



User Guide

AC4000 MU-MIMO Tri-Band Wi-Fi Router
Archer A20

Contents

About This Guide	1
 Chapter 1. Get to Know About Your Router	 3
1. 1. Product Overview.....	4
1. 2. Appearance	4
1. 2. 1.The Back Panel.....	4
1. 2. 2.The Front Panel	5
 Chapter 2. Connect the Hardware	 7
2. 1. Position Your Router	8
2. 2. Connect Your Router.....	8
 Chapter 3. Log In to Your Router.....	 11
 Chapter 4. Set Up Internet Connection	 13
4. 1. Use Quick Setup Wizard	14
4. 2. Manually Set Up Your Internet Connection	14
4. 3. Set Up the Router as an Access Point	18
4. 4. Set Up an IPv6 Internet Connection	20
4. 5. Set Up WAN Aggregation	23
 Chapter 5. TP-Link Cloud Service	 25
5. 1. Register a TP-Link ID.....	26
5. 2. Change Your TP-Link ID Information.....	26
5. 3. Manage the User TP-Link IDs	27
5. 3. 1.Add TP-Link ID to Manage the Router	28
5. 3. 2.Remove TP-Link ID(s) from Managing the Router	28
5. 4. Manage the Router via the TP-Link Tether App	29
 Chapter 6. Guest Network.....	 30
6. 1. Create a Network for Guests	31
6. 2. Set Portal Authentication	31
6. 3. Customize Guest Network Options.....	32
 Chapter 7. USB Settings.....	 34

7. 1.	Access the USB Storage Device	35
7. 1. 1.	Access the USB Device Locally.....	35
7. 1. 2.	Access the USB Device Remotely	36
7. 1. 3.	Customize the Access Settings.....	38
7. 2.	Media Sharing	40
7. 3.	Time Machine	41

Chapter 8. HomeCare – Parental Controls, QoS, Antivirus..... 43

8. 1.	Parental Controls	44
8. 1. 1.	Scenario 1: Setting Up Access Restrictions.....	44
8. 1. 2.	Scenario 2: Monitoring Internet Usage.....	46
8. 2.	QoS	47
8. 3.	Antivirus.....	49

Chapter 9. Network Security 51

9. 1.	Protect the Network from Cyber Attacks	52
9. 2.	Access Control	52
9. 3.	IP & MAC Binding	54

Chapter 10.NAT Forwarding..... 56

10. 1.	Share Local Resources on the Internet by Virtual Servers.....	57
10. 2.	Open Ports Dynamically by Port Triggering.....	58
10. 3.	Make Applications Free from Port Restriction by DMZ	59
10. 4.	Make Xbox Online Games Run Smoothly by UPnP	60

Chapter 11.VPN Server 62

11. 1.	Use OpenVPN to Access Your Home Network.....	63
11. 2.	Use PPTP VPN to Access Your Home Network	64

Chapter 12.Customize Your Network Settings..... 70

12. 1.	Change the LAN Settings	71
12. 2.	Set Up Link Aggregation	71
12. 3.	Configure to Support IPTV Service.....	72
12. 4.	Specify DHCP Server Settings	73
12. 5.	Set Up a Dynamic DNS Service Account	75
12. 6.	Create Static Routes.....	76
12. 7.	Specify Wireless Settings.....	78
12. 8.	Use WPS for Wireless Connection	80
12. 8. 1.	Push the WPS Button	80

12. 8. 2.Connect via the Router's PIN	80
12. 8. 3.Connect via the Client's PIN	81
12. 9. Schedule Your Wireless Function	81

Chapter 13.Manage the Router 83

13. 1. Set Up System Time	84
13. 2. Control the LED.....	86
13. 3. Test the Network Connectivity	86
13. 4. Test Your Internet Speed.....	88
13. 5. Upgrade the Firmware	89
13. 5. 1.Online Upgrade	89
13. 5. 2.Manual Upgrade	90
13. 6. Backup and Restore Configuration Settings.....	90
13. 7. Set the Router to Reboot Regularly.....	92
13. 8. Change the Login Password	92
13. 9. Default Password Recovery.....	93
13. 10. Local Management	94
13. 11. Remote Management.....	95
13. 12. System Log.....	96
13. 13. Monitor the Internet Traffic Statistics.....	98
13. 14. System Parameters.....	99
13. 14. 1.2.4GHz/5GHz Wireless.....	99
13. 14. 2.2.4GHz/5GHz WDS	100
13. 14. 3.NAT	101
13. 14. 4.Internet Port Negotiation Speed Setting	102

Chapter 14.Work with Alexa 103

FAQ 105

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.

When using this guide, please notice that features available of the router may vary by model and software version. It may also vary by region or ISP. All images, steps, and descriptions in this guide are only examples and may not reflect your actual experience.

Conventions

In this guide the following conventions are used:

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

More Info

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

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>.

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

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

Speed/Coverage Disclaimer

*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.

MU-MIMO and 1024-QAM Disclaimer

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

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](#)

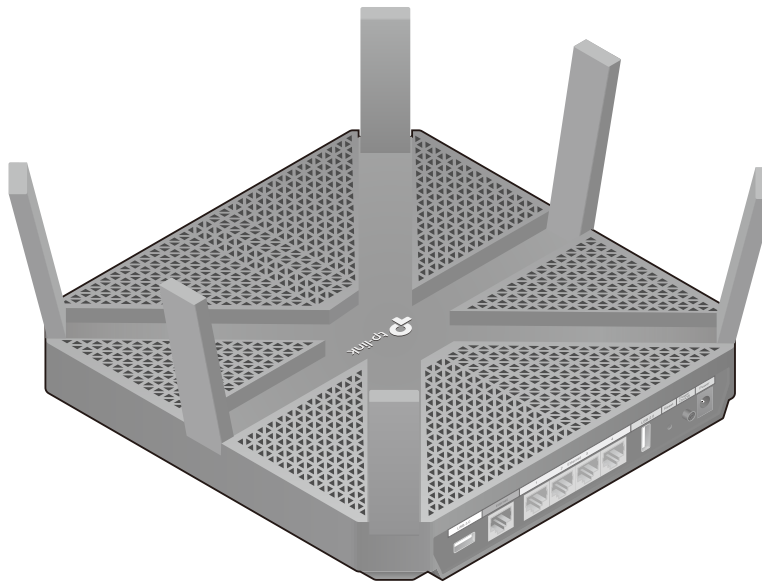
1.1. Product Overview

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

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

1.2. Appearance

1.2.1. The Back Panel



The router's ports (view from left to right) are located on the rear panel.

Item	Description
USB 3.0 Port	For connecting to a USB 3.0 device. It is also compatible with USB 2.0 devices.
Internet Port	For connecting to a DSL/Cable modem, or an Ethernet jack.
Ethernet Ports (1/2/3/4)	For connecting your PC or other wired devices to the router.
USB 2.0 Port	For connecting to a USB 2.0 device.

Item	Description
Reset Button	Press this button for more than 5 seconds to reset the router to its factory default settings.
Power On/Off Button	Press this button for 1 second to power on or off the router.
Power Port	For connecting the router to power socket via the provided power adapter.
Antennas	Used for wireless operation and data transmit. Upright them for the best Wi-Fi performance.

1.2.2. The Front Panel



The router's LEDs and buttons (view from left to right) are located on the front panel. 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 or the firmware is being upgraded. Do not disconnect or power off your router.
	Off	Power is off.
 (2.4GHz Wireless)	On	The 2.4GHz wireless band is enabled.
	Off	The 2.4GHz wireless band is disabled.
 (5GHz-1 Wireless)	On	The 5GHz-1 wireless band is enabled.
	Off	The 5GHz-1 wireless band is disabled.
 (5GHz-2 Wireless)	On	The 5GHz-2 wireless band is enabled.
	Off	The 5GHz-2 wireless band is disabled.
 (Ethernet)	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.
 (Internet)	Blue On	The internet is available.
	Orange On	The router's Internet port is connected, but the internet is not available.
	Off	The router's Internet port is unplugged.

Name	Status	Indication
 (WPS)	On/Off	This light remains on for 5 minutes when a WPS connection is established, then turns off.
	Flashing	WPS connection is in progress. This may take up to 2 minutes.
 (USB)	On	The inserted USB device is ready to use.
	Flashing	A USB device is being identified.
	Off	No device is plugged into the USB port.

Button Explanation

Item	Description
 (Wi-Fi Button)	Press and hold the Wi-Fi button for about 1 second to turn on or off the wireless function of your router.
 (WPS Button)	Press this WPS button for 1 second to enable the WPS function.
 (LED Button)	Press the LED button for about 1 second to turn on or off the LEDs of your router.

Chapter 2

Connect the Hardware

This chapter contains the following sections:

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

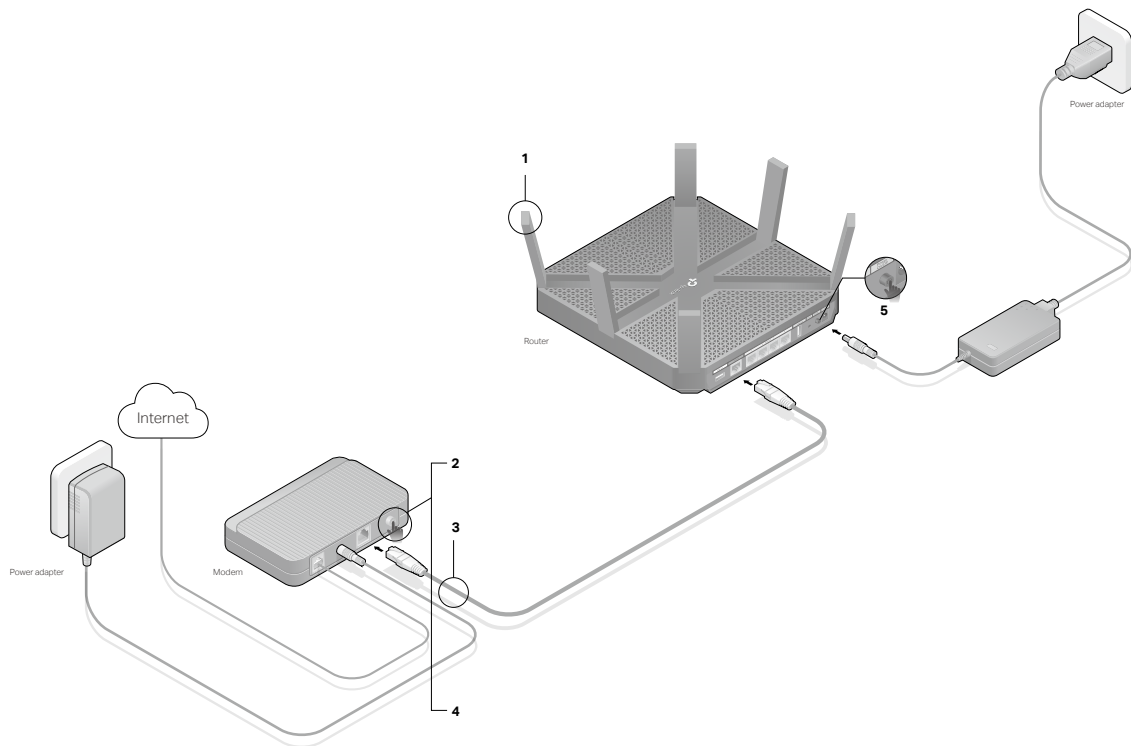
2.1. Position Your Router

- The 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.

2.2. Connect Your Router

Follow the steps below to connect your router.

If your internet connection is through an Ethernet cable from the wall instead of through a DSL / Cable / Satellite modem, connect the Ethernet cable directly to the router's Internet port, and then follow Step 1, 5 and 6 to complete the hardware connection.



1. Install the antennas.
2. Unplug the power to turn off your modem, and remove the backup battery if it has one.

3. Connect the powered-off modem to your router's **Internet** port with an Ethernet cable.
4. Power on the modem, and then wait about **2 minutes** for it to restart.
5. Connect the power adapter to the router and turn on the router.
6. Confirm that the following LEDs are on and solid to verify the hardware is connected correctly.



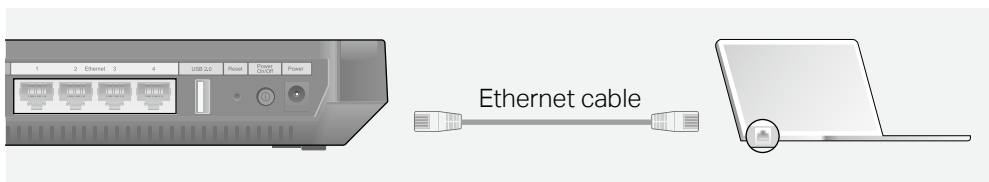
Note:

- If all the LEDs are off, press the LED On/Off button  for about 1 second, and then check the LEDs again.
- If the 2.4GHz, 5GHz-1, and 5GHz-2 LEDs are off, press the Wi-Fi On/Off button  for about 1 second and all the three LEDs should turn solid on.

7. Connect your computer to the router.

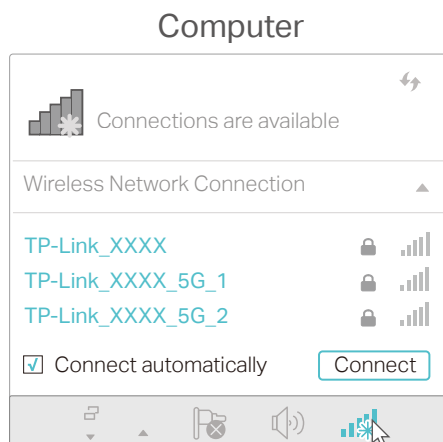
• **Method 1: Wired**

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

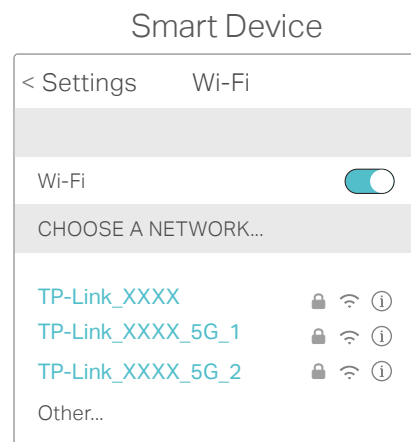


• **Method 2: Wirelessly**

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



OR



- **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.



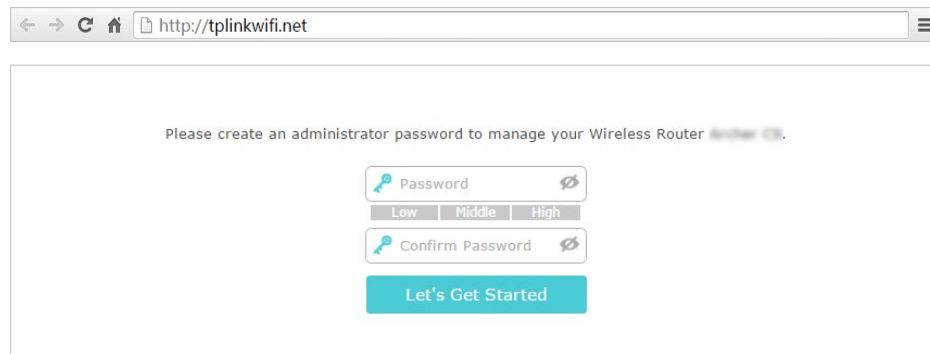
Chapter 3

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.



The screenshot shows a web browser window with the address bar displaying <http://tplinkwifi.net>. The main content area contains a message: "Please create an administrator password to manage your Wireless Router Archer C8." Below this message are two password input fields. The first field is labeled "Password" and has a strength indicator with three buttons: "Low", "Middle", and "High". The second field is labeled "Confirm Password". Both fields have eye icons to toggle visibility. At the bottom of the form is a teal button labeled "Let's Get Started".

Note:

- If the login window does not appear, please refer to the [FAQ](#) Section.
- If you have registered a TP-Link ID and bound your cloud router to it, the login password you created here will be invalid. Please log in to the cloud router using your TP-Link ID.

Chapter 4

Set Up Internet Connection

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

It contains the following sections:

- [Use Quick Setup Wizard](#)
- [Manually Set Up Your Internet Connection](#)
- [Set Up the Router as an Access Point](#)
- [Set Up an IPv6 Internet Connection](#)
- [Set Up WAN Aggregation](#)

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. Click **Quick Setup** on the top of the page. 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 **Resigter Now** to get one. Then follow the instructions to bind the cloud router to your TP-Link ID.

The screenshot shows the completion screen of the TP-Link Quick Setup Wizard. At the top, a progress bar indicates the steps: Time Zone, Internet Connection Type, Wireless Settings, TP-Link Cloud Service, and Summary. The 'TP-Link Cloud Service' step is currently active, highlighted with a gear icon. Below the progress bar, the text reads: 'Congratulations! Network setup successfully. Enjoy the Internet.' followed by 'For more TP-Link Cloud functions, please log in with your TP-Link ID.' and an information icon. There are three main sections: 1. Login section with 'Email' and 'Password' input fields, a 'Forgot password?' link, and a 'Log In' button. 2. A section for 'No TP-Link ID?' with a 'Register Now' button. 3. A 'Log In Later' button at the bottom.

■ **Note:**

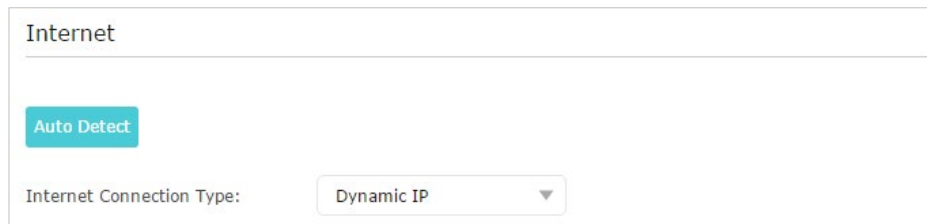
- To learn more about the TP-Link Cloud service, please refer to the [TP-Link Cloud Service](#) section.
- If you do not want to register a TP-Link ID now, you may click **Log In Later** to proceed.
- If you have changed the preset wireless network name (SSID) and wireless password during the Quick Setup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

4.2. 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 **Basic > Internet**.
3. Select your internet connection type from the drop-down list.



Internet

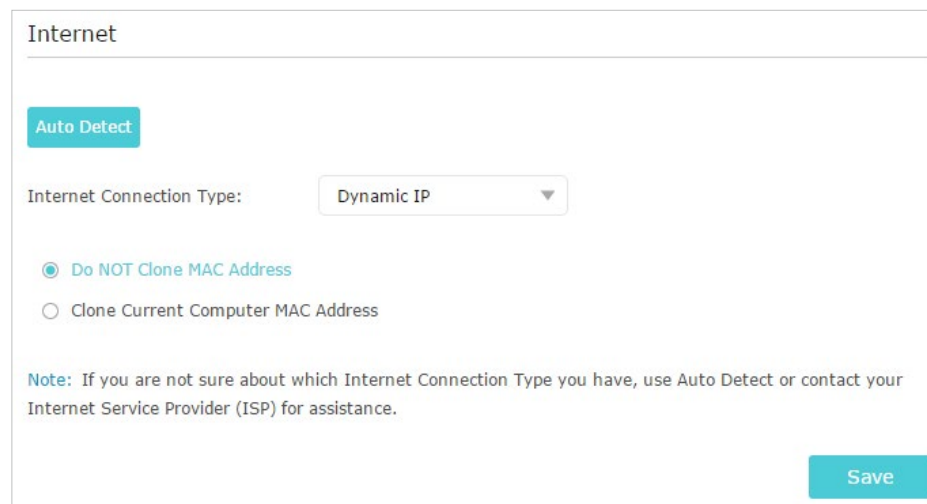
Auto Detect

Internet Connection Type: Dynamic IP ▼

■ **Note:** If you are unsure of what your connection type is, click [Auto Detect](#). Since different connection types require different cables and connection information, you can also refer to the demonstrations in Step 4 to determine your connection type.

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

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



Internet

Auto Detect

Internet Connection Type: Dynamic IP ▼

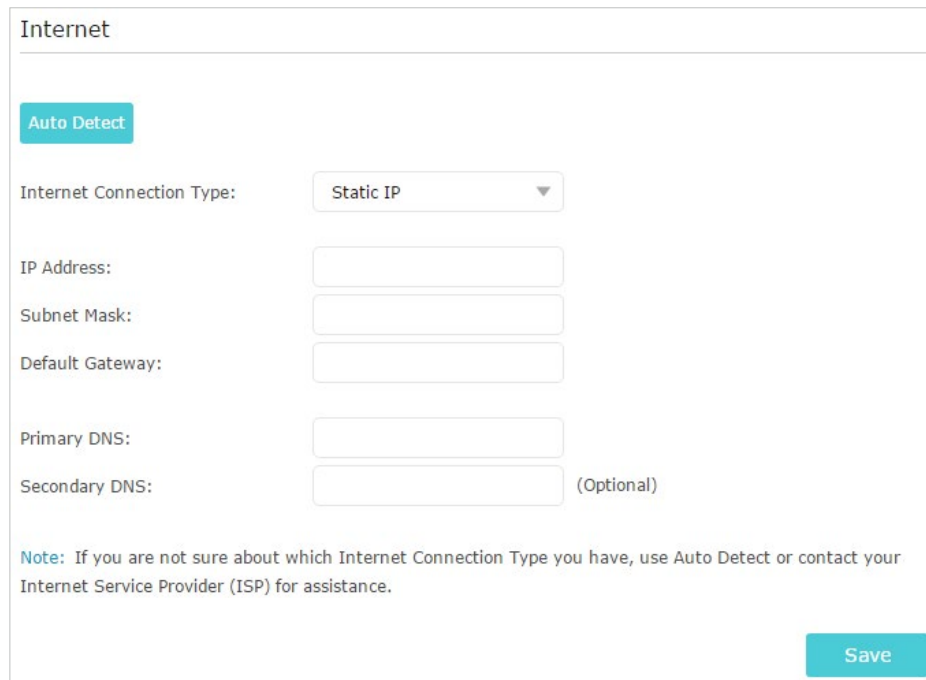
☒ Do NOT Clone MAC Address

☐ Clone Current Computer MAC Address

Note: If you are not sure about which Internet Connection Type you have, use Auto Detect or contact your Internet Service Provider (ISP) for assistance.

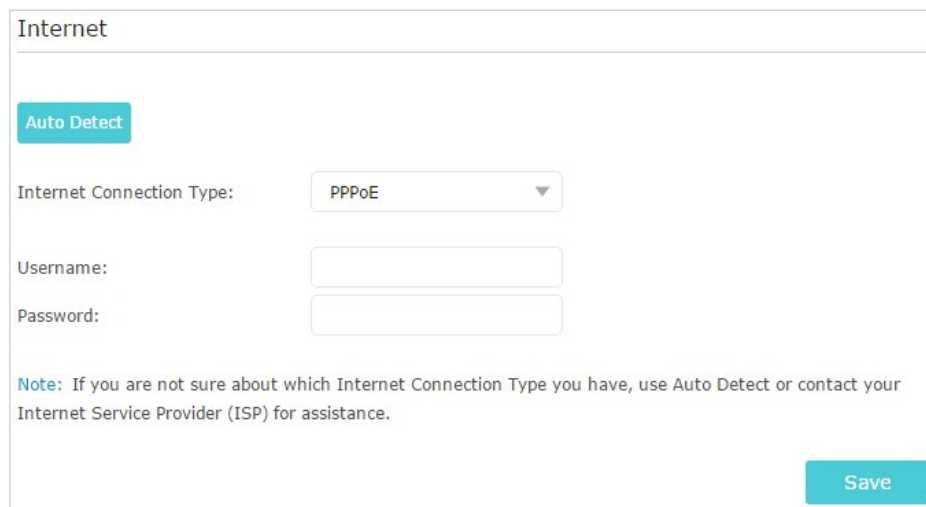
Save

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



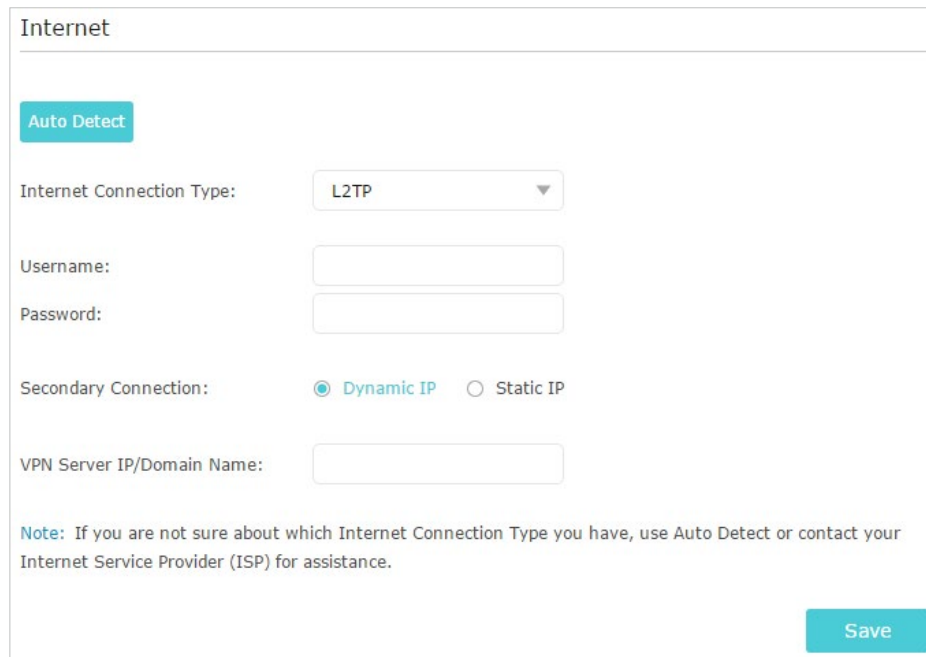
The screenshot shows the 'Internet' configuration page. At the top left is an 'Auto Detect' button. Below it, the 'Internet Connection Type' is set to 'Static IP' in a dropdown menu. There are five input fields for 'IP Address:', 'Subnet Mask:', 'Default Gateway:', 'Primary DNS:', and 'Secondary DNS:'. The 'Secondary DNS' field has '(Optional)' text to its right. A blue note at the bottom states: 'Note: If you are not sure about which Internet Connection Type you have, use Auto Detect or contact your Internet Service Provider (ISP) for assistance.' A 'Save' button is in the bottom right corner.

- 3) If you choose **PPPoE**, enter the **Username** and **Password** provided by your ISP. PPPoE users usually have DSL cable modems.



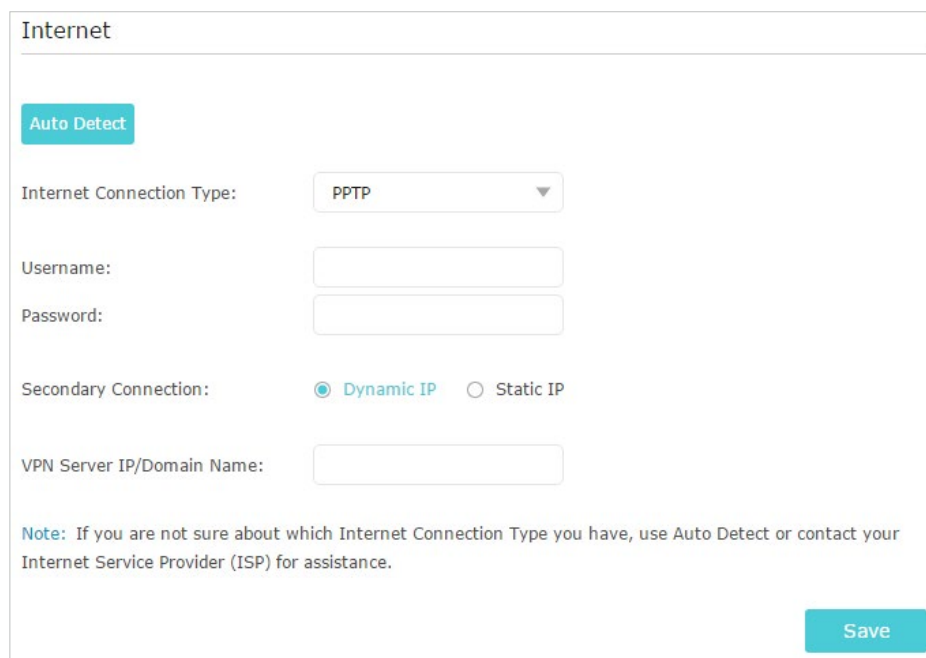
The screenshot shows the 'Internet' configuration page with 'PPPoE' selected in the 'Internet Connection Type' dropdown. The 'Auto Detect' button is still present. Below the dropdown are input fields for 'Username:' and 'Password:'. The same blue note about using Auto Detect or contacting the ISP is present. A 'Save' button is in the bottom right corner.

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



The screenshot shows the 'Internet' configuration page. At the top left is an 'Auto Detect' button. Below it, the 'Internet Connection Type' dropdown menu is set to 'L2TP'. There are empty input fields for 'Username' and 'Password'. The 'Secondary Connection' section has 'Dynamic IP' selected with a radio button, and 'Static IP' is unselected. There is an empty input field for 'VPN Server IP/Domain Name'. A note at the bottom states: 'Note: If you are not sure about which Internet Connection Type you have, use Auto Detect or contact your Internet Service Provider (ISP) for assistance.' A 'Save' button is located at the bottom right.

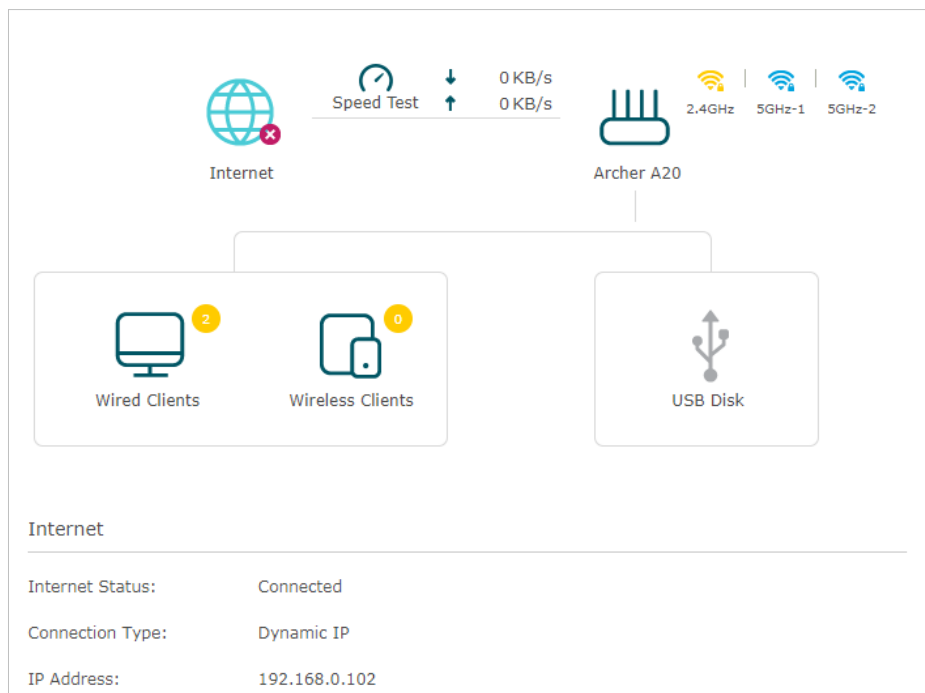
- 5) If you choose **PPTP**, enter the **Username** and **Password**, and choose the **Secondary Connection** provided by your ISP. Different parameters are needed according to the Secondary Connection you have chosen.



This screenshot is identical to the previous one, but the 'Internet Connection Type' dropdown menu is now set to 'PPTP'. All other elements, including the 'Auto Detect' button, input fields for Username and Password, the 'Dynamic IP' selection for Secondary Connection, the VPN Server IP/Domain Name field, the note, and the 'Save' button, remain the same.

5. Click **Save**.
6. To check your internet connection, click **Network Map** on the left of the page. After the connection succeeds, the screen will display as follows. Here we take Dynamic IP as an example.

Note: It may take 1-2 minutes to make the settings valid.



Tips:

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

4.3. 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 > Operation Mode](#), select [Access Point](#) and click [Save](#). The router will reboot and switch to Access Point mode.

Switch Mode

☐ Router(Current mode)

In this mode,your router connects to internet directly via Dynamic IP,Static IP,PPPoE,L2TP or PPTP,and shares internet access to multiple wired or wireless devices. NAT and DHCP server are enabled by default.



☒ Access Point

In this mode,your router connects to a wired or wireless router via an Ethernet cable and extends the wireless coverage of your existing network.Functions like NAT,Parental Controls and QoS are not supported in this mode.



Save

3. After rebooting, connect the router to your existing wired router via an Ethernet cable.
4. Connect to the Wi-Fi of the router and log in again to the web management page <http://tplinkwifi.net>, and click **Quick Setup**.
5. Configure your wireless settings and click **Next**.

Summary

Wireless Settings

2.4GHz Wireless: ☒ Enable Wireless Radio

Network Name (SSID): ☐ Hide SSID

Password:

5GHz-1 Wireless ☒ Enable Wireless Radio

Network Name (SSID): ☐ Hide SSID

Password:

5GHz-2 Wireless ☒ Enable Wireless Radio

Network Name (SSID): ☐ Hide SSID

Password:

Exit Next

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

Summary

Wireless Settings

2.4GHz Wireless

Network Name (SSID): TP-Link_5053

Password: 66378365

5GHz-1 Wireless

Network Name (SSID): TP-Link_5053_5G_1

Password: 66378365

5GHz-2 Wireless

Network Name (SSID): TP-Link_5053_5G_2

Password: 66378365

Back Save

☞ **Tips:** Functions, such as Parental Controls, Qos and NAT Forwarding, are not supported in the Access Point mode.

4.4. Set Up an IPv6 Internet Connection

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

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

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

4. Fill in information as required by different connection types. Red blanks must be filled in.

1) [Static IP](#): Fill in blanks and click [Save](#).

The screenshot shows the 'Internet' configuration window. At the top, the title 'Internet' is displayed. Below it, the 'IPv6' toggle switch is turned on. The 'Internet Connection Type' is set to 'Static IP' in a dropdown menu. There are five empty text input fields for 'IPv6 Address:', 'Default Gateway:', 'Primary DNS:', and 'Secondary DNS:'. The 'MTU Size' is set to '1500' in a text box, with a note: 'bytes. (The default is 1500, do not change unless necessary.)'. A 'Save' button is located at the bottom right.

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

The screenshot shows the 'Internet' configuration window with 'Dynamic IP (SLAAC/DHCPv6)' selected in the 'Internet Connection Type' dropdown. The 'IPv6' toggle is on. The 'IPv6 Address:', 'Primary DNS:', and 'Secondary DNS:' fields are all set to '::'. There are 'Renew' and 'Release' buttons. An 'Advanced' link with a heart icon is visible. A 'Save' button is at the bottom right.

- 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, please untick the [PPPoE same session with IPv4 connection](#) checkbox and manually enter the username and password for the IPv6 connection.

The screenshot shows the 'Internet' settings window. At the top, the title is 'Internet'. Below it, there is a toggle switch for 'IPv6' which is turned on. Underneath, the 'Internet Connection Type' is set to 'PPPoE' in a dropdown menu. A checkbox labeled 'PPPoE same session with IPv4 connection' is checked. Below this, the 'IPv6 Address' is set to '::'. There is a heart icon and the word 'Advanced' below the IPv6 address. At the bottom left, there are 'Connect' and 'Disconnect' buttons. At the bottom right, there is a 'Save' button.

- 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](#).

The screenshot shows the 'Internet' settings window. At the top, the title is 'Internet'. Below it, there is a toggle switch for 'IPv6' which is turned on. Underneath, the 'Internet Connection Type' is set to '6to4 Tunnel' in a dropdown menu. Below this, there are three fields: 'IPv4 Address' set to '0.0.0.0', 'IPv4 Subnet Mask' set to '0.0.0.0', and 'IPv4 Default Gateway' set to '0.0.0.0'. Below these, the 'TUNNEL ADDRESS' is set to '::'. There is a heart icon and the word 'Advanced' below the tunnel address. At the bottom left, there are 'Connect' and 'Disconnect' buttons. At the bottom right, there is a 'Save' button.

- 5) **Pass-Through (Bridge):** Click [Save](#) and skip to Step 6.

The screenshot shows the 'Internet' settings window. At the top, the title is 'Internet'. Below it, there is a toggle switch for 'IPv6' which is turned on. Underneath, the 'Internet Connection Type' is set to 'Pass-Through (Bridge)' in a dropdown menu. At the bottom right, there is a 'Save' button.

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](#).

🔗 Tips: Find [Help](#) on the web management page to know more about items.

6. Click [Status](#) to check whether you have successfully set up an IPv6 connection. The following figure is an example of a successful PPPoE configuration.

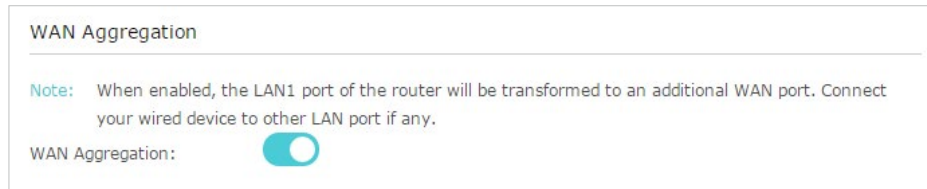
🔗 Tips: Visit the [FAQ](#) section if there is no internet connection.

4.5. Set Up WAN Aggregation

WAN Aggregation transforms the LAN1 port to an additional WAN port, and makes a single high-bandwidth data path. Unleash faster internet from ISPs that provide bandwidth rates over 1Gbps and no longer be limited by your networking hardware.

📌 Note: Before enabling this feature, make sure that your ISP supports WAN Aggregation and your modem has two WAN ports.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Advanced](#) > [Network](#) > [Internet](#).
3. Toggle on [WAN Aggregation](#) to enable it and the router will reboot to apply the settings.



4. Connect the router's WAN port and LAN1 port to your modem's two WAN ports with two Ethernet cables.

Chapter 5

TP-Link Cloud Service

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

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

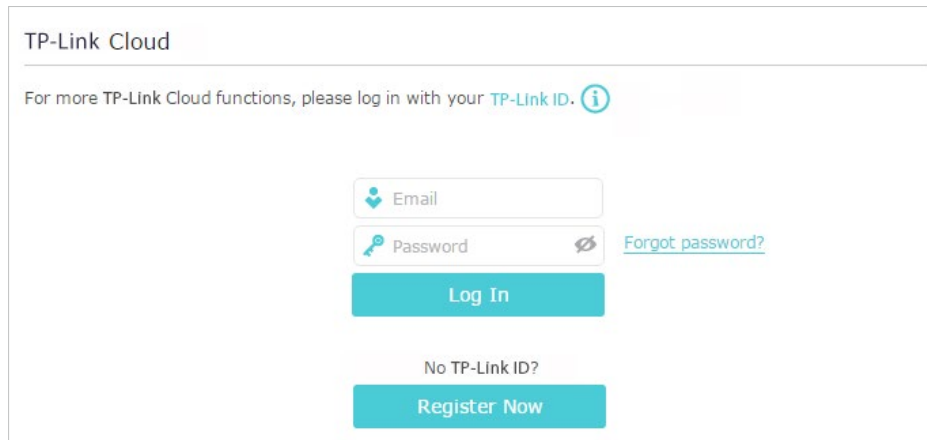
It contains the following sections:

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

5.1. Register a TP-Link ID

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

1. Visit <http://tplinkwifi.net>, and log in with the password you set for the router.
2. Go to **Basic > TP-Link Cloud**.
3. Click **Register Now** and follow the instructions to register a TP-Link ID.



The screenshot shows the TP-Link Cloud login page. At the top, it says "TP-Link Cloud". Below that, a message reads: "For more TP-Link Cloud functions, please log in with your TP-Link ID." followed by an information icon. There are two input fields: "Email" with an envelope icon and "Password" with a key icon. To the right of the password field is a link that says "Forgot password?". Below the input fields is a blue "Log In" button. Underneath the "Log In" button, it says "No TP-Link ID?" followed by a blue "Register Now" button.

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

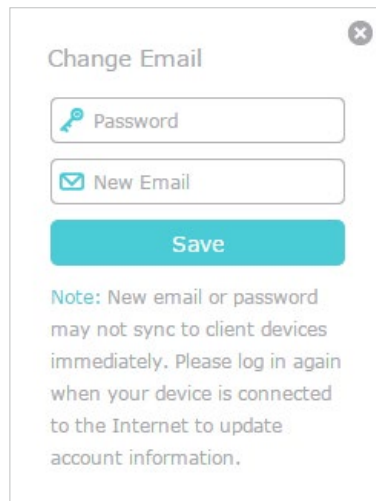
Note:

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

5.2. Change Your TP-Link ID Information

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

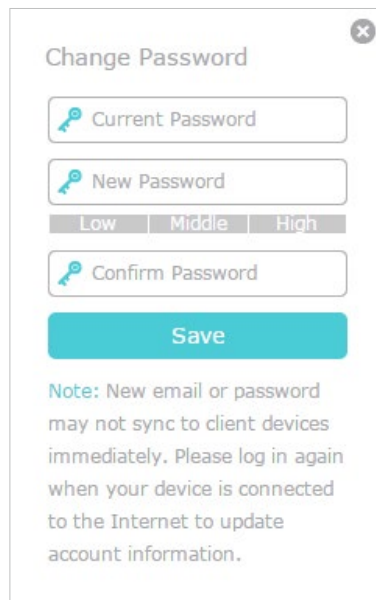
1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID.
2. Go to **Basic > TP-Link Cloud**, and focus on the **Account Information** section.
 - **To change your email address:**
 1. Click  behind the Email.
 2. Enter the password of your TP-Link ID, then a new email address. And click **Save**.



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

- **To change your password:**

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



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

5.3. Manage the User TP-Link IDs

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

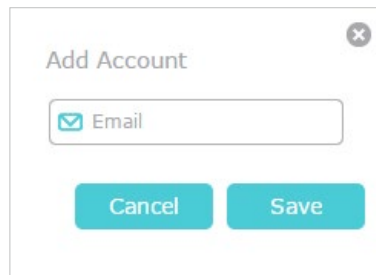
- Reset the router to its factory default settings either on the web management page or in the Tether app.

- Add/remove other TP-Link IDs to/from the router.

5.3.1. Add TP-Link ID to Manage the Router

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID.
2. Go to **Basic > TP-Link Cloud**, 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.

A modal dialog box titled "Add Account" with a close button (X) in the top right corner. It contains a text input field with a checkmark icon and the label "Email". Below the input field are two buttons: "Cancel" and "Save".

Add Account	
☒ Email	
Cancel	Save

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

Bound Accounts				
+ Bind - Unbind				
☐	ID	Email	Binding Date	Role
☐	1	thangpui_road@ms.com	16/11/2016	Admin
☐	2	thangpui@thangpui.com	16/11/2016	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 **Basic > TP-Link Cloud**, 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	thangpui_road@ms.com	16/11/2016	Admin
☒	2	thangpui@thangpui.com	16/11/2016	User

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

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

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



2. Connect your device to the router’s wireless network.
3. Launch the Tether app, select the model of your router and log in with your TP-Link ID or the password you set for the router.
4. Manage your router as needed.

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

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

Chapter 6

Guest Network

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

It contains the following sections:

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

6.1. Create a Network for Guests

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Advanced](#) > [Guest Network](#). Locate the [Wireless](#) section.
3. Create a guest network as needed.
 - 1) Tick the [Enable Guest Network](#) checkbox for the 2.4GHz/5GHz-1/5GH-2 wireless network.
 - 2) Customize the SSID. Don't select [Hide SSID](#) unless you want your guests to manually input the SSID for guest network access.
 - 3) Set [Security](#) to [WPA/WPA2 Personal](#), keep the default [Version](#) and [Encryption](#) values, and customize your own password.

Wireless

2.4GHz Wireless: ☐ Enable Guest Network

Network Name (SSID): ☐ Hide SSID

5GHz-1 Wireless: ☐ Enable Guest Network

Network Name (SSID): ☐ Hide SSID

5GHz-2 Wireless: ☐ Enable Guest Network

Network Name (SSID): ☐ Hide SSID

Security: ☐ No Security ☒ WPA/WPA2-Personal ☐ Portal

Version: ☒ Auto ☐ WPA-PSK ☐ WPA2-PSK

Encryption: ☒ Auto ☐ TKIP ☐ AES

Password:

Save

4. Click [Save](#). Now your guests can access your guest network using the SSID and password you set!

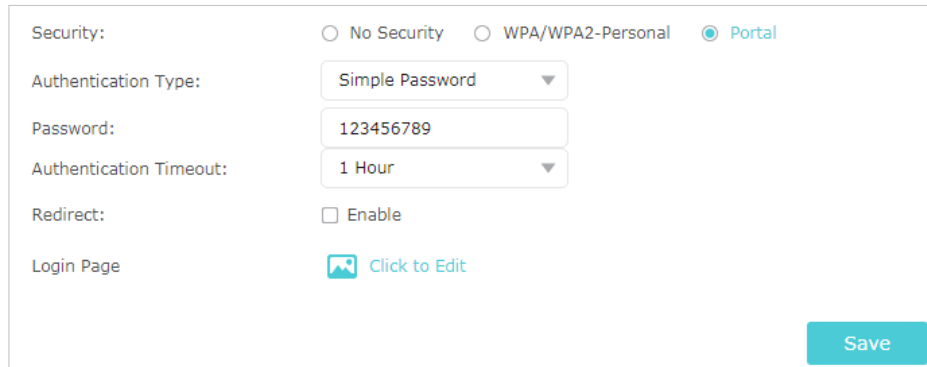
Tips: To view guest network information, go to [Advanced](#) > [Status](#) and locate the [Guest Network](#) section.

6.2. Set Portal Authentication

Imagine that you run a small shop and provide a guest network for your customers. You want to seize every opportunity to promote your shop, which makes portal authentication an excellent choice. Customers will be directed to a web page for access

verification, on which your personalized promotion is displayed. Moreover, you can specify a web link so that the newly connected guest will be redirected to, for example, the official website of your shop.

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 > Guest Network**. Locate the Wireless section.
3. Select **Portal** for **Security**.

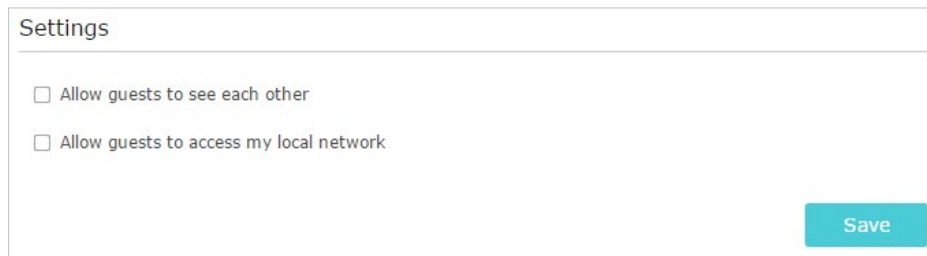


4. Select the **Authentication Type**.
 - **Simple Password** – Specify a password for authentication (8-16 alphanumeric or “_” characters are allowed).
 - **No Authentication** – Clients can access the network without any authentication.
5. Specify the **Authentication Timeout**. When a guest’s authentication expires, they have to reconnect to the network.
6. (Optional) Enable **Redirect** and enter the desired web link. The newly connected guest will be redirected to the website you have specified.
7. (Optional) You can click **Click to Edit** to personalize the authentication page.
 - **Portal Title** – Up to 31 characters.
 - **Terms of Use** – Up to 1023 characters.
 - **Logo Image** – Upload a JPG or PNG image (less than 100KB) to customize the logo.
 - **Background Image** – Upload a JPG or PNG image (less than 2MB) to customize the background.
8. Click **Save**.

6.3. 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](#) > [Guest Network](#). Locate the [Settings](#) section.
3. Customize guest network options according to your needs.



Settings

☐ Allow guests to see each other

☐ Allow guests to access my local network

Save

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

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

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

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

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

 **Tips:** To view guest network information, go to [Advanced](#) > [Status](#) and locate the [Guest Network](#) section.

Chapter 7

USB Settings

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

The router supports USB external flash drives and hard drives.

It contains the following sections:

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

7.1. Access the USB Storage Device

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

 Tips:

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

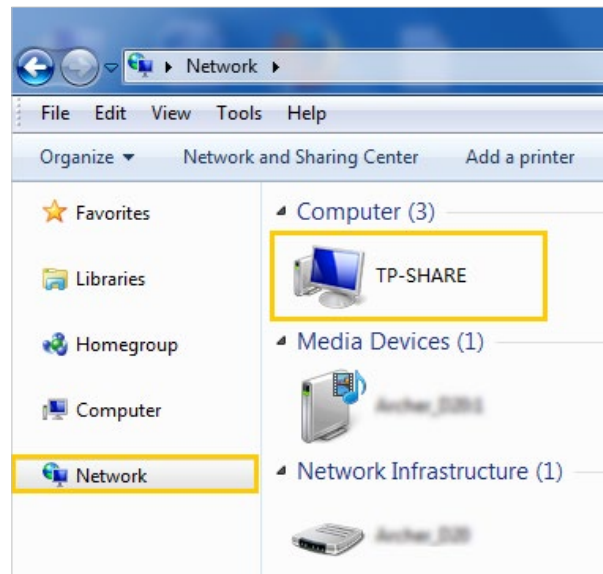
7.1.1. Access the USB Device Locally

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

Windows computer

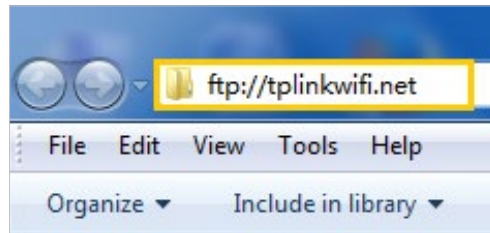
Go to [Computer](#) > [Network](#), then click the Network Server Name ([TP-SHARE](#) by default) in the [Computer](#) section.

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



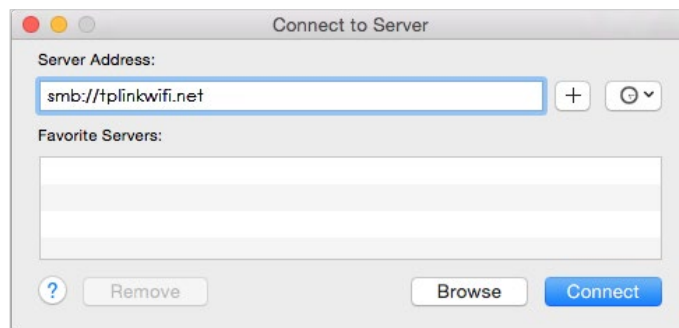
Windows computer

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



Mac

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



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

Tablet

Use a third-party app for network files management.

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

7.1.2. Access the USB Device Remotely

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

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

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

Follow the steps below to configure remote access settings.

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

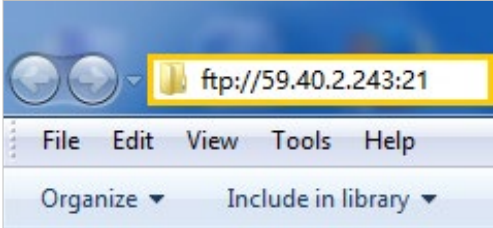
Access Address

Network/Media Server Name:

Enable	Access Method	Address	Port
☒	Network Neighborhood	\\TP-Share	---
☒	FTP	ftp://192.168.1.1:21	21
☒	FTP (Via Internet)	ftp://192.168.0.102:21 Edit	21

[Save](#)

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

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

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

7.1.3. Customize the Access Settings

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

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

- **To customize the address of the USB disk:**

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

1. In the Access Address section, make sure [Network Neighborhood](#) is ticked, and enter a Network/Media Server Name as you like, such as [MyShare](#), then click [Save](#).

Access Address

Network/Media Server Name:

Enable	Access Method	Address	Port
☒	Network Neighborhood	\\TP-Share	---
☒	FTP	ftp://192.168.1.1:21	21
☐	FTP (Via Internet)	ftp://192.168.0.102:21 Edit	21

[Save](#)

- Now you can access the USB disk by visiting [\\MyShare](#) (for Windows) or [smb://MyShare](#) (for Mac).
- To only share specific content:**
 - Focus on the [Sharing Contents and Security](#) section. Click the [✎](#) button to specify sharing folders and click [Save](#).

Select Folders

☐ Share All Folders

 KINGSTON DT 101 G2 (7.4 GB)

 KINGSTON(G:)

-  FOUND.000
-  System Volume Information
-  ☒ 1. photos
-  ☒ 2. accommodation
-  3. PPT
-  4. videos

[Cancel](#) [Save](#)

- Decide the way you share the folder:
 - Access Authentication:** Tick to enable access authentication for sharing folders, and you will be required to log in to the Sharing Account to access the USB disk. Refer to [To customize the address of the USB disk](#) to learn more.
 - Enable Media Sharing:** Tick to enable media sharing for sharing folders, and you can view photos, play music and watch movies stored on the USB disk directly from DLNA-supported devices. Click [Media Sharing](#) to learn more.

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

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

In the [Sharing Contents and Security](#) part, enable [Access Authentication](#). The default accounts are [admin](#) and [visit](#). Click  to customize the username and a password.

Access Authentication:			
Account	Password	Access Permission	Modify
admin	***** 	Read and Write	
visit	***** 	Only Read	

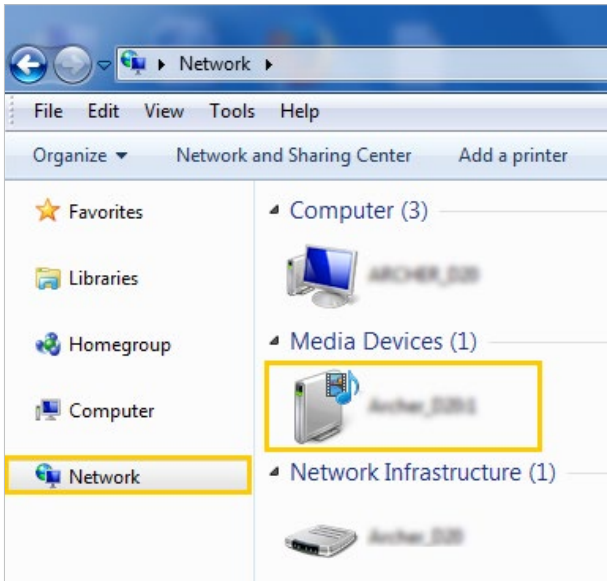
 **Note:** For Windows users, do not set the sharing username the same as the Windows username. Otherwise, Windows credential mechanism may cause the following problems:

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

7.2. Media Sharing

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

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

Windows Computer	Go to Computer > Network, then click the Media Server Name (Model number-share by default) in the Media Devices section. Note: Here we take Windows 7 as an example. 
Tablet	Use a third-party DLNA-supported player.

7.3. Time Machine

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

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

Time Machine

Time Machine: ☒ Enable

Backup Disk: Select

Place select a location for Time Machine backups

Size Limit for Backups: GB (0 means no limit.)

0GB available

Save

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

4. Click [Select](#) to select a location for Time Machine backups.
5. Set the [Size Limit for Backups](#).
 **Note:** 0 means no limit for the space.
6. Click [Save](#).

Chapter 8

HomeCare – Parental Controls, QoS, Antivirus

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

It contains the following sections:

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

8.1. Parental Controls

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

8.1.1. Scenario 1: Setting Up Access Restrictions

I want to:

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

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 [Basic > HomeCare > Parental Controls](#) or [Advanced > Parental Controls](#).
3. Click [+ Add](#) to create a profile for a family member.
4. Add basic profile information.

Profiles + Add

Name	Filter Level	Time Limits	Devices	Insights	Internet Access	Modify
--	--	--	--	--	--	--

Filter Level

Basic Info Time Controls

Name:

Devices:

Add

Cancel Next

- 1) Enter a [Name](#) for the profile to make it easier to identify.
- 2) Under [Devices](#), click [+](#).
- 3) Select the devices that belong to this family member. Access restrictions will be applied to these devices. Click [Add](#) when finished.

Note: Only devices that have previously been connected to your router's network are listed here. If you are unable to find the device you want to add, connect it to your network and then try again.

4) Click [Next](#).

5. Block content for this profile.

Profiles + Add

Name Filter Level Time Limits Devices Insights Internet Access Modify

Filter Level

Basic Info Time Controls



Child
(0-7)



Pre-Teen
(8-12)



Teen
(13-17)



Adult
(>17)

Based on the selected filter level, Adult Content, Gambling have already been filtered for 1. You can block more from Available Categories or by adding a new keyword.

Filter Content +

Adult Content

Gambling

Social Networking -

Available Categories

Sex Education +

Online Communication +

Pay to Surf +

Media +

Downloads +

Games +

Cancel
Back
Next

- 1) Select a filter level based on the age of the family member this profile belongs to. Blocked content will then be displayed in the [Filter Content](#) list.
- 2) If needed, you can edit the blocked content by clicking + and - to move categories between the [Filter Content](#) and [Available Categories](#) lists.
- 3) You can also block a specific website or application by clicking + next to [Filter Content](#). Enter a keyword (for example, "Facebook") or a URL (for example, "www.facebook.com"), then click [Add](#).
- 4) Click [Next](#).
6. Set time restrictions on internet access.

Profiles + Add

Name Filter Level Time Limits Devices Insights Internet Access Modify

Basic Info Filter Level Time Controls

Time Limits
Set daily time limits for the total time spent online.

Mon to Fri ☒ Enable 2h

Sat & Sun ☒ Enable 2h

Bed Time
Set a time period while this profile cannot access the internet.

School Nights (Sunday - Thursday) ☒ Enable From 10 : 00 PM To 07 : 00 AM

Weekend (Friday and Saturday) ☐ Enable

Cancel Back Save

- 1) Enable **Time Limits** on Monday to Friday and Saturday & Sunday then set the allowed online time to 2 hours each day.
- 2) Enable **Bed Time** on School Nights (Sunday to Thursday) and use the up/down arrows or enter times in the fields. Devices under this profile will be unable to access the internet during this time period.
- 3) Click **Save**.

Done!

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

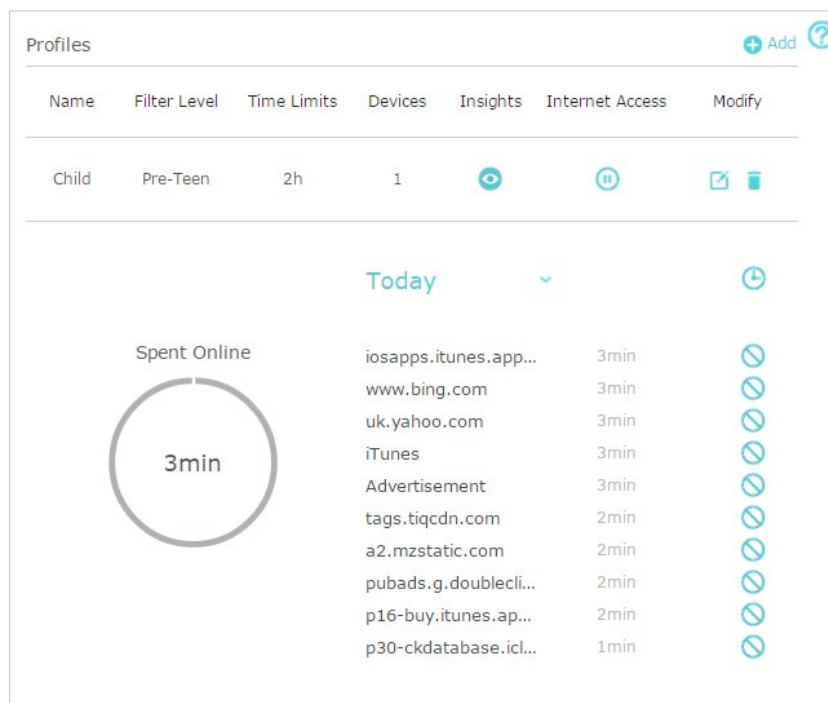
8. 1. 2. Scenario 2: Monitoring Internet Usage

I want to:

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

How can I do that?

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



3. Find the correct profile and click in the Insights column.

Note: If you have not set up a profile for your child yet, you should do that first by clicking **Add**, then follow the steps to create a profile. Refer to [Scenario 1: Setting Up Access Restrictions](#) for detailed instructions.

4. Use the drop-down menu to view the websites visited and time spent online for any of the last 7 days. Click to view a complete history.

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

Done!

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

8.2. QoS

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

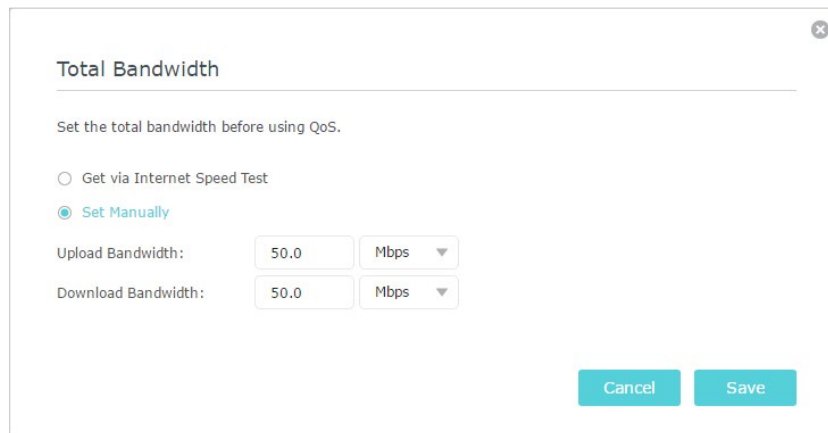
I want to:

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

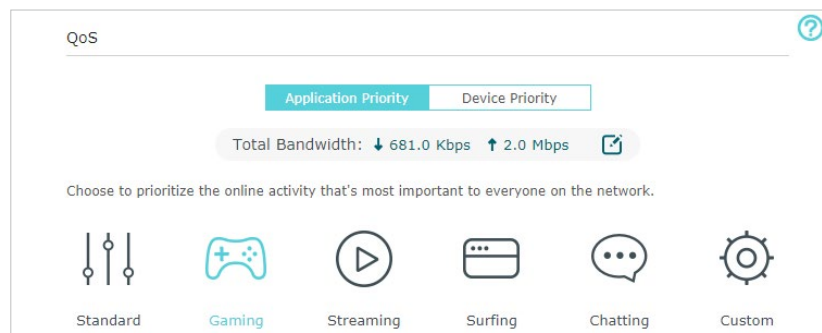
next 2 hours.

How can I do that?

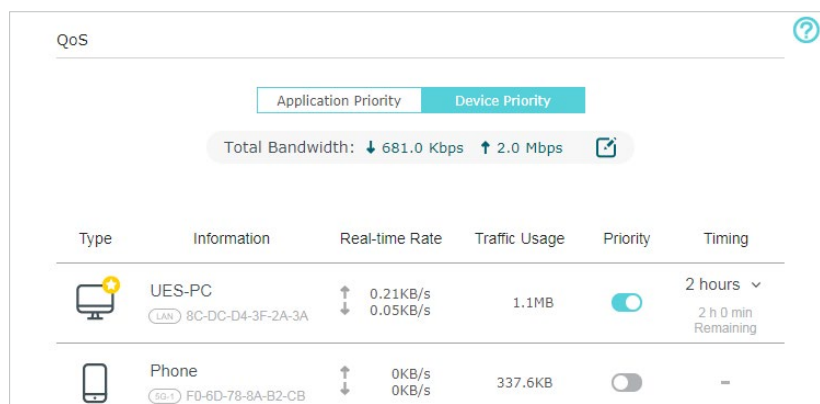
1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Basic > HomeCare > QoS](#) or [Advanced > QoS](#).
3. Click  to set the total bandwidth. The default is [Get via Internet Speed Test](#). You can also choose [Set Manually](#) and enter bandwidth in the fields, then click [Save](#).



4. In the [Application Priority](#) tab, click [Gaming](#) to prioritize this online activity. The default is [Standard](#), with no application prioritized.



5. In the [Device Priority](#) tab, find your computer and toggle on [Priority](#). Click the entry in the [Timing](#) column and select 2 hours as the duration you want the device to be prioritized for.



Done!

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

8.3. Antivirus

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

Antivirus includes the following protection:

- Malicious Content Filter

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

- Intrusion Prevention System

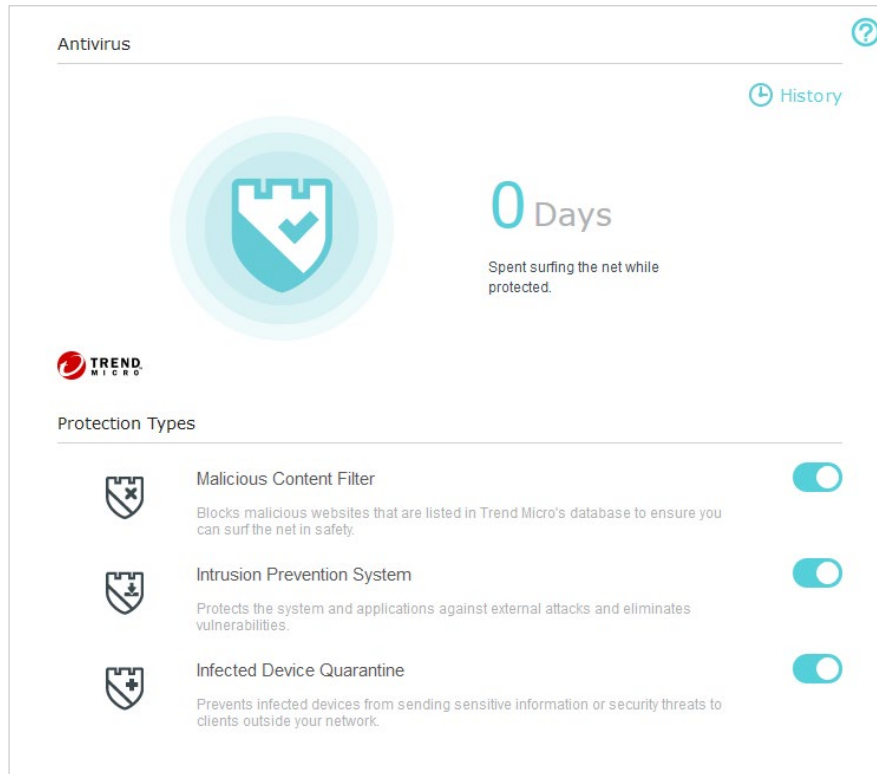
Identifies and blocks potential threats from attackers and fixes vulnerabilities in the network.

- Infected Device Quarantine

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

- **To access your router's Antivirus settings:**

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



3. Choose the protection types you want to enable. It is recommended to keep them all enabled to ensure the best protection for your network.
4. Click  [History](#) to view threats that have been detected and resolved.

Chapter 9

Network Security

This chapter guides you on how to protect your home network from cyber attacks and unauthorized users by implementing these three network security functions. You can protect your home network against DoS (Denial of Service) attacks from flooding your network with server requests using DoS Protection, block or allow specific client devices to access your network using Access Control, or you can prevent ARP spoofing and ARP attacks using IP & MAC Binding.

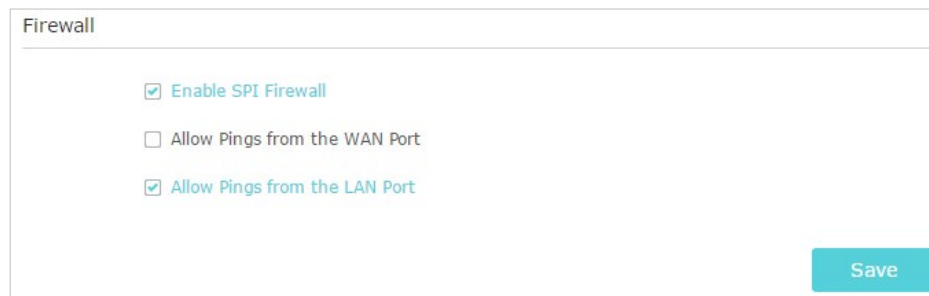
It contains the following sections:

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

9.1. Protect the Network from Cyber Attacks

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

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



Firewall

☒ Enable SPI Firewall

☐ Allow Pings from the WAN Port

☒ Allow Pings from the LAN Port

Save

9.2. Access Control

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

I want to:

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

How can I do that?

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



Access Control

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](#) and click [Save](#).

Access Mode

Default Access Mode: ☒ Blacklist ☐ Whitelist

Save

- 2) Select the device(s) to be blocked in the [Online Devices](#) table by ticking the checkbox(es).
- 3) Click [Block](#) above the [Online Devices](#) table. The selected devices will be added to [Devices in Blacklist](#) automatically.

Online Devices

Refresh Block

☒	ID	Device Name	IP Address	MAC Address	Connection Type	Modify
☒	1	Roses-iPhone	192.168.0.175	1C-1A-C0-3B-28-4B	Wireless	
☐	2	ADMIN-PC	192.168.0.157	C0-4A-00-1A-C3-45	Wireless	

To allow specific device(s):

- 1) Select [Whitelist](#) and click [Save](#).

Access Mode

Default Access Mode: ☐ Blacklist ☒ Whitelist

Save

- 2) Click [Add](#) in the [Devices in Whitelist](#) section. Enter the [Device Name](#) and [MAC Address](#) (You can copy and paste the information from the [Online Devices](#) list if the device is connected to your network).

Devices in Whitelist

+ Add - Delete

☐	ID	Device Name	MAC Address	Modify
☐	--	--	--	--

Device Name:

MAC Address:

Cancel OK

- 3) Click [OK](#).

Done!

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

9.3. IP & MAC Binding

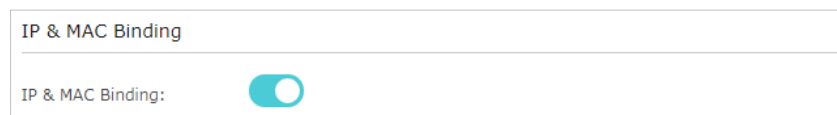
IP & MAC Binding, namely, ARP (Address Resolution Protocol) Binding, is used to bind network device's IP address to its MAC address. This will prevent ARP Spoofing and other ARP attacks by denying network access to an device with matching IP address in the Binding list, but unrecognized MAC address.

I want to:

Prevent ARP spoofing and ARP attacks.

How can I do that?

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



IP & MAC Binding

IP & MAC Binding: ☒

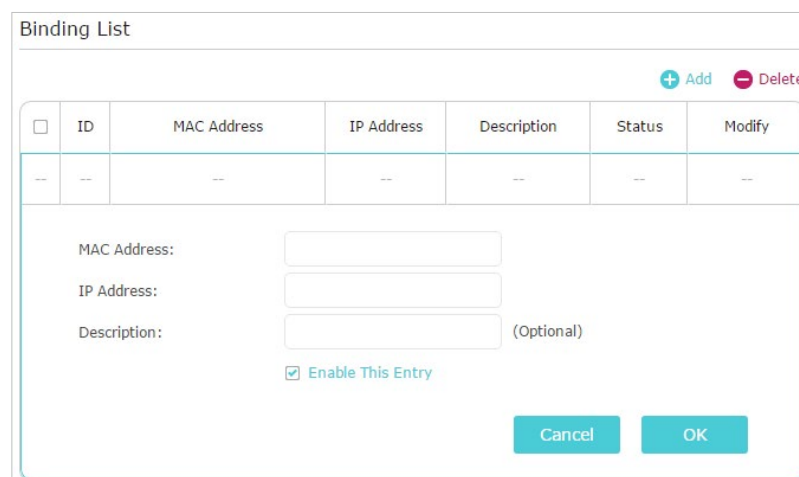
4. Bind your device(s) according to your need.

To bind the connected device(s):

Click  to add the corresponding device to the **Binding List**.

To bind the unconnected device:

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



Binding List

[+ Add](#) [- Delete](#)

☐	ID	MAC Address	IP Address	Description	Status	Modify
☐	--	--	--	--	--	--

MAC Address:

IP Address:

Description: (Optional)

☒ Enable This Entry

[Cancel](#) [OK](#)

- 2) Enter the **MAC address** and **IP address** that you want to bind. Enter a **Description** for this binding entry.
- 3) Tick the **Enable This Entry** checkbox and click **OK**.

Done!

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

Chapter 10

NAT Forwarding

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

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

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

It contains the following sections:

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

10.1. Share Local Resources on the Internet by Virtual Servers

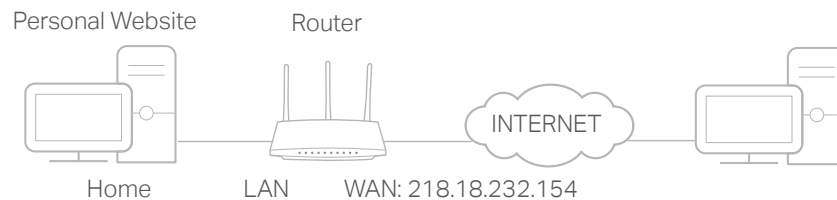
When you build up a server on the local network and want to share it on the internet, Virtual Servers can realize the service and provide it to internet users. At the same time Virtual Servers can keep the local network safe as other services are still invisible from the internet.

Virtual Servers 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 > Virtual Servers**.
4. Click **Add**. Click **View Existing Services** and select **HTTP**. The **External Port**, **Internal Port** and **Protocol** will be automatically filled in. Enter the PC's IP address 192.168.0.100 in the **Internal IP** field.
5. Click **OK**.

Virtual Servers

+ Add - Delete

☐	ID	Service Type	External Port	Internal IP	Internal Port	Protocol	Status	Modify
☐	--	--	--	--	--	--	--	--

Service Type: View Existing Services

External Port: (XX-XX or XX)

Internal IP:

Internal Port: (XX or Blank ,1-65535)

Protocol:

☒ Enable This Entry

Cancel
OK

 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 [Service Type](#), you can enter the corresponding parameters manually. You should verify the port number that the service needs.
- You can add multiple virtual server 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.

10.2. Open Ports Dynamically by Port Triggering

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

Follow the steps below to configure the Port Triggering rules:

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > NAT Forwarding > Port Triggering** and click **Add**.
3. Click **View Existing Applications**, and select the desired application. The **Triggering Port**, **External Port** and **Protocol** will be automatically filled in. The following picture takes application **MSN Gaming Zone** as an example.
4. Click **OK**.

Port Triggering

+ Add - Delete

☐	ID	Application	Triggering Port	Triggering Protocol	External Port	External Protocol	Status	Modify
☐								

Application: MSN Gaming Zone View Existing Applications

Triggering Port: 47624 (XX,1-65535)

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

Cancel
OK

Tips:

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

10.3. Make Applications Free from Port Restriction by DMZ

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

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

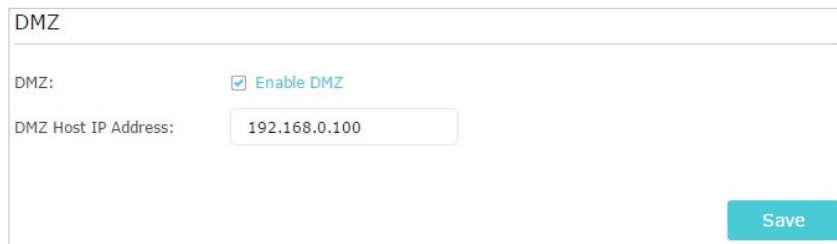
I want to:

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

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

How can I do that?

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



DMZ

DMZ: ☒ Enable DMZ

DMZ Host IP Address:

Save

5. Click **Save**.

Done!

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

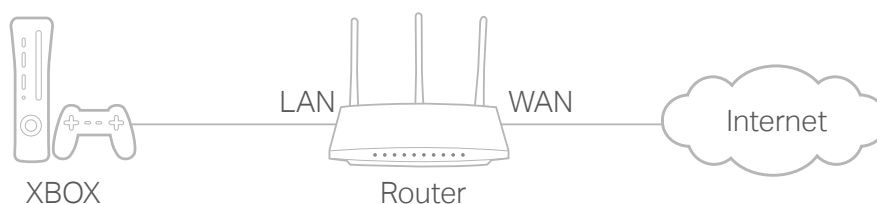
10.4. Make Xbox Online Games Run Smoothly by UPnP

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

☛ Tips:

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

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



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

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

UPnP

UPnP: ☒

UPnP Service List

Total Clients: 0 [Refresh](#)

ID	Service Description	External Port	Protocol	Internal IP Address	Internal Port
--	--	--	--	--	--

Chapter 11

VPN Server

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

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

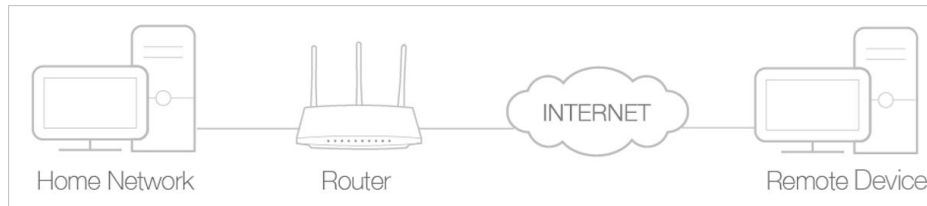
PPTP VPN is more easily used and its speed is faster, it's compatible with most operating systems and also supports mobile devices. Its security is poor and your packets may be cracked easily, and PPTP VPN connection may be prevented by some ISP.

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

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

11.1. Use OpenVPN to Access Your Home Network

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



Step1. Set up OpenVPN Server on Your Router

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

OpenVPN

Note: No certificate currently, please **Generate** one before enabling VPN Server.

☒ **Enable VPN Server**

Service Type: ☒ **UDP** ☐ TCP

Service Port:

VPN Subnet/Netmask:

Client Access: ☒ **Home Network Only** ☐ Internet and Home Network

Save

Note:

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

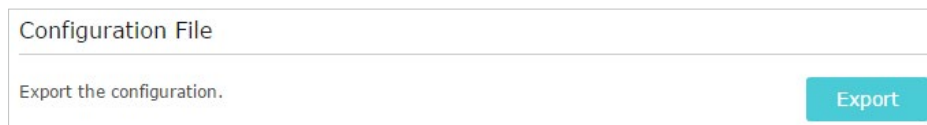
3. Select the **Service Type** (communication protocol) for OpenVPN Server: UDP, TCP.
4. Enter a VPN **Service Port** to which a VPN device connects, and the port number should be between 1024 and 65535.
5. In the **VPN Subnet/Netmask** fields, enter the range of IP addresses that can be leased to the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

6. Select your **Client Access** type. Select **Home Network Only** if you only want the remote device to access your home network; select **Internet and Home Network** if you also want the remote device to access internet through the VPN Server.
7. Click **Save**.
8. Click **Generate** to get a new certificate.



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

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



Step 2. Configure OpenVPN Connection on Your Remote Device

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

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

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

11.2. Use PPTP VPN to Access Your Home Network

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

Step 1. Set up PPTP VPN Server on Your Router

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

PPTP VPN

☒ Enable VPN Server

Client IP Address: - 10.0.0. (up to 10 clients)

 Advanced

Allow Samba (Network Place) access: ☒

Allow NetBIOS passthrough: ☒

Allow Unencrypted connections: ☒

Save

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. Click [Advanced](#) to 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 (up to 16 users)

[+ Add](#) [- Delete](#)

☐	ID	Username	Password	Modify
☐	--	--	--	--

Username:

Password:

Cancel **OK**

☐	1	admin	admin	 
--------------------------	---	-------	-------	---

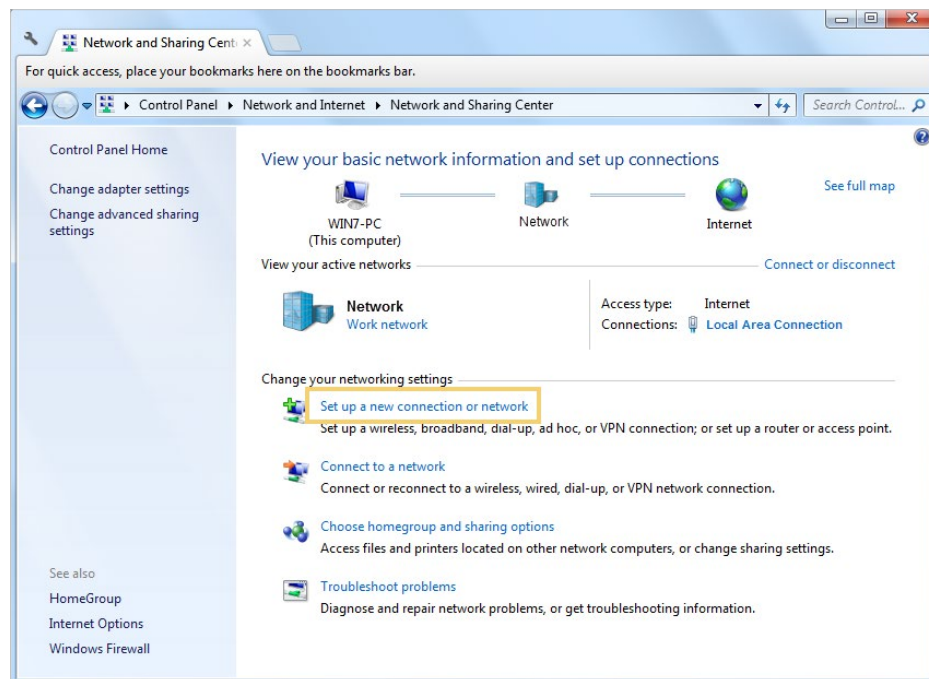
- 1) Click [Add](#).

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

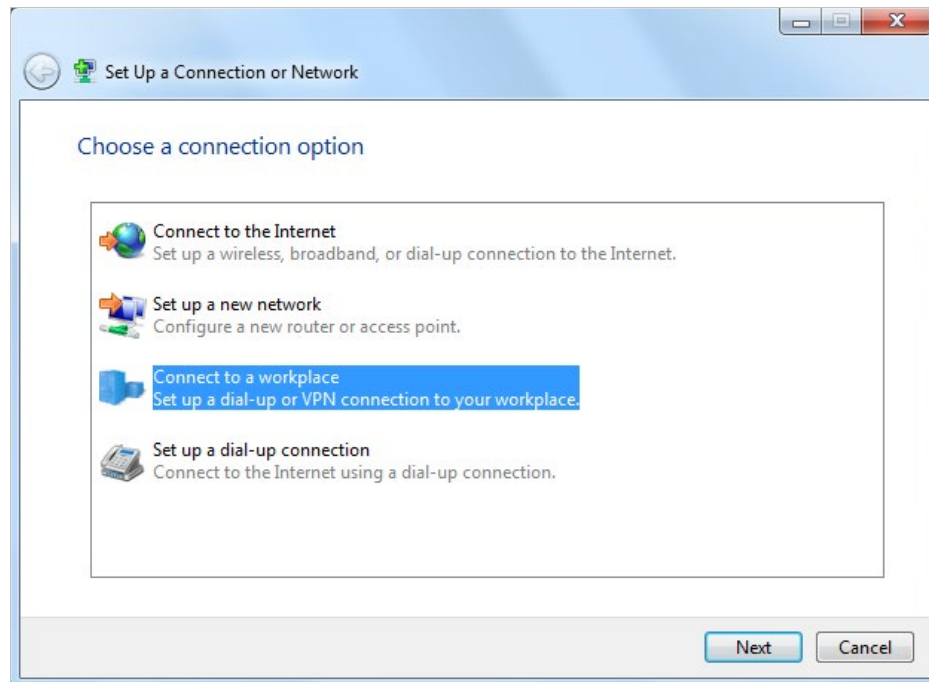
Step 2. Configure PPTP VPN Connection on Your Remote Device

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

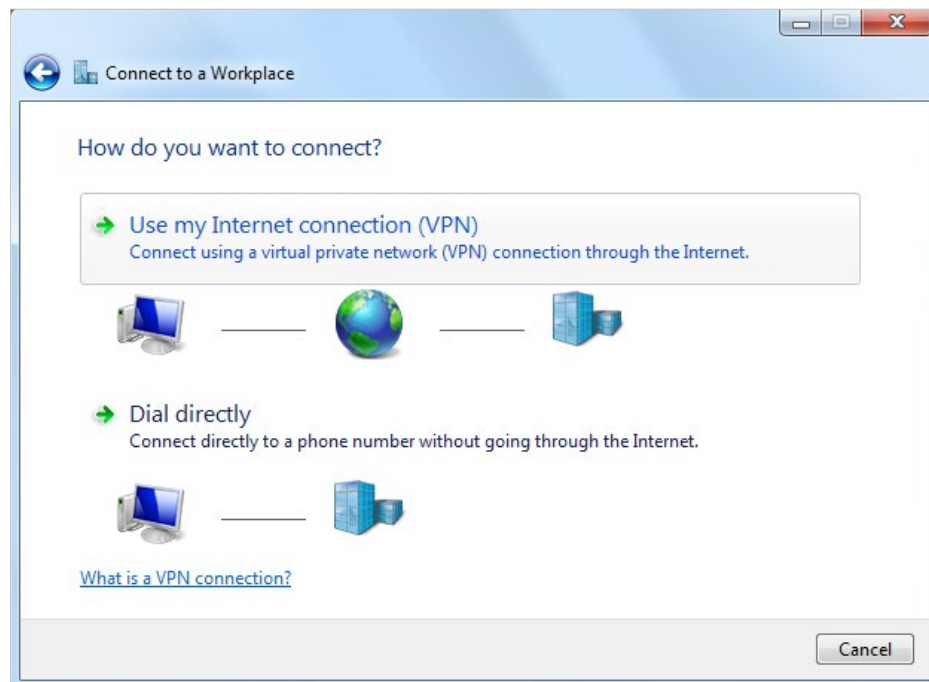
1. Go to [Start > Control Panel > Network and Internet > Network and Sharing Center](#).
2. Select [Set up a new connection or network](#).



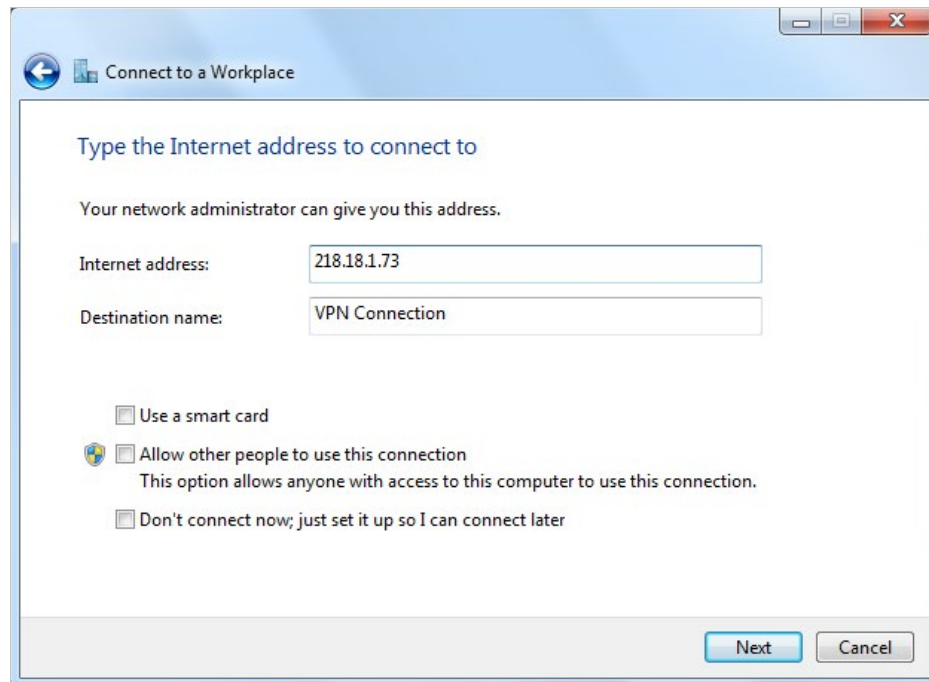
3. Select [Connect to a workplace](#) and click [Next](#).



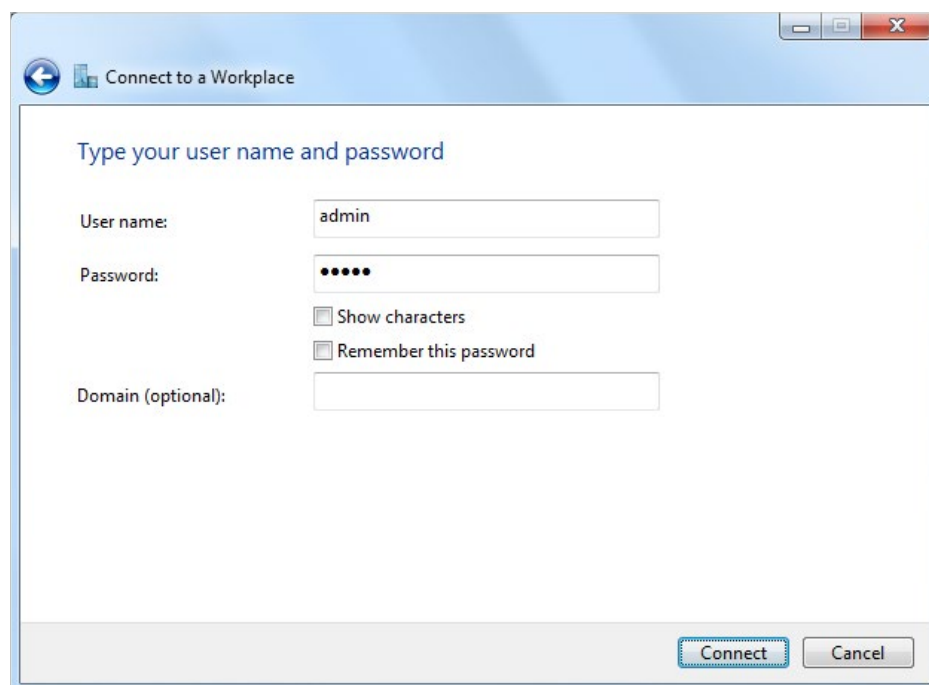
4. Select **Use my Internet connection (VPN)**.



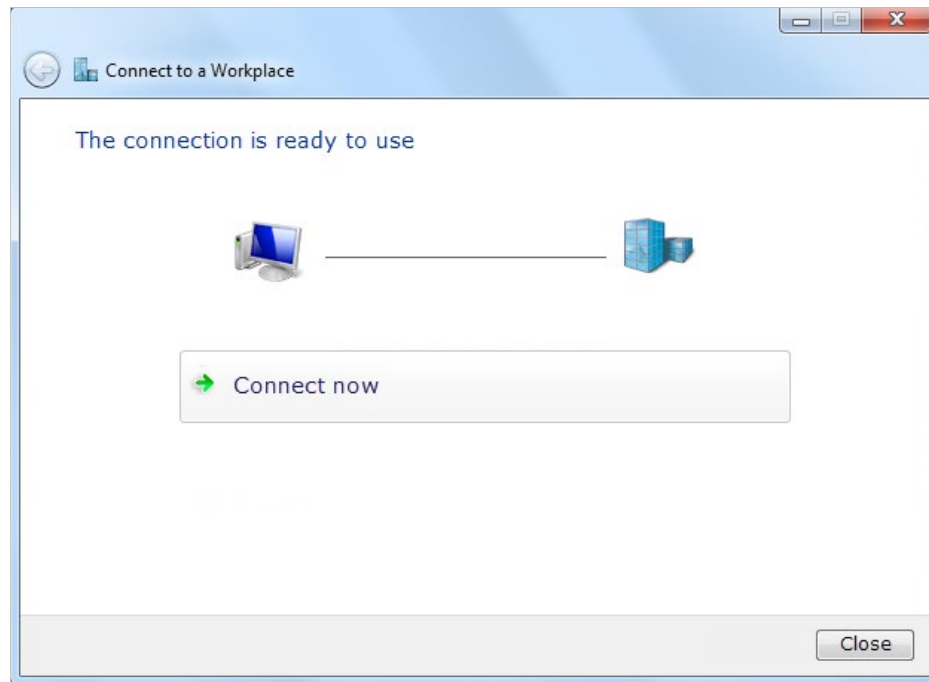
5. Enter the internet IP address of the router (for example: 218.18.1.73) in the **Internet address** field. Click **Next**.



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



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



Chapter 12

Customize Your Network Settings

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

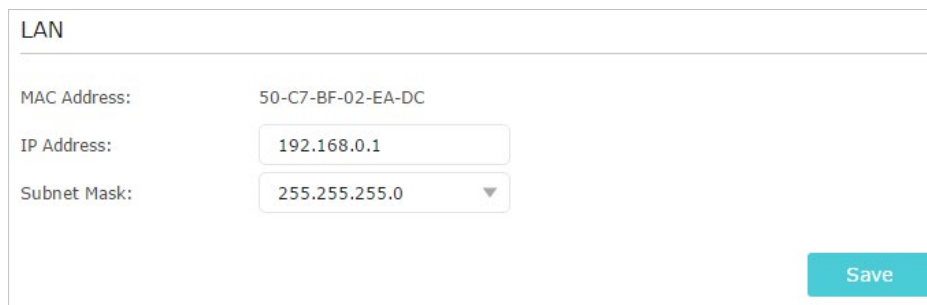
It contains the following sections:

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

12.1. Change the LAN Settings

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

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



LAN

MAC Address: 50-C7-BF-02-EA-DC

IP Address:

Subnet Mask:

[Save](#)

4. Click [Save](#).

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

12.2. Set Up Link Aggregation

The Link Aggregation feature combines two ports together to make a single highbandwidth data path, thus sustaining a higher-speed and more stable wired network.

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

Link Aggregation

Link Aggregation: ☒ **Enable** Only support static link aggregation

Link Aggregation Ports:

☐ LAN1
 ☒ **LAN2**
☒ **LAN3**
☐ LAN4

Note: Select two ports. LAN ports used for IPTV or WAN Aggregation cannot be selected.

Save

4. Specify two ports for Link Aggregation.

Note: LAN ports used for IPTV or WAN aggregation cannot be selected.

5. Click **Save**.

12.3. Configure to Support IPTV Service

I want to:

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

How can I do that?

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

IPTV

IGMP Snooping: ☐ Enable

IGMP Proxy: ☒ **Enable**

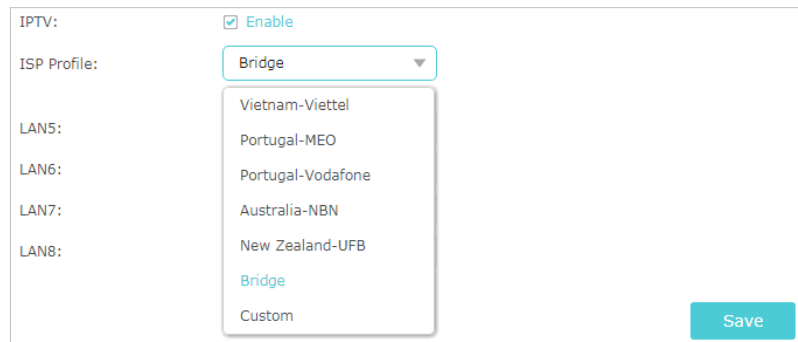
IGMP Version:

V2 ▼

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



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

Done!

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

 **Tips:** Qos and IPTV cannot be enabled at the same time.

12.4. Specify DHCP Server Settings

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

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

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

Settings

DHCP Server: ☒ [Enable DHCP Server](#)

IP Address Pool: -

Address Lease Time: minutes. (1-2880. The default value is 120.)

Default Gateway: (Optional)

Primary DNS: (Optional)

Secondary DNS: (Optional)

[Save](#)

1. Tick the [Enable DHCP Server](#) 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.

Address Reservation

[+ Add](#) [- Delete](#)

☐	ID	MAC Address	Reserved IP Address	Description	Status	Modify
☐	--	--	--	--	--	--

MAC Address:

IP Address:

Description:

☐ Enable This Entry

[Cancel](#) [OK](#)

2. Click [View Existing Devices](#) or enter the [MAC address](#) of the client device.
3. Enter the [IP address](#) to reserve for the client device.
4. Enter the [Description](#) for this entry.
5. Tick the [Enable This Entry](#) checkbox and click [OK](#).

12.5. Set Up a Dynamic DNS Service Account

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

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

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

Dynamic DNS

Service Provider:

☒ TP-Link

☐ NO-IP

☐ DynDNS

Current Domain Name:

Domain Name List

+ Register

- Delete

☐	Domain Name	Registered Date	Status	Operation	Modify
--	--	--	--	--	--

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](#).

Dynamic DNS

Service Provider:

☒ TP-Link

☐ NO-IP

☐ DynDNS

DDNS Unavailable

To use our superior TP-LINK DDNS service, please [Log in](#) with your TP-LINK Cloud account, or choose another service provider.

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

Dynamic DNS

Service Provider:

☒ TP-Link

☐ NO-IP

☐ DynDNS

Current Domain Name:

Domain Name List

+ Register

- Delete

☐	Domain Name	Registered Date	Status	Operation	Modify
--	--	--	--	--	--

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

Dynamic DNS

Service Provider: ☐ TP-Link ☒ NO-IP ☐ DynDNS [Go to register...](#)

Username:

Password:

Domain Name:

Update Interval:

WAN IP binding: ☒ Disable ☐ Enable

[Login and Save](#) [Logout](#) ✖ 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.

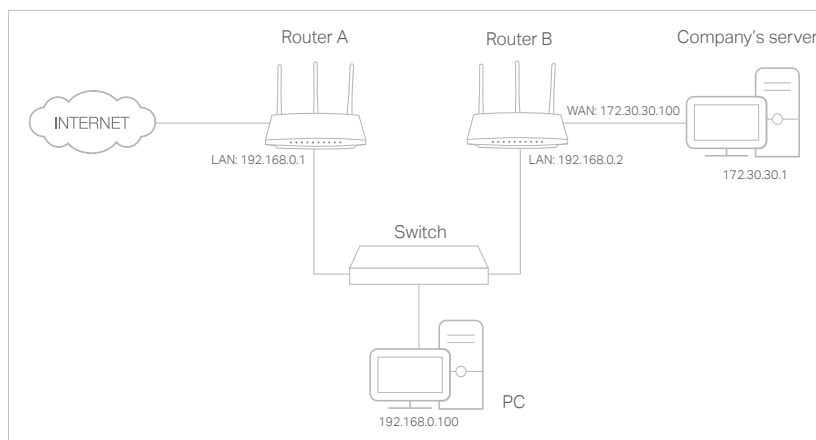
12.6. Create Static Routes

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

I want to:

Visit multiple networks and servers at the same time.

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



How can I do that?

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

Static Routing

[+ Add](#) [- Delete](#)

☐	ID	Network Destination	Subnet Mask	Default Gateway	Interface	Description	Status	Modify
☐	--	--	--	--	--	--	--	--

Network Destination:
 Subnet Mask:
 Default Gateway:
 Interface:
 Description:
☒ [Enable This Entry](#)

[Cancel](#) [OK](#)

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

Subnet Mask: Determines the destination network with the destination IP address. If the destination is a single IP address, enter 255.255.255.255; otherwise, enter the

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

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

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

Description: Enter a description for this static routing entry.

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

System Routing Table				
Active Routes Number: 1			 Refresh	
ID	Network Destination	Subnet Mask	Gateway	Interface
1	172.30.31.1	255.255.255.0	192.168.0.2	lan

Done!

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

12.7. Specify Wireless Settings

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

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

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

1. Go to **Basic > Wireless**.
2. The wireless radio is enabled by default. If you want to disable the wireless function of the router, just untick the **Enable Wireless Radio** checkbox. In this case, all the wireless settings will be invalid.

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

1. Go to **Basic > Wireless**.

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.

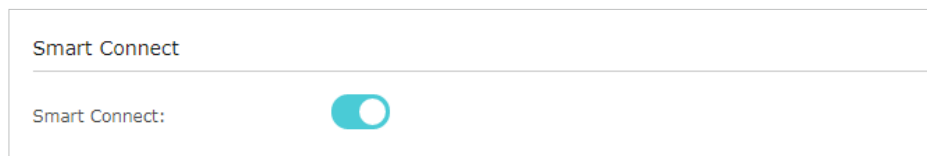
- **To hide SSID:**

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

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

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

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



3. Keep the default values or set a new SSID and password, and click [Save](#). This SSID and password will be applied for the 2.4GHz and 5GHz wireless networks.

- **To change the security option:**

1. Go to [Advanced](#) > [Wireless](#) > [Wireless Settings](#).
2. Select the wireless network [2.4GHz](#), [5GHz-1](#) or [5GHz-2](#).
3. Select an option from the [Security](#) drop-down list. We recommend you don't change the default settings unless necessary. If you select other options, configure the related parameters according to the help page.

In addition

- [Mode](#) - Select a transmission mode according to your wireless client devices. It is recommended to just leave it as default.
- [Channel Width](#) - Select a channel width (bandwidth) for the wireless network.
- [Channel](#) - Select an operating channel for the wireless network. It is recommended to leave the channel to [Auto](#), if you are not experiencing the intermittent wireless connection issue.
- [Transmit Power](#) - Select either [High](#), [Middle](#) or [Low](#) to specify the data transmit power. The default and recommended setting is [High](#).

- **To enable the Airtime Fairness feature:**

The Airtime Fairness feature can improve the overall network performance by sacrificing a little bit of network time on your slow devices. Enable Airtime Fairness when you wish to sacrifice some of the networking time from the slow devices, so that your faster devices can achieve better quality of service.

For example, you have a gaming computer next to the router in the living room, and a slower family computer upstairs. Enable the airtime fairness feature so that your gaming computer can perform as optimally as possible.

1. Go to [Advanced](#) > [Wireless](#) > [Wireless Settings](#).
2. Select the wireless network [2.4GHz](#), [5GHz-1](#) or [5GHz-2](#).
3. Check the box for [Enable Airtime Fairness](#).
4. Click [Save](#).

12.8. Use WPS for Wireless Connection

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

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

12.8.1. Push the WPS Button

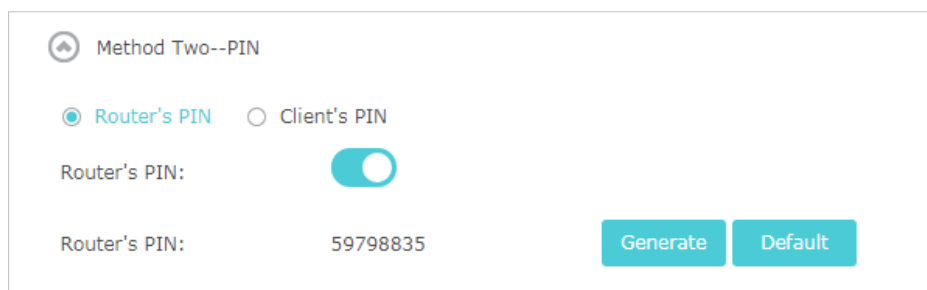
Click [Start WPS](#) on the screen. Within two minutes, press the WPS button on your device. [Success](#) will appear on the above screen and the  LED of the router should change from pulsing white to solid on, indicating successful WPS connection.

Method One--Push Button(recommended)



12.8.2. Connect via the Router's PIN

Router's PIN is enabled by default to allow wireless devices to connect to the router using the PIN. You can use the default one or generate a new one.



Method Two--PIN

☒ Router's PIN ☐ Client's PIN

Router's PIN: ☒

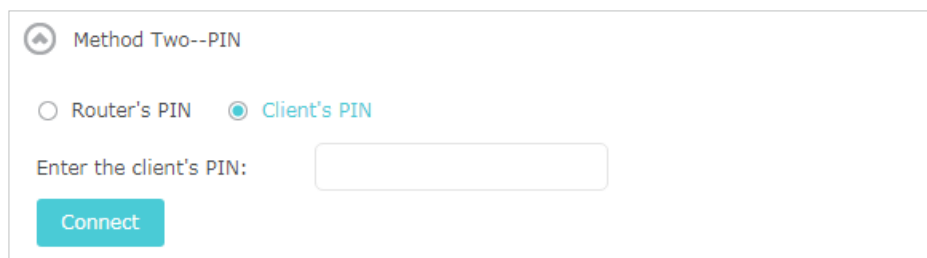
Router's PIN: 59798835 Generate Default

Note:

- If you want to enable/disable the WPS feature, go to [System Tools > System Parameters > WPS](#), tick or untick the [Enable WPS](#) checkbox.
- PIN (Personal Identification Number) is an eight-character identification number preset to each router. WPS supported devices can connect to your router with the PIN. The default PIN is printed on the label of the router.

12.8.3. Connect via the Client's PIN

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



Method Two--PIN

☐ Router's PIN ☒ Client's PIN

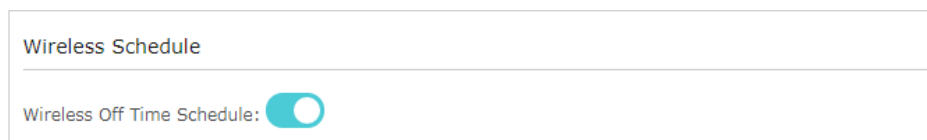
Enter the client's PIN:

Connect

12.9. 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 Off Time Schedule](#) feature.



Wireless Schedule

Wireless Off Time Schedule: ☒

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

Wireless Off Time

+ Add

- Delete

☐	ID	Wireless Off Time	Repeat	Modify
☐	--	--	--	--

Wireless Off Time:

From:

-Please Select-

To:

-Please Select-

Repeat:

☒ Every Day
 ☐ Selected Day

Note: The latest rule of repetition days is applied to all time entries

Cancel

Save

Note:

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

Chapter 13

Manage the Router

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

It contains the following sections:

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

13.1. Set Up System Time

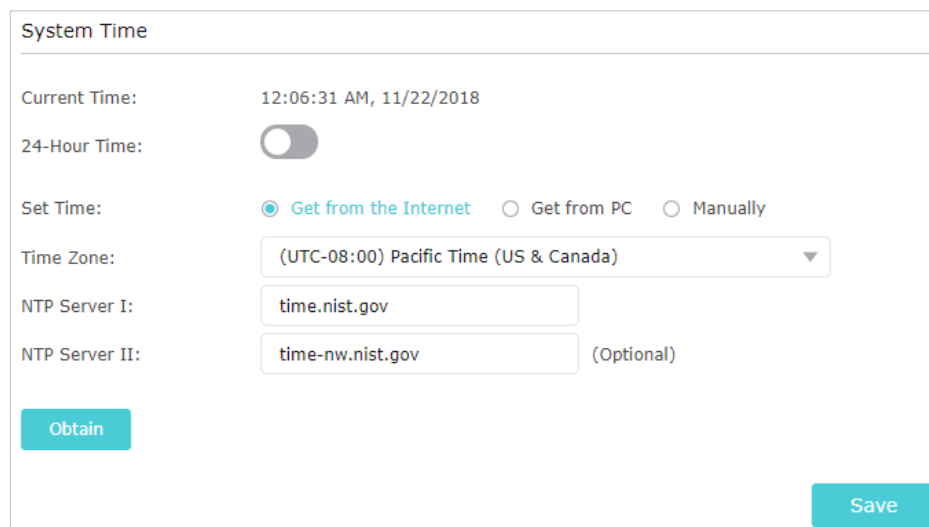
System time is the time displayed while the router is running. The system time you configure here will be used for other time-based functions like Parental Controls. You can choose the way to obtain the system time as needed.

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

2. Go to [Advanced](#) > [System Tools](#) > [Time Settings](#).

- **To get time from the internet:**

1. In the [Set Time](#) field, select [Get from the Internet](#).



The screenshot shows the 'System Time' configuration page. At the top, it displays the 'Current Time' as 12:06:31 AM, 11/22/2018. Below this is a '24-Hour Time' toggle switch, which is currently turned off. The 'Set Time' section has three radio button options: 'Get from the Internet' (selected), 'Get from PC', and 'Manually'. The 'Time Zone' is set to '(UTC-08:00) Pacific Time (US & Canada)' via a dropdown menu. The 'NTP Server I' field contains 'time.nist.gov'. The 'NTP Server II' field contains 'time-nw.nist.gov' with a note '(Optional)' next to it. At the bottom left is an 'Obtain' button, and at the bottom right is a 'Save' button.

2. Select your local [Time Zone](#) from the drop-down list.

3. In the [NTP Server I](#) field, enter the IP address or domain name of your desired NTP Server.

4. (Optional) In the [NTP Server II](#) field, enter the IP address or domain name of the second NTP Server.

5. Click [Obtain](#) to get the current Internet time and click [Save](#).

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

1. In the [Set Time](#) field, select [Get from PC](#).

System Time

Current Time: 12:08:29 AM, 11/22/2018

24-Hour Time: ☐

Set Time: ☐ Get from the Internet ☒ Get from PC ☐ Manually

PC Time: 9:48:22 AM, 02/25/2019

Save

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

Current Time: 12:09:54 AM, 11/22/2018

24-Hour Time: ☐

Set Time: ☐ Get from the Internet ☐ Get from PC ☒ Manually

Date: (MM/DD/YYYY)

Time: : : (HH/MM/SS)

Save

2. Set the current [Date](#) (In [MM/DD/YYYY](#) format).

3. Set the current [Time](#) (In [HH/MM/SS](#) format).

4. Click [Save](#).

- **To set up Daylight Saving Time:**

1. Select [Enable Daylight Saving Time](#).

Daylight Saving Time

☒ [Enable Daylight Saving Time](#)

Start: 2019

End: 2019

Running Status:

Save

2. Select the correct [Start](#) date and time when daylight saving time starts at your local time zone.
3. Select the correct [End](#) date and time when daylight saving time ends at your local time zone.
4. Click [Save](#).

13.2. 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 Tools](#) > [LED Control](#).
3. Enable [Night Mode](#).
4. Specify a time period in the [LED Off Time](#) filed, and the LED will be off during this period every day.
5. Click [Save](#).

LED Control

LED Status: ☒

Night Mode

Note: Before enabling Night Mode, please make sure the [System Time](#) is correct.

Current Time: 12:15:26 AM, 11/22/2018

Night Mode: ☒ [Enable](#)
(everyday)

LED Off Time: From: 10:00 PM To: 06:00 AM next day

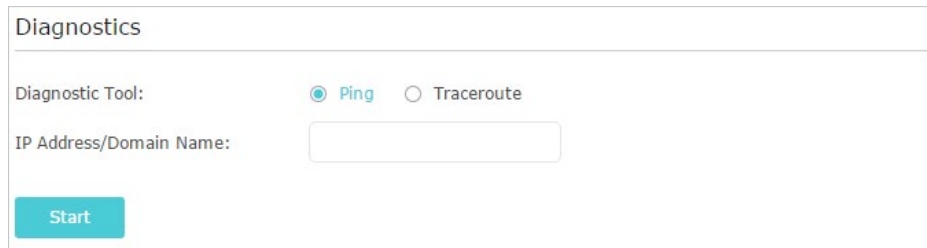
[Save](#)

Note: Before enabling [Night Mode](#), please make sure the [System Time](#) is correct by going to [Advanced](#) > [System Tools](#) > [Time Settings](#).

13.3. 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 Tools](#) > [Diagnostics](#).



3. Enter the information with the help of page tips:
 - 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.
4. Click [Start](#) to begin the diagnostics.

💡 **Tips:** Click [Advanced](#), you can modify the ping count, ping packet size or the Traceroute Max TTL. It's recommended to keep the default value.

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

```
PING www.Yahoo.com (116.214.12.74): 64 data bytes
Reply from 116.214.12.74: bytes=64 ttl=50 seq=1 time=51.640 ms
Reply from 116.214.12.74: bytes=64 ttl=50 seq=2 time=53.671 ms
Reply from 116.214.12.74: bytes=64 ttl=50 seq=3 time=56.045 ms
Reply from 116.214.12.74: bytes=64 ttl=50 seq=4 time=57.857 ms

--- Ping Statistic "www.Yahoo.com" ---
Packets: Sent=4, Received=4, Lost=0 (0.00% loss)
Round-trip min/avg/max = 51.640/54.803/57.857 ms
```

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

```

tracert to www.Yahoo.com (116.214.12.74), 20 hops max, 38 byte packets
 1 219.133.12.1 (219.133.12.1) 19.556 ms 22.274 ms 22.024 ms
 2 113.106.38.77 (113.106.38.77) 30.115 ms 22.649 ms 20.931 ms
 3 * * *
 4 183.56.65.14 (183.56.65.14) 26.210 ms 29.428 ms 28.272 ms
 5 * 202.97.60.25 (202.97.60.25) 29.272 ms 25.461 ms
 6 202.97.60.46 (202.97.60.46) 27.335 ms 27.616 ms 28.272 ms
 7 202.97.60.149 (202.97.60.149) 22.805 ms 24.024 ms 24.711 ms
 8 202.97.6.30 (202.97.6.30) 47.610 ms 54.452 ms 61.137 ms
 9 r4105-s2.tp.hinet.net (220.128.6.110) 51.171 ms 50.515 ms 56.107 ms
10 220.128.11.190 (220.128.11.190) 60.950 ms 60.200 ms 60.419 ms

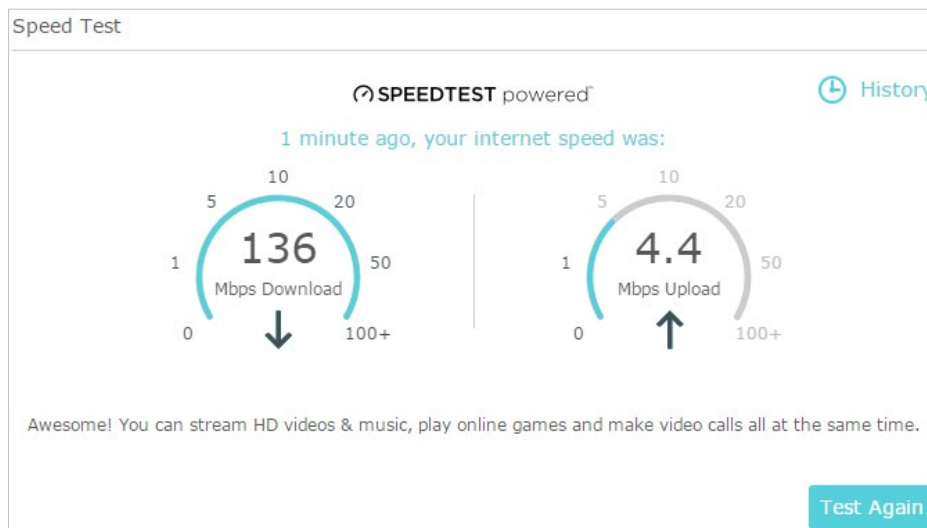
```

13.4. Test Your Internet Speed

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

- **To test your internet speed:**

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Basic > Network Map** and click  **Speed Test**.
3. If it is the first time you run a test, the router will start the test automatically. Otherwise, click **Test Again**.



- **Note:**

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

- **To view history of internet speeds:**

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

2. Go to **Basic > Network Map** and click  **Speed Test**.
3. Click  **History** to view a record of previous test results.

Speed Test History				 Clear All
06/06/2017 11:37AM		↓ 136Mbps	↑ 4.4Mbps	
02/02/2017 08:11AM		↓ 136.5Mbps	↑ 4.3Mbps	
02/02/2017 08:11AM		↓ 132.5Mbps	↑ 4.5Mbps	

13.5. Upgrade the Firmware

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

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

Note:

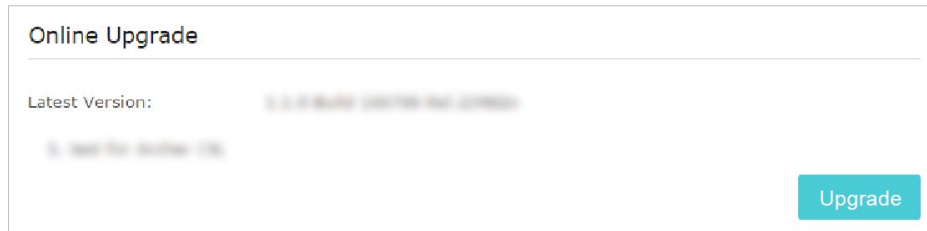
- Make sure you remove all attached USB devices from the router before the firmware upgrade to prevent data loss.
- Backup your router configuration before firmware upgrade.
- Do NOT turn off the router during the firmware upgrade.

13.5.1. Online Upgrade

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. When the latest firmware is available for your router, the update icon  will display in the top-right corner of the page. Click the icon to go to the [Firmware Upgrade](#) page. Alternatively, you can go to **Advanced > System Tools > Firmware Upgrade**, and click [Check for upgrade](#) to see whether the latest firmware is released.

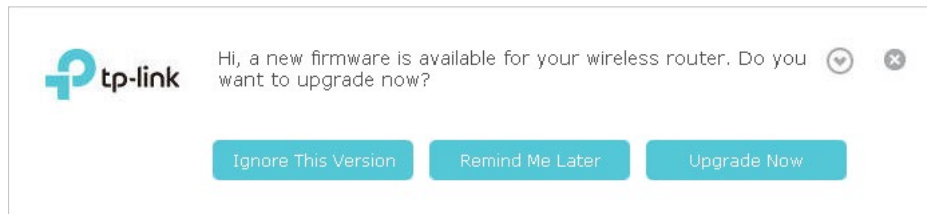
Online Upgrade	
Latest Version:	3.0.0 Build 20160624 16:38:14
Check for upgrade	

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



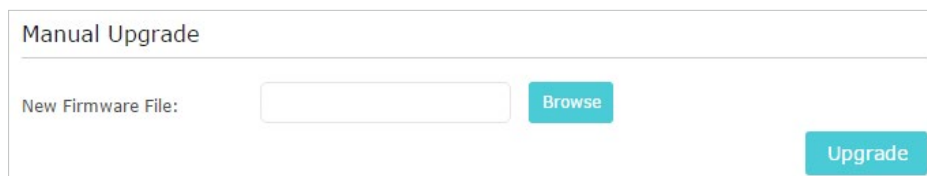
4. Wait a few minutes for the upgrade and reboot to complete.

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



13.5.2. Manual Upgrade

1. Download the latest firmware file for the router from www.tp-link.com.
2. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
3. Go to [Advanced](#) > [System Tools](#) > [Firmware Upgrade](#).
4. Focus on the Device Information section. Make sure the downloaded firmware file is matched with the [Hardware Version](#).
5. Focus on the [Manual Upgrade](#) section. Click [Browse](#) to locate the downloaded new firmware file, and click [Upgrade](#).



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

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

13.6. 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

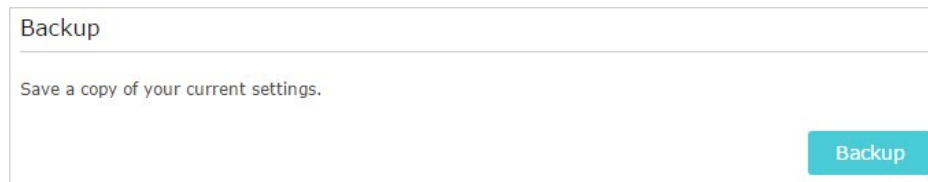
a previous settings from the backup file when needed. Moreover, if necessary you can erase the current settings and reset the router to the default factory settings.

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:**

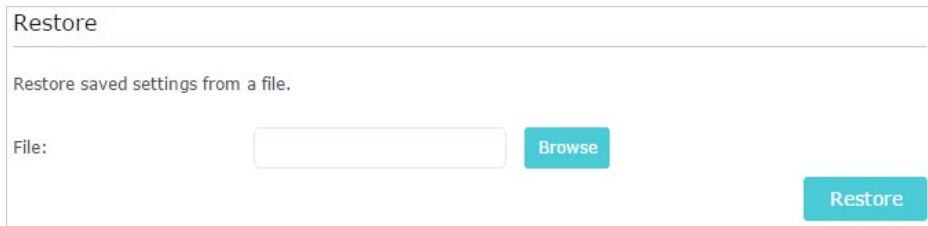
Click [Backup](#) to save a copy of the current settings to your local computer. A '.bin' file of the current settings will be stored to your computer.



The screenshot shows a web interface titled "Backup". Below the title is a horizontal line. Underneath, the text "Save a copy of your current settings." is displayed. In the bottom right corner, there is a teal button labeled "Backup".

- **To restore configuration settings:**

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



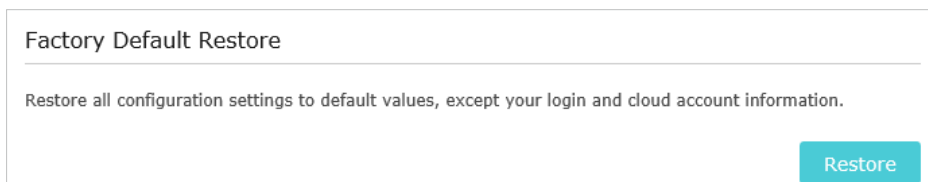
The screenshot shows a web interface titled "Restore". Below the title is a horizontal line. Underneath, the text "Restore saved settings from a file." is displayed. Below this text, there is a label "File:" followed by a text input field and a teal button labeled "Browse". In the bottom right corner, there is a teal button labeled "Restore".

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

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

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

1. Click [Restore](#) under the [Factory Default Restore](#) session.



The screenshot shows a web interface titled "Factory Default Restore". Below the title is a horizontal line. Underneath, the text "Restore all configuration settings to default values, except your login and cloud account information." is displayed. In the bottom right corner, there is a teal button labeled "Restore".

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

📌 **Note:**

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

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

1. Click [Factory Restore](#) to reset the router.

Factory Default Restore

Revert all the configuration settings to their default values.

Factory Restore

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

Note:

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

13.7. 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 Tools](#) > [Reboot Schedule](#).
3. Check the box to enable [Reboot Schedule](#).

Reboot Schedule

Note: Before enabling Reboot Schedule, please make sure the [System Time](#) is correct.

Current Time: 3:50:02 PM, 08/17/2017

Reboot Schedule: ☒ Enable

Reboot Time: 03:00 AM

Repeat: Every Week Monday

Save

Note: Before enabling [Reboot Schedule](#), please make sure the [System Time](#) is correct by going to [Advanced](#) > [System Tools](#) > [Time Settings](#).

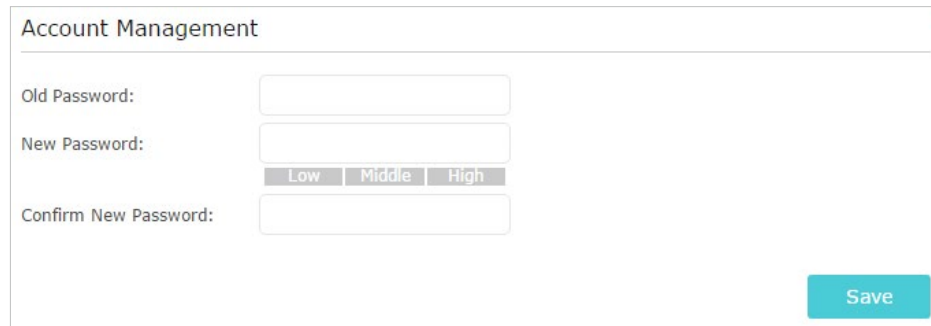
4. Specify the [Reboot Time](#) when the router reboots and [Repeat](#) to decide how often it reboots.
5. Click [Save](#).

13.8. 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 [Basic](#) > [TP-Link Cloud](#).

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

The screenshot shows the 'Account Management' section of a web interface. It contains three input fields: 'Old Password:', 'New Password:', and 'Confirm New Password:'. The 'New Password:' field has a strength indicator below it with three segments labeled 'Low', 'Middle', and 'High'. A 'Save' button is located at the bottom right of the form.

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

13.9. Default Password Recovery

This feature allows you to recover the login password without restoring router.

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

1. Visit <http://tplinkwifi.net>, and log in with the password you set for the router.
2. Go to [Advanced](#) > [System Tools](#) > [Administration](#) and focus on the [Default Password Recovery](#) section.
3. Tick the [Enable Password Recovery](#) checkbox.
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, select [Enable 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. You can refer to their Help page to learn the SMTP server address.
- Generally, Enable Authentication should be selected if the login of the mailbox requires username and password.

Default Password Recovery

☒ Enable Default Password Recovery

From:

To:

SMTP Server:

☒ Enable Authentication

Username:

Password:

Test Email Save

5. Click [Save](#).

You can click [Test Email](#) to test whether the configuration is successful.

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

13. 10. 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 Tools](#) > [Administration](#) and complete the settings in [Local Management](#) section as needed.

- **Allow Local Management via both HTTPS and HTTP:**

Toggle on [Local Management via HTTPS](#).

Local Management

Local Management via HTTPS: ☒

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

Toggle on [Access for All LAN Connected Devices](#).

Local Management

Local Management via HTTPS: ☐

Access for All LAN Connected Devices: ☒

Toggle On to enable the management for all devices on LAN or toggle off to enable the management for specific devices.

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

1. Toggle off [Access for All LAN Connected Devices](#).
2. Click [Add](#).

Access for All LAN Connected Devices: ☐ Toggle On to enable the management for all devices on LAN or toggle off to enable the management for specific devices.

[+ Add](#) [- Delete](#)

☐	ID	MAC Address	Description	Status	Modify
☐	1	FC-80-3E-2B-1A-0C	Your PC!		

3. Click [Scan](#) and select the device to manage the router from the Existing Devices list, or enter the MAC address of the device manually.
4. Specify a [Description](#) for this entry.
5. Tick the [Enable This Entry](#) checkbox and click [OK](#).

13. 11. 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 Tools](#) > [Administration](#) and complete the settings in [Remote Management](#) section as needed.

Remote Management

Remote Management: ☒ [Enable](#)

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

HTTPS Port:

HTTP Port:

Remote Managers: [All Devices](#) ▼

[Save](#)

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

Select [Disable Remote Management](#) and click [Save](#).

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

1. Select [Enable Remote Management](#).

2. Use the default value [HTTPS Port: 443](#) and [HTTP Port: 80](#) or enter values between 1024 and 65535.
3. Select [All Devices](#) in [Remote Managers](#).
4. Click [Save](#).

- **Allow Specified device to manage the router remotely:**

1. Select [Enable Remote Management](#).
2. Use the default value [HTTPS Port: 443](#) and [HTTP Port: 80](#) or enter values between 1024 and 65535.
3. Select [Specified Devices](#) in [Remote Managers](#).
4. Enter IP address of the device in [Only this IP address](#).
5. Click [Save](#).

Devices on the internet can log in to [https://Router's WAN IP address: HTTPS port number](#) (such as [http://113.116.60.229:1024](#)) or [http://Router's WAN IP address: HTTP port number](#) to manage the router.

 Tips:

- You can find the WAN IP address of the router on [Basic > Network Maps > 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.

13. 12. 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 Tools > System Log](#).
3. Choose the type and level of the system logs as needed.
4. Click [Save Log](#) to save the system logs to a local disk.

System Log

Log Filter:
Type=
ALL
and Level=
ALL

Refresh
Delete All

ID	Time	Type	Level	Log Content
1	2016-06-24 04:28:31	Local Management	NOTICE	[19000] Accessable mode change: Devices in the list.
2	2016-06-24 04:25:12	Locale	INFO	[16605] Language is changed to 'en_US'
3	2016-06-24 04:25:12	Locale	DEBUG	[16605] Explorer language is 'zh_CN'
4	2016-06-24 04:25:02	Locale	INFO	[16435] Language is changed to 'en_US'
5	2016-06-24 04:25:02	Locale	DEBUG	[16435] Explorer language is 'zh_CN'
6	2016-06-24 04:24:58	Locale	INFO	[16283] Language is changed to 'en_US'
7	2016-06-24 04:24:58	Locale	DEBUG	[16283] Explorer language is 'zh_CN'

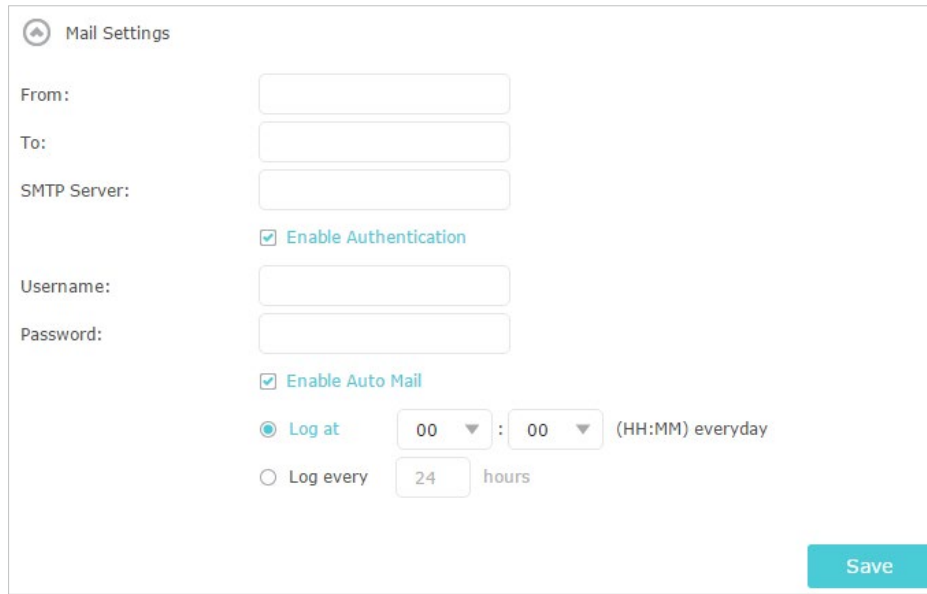
Mail Settings

Mail Log
Save Log

- 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. Click [Mail Settings](#).
4. Enter the information required:

The image shows a 'Mail Settings' configuration page. It includes input fields for 'From:', 'To:', 'SMTP Server:', 'Username:', and 'Password:'. There are two checked checkboxes: 'Enable Authentication' and 'Enable Auto Mail'. Under 'Enable Auto Mail', there are two options: 'Log at' (selected) and 'Log every'. The 'Log at' option has a time selector set to '00 : 00 (HH:MM) everyday'. The 'Log every' option has a time selector set to '24 hours'. A 'Save' button is located at the bottom right.

- 1) **From:** Enter the email address used for sending the system log.
- 2) **To:** Enter the recipient's email address, which can be the same as or different from the sender's email address.
- 3) **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. You can refer to their Help page to learn the SMTP server address.

- 4) Select **Enable Authentication**.

ⓘ **Tips:** Generally, Enable Authentication should be selected if the login of the mailbox requires username and password.

- 5) **Username:** Enter the email address used for sending the system log.
- 6) **Password:** Enter the password to login the sender's email address.
- 7) Select **Enable Auto Mail**.

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

- 8) Set a fixed time. The recipient will receive the system log sent at this time every day.

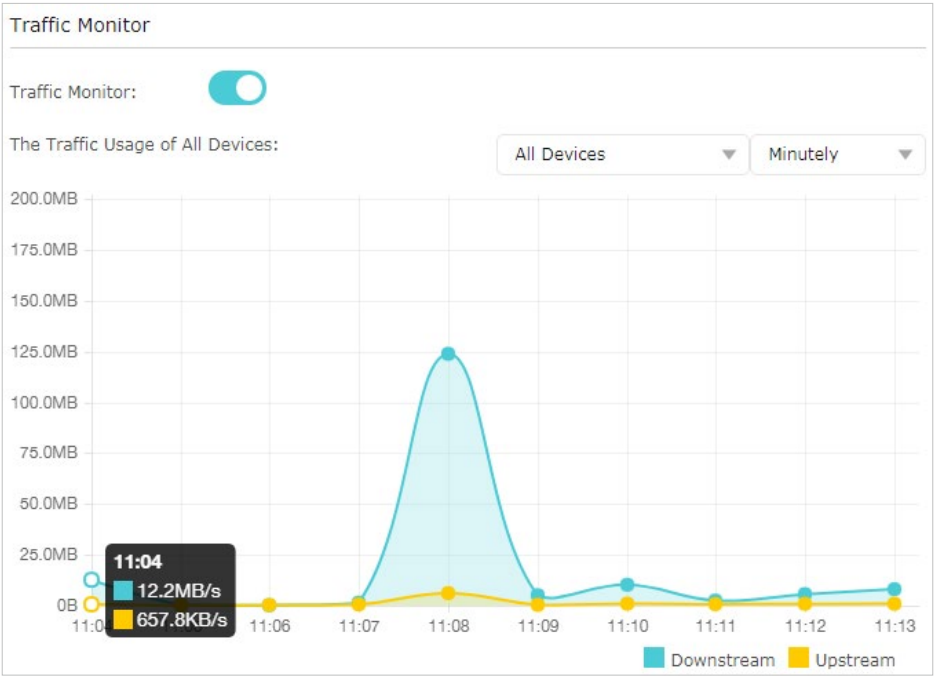
5. Click **Save**.

13. 13. Monitor the Internet Traffic Statistics

The Traffic Statistics page displays the network traffic of the LAN, WAN and WLAN sent and received packets, allowing you to monitor the volume of internet traffic statistics.

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 > Traffic Monitor**.

3. Toggle on [Traffic Monitor](#), and then you can monitor the traffic usage of all the connected devices or a single device.



4. Check the total traffic statistics of each device on [Traffic Monitor List](#).

Traffic Monitor List

[Refresh](#) [Reset All](#)

	Device Name	MAC Address	Real-Time Rate	Traffic Usage
--	--	--	--	--

Click [Refresh](#) to update the statistic information on the page.
Click [Reset All](#) to reset all statistic values in the list to zero.

13. 14. System Parameters

13. 14. 1. 2.4GHz/5GHz Wireless

You can configure the parameters of traffic transmission rules in wireless networks. It's recommended to keep the default settings if you are not sure of the proper ones in the case.

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 Parameters](#). Focus on [2.4GHz/5GHz Wireless](#) section.

2.4GHz Wireless

Beacon Interval:

100

(40-1000)

RTS Threshold:

2346

(1-2346)

DTIM Interval:

1

(1-15)

Group Key Update Period:

0

seconds

WMM Feature:

☒ Enable WMM

Short GI Feature:

☒ Enable Short GI

AP Isolation Feature:

☐ Enable AP Isolation

Save

- **Bacon Interval** - Enter a value between 40 and 1000 to determine the duration between beacon packets that are broadcasted by the router to synchronize the wireless network. The default is 100 milliseconds.
- **RTS Threshold** – Enter a value between 1 and 2346 to determine the packet size of data transmission through the router. The default size is 2346. If the packet size is greater than the preset threshold, the router sends Request of Send frames to a particular receiving station and negotiates the sending of a data frame, or else the packet will be sent immediately.
- **DTIM Interval** - Enter a value between 1 and 15 to determine the interval of DTIM (Delivery Traffic Indication Message). The default interval is 1, indicating the DTIM interval is the same as Beacon Interval.
- **Group Key Update Period** - Enter the number of seconds between 30 and 86400, or use the default value 0 that indicates no key interval to control the time interval for the encryption key automatic renewal.
- **WMM Feature** - It is enabled by default and highly recommended, for the WMM function guarantees the packets with high-priority messages being transmitted preferentially.
- **Short GI Feature** - It is enabled by default and highly recommended, for it will increase the packet capacity by reducing the GI (Guard Interval) time.
- **AP Isolation Feature** - If you want to confine and restrict all wireless devices connected to the network from interacting with each other, but still able to access the internet, enable AP Isolation feature.

13. 14. 2. 2.4GHz/5GHz WDS

WDS (Wireless Distribution System) Bridging feature allows you to extend the wireless network coverage by bridging with an AP (access point) in local network. The access point should also support WDS Bridging feature.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > System Tools > System Parameters**. Focus on **2.4GHz/5GHz WDS** section.

- **To bridge a network by Survey feature:**

1. Enable the WDS Bridging feature.

2.4GHz WDS

WDS Bridging: ☒ Enable WDS Bridging

SSID (to be bridged): **Survey**

MAC Address (to be bridged): Example: 00-1D-0F-11-22-33

Security: ☒ No Security ☐ WPA-PSK/WPA2-PSK ☐ WEP

Save

2. Click **Survey** to scan all available networks and select the network you want to bridge. The SSID (network name) and MAC Address will be automatically populated. You can also manually fill in these parameters.
3. Select a **Security** type and enter related parameters, which should be the same as the network to be bridged.
4. Click **Save**.

Note: You need to enable and configure the WDS Bridging feature for the access point as well.

- **To bridge a network manually:**

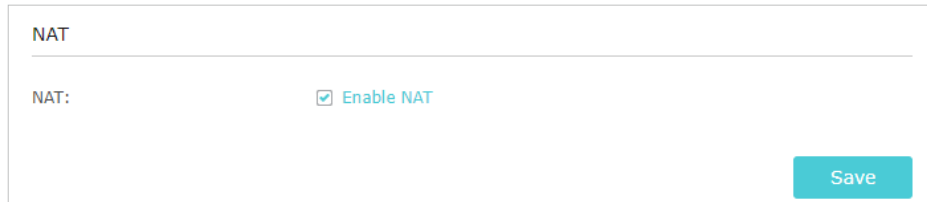
1. Enable the WDS Bridging feature.
2. Enter the SSID (network name) and MAC Address of the network to be bridged .
3. Select a **Security** type and enter related parameters, which should be the same as the network to be bridged.
4. Click **Save**.

13. 14. 3. NAT

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

1. 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 Parameters](#). Focus on [NAT](#) section.



NAT

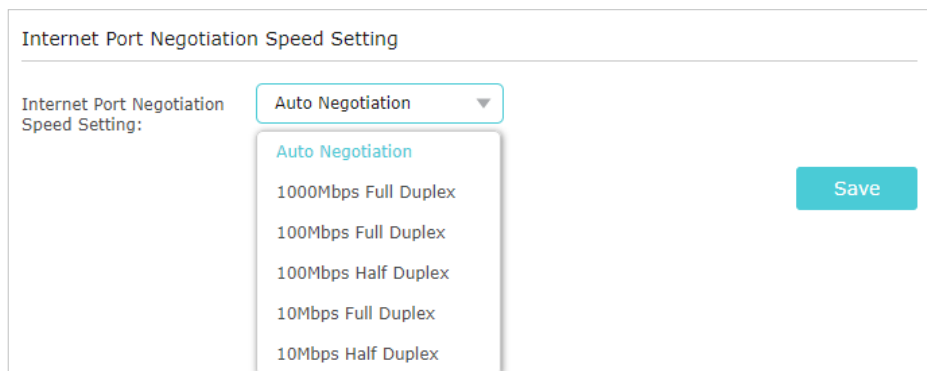
NAT: ☒ Enable NAT

Save

3. NAT feature is enabled by default and it's highly recommended. If you disable it, you may have no access to the internet and NAT Forwarding will not take effect.

13. 14. 4. Internet Port Negotiation Speed Setting

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 Parameters](#). Focus on [Internet Port Negotiation Speed Setting](#) section.



Internet Port Negotiation Speed Setting

Internet Port Negotiation Speed Setting: Auto Negotiation

Auto Negotiation

1000Mbps Full Duplex

100Mbps Full Duplex

100Mbps Half Duplex

10Mbps Full Duplex

10Mbps Half Duplex

Save

3. Select the duplex type from the drop-down list and click [Save](#).

Chapter 14

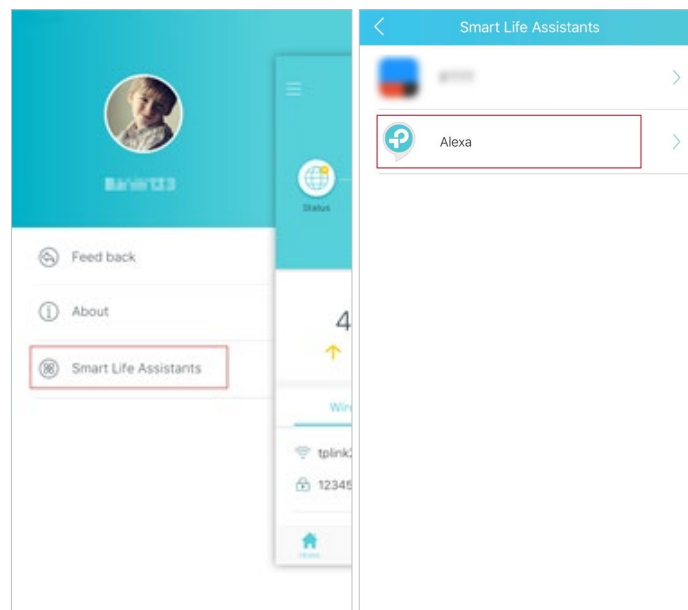
Work with Alexa

This chapter will show you how to configure your router to work with Alexa.

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

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

Or download **TP-Link Tether** app, open it and tap the  icon, then select **Smart Life Assistants** to complete the setup.



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 [Basic](#) > [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 Default Password Recovery feature of the router, click [Forgot password](#) on the login page and then follow the instructions to reset it.
- Alternatively, press and hold the [Reset](#) button of the router until the Power LED binks to reset it, and then visit <http://tplinkwifi.net> to create a new login password.

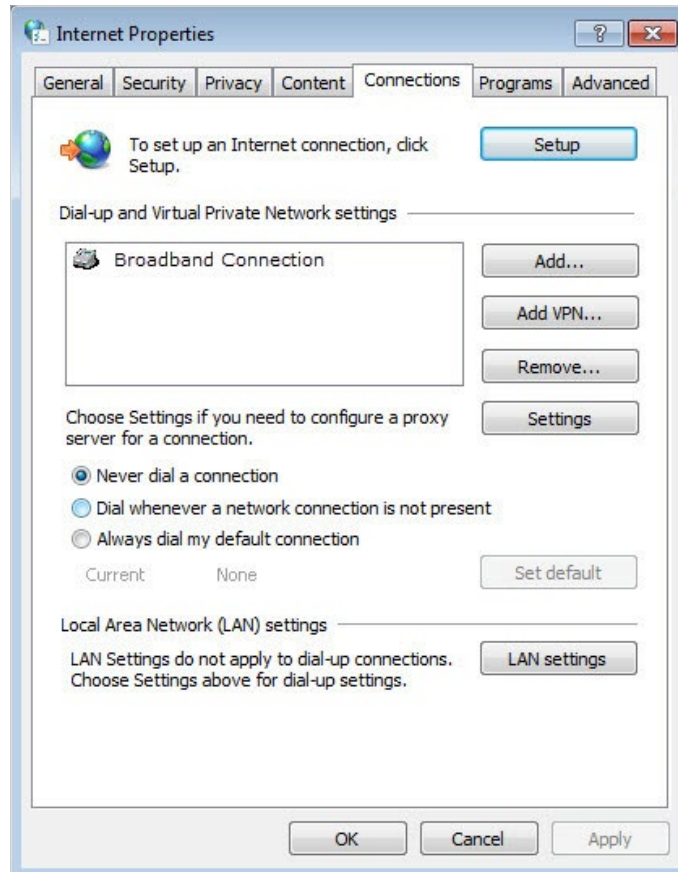
Note:

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

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

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

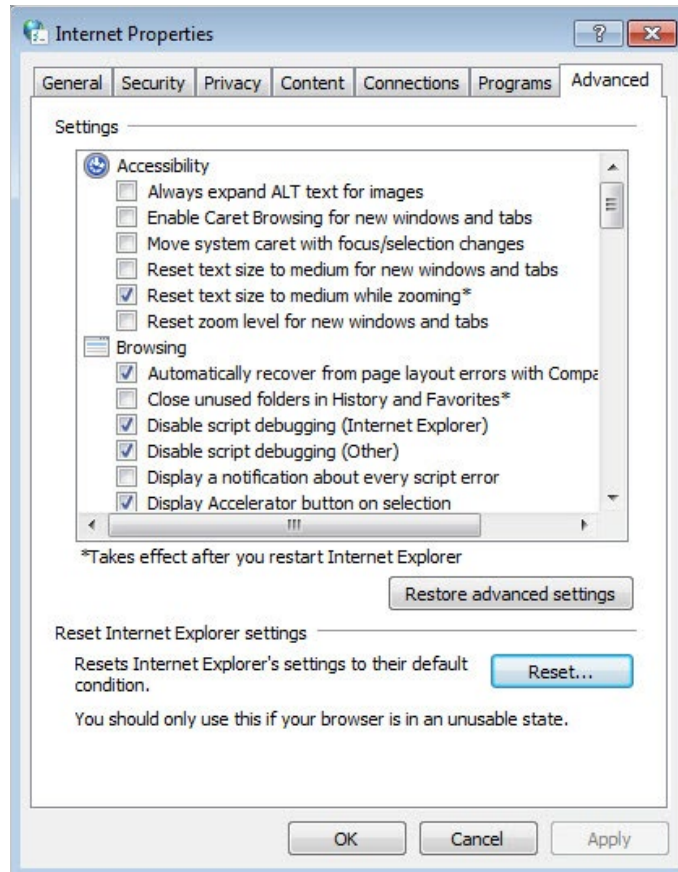
- Make sure your computer is connected to the router correctly and the corresponding LED indicator(s) light up.
- Make sure the IP address of your computer is configured as [Obtain an IP address automatically](#) and [Obtain DNS server address automatically](#).
- Make sure <http://tplinkwifi.net> or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



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



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



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

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

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

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

As the follow picture shows, if IP Address is a valid one, please try the methods below and try again:

Internet ✕ IPv4 | IPv6

MAC Address:	50-C7-BF-02-EA-DD
IP Address:	58.61.172.101
Subnet Mask:	255.255.255.255
Default Gateway:	58.61.172.1
Primary DNS:	202.96.134.33
Secondary DNS:	202.96.128.86
Connection Type:	PPPoE

- 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.

Settings

DHCP Server: ☒ [Enable DHCP Server](#)

IP Address Pool: -

Address Lease Time: minutes. (1-2880. The default value is 120.)

Default Gateway: (Optional)

Primary DNS: (Optional)

Secondary DNS: (Optional)

[Save](#)

- Restart the modem and the router.
 - 1) Power off your modem and router, and leave them off for 1 minute.
 - 2) Power on your modem first, and wait about 2 minutes until it 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.

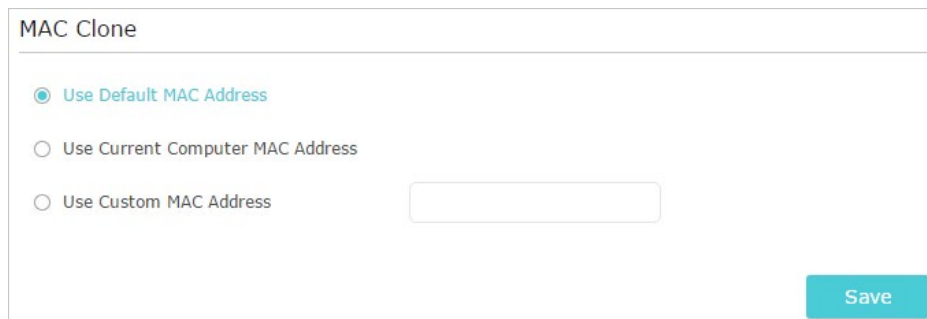
- Upgrade the firmware of the router.
- Check the TCP/IP settings on the particular device if all other devices can get internet from the router.

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



Internet	
MAC Address:	50-C7-BF-02-EA-DD
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
Connection Type:	PPPoE

- 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 [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

☒ Use Default MAC Address
☐ Use Current Computer MAC Address
☐ Use Custom MAC Address

Save

 Tips:

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

- Modify the LAN IP address of the router.

Note:

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

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



LAN

MAC Address: 50-C7-BF-02-EA-DC

IP Address:

Subnet Mask:

[Save](#)

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

IPv4

Internet Connection Type: Dynamic IP

Static IP

Dynamic IP

PPPoE

BigPond Cable

L2TP

PPTP

IP Address:

Subnet Mask:

Default Gateway:

Primary DNS:

Secondary DNS: 0.0.0.0

Renew Release

WAN port is unplugged.

Advanced

Save

6) Restart the modem and the router again.

- Please upgrade the firmware of the router.

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

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

Wireless Settings 2.4GHz | 5GHz-1 | 5GHz-2

☒ Enable Wireless Radio

Network Name (SSID): ☐ Hide SSID

Security:

Version: ☒ Auto ☐ WPA-PSK ☐ WPA2-PSK

Encryption: ☒ Auto ☐ TKIP ☐ AES

Password:

Mode:

Channel Width:

Channel:

Transmit Power: ☐ Low ☐ Middle ☒ High

Airtime Fairness Feature: ☐ Enable Airtime Fairness

[Save](#)

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

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



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

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

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

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

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FCC compliance information statement



Product Name: AC4000 MU-MIMO Tri-Band Wi-Fi Router

Model Number: Archer A20

Component Name	Model
I.T.E. Power Supply	S050FU1200400

Responsible party:

TP-Link USA Corporation, d/b/a TP-Link North America, Inc.

Address: 145 South State College Blvd. Suite 400, Brea, CA 92821

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

Tel: +1 626 333 0234

Fax: +1 909 527 6803

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

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

Issue Date: 2019-11-25

FCC compliance information statement



Product Name: I.T.E. Power Supply

Model Number: S050FU1200400

Responsible party:

TP-Link USA Corporation, d/b/a TP-Link North America, Inc.

Address: 145 South State College Blvd. Suite 400, Brea, CA 92821

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

Tel: +1 626 333 0234

Fax: +1 909 527 6803

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.
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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: 2019-11-25

Safety Information

- Keep the device away from water, fire, humidity or hot environments.
- Do not attempt to disassemble, repair, or modify the device.
- 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.

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

Explanations of the symbols on the product label

Symbol	Explanation
	DC voltage
	Indoor use only
	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.