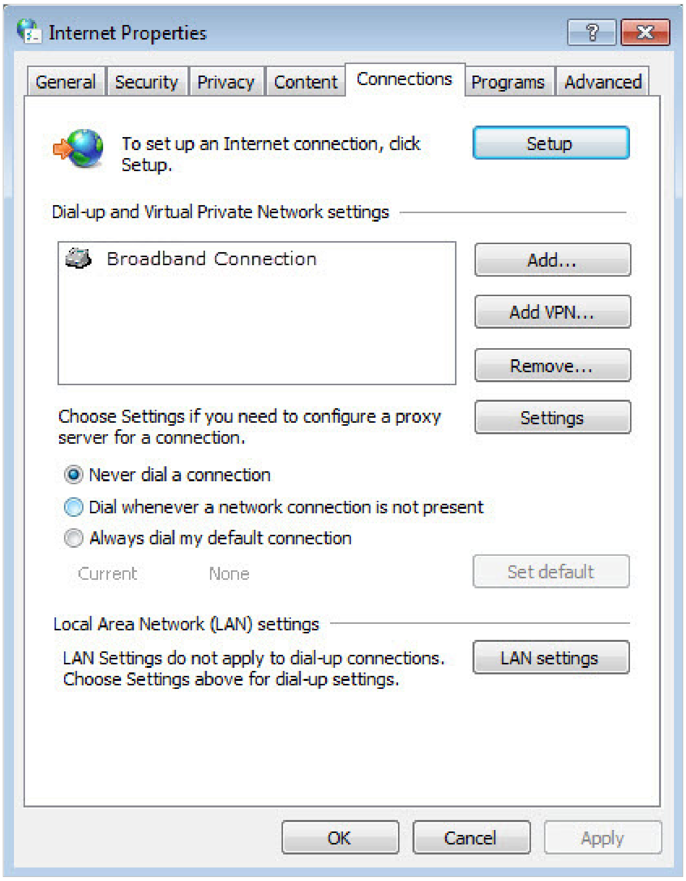
Note:

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

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

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

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



To set up an Internet connection, click Setup.

Dial-up and Virtual Private Network settings

Broadband Connection

Choose Settings if you need to configure a proxy server for a connection.

● Never dial a connection

○ Dial whenever a network connection is not present

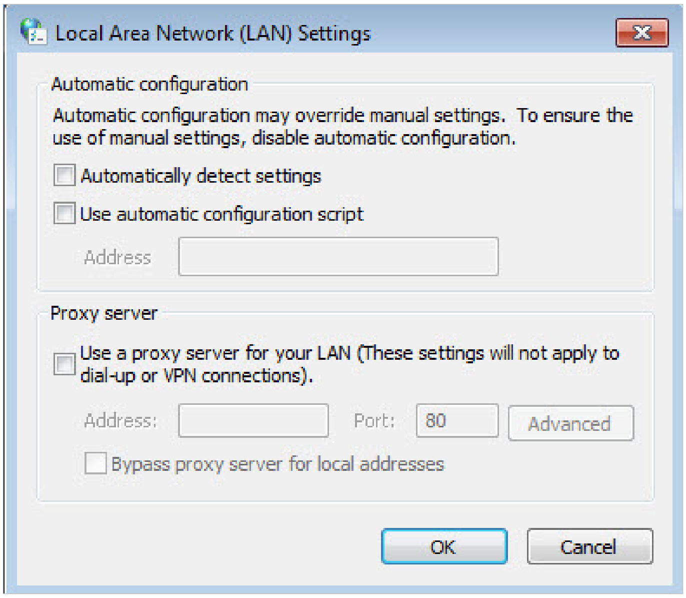
○ Always dial my default connection

Current None

Local Area Network (LAN) settings

LAN Settings do not apply to dial-up connections. Choose Settings above for dial-up settings.

4) Click LAN settings and deselect the following three options and click OK.



Automatic configuration

Automatic configuration may override manual settings. To ensure the use of manual settings, disable automatic configuration.

□ Automatically detect settings

□ Use automatic configuration script

Address

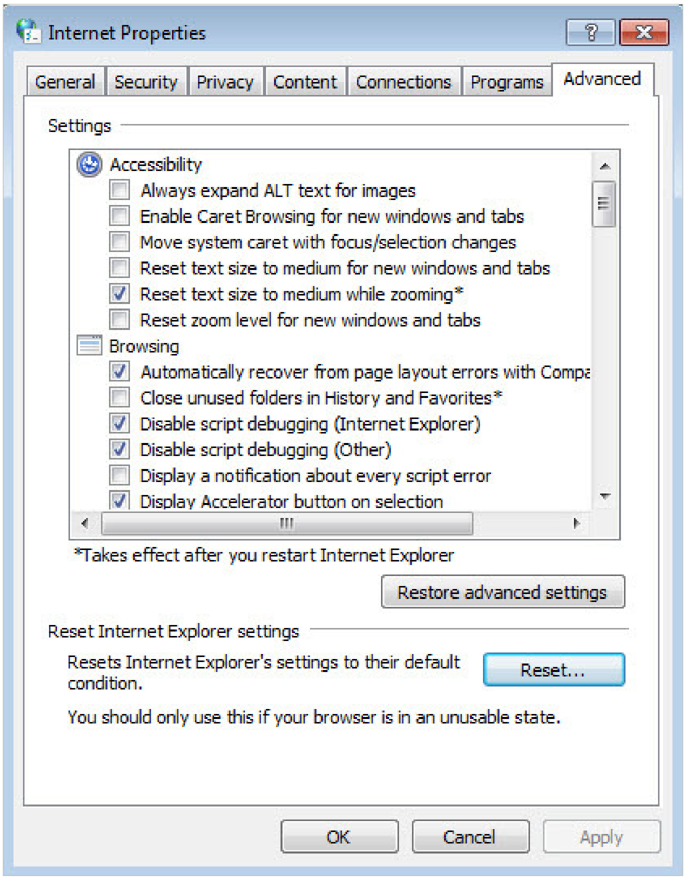
Proxy server

□ Use a proxy server for your LAN (These settings will not apply to dial-up or VPN connections).

Address: Port: 80

□ Bypass proxy server for local addresses

5) Go to Advanced > Restore advanced settings, click OK to save the settings.



Accessibility

☐ Always expand ALT text for images

☐ Enable Caret Browsing for new windows and tabs

☐ Move system caret with focus/selection changes

☐ Reset text size to medium for new windows and tabs

☑ Reset text size to medium while zooming*

☐ Reset zoom level for new windows and tabs

Browsing

☑ Automatically recover from page layout errors with Compa

☐ Close unused folders in History and Favorites*

☑ Disable script debugging (Internet Explorer)

☑ Disable script debugging (Other)

☐ Display a notification about every script error

☑ Display Accelerator button on selection

*Takes effect after you restart Internet Explorer

Resets Internet Explorer's settings to their default condition.

You should only use this if your browser is in an unusable state.

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

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

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

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

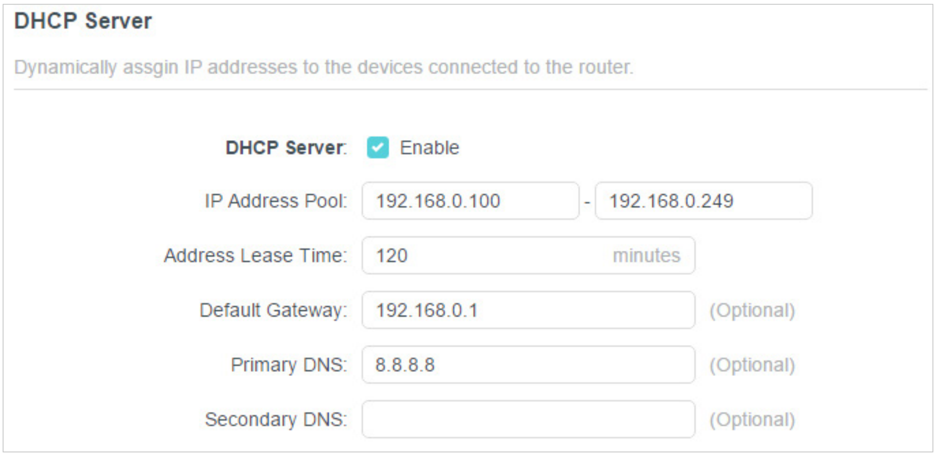
If IP Address is a valid one, please try the methods below and try again:

- Your computer might not recognize any DNS server addresses. Please manually configure the DNS server.

  1) Go to Advanced > Network > DHCP Server.

  2) Enter 8.8.8.8 as Primary DNS, click SAVE.

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



DHCP Server

Dynamically assgin 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

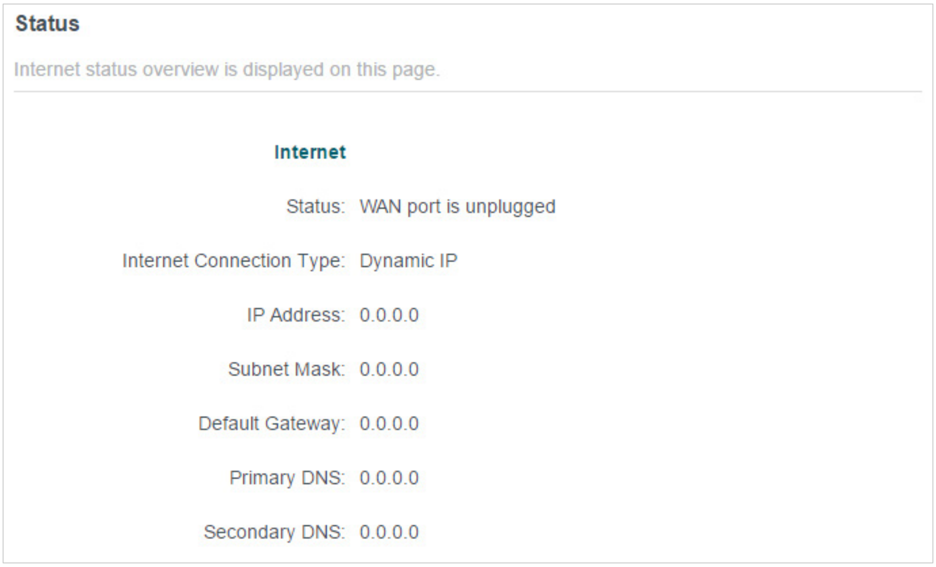
Default Gateway: 192.168.0.1 (Optional)

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:



Status

Internet status overview is displayed on this page.

Internet

Status: WAN port is unplugged

Internet Connection Type: Dynamic IP

IP Address: 0.0.0.0

Subnet Mask: 0.0.0.0

Default Gateway: 0.0.0.0

Primary DNS: 0.0.0.0

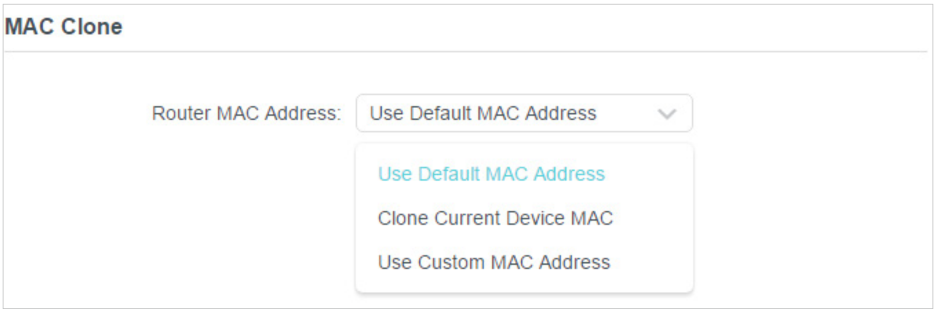
Secondary DNS: 0.0.0.0

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

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

2) Go to Internet or Advanced > Network > Internet and focus on the MAC Clone section.

3) Choose an option as needed (enter the MAC address if Use Custom MAC Address is selected), and click SAVE.


MAC Clone

Router MAC Address: Use Default MAC Address

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:

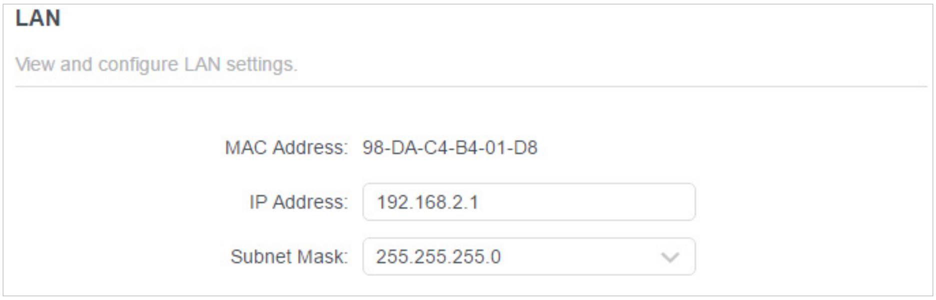
Most TP-Link routers use 192.168.0.1/192.168.1.1 as their default LAN IP address, which may conflict with the IP range of your existing ADSL modem/router. If so, the router is not able to communicate with your modem and you can't access the internet. To resolve this problem, we need to change the LAN 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: 98-DA-C4-B4-01-D8

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.

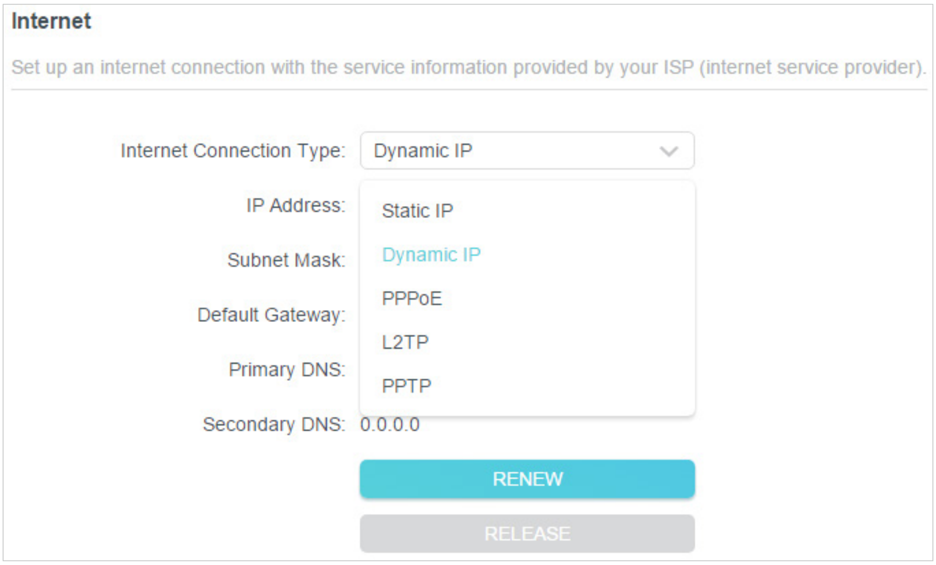
1) Confirm your internet connection type, which can be learned from the ISP.

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.



Internet

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

Internet Connection Type: Dynamic IP

IP Address:

Subnet Mask:

Default Gateway:

Primary DNS:

Secondary DNS: 0.0.0.0

6) Restart the modem and the router again.

- Please upgrade the firmware of the router.

If you’ve tried every method above but still cannot access the internet, please contact the technical support.

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

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

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

- Make sure the wireless adapter driver is installed successfully and the wireless adapter is enabled.
  - **On Windows 7**

  1) If you see the message No connections are available, it is usually because the wireless function is disabled or blocked somehow.

  2) Click Troubleshoot and windows might be able to fix the problem by itself.

  - **On Windows XP**

  1) If you see the message Windows cannot configure this wireless connection, this is usually because windows configuration utility is disabled or you are running another wireless configuration tool to connect the wireless.

  2) Exit the wireless configuration tool (the TP-Link Utility, for example).

  3) Select and right click on My Computer on desktop, select Manage to open Computer Management window.

  4) Expand Services and Applications > Services, find and locate Wireless Zero Configuration in the Services list on the right side.

  5) Right click Wireless Zero Configuration, and then select Properties.

  6) Change Startup type to Automatic, click on Start button and make sure the Service status is Started. And then click OK.

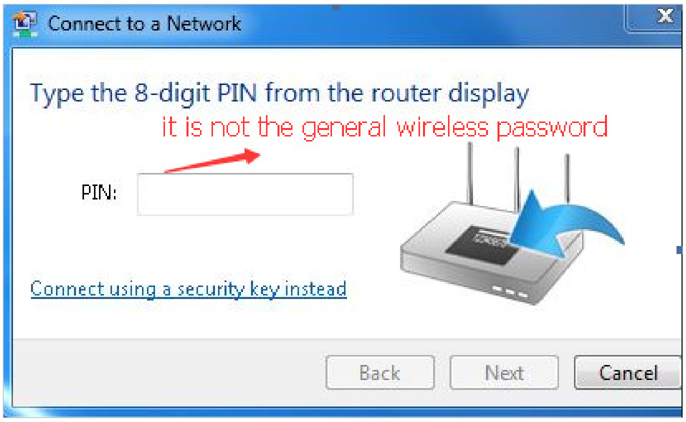
If you can find other wireless network except your own, please follow the steps below:

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

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

- **Authenticating problem/password mismatch:**

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


Connect to a Network
Type the 8-digit PIN from the router display
it is not the general wireless password
PIN:
Connect using a security key instead
Back
Next
Cancel

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: AXE5400 Tri-Band Wi-Fi 6E Router
Model Number: Archer AXE5400

Component Name	Model
I.T.E. Power Supply	T120200-2B1

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."

FCC regulations restrict operation of this device to indoor use only. The operation of this device is prohibited on oil platforms, cars, trains, boats, and aircraft, except that operation of this device is permitted in large aircraft while flying above 10000 feet. Operation of transmitters in the 5.925-6.425 GHz band is prohibited for control of or communications with unmanned aircraft systems.

FCC compliance information statement

Product Name: I.T.E. Power Supply
Model Number: T120200-2B1
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: 2023-11-01

CE Mark Warning

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

OPERATING FREQUENCY(the maximum transmitted power)

2400 MHz -2483.5 MHz (20dBm)

5150 MHz -5250 MHz (23dBm)

5250 MHz -5350 MHz (23dBm)

5470 MHz -5725 MHz (30dBm)

5945MHz -6425 MHz (23dBm)

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/support/ce/

RF Exposure Information

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

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

National Restrictions

!	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
CA

UK Declaration of Conformity

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

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

National Restrictions

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

!	UK

Canadian Compliance Statement

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

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1) L'appareil ne doit pas produire de brouillage;

2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Caution:

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;

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;

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.

ISED regulations restrict operation of this device to indoor use only. The operation of this device is prohibited on oil platforms, cars, trains, boats, and aircraft, except that operation of this device is permitted in large aircraft while flying above 10000 feet. Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.

Les réglementations ISED limitent le fonctionnement de cet appareil à une utilisation en intérieur uniquement. L'utilisation de cet appareil est interdite sur les plates-formes pétrolières, les voitures, les trains, les bateaux et les avions, sauf que l'utilisation de cet appareil est autorisée dans les avions long courrier en vol au-dessus de 10 000 pieds. L'exploitation d'émetteurs dans la bande 5,925-7,125 GHz est interdite pour le contrôle ou les communications avec des systèmes d'avions sans pilote.

Industry Canada Statement

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

FR
ÉLÉMENTS D'EMBALLAGE
À SÉPARER ET À DÉPOSER
DANS LE BAC DE TRI
BAC
DE
TRI

Korea Warning Statements:

당해 무선설비는 운용중 전파혼신 가능성이 있음.

NCC Notice & BSMI Notice:

注意！

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

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

前述合法通信，指依電信管理法規定作業之無線電通信。

低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

應避免影響附近雷達系統之操作。

高增益指向性天線只得應用於固定式點對點系統。

安全諮詢及注意事項

- 請使用原裝電源供應器或只能按照本產品注明的電源類型使用本產品。
- 清潔本產品之前請先拔掉電源線。請勿使用液體、噴霧清潔劑或濕布進行清潔。
- 注意防潮，請勿將水或其他液體潑灑到本產品上。
- 插槽與開口供通風使用，以確保本產品的操作可靠並防止過熱，請勿堵塞或覆蓋開口。

- 請勿將本產品置放於靠近熱源的地方。除非有正常的通風，否則不可放在密閉位置中。
- 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：AXE5400 Tri-Band Wi-Fi 6E Router Equipment name				型號（型式）：Archer AXE5400 Type designation (Type)		
單元 Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr^{+6})	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
PCB	○	○	○	○	○	○
外殼	○	○	○	○	○	○
電源供應器	—	○	○	○	○	○
天線	○	○	○	○	○	○

備考1.〝超出0.1 wt %〞及〝超出0.01 wt %〞係指限用物質之百分比含量超出百分比含量基準值

Note 1：“Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.

備考2.〝○〞係指該項限用物質之百分比含量未超出百分比含量基準值。

Note 2：“○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.

備考3.〝—〞係指該項限用物質為排除項目。

Note 3：The “—” indicates that the restricted substance corresponds to the exemption.

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

Safety Information

- Keep the device away from water, fire, humidity or hot environments.
- Do not attempt to disassemble, repair, or modify the device. If you need service, please contact us.
- Do not use damaged charger or USB cable to charge the device.
- Do not use any other chargers than those recommended
- Do not use the device where wireless devices are not allowed.

- Adapter shall be installed near the equipment and shall be easily accessible.
- Use only power supplies which are provided by manufacturer and in the original packing of this product. If you have any questions, please don’t hesitate to contact us.
- Operating Temperature: 0℃ ~ 40℃ (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.

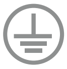
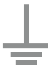
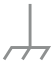
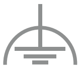
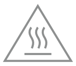
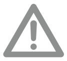
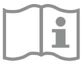
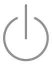
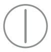
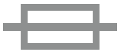
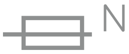
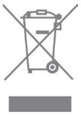
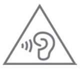
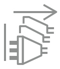
Please read and follow the above safety information when operating the device. We cannot guarantee that no accidents or damage will occur due to improper use of the device. Please use this product with care and operate at your own risk.

Explanation of the symbols on the product label

Symbols may vary from products.

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

Symbol	Explanation
⧈	Class II equipment
⏚	Class II equipment with functional earthing
∿	Alternating current
⎓	DC voltage
⊖-◐-⊕	Polarity of output terminals
⌂	Indoor use only
ϟ	Dangerous voltage
⚠	Caution, risk of electric shock
VI	Energy efficiency Marking

Symbol	Explanation
	Protective earth
	Earth
	Frame or chassis
	Functional earthing
	Caution, hot surface
	Caution
	Operator’s manual
	Stand-by
	“ON”/”OFF” (push-push)
	Fuse
	Fuse is used in neutral N
	RECYCLING This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment. User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment.
	Caution, avoid listening at high volume levels for long periods
	Disconnection, all power plugs
m	Switch of mini-gap construction

Symbol	Explanation
μ	Switch of micro-gap construction (for US version) Switch of micro-gap / micro-disconnection construction (for other versions except US)
ε	Switch without contact gap (Semiconductor switching device)