



User Guide

AC3150 Wireless MU-MIMO Gigabit Router
Archer C3150

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About This Guide

This guide is a complement to 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 of the router may vary slightly depending on the model and software version you have, and on your location, language, and Internet service provider. All screenshots, images, parameters and descriptions documented in this guide are used for demonstration only.

Conventions

In this guide, the following conventions are used:

Convention	Description
<u>Teal Underlined</u>	Hyperlinks are teal underlined. 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	<ul style="list-style-type: none">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 firmware and management app can be found at [Download Center](http://www.tp-link.com/support) at <http://www.tp-link.com/support>.
- The Quick Installation Guide (QIG) can be found where you find this guide or inside the package of the router.
- Specifications can be found on the product page at <http://www.tp-link.com>.
- A Technical Support Forum is provided for you to discuss our products at <http://forum.tp-link.com>.
- Our Technical Support contact information can be found at the [Contact Technical Support](http://www.tp-link.com/support) page at <http://www.tp-link.com/support>.

Chapter 1

Get to Know Your Router

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

This chapter contains the following sections:

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

1.1. Product Overview

➤ **What This Product Does**

TP-LINK's AC3150 Wireless MU-MIMO Gigabit Router integrates 4-port Switch, Firewall, NAT-router and Wireless AP. Powered by 4x4 MIMO technology, this router delivers exceptional range and speed, which can fully meet the need of office/home networks and the users demanding higher networking performance. Your wireless connections are radio band selectable to avoid interference in your area, and the four built-in Gigabit ports supply high-speed connection to your wired devices.

➤ **Making Incredible Speed a Reality**

With combined speeds of up to 3150Mbps, the Archer C3150 easily handles demanding activities at the same time. The router uses the latest innovations in Wi-Fi technology to create a faster, stronger, more reliable wireless network for your home. With the Archer C3150, lag, dropped connections, and dead zones will become a thing of the past.

➤ **NitroQAM and 4-Stream for Maximum Wi-Fi Speed**

The Archer C3150 boasts a powerful combination of advanced Broadcom® NitroQAM™ technology and 4-Stream technology, which boosts wireless speeds up by 25%. This provides the speed and elite performance that you need to support your most demanding online applications, including simultaneous 4K streaming and online gaming.

➤ **More Connections and More Speed for Everyone**

The Archer C3150 does more than just create faster Wi-Fi, it helps your devices achieve optimal performance by making communication more efficient. With MU-MIMO technology, the Archer C3150 can provide four simultaneous data streams, allowing all connected devices to achieve speeds up to 4X faster than standard AC routers.

Moreover, dynamic Smart Connect technology automatically selects the best available band for each device.

➤ **Extraordinary Home Entertainment**

Archer C3150 can support many devices when you invite friends to your large house to entertain. It can maintain multiple simultaneous HD streaming, online gaming and other content consumption without lag. The Archer C3150 can provide a maximized coverage and enable your devices to stay covered, near or far as it. Don't let your mobile lifestyle stop the streaming and enjoy your home party.

➤ **The Power at the Heart of Your Router**

Unlike normal routers, which usually have single core processors, the Archer C3150 features a powerful 1.4GHz dual core processor.

This unlocks the full potential of MU-MIMO and 4-Stream technologies, helping your dual band router maximize its performance potential.

➤ **Coverage for Your Entire Home**

Four high-performance dual band antennas and high-powered amplifiers help create a strong, far-reaching network for your home. Beamforming technology focuses the Wi-Fi transmission in the direction of your connected devices, concentrating the signal where you need it the most. This allows you to enjoy fast, stable Wi-Fi in every part of your home, as well as on the patio, by the pool, and even in the yard.

➤ **A Router You Can Show Off**

An elegant, minimalist design allows the Archer C3150 to be integrated seamlessly into the decor of any room. The LED indicators can be switched off to prevent distraction at night when placed in bedrooms or common spaces.

➤ **Plug Into Sharing, Plug Into Stability**

You can quickly and easily share photos, music, and other files with family and friends. Just connect an external hard drive to the Archer C3150's USB 3.0 port or USB 2.0 port and immediately start enjoying lightning-fast transfers. To help your wired devices reach peak performance for smooth gaming and streaming, you can also create fast, stable wired connections using the four Gigabit Ethernet ports, which transfer data at speeds up to 10x higher than standard Ethernet ports.

➤ **Easy Setup and Use**

Whether you prefer the powerful Tether App or the intuitive web interface, you can set up your Archer C3150 in minutes. The Tether App allows you to manage network settings, including parental controls and media sharing preferences, from any Android or iOS device.

1.2. Main Features

- Complies with IEEE 802.11ac.
- One 10/100/1000M Auto-Negotiation RJ45 Internet port, four 10/100/1000M Auto-Negotiation RJ45 Ethernet ports, supporting Auto MDI/MDIX.
- Provides a USB 3.0 port and a USB 2.0 port supporting file sharing and print server.
- Provides WPA/WPA2, WPA-PSK/WPA2-PSK authentication, TKIP/AES encryption security.
- Shares data and Internet access for users, supporting Dynamic IP/Static IP/PPPoE/PPTP/ L2TP Internet access.
- Supports simultaneous 2.4GHz and 5GHz connections for 3165Mbps of total available bandwidth.

- Supports Virtual Server, Special Application and DMZ host.
- Supports UPnP, Dynamic DNS, Static Routing.
- Provides Automatic-connection and Scheduled Connection on certain time to the Internet.
- Built-in NAT and DHCP server supporting static IP address distributing.
- Supports Parental Controls and Access Control.
- Connects Internet on demand and disconnects from the Internet when idle for PPPoE.
- Provides WEP encryption security and wireless LAN ACL (Access Control List).
- Supports Flow Statistics.
- Supports IPv6.
- Supports firmware upgrade and Web management.
- Supports OpenVPN server, PPTP VPN server.
- Supports beamforming technology.
- Supports Airtime Fairness technology.
- Supports MU-MIMO technology.
- Supports Link Aggregation.










1.3. Panel Layout

1.3.1. Front Panel



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

LED Explanation

Name	Status	Indication
 (LED)	On	All LEDs work normally.
	Off	All LEDs are off without affecting the router's performance.
 (Power)	On	System initialization completes.
	Flashing	System initialization or firmware upgrade is in process. Do not disconnect or power off the router.
	Off	Power is off. Please ensure that the power adapter is connected correctly.
 (Wireless 2.4GHz)	On	The wireless 2.4GHz band is working properly.
	Off	The wireless 2.4 GHz band is disabled.
 (Wireless 5GHz)	On	The wireless 5GHz band is working properly.
	Off	The wireless 5GHz band is disabled.
 (Internet)	White	The router is connected to the Internet.
	Orange	The WAN port is connected, but there is no Internet connection.
	Off	The WAN port is not connected.
 (LAN)	On	At least one LAN port is connected.
	Off	No LAN port is connected.
 (WPS)	On	A wireless device has been successfully added to the network by WPS function.
	Flashing	WPS handshaking is in process and will continue for about 2 minutes. Please press the WPS button on other wireless devices that you want to add to the network while the LED is flashing.
	Off	The router is not in the WPS process.
 (USB 3.0)	On	The USB device connected to the USB 3.0 port is identified and ready to use.
	Flashing	The USB device connected to the USB 3.0 port is being identified.
	Off	No USB device is plugged into the USB 3.0 port or the USB device is not identified or USB device has been safely ejected.
 (USB 2.0)	On	The USB device connected to the USB 2.0 port is identified and ready to use.
	Flashing	The USB device connected to the USB 2.0 port is being identified.
	Off	No USB device is plugged into the USB 2.0 port or the USB device is not identified or USB device has been safely ejected.

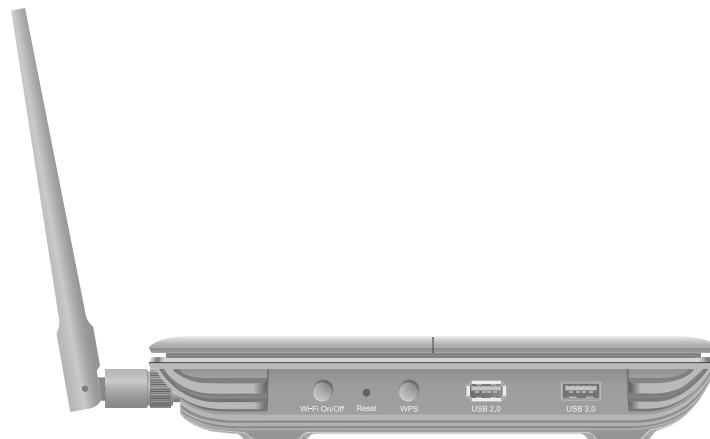
Notes:

1. After a device is successfully added to the network by WPS function, the WPS LED will keep on for about 5 minutes and then turn off.
2. You can turn the LEDs on or off by pressing the LED On/Off button.

1.3.2. Back Panel

The router's back panel shows the connection ports, buttons and antennas (view from left to right). Refer to the following for detailed instructions.

Item	Description
Internet	This port is where you will connect the DSL/cable Modem, or Ethernet.
LAN1, LAN2, LAN3, LAN4	These ports (1, 2, 3, 4) connect the router to the local PC(s).
Power	For connecting the router to power socket via the provided power adapter.
Power On/Off	The switch for the power. Press it to power on or off the router.
Antennas	Used for wireless operation and data transmit. Upright them for the best Wi-Fi performance.

1.3.3. Side Panel

The router's side panel shows the USB ports and buttons (view from left to right). Refer to the following for detailed instructions.

Item	Description
WiFi On/Off	For turning on/off the WiFi function.
Reset	<p>The switch for the reset function. There are two ways to reset the router's factory defaults.</p> <p>Method one: With the router powered on, press and hold the Reset button for at least 5 seconds until all LEDs light on (wireless LEDs may not light on if the WiFi on/off button is off). And then release the button and wait the router to reboot to its factory default settings.</p> <p>Method two: Restore the default setting from Backup and Restore Configuration Settings of the router's web management page.</p>
WPS	The switch for the WPS function. Pressing this button for less than 5 seconds enables the WPS function. If your client devices, such as wireless adapters, that support Wi-Fi Protected Setup, then you can press this button to quickly establish a connection between the router and client devices and automatically configure wireless security for your wireless network.
USB 2.0	For connecting to a 2.0 USB storage device or a 2.0 USB printer.
USB 3.0	For connecting to a 3.0 USB storage device or a 3.0 USB printer. It is also compatible with USB 2.0 devices.

Chapter 2

Connect the Hardware

This chapter contains the following sections:

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

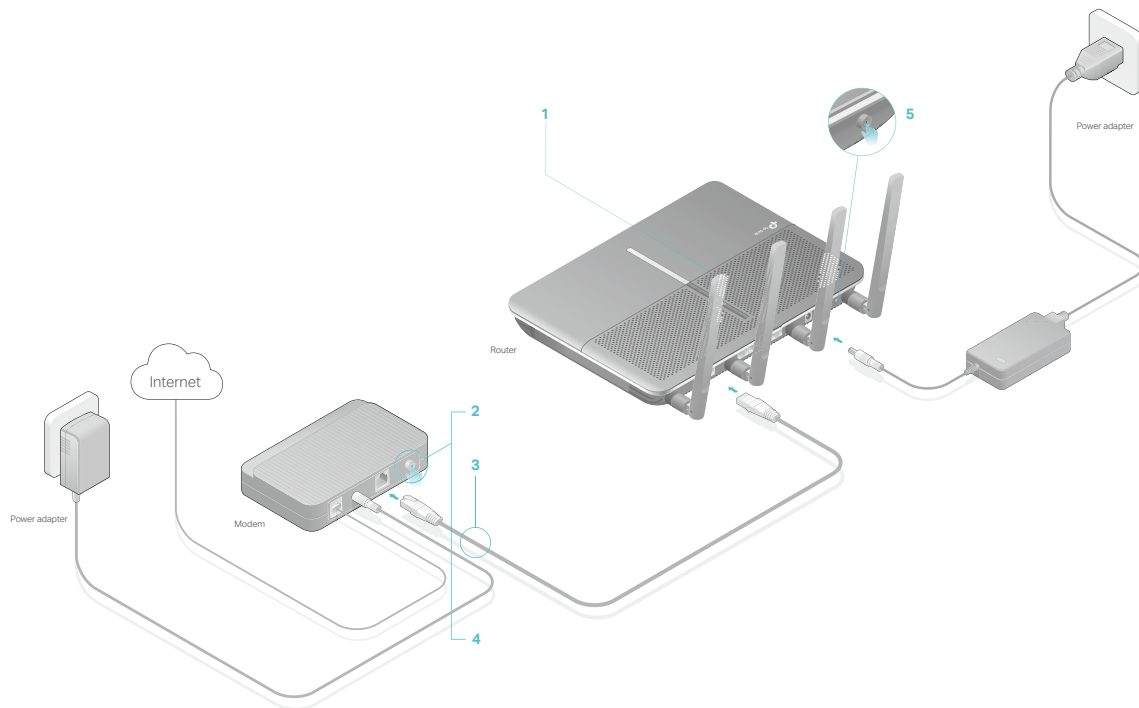
2.1. Position Your Router

- The Product should not be located where it will be exposed to moisture or excessive heat.
- Place the router in a location where it can be connected to the various 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.

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, then follow steps 1, 5 and 6 to complete the hardware connection.





1. Install the antennas and position them vertically for best signal reception.
2. Turn off the modem, and remove the backup battery if it has one.
3. Connect the modem to the Internet port on your router with an Ethernet cable.
4. Turn on the modem, and then wait about 2 minutes for it to restart.
5. Turn on the router.

6. Verify that the following LEDs are on and solid before continuing with the configuration.

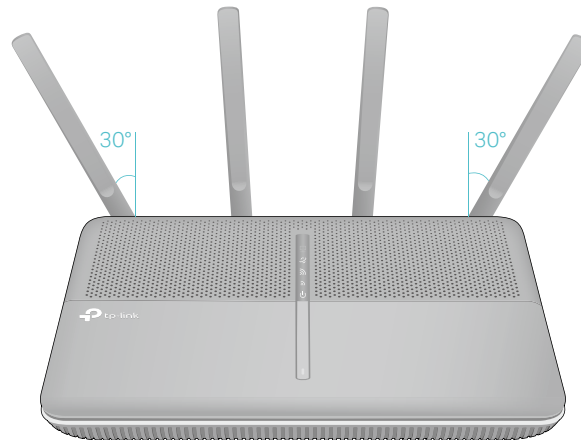


Note:

If the 2.4GHz LED  and 5GHz LED  are off, please press the Wi-Fi On/Off button on the side panel for 2 seconds and check the LEDs again in a few seconds later.

Tips:

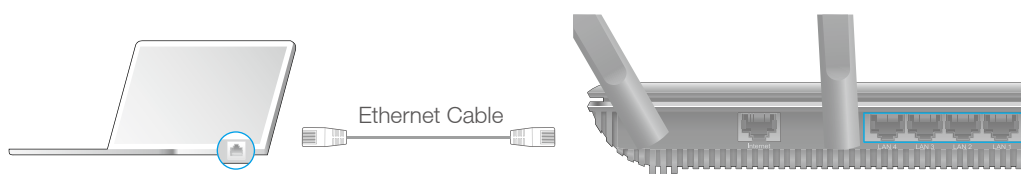
For optimum performance, orient the four antennas as shown in the drawing below.



7. Connect your computer to the router.

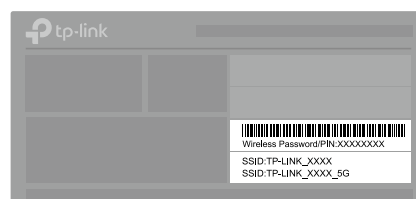
• **Method 1: Wired**

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



• **Method 2: Wirelessly**

Connect wirelessly by using the SSID (Network Name) and Wireless Password/PIN printed on the product label at the bottom of the router.



• **Method 3: Use the WPS button**

Wireless devices that support WPS, including Android phones, tablets, most USB network cards, can be connected to your router through this method.(WPS is not supported by iOS devices.)

Note:

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) Tab the WPS icon on the device's screen.
- 2) Immediately press the WPS button on your router.



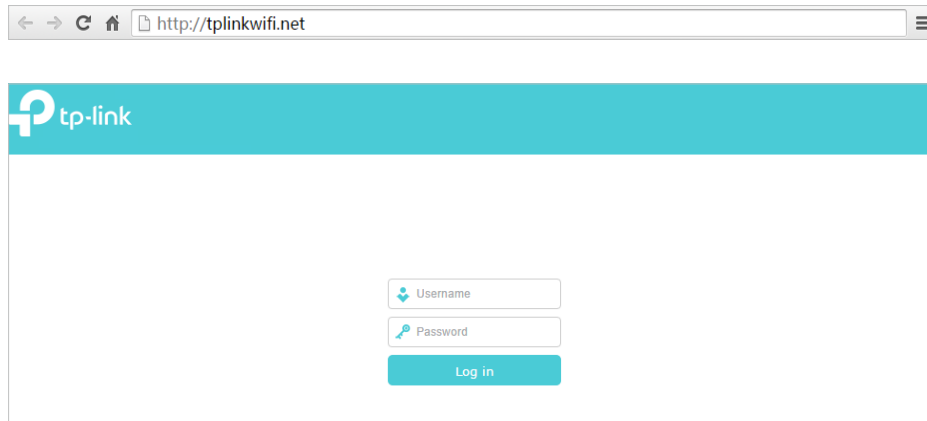
Chapter 3

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, Macintosh or UNIX OS with a web browser, such as Microsoft Internet Explorer, Mozilla Firefox or Apple Safari.

Follow the steps below to log into your router.

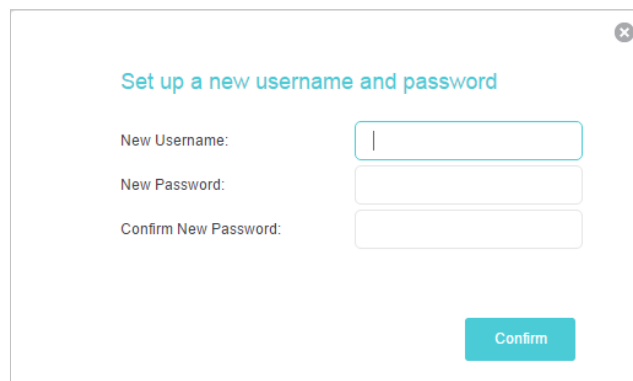
1. Set up the TCP/IP Protocol in [Obtain an IP address automatically](#) mode on your computer.
2. Launch a web browser and type in <http://tplinkwifi.net> or <http://192.168.0.1>. Use **admin** for both username and password, and click **Log in**.



Note:

If the login window does not appear, please refer to [FAQ > Q3. I cannot log into the router's web management page, what can I do?](#)

3. Create a new username and password for subsequent login.

A screenshot of a dialog box titled "Set up a new username and password". The dialog box has a close button (X) in the top right corner. It contains three input fields: "New Username:", "New Password:", and "Confirm New Password:". Below these fields is a teal "Confirm" button.

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 many 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.

This chapter contains the following sections:

- [Quick Setup](#)
- [Manually Configure Your Internet Connection Settings](#)
- [Setting Up an IPv6 Internet Connection](#)

4.1. Quick Setup

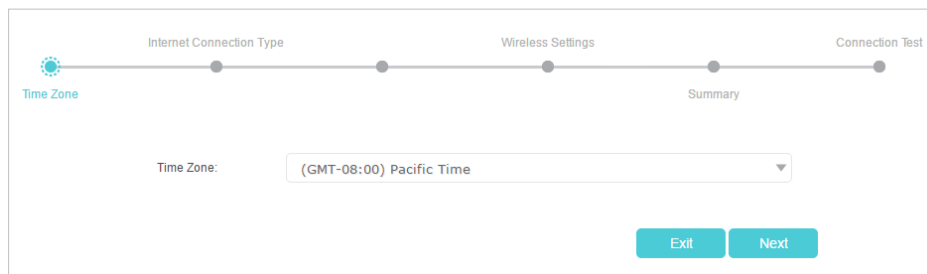
The Quick Setup Wizard will guide you through the process to set up your router to access the Internet.

 **Tips:**

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

Follow the steps below to set up your router to access the Internet.

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Click [Quick Setup](#) on the top of the page.
3. Select your Time Zone from the drop-down list and click [Next](#).

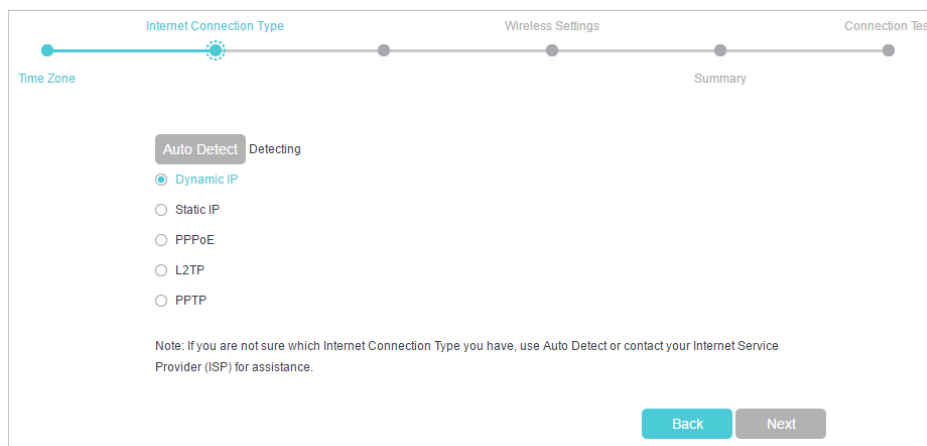


4. Click [Auto Detect](#) and the router will detect your connection type automatically.

 **Note:**

You can also choose the connection type manually. Contact your ISP if you are not sure about the Internet connection information.

- If you use DSL line and you are only provided with an account name and a password by your ISP, choose PPPoE.
- If you use cable TV or fiber cable, choose Dynamic IP.
- If you are provided with more information such as IP address, Subnet Mask and Default Gateway, choose Static IP.



5. In this case, the router automatically detects Dynamic IP as the connection type. Click [Next](#).

Internet Connection Type

Time Zone

Auto Detect Dynamic IP

Dynamic IP

Static IP

PPPoE

L2TP

PPTP

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

Back Next

6. Follow the instructions on the page to decide whether to clone MAC Address. Click **Next**.

Internet Connection Type

Time Zone

Wireless Settings

Summary

Connection Test

If your ISP only allows Internet access from a specific MAC address, you need to Clone that MAC Address to provide Internet access for other devices. If you are not sure, select **Do NOT clone MAC Address**.

Do NOT clone MAC Address

Clone Current Computer MAC Address

Note: If you select Clone Current Computer MAC Address, please make sure the MAC Address of this computer is registered with your ISP before clicking Next.

Back Next

7. Configure your wireless settings and click **Next**.

Internet Connection Type

Time Zone

Wireless Settings

Summary

Connection Test

Please set the SSIDs and passwords for 2.4GHz and 5GHz wireless networks.

Wireless Network (2.4GHz): Enable

Wireless Network Name (SSID):

Password:

Wireless Network (5GHz): Enable

Wireless Network Name (SSID):

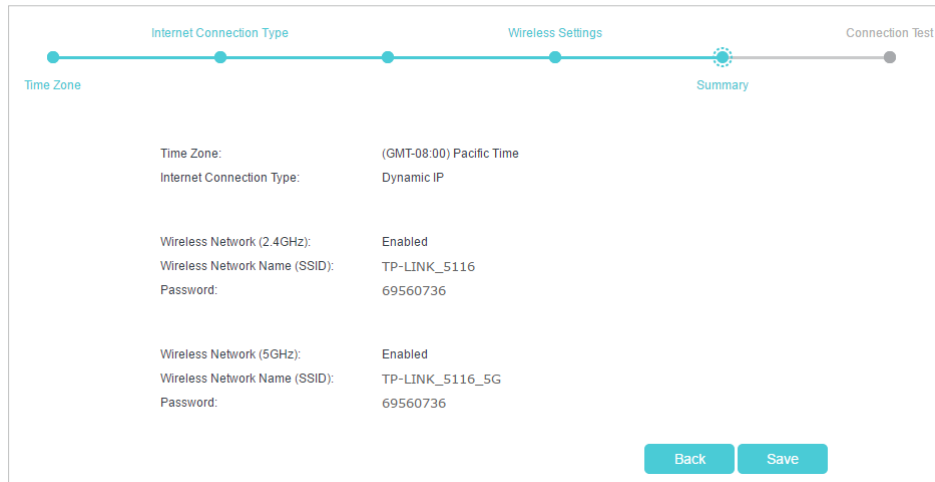
Password:

Back Next

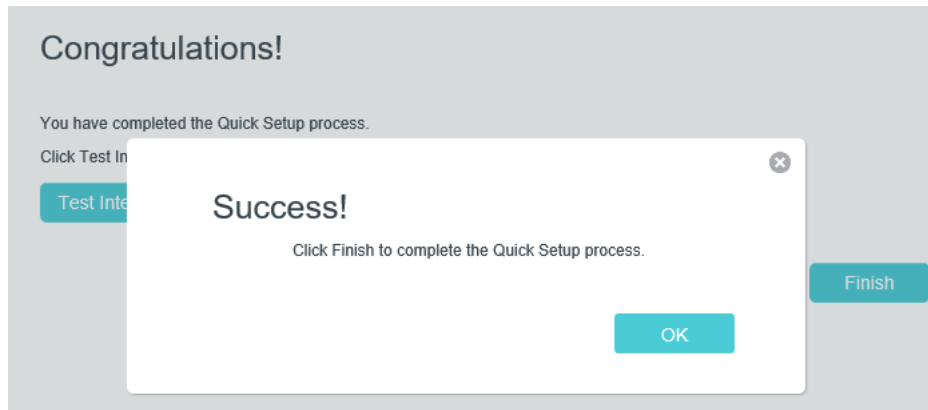
Note:

1. You may customize your 2.4GHz/5GHz SSID and password. Once done, the wireless connection will disconnect automatically, and you must then use the new SSID and password to regain access to the Internet.
2. Tick **Hide SSID** if you want to hide this wireless network name.

8. Confirm the information and click **Save**.



9. Click **Test Internet Connection**. If you successfully connect to the Internet, the screen will display as follows.



10. Now your computer and Wi-Fi devices can connect to the Internet!

Tips:

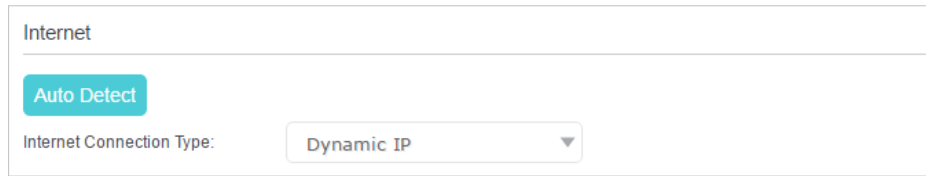
You can connect your computer to the router's Ethernet port using an Ethernet cable to join the local area network. You can also find and select the wireless network name on your Wi-Fi device to join the Wi-Fi network.

4.2. Manually Configure Your Internet Connection Settings

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

Follow the steps below to check or change your Internet connection settings.

1. Visit <http://tplinkwifi.net>, and log in with the username and 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](#)

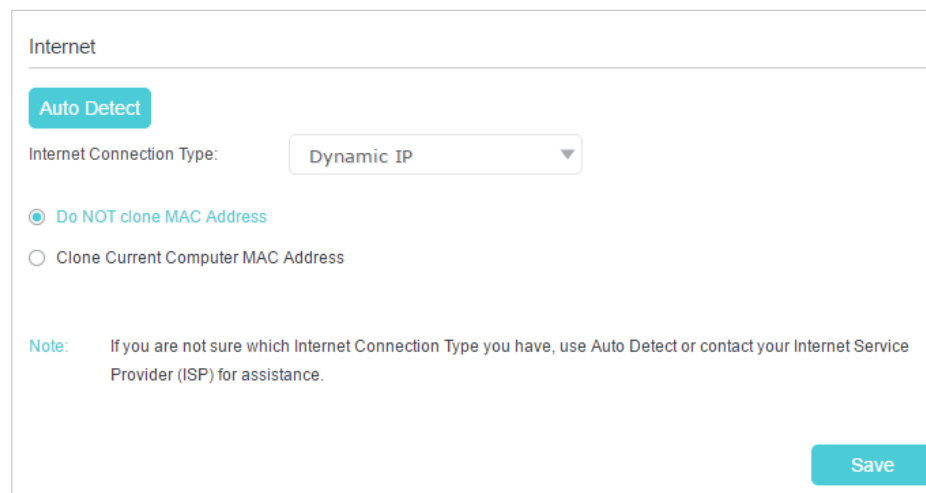
Internet Connection Type: Dynamic IP

Note:

If you are unsure of what your connection type is, click [Auto Detect](#). Since different connection types need different cables and connection information, you can also refer to the demonstrations in Step 4 to judge 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 or not. Dynamic IP users are usually equipped with cable TV or fiber cable.



Internet

[Auto Detect](#)

Internet Connection Type: Dynamic IP

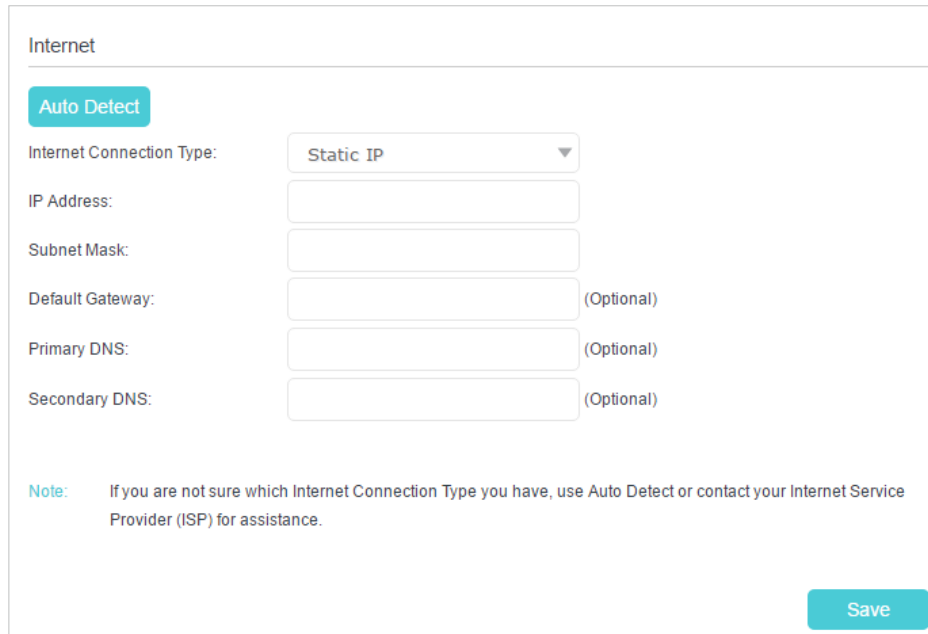
Do NOT clone MAC Address

Clone Current Computer MAC Address

Note: If you are not sure 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.



Internet

Auto Detect

Internet Connection Type:

IP Address:

Subnet Mask:

Default Gateway: (Optional)

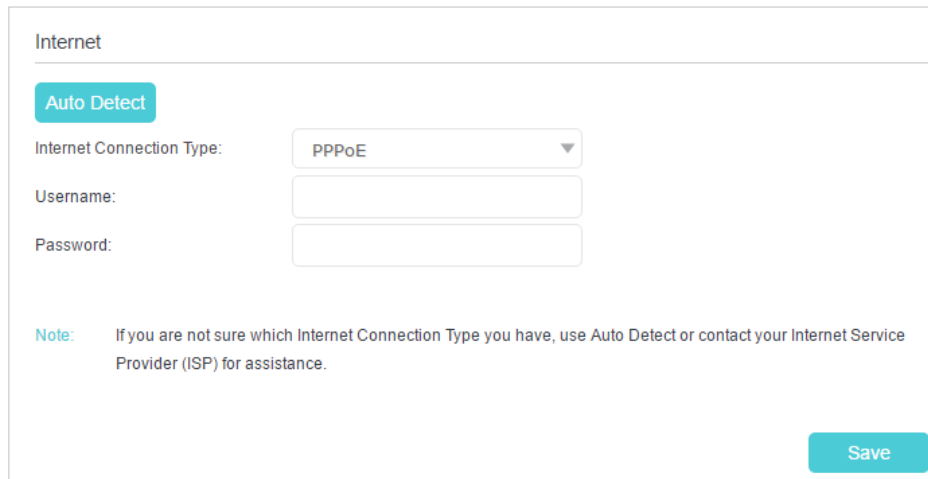
Primary DNS: (Optional)

Secondary DNS: (Optional)

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

Save

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



Internet

Auto Detect

Internet Connection Type:

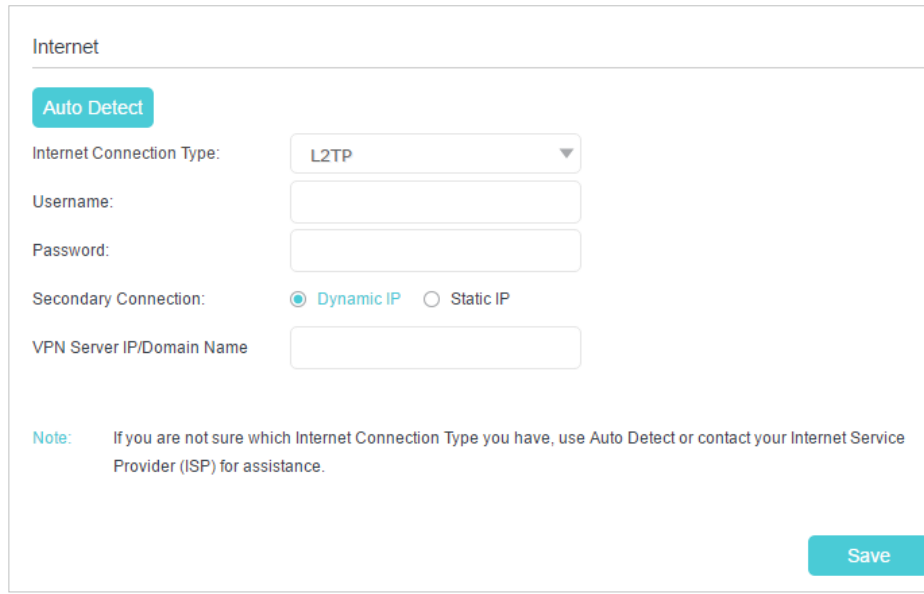
Username:

Password:

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

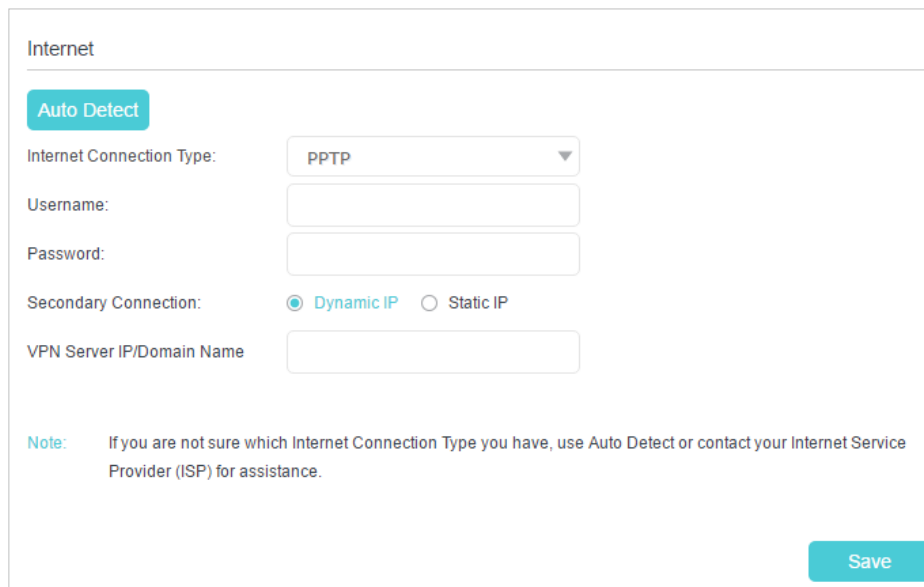
Save

- 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.



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



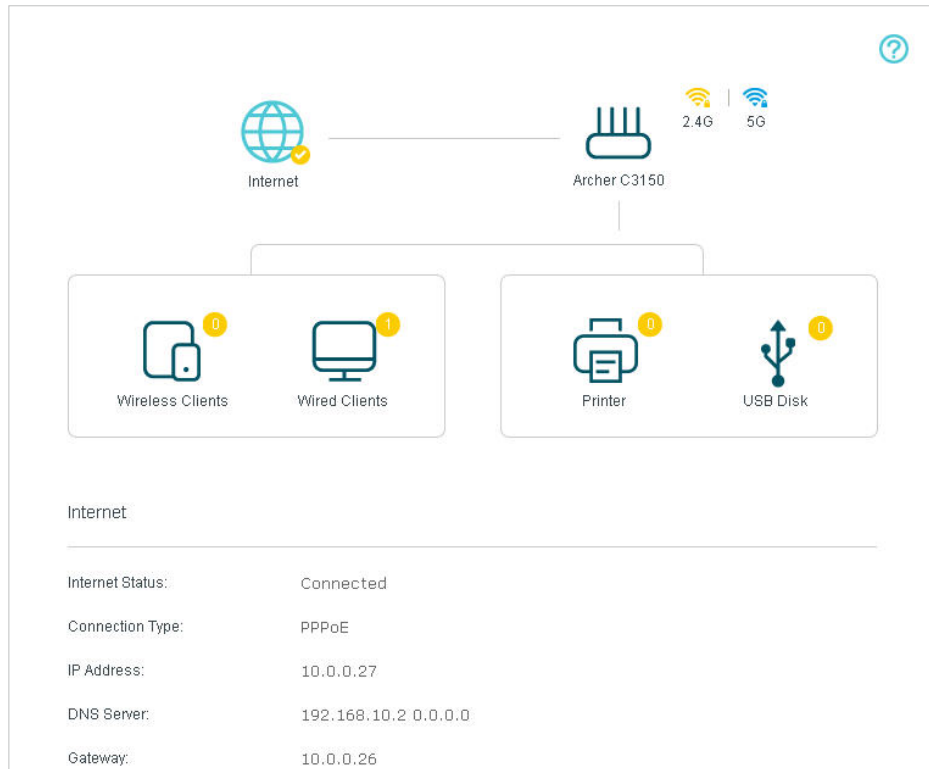
The screenshot shows the 'Internet' configuration page. At the top left is the title 'Internet'. Below it is a teal button labeled 'Auto Detect'. The 'Internet Connection Type' dropdown menu is set to 'PPTP'. There are empty input fields for 'Username:' and 'Password:'. The 'Secondary Connection' section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

5. Click **Save** to make the settings take effect. To check your Internet connection, click **Network Map** on the left of the page.

Note:

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

6. After the connection succeeds, the screen will display as follows. Here we take PPPoE as an example.



Tips:

1. 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.
2. If you still cannot connect to the Internet, refer to [FAQ](#) for further instructions.

4.3. Setting Up an IPv6 Internet Connection

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

1. Visit <http://tplinkwifi.net>, then log in with the username and password you set for the router.
2. Go to [Advanced > IPv6](#).

IPv6 Internet

Enable IPv6

Internet Connection Type: Dynamic IP

IPv6 Address: ::

IPv6 Gateway: ::

Addressing Type: DHCPv6

Advanced

Save

IPv6 LAN

Addressing Type: RADVD DHCPv6 Server

Enable RDNSS

Enable ULA Prefix

Site Prefix Type: Delegated Static

Save

3. Select the Internet connection type provided by your ISP.

IPv6 Internet

Enable IPv6

Internet Connection Type: Dynamic IP

Dynamic IP

Static IP

PPPoE

6to4 Tunnel

IPv6 Address:

IPv6 Gateway:

Addressing Type:

Advanced

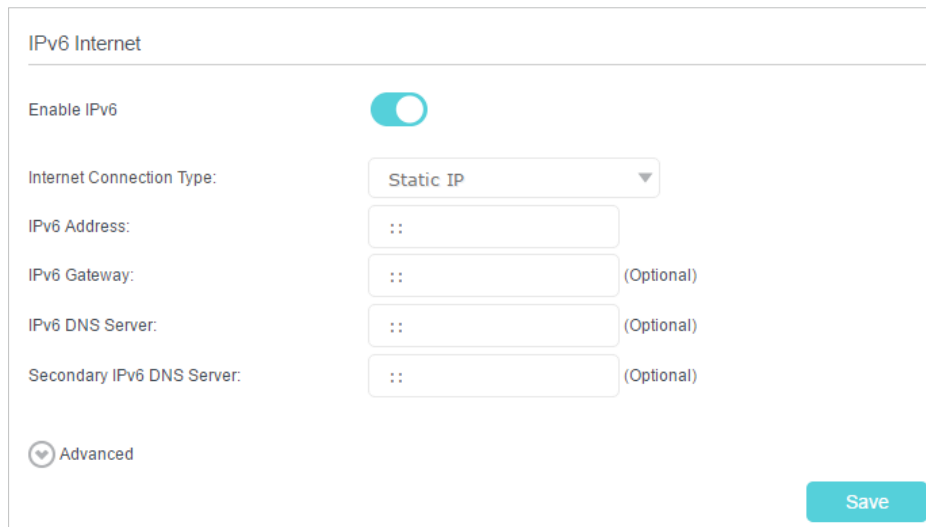
Save

Tips:

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

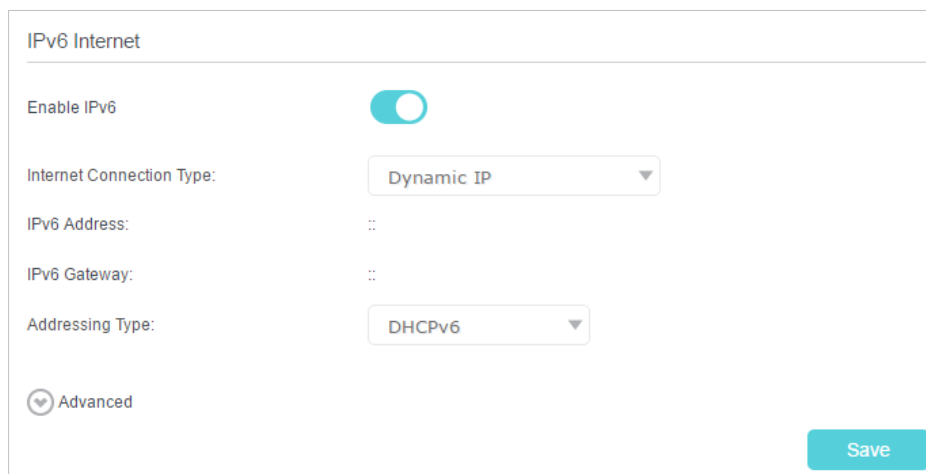
4. Fill in information as required by different connection types.

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



The screenshot shows the 'IPv6 Internet' configuration page. At the top, 'Enable IPv6' is turned on. Below it, 'Internet Connection Type' is set to 'Static IP'. There are four input fields for IPv6 Address, IPv6 Gateway, IPv6 DNS Server, and Secondary IPv6 DNS Server, all containing '::'. The 'Advanced' section is collapsed. A 'Save' button is at the bottom right.

- 2) **Dynamic IP:** Click [Advanced](#) to have more configuration if your ISP requires. Click [Save](#) to save the settings.



The screenshot shows the 'IPv6 Internet' configuration page. 'Enable IPv6' is turned on. 'Internet Connection Type' is set to 'Dynamic IP'. The IPv6 Address and IPv6 Gateway fields contain '::'. 'Addressing Type' is set to 'DHCPv6'. The 'Advanced' section is collapsed. A 'Save' button is at the bottom right.

- 3) **PPPoE:** Fill in the Username and Password. Click [Advanced](#) to have more configuration if your ISP requires. Click [Save](#) to save the settings.

IPv6 Internet

Enable IPv6

Internet Connection Type:

Username:

Password:

Confirm Password:

Addressing Type:

Advanced

Save

- 4) **6to4 Tunnel:** An IPv4 Internet connection type is a prerequisite for this connection type ([Manually Configure Your Internet Connection Settings](#)). Click **Save** to save the settings.

IPv6 Internet

Enable IPv6

Internet Connection Type:

IPv4 Address: 0.0.0.0

IPv4 Subnet Mask: 0.0.0.0

IPv4 Gateway: 0.0.0.0

Save

5. Configure the IPv6 LAN settings. Leave the settings as default, and click **Save**.

Tips:

Find [Help](#) on the management interface to know more about items.

IPv6 LAN

Addressing Type: RADVD DHCPv6 Server


Enable RDNSS

Enable ULA Prefix

Site Prefix Type: Delegated Static

Save

6. Click **Status** to check whether you succeed or not. The following figure is an example of a successful PPPoE configuration.

Internet 		IPv4 IPv6
MAC Address:	00-0A-EB-AC-25-01	
IP Address:	2001:c68:202:2111::120/64	
Default Gateway:	fe80::edd0:80d2:7f5e:6be7	
Primary DNS:	2001:c68:202:2111::1	
Secondary DNS:	2001:c68:202:2111::2	
Connection Type:	PPPoE	

 **Tips:**

Visit [FAQ](#) if there is no Internet connection.

Chapter 5

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.

This chapter contains the following sections:

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

5. 1. Create a Network for Guests

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Advanced](#) > [Guest Network](#). Locate the [Wireless](#) section.
3. Create a guest network according to your needs.
 - 1) Click [2.4GHz](#) or [5GHz](#), then select [Enable](#).
 - 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 | 5GHz

Enable

Guest Network SSID: Hide SSID

Security: None WPA/WPA2 Personal

Version: Auto WPA2-PSK

Encryption: Auto TKIP AES

Password:

[Save](#)

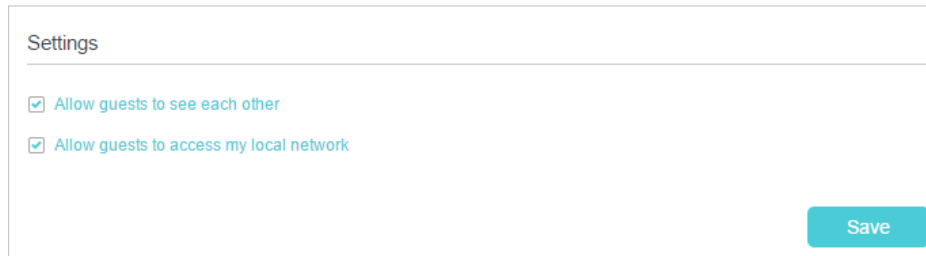
4. Click [Save](#). Now your guests can access your guest network using the SSID and password you set!

[🔗](#) **Tips:**

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

5.2. Customize Guest Network Options

1. Visit <http://tplinkwifi.net>, and log in with the username and 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.



The screenshot shows a web interface titled "Settings" for the Guest Network. It contains two checkboxes, both of which are checked. The first checkbox is labeled "Allow guests to see each other" and the second is labeled "Allow guests to access my local network". A teal "Save" button is located in the bottom right corner of the settings area.

- **Allow guests to see each other**

Select 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, Samba, Ping, and FTP.

- **Allow guests to access my local network**

Select 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, Samba, Ping, and FTP.

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 6

USB Settings

This chapter describes how to share and access USB devices connected to the router among different clients.

The router only supports USB external flash drives, hard drives and USB printers.

This chapter contains the following sections:

- [Local Storage Sharing](#)
- [Remote Access via FTP Server](#)
- [Media Sharing](#)
- [Printer Sharing](#)

6.1. Local Storage Sharing


Share your USB storage devices with different users on the network.

6.1.1. Access the USB disk

1. Connect Your USB Disk

Insert your USB storage device into the router's USB port directly or using a USB cable. Wait several seconds until the USB LED becomes solid on.

 **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 Settings > Device Settings](#) and click  **Safely Remove**.

2. Access Your USB Disk

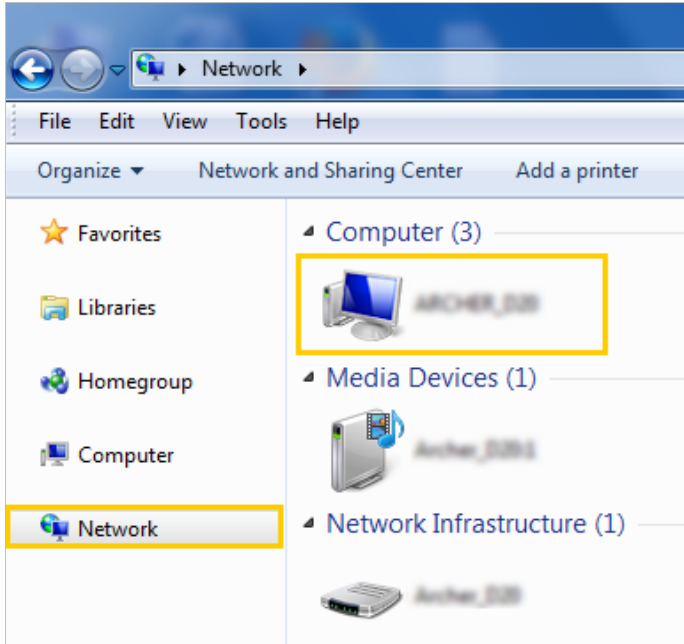
By default, all the network clients can access all folders on your USB disk. Refer to the following table for access instructions. You can also customize your sharing content and set a sharing account by referring to [Customize Your Settings](#).

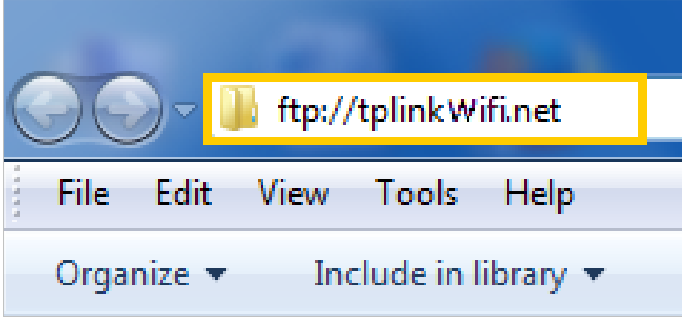
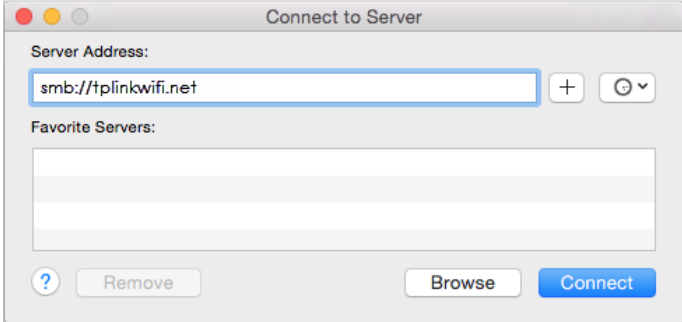
Windows computer

➤ **Method 1:**

Go to [Computer > Network](#), then click the Network Server Name ([Archer_C3150](#) by default) in the [Computer](#) section.

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



<p>Windows computer</p>	<p>➤ Method 2:</p> <p>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].</p> 
<p>Mac</p>	<ol style="list-style-type: none"> 1) Select Go > Connect to Server 2) Type the server address smb://tplinkwifi.net 3) Click Connect  <ol style="list-style-type: none"> 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.)
<p>pad</p>	<p>Use a third-party app for network files management.</p>

 **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.

6.1.2. Customize Your Settings

➤ To Only Share Specific Content

By default, [Share All](#) is enabled so all content on the USB disk is shared. If you want to only share specific folders, follow the steps below:

1. Visit <http://tplinkwifi.net>, then log in with the username and password you set for the router.
2. Select [Basic](#) > [USB Settings](#) > [Sharing Access](#). Focus on the [Folder Sharing](#) section. Click the button to disable [Share All](#), then click [Add](#) to add a new sharing folder.

Folder Sharing

Share All:

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

<input type="checkbox"/>	ID	Folder Name	Folder Path	Media Sharing	Volume Name	Status	Modify
--	--	--	--	--	--	--	--

Volume Name:

Folder Path:

Folder Name:


Enable Authentication

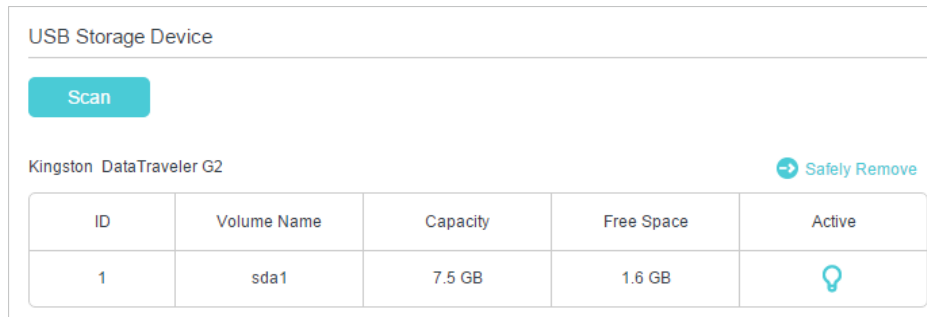
Enable Write Access

Enable Media Sharing

3. Select the [Volume Name](#) and [Folder Path](#), then enter a [Folder Name](#) as you like.
4. Decide the way you share the folder:
 - [Enable Authentication](#): If you tick this check box, you will be required to use a username and password to access the folder. Refer to [To Set up Authentication for Data Security](#) to learn more.
 - [Enable Write Access](#): If you tick this check box, network clients can modify the folder.
 - [Enable Media Sharing](#): If you tick this check box, you can view photos, play music and watch movies in the folder directly from DLNA-supported devices. Click [Media Sharing](#) to learn more.
5. Click [OK](#).

 **Tips:**

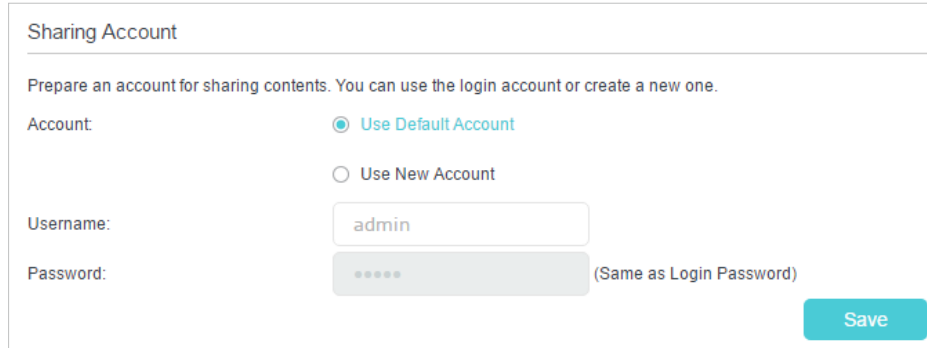
The router can share 32 volumes at most. You can click  on the page to detach the corresponding volume you do not need to share.



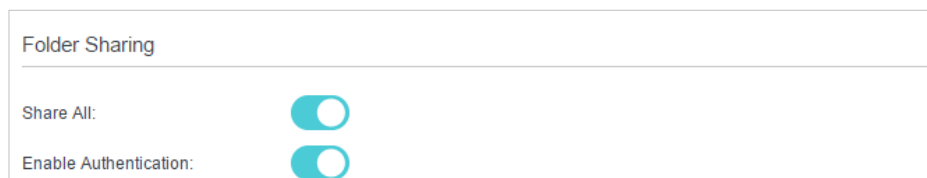
➤ **To Set up Authentication for Data Security**

If you enable **Authentication**, network clients will be required to enter the username and password you set when accessing the USB disk.

1. Visit <http://tplinkwifi.net>, then log in with the username and password you set for the router.
2. Select **Advanced > USB Settings > Sharing Access**. Focus on the **Sharing Account** section.



3. Choose **Use Default Account** (admin) or **Use New Account** and click **Save**.
4. Enable **Authentication** to apply the account you just set.
 - If you leave **Share All** enabled, click the button to enable **Authentication** for all folders.



- If **Share All** is disabled, enable **Authentication** for specific folders.

Folder Sharing

Share All:

+ Add - Delete

<input type="checkbox"/>	ID	Folder Name	Folder Path	Media Sharing	Volume Name	Status	Modify
--	--	--	--	--	--	--	--

Volume Name: G:

Folder Path: G:/.TPDLNA

Folder Name: .TPDLNA

Enable Authentication

Enable Write Access

Enable Media Sharing

■ **Note:**

Due to Windows credential mechanism, you might be unable to access the USB disk after changing Authentication settings. Please log out from Windows and try to access again. For more details, refer to [What can I do if I cannot access the USB disk after I modify the Authentication settings?](#)

➤ **To Customize the Address of the USB Disk**

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

1. Visit <http://tplinkwifi.net>, then log in with the username and password you set for the router.
2. Select **Advanced > USB Settings > Sharing Access**. Focus on the **Sharing Settings** section.
3. Make sure **Network Neighborhood** is ticked, and enter a Network/Media Server Name as you like, such as **My-share**, then click **Save**.

Sharing Settings

Network/Media Server Name: My-share

Enable	Access Method	Access	Port
<input checked="" type="checkbox"/>	Media Server	--	--
<input checked="" type="checkbox"/>	Network Neighborhood	\\My-share	--
<input checked="" type="checkbox"/>	FTP	ftp://192.168.0.31:21	<input type="text" value="21"/>
<input type="checkbox"/>	FTP(via Internet)	ftp://0.0.0.0:21	21

4. Now you can access the USB disk by visiting `\\My-share` (for Windows) or `smb://My-share` (for Mac).

6.2. Remote Access via FTP Server

You can access your USB disk outside the local area network.

For example:

- 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.

6.2.1. Access the USB disk

1. Connect Your USB Disk

Insert your USB storage device into the router's USB port directly or using a USB cable. Wait several seconds until the USB LED becomes solid on.

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: Select [Advanced](#) > [USB Settings](#) > [Device Settings](#) and click [➔ Safely Remove](#).

2. Enable Authentication for Data Security

It is strongly recommended that you set and apply a sharing account for data security.

- 1) Visit <http://tplinkwifi.net>, then log in with the username and password you set for the router.
- 2) Select [Advanced](#) > [USB Settings](#) > [Sharing Access](#).
- 3) Choose [Use default Account](#) (admin) or [Use New Account](#) and click [Save](#).

Sharing Account

Prepare an account for sharing contents. You can use the login account or create a new one.

Account: Use Default Account
 Use New Account

Username:

Password: (Same as Login Password)

[Save](#)

4) Enable [Authentication](#) to apply the sharing account.

- If you leave [Share All](#) enabled, click the button to enable [Authentication](#) for all folders.

Folder Sharing

Share All:

Enable Authentication:

- If [Share All](#) is disabled, enable [Authentication](#) for specific folders.

Folder Sharing

Share All: [+ Add](#) [- Delete](#)

<input type="checkbox"/>	ID	Folder Name	Folder Path	Media Sharing	Volume Name	Status	Modify
--	--	--	--	--	--	--	--

Volume Name: [Browse](#)

Folder Path: [Browse](#)

Folder Name:

[Enable Authentication](#)

[Enable Write Access](#)

[Enable Media Sharing](#)

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

3. Enable the FTP(via Internet)

Select the check box to enable [FTP\(via Internet\)](#), then click [Save](#).

Sharing Settings

Network/Media Server Name:

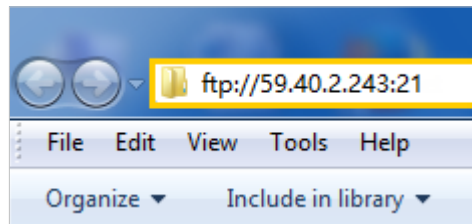
Enable	Access Method	Access	Port
<input type="checkbox"/>	Media Server	--	--
<input type="checkbox"/>	Network Neighborhood	\\My-share	--
<input checked="" type="checkbox"/>	FTP	ftp://192.168.0.178:21	<input type="text" value="21"/>
<input checked="" type="checkbox"/>	FTP(via Internet)	ftp://0.0.0.0:21	21

4. Access Your USB Disk via Internet

Now different clients with Internet connection can access the USB disk:

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`)



The Address Bar of the Windows Explorer (Windows 7)

- 3) Press [Enter](#) on the keyboard.
- 4) Access with the username and password you set in [Step 2 Enable 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.

Pad

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.

6.2.2. Customize Your Settings

➤ To Only Share Specific Content

By default, **Share All** is enabled so all content on the USB disk is shared. If you want to only share specific folders, follow the steps below:

1. Visit <http://tplinkwifi.net>, then log in with the username and password you set for the router.
2. Select **Basic > USB Settings > Sharing Access**. Focus on the **Folder Sharing** section. Click the button to disable **Share All**, then click **Add** to add a new sharing folder.

Folder Sharing

Share All:

+ Add - Delete

<input type="checkbox"/>	ID	Folder Name	Folder Path	Media Sharing	Volume Name	Status	Modify
--	--	--	--	--	--	--	--

Volume Name:

Folder Path:

Folder Name:


Enable Authentication

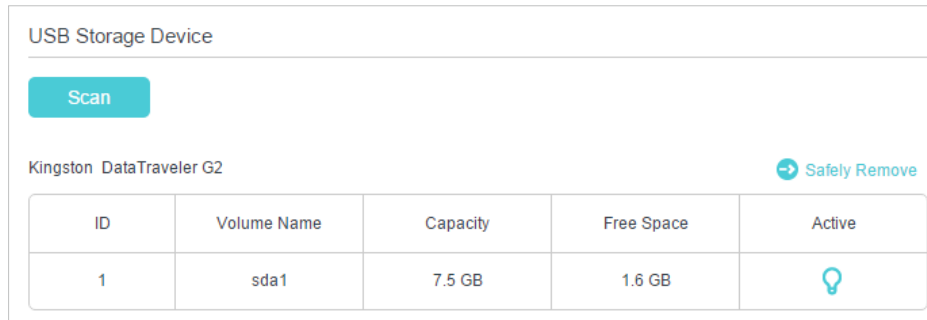
Enable Write Access

Enable Media Sharing

3. Select the **Volume Name** and **Folder Path**, then specify the **Folder Name** as you like.
4. Tick **Enable Authentication**. If you allow network clients to modify this folder, tick **Enable Write Access**.
5. Click **OK**.

📌 Tips:

The router can share 32 volumes at most. You can click  on the page to detach the corresponding volume you do not need to share.



6.3. Media Sharing

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

6.3.1. Access the USB disk

1. Connect Your USB Disk

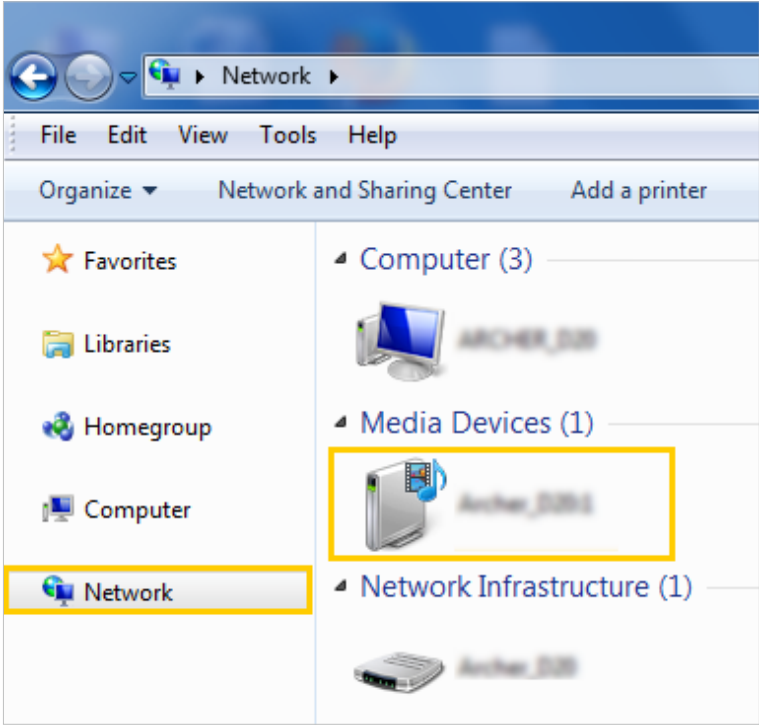
Insert your USB storage device into the router's USB port directly or using a USB cable. Wait several seconds until the USB LED becomes solid on.

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 Settings > Device Settings](#) and click [Safely Remove](#).

2. Access the Media Files on Your USB Disk

Now the DLNA-supported devices (such as your computer and pad) connected to the router can detect and play the media files on the USB disks.

Windows computer	<ul style="list-style-type: none"> Go to Computer > Network, then click the Media Server Name (Archer_C3150 by default) in the Media Devices section. <p>Note: Here we take Windows 7 as an example.</p>  <p>The screenshot shows the Windows 7 Network folder. The left sidebar has 'Network' highlighted. The main pane shows 'Computer (3)', 'Media Devices (1)', and 'Network Infrastructure (1)'. The 'Media Devices (1)' section contains a single item, 'Archer_C3150', which is highlighted with a yellow box.</p>
Pad	<ul style="list-style-type: none"> Use a third-party DLNA-supported player.

6.3.2. Customize Your Settings

➤ To Only Share Specific Content

By default, **Share All** is enabled so all content on the USB disk is shared. If you want to only share specific folders, follow the steps below:

1. Visit <http://tplinkwifi.net>, then log in with the username and password you set for the router.
2. Select **Basic > USB Settings > Sharing Access**.
3. Focus on the section of **Folder Sharing**. Click the button to disable **Share All**, then click **Add** to add a new sharing folder.

Folder Sharing

Share All:

+ Add - Delete

	ID	Folder Name	Folder Path	Media Sharing	Volume Name	Status	Modify
<input type="checkbox"/>	--	--	--	--	--	--	--

Volume Name:

Folder Path: Browse

Folder Name:

Enable Authentication

Enable Write Access


Enable Media Sharing

Cancel
OK

4. Select the **Volume Name** and **Folder Path**, then enter a **Folder Name** as you like.

5. Tick **Enable Media Sharing** and click **OK**.


 **Tips:**

The router can share 32 volumes at most. You can click  on the page to detach the corresponding volume you do not need to share.

USB Storage Device

Scan

Kingston DataTraveler G2 → Safely Remove

ID	Volume Name	Capacity	Free Space	Active
1	sda1	7.5 GB	1.6 GB	

6.4. Printer Sharing

The **Printer Sharing** feature helps you share a printer with different computers connected to the router.

 **Note:**

Printers unlisted on this page may be incompatible with the router:

<http://www.tp-link.com/common/compatible/print-server/>.

1. Install the Driver of the Printer

Make sure you have installed the driver of the printer on each computer that needs printer service.

If you do not have the driver, contact the printer manufacturer.

2. Connect the Printer

Cable a printer to the USB port with the USB cable. Wait several seconds until the USB LED becomes solid on.

3. Install the TP-LINK USB Printer Controller Utility

TP-LINK USB Printer Controller Utility helps you access the shared printer. Download and install the utility on each computer that needs printer service.


- 1) Visit <http://www.tp-link.com/app/usb/>.
- 2) Click [PC Utility](#) (for Windows users) or [Mac Utility](#) to download the installation file and uncompress it.

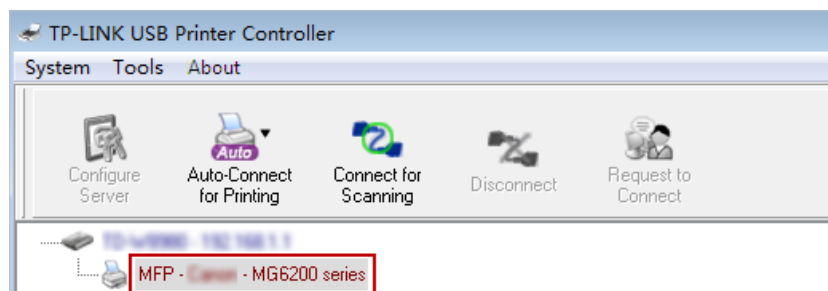


- 3) Open the uncompressed folder, then click [TP-LINK USB Printer Controller Setup](#) (for Windows users) or [TP-Link UDS Printer Controller Installer](#) (for Mac users) to install the utility.

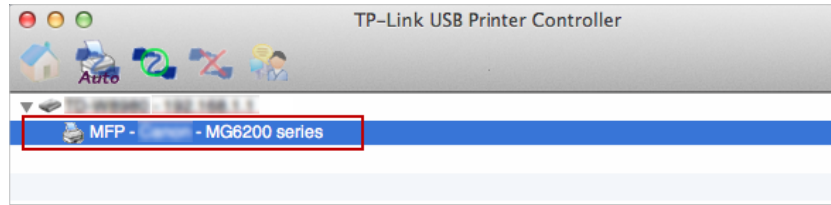
4. Access the Printer

You should set the shared printer as [Auto-Connect Printer](#) on every computer that needs printer service.

- 1) Double-click the icon  on your desktop to launch the USB Printer Controller.
- 2) Highlight the printer you share.

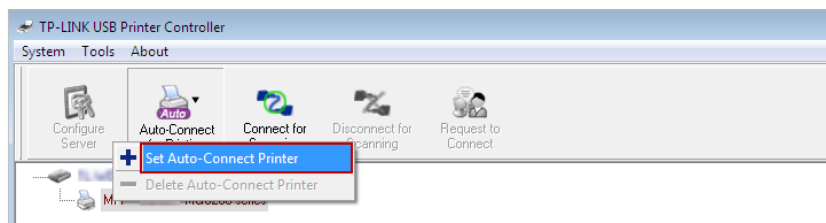


Windows

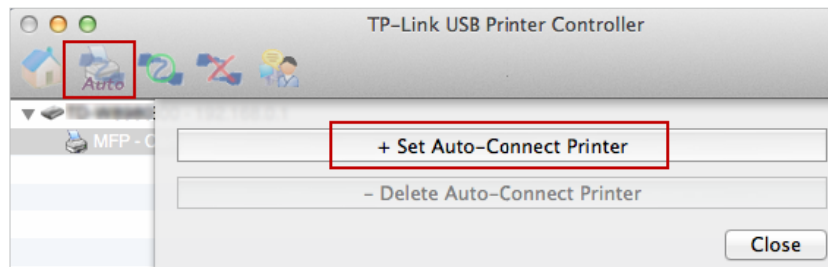


Mac

- 3) Click the [Auto-Connect for printing](#) tab to pull down a list, then select [Set Auto-Connect Printer](#).

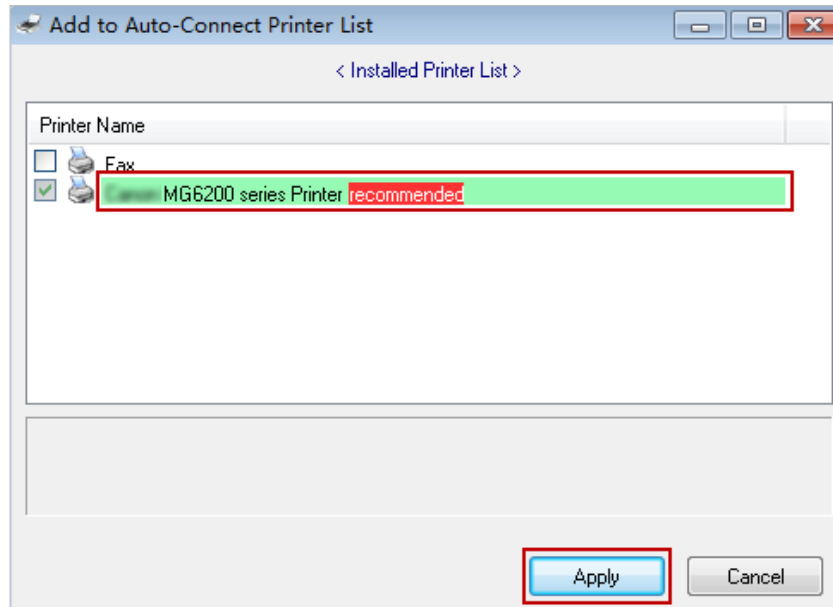


Windows

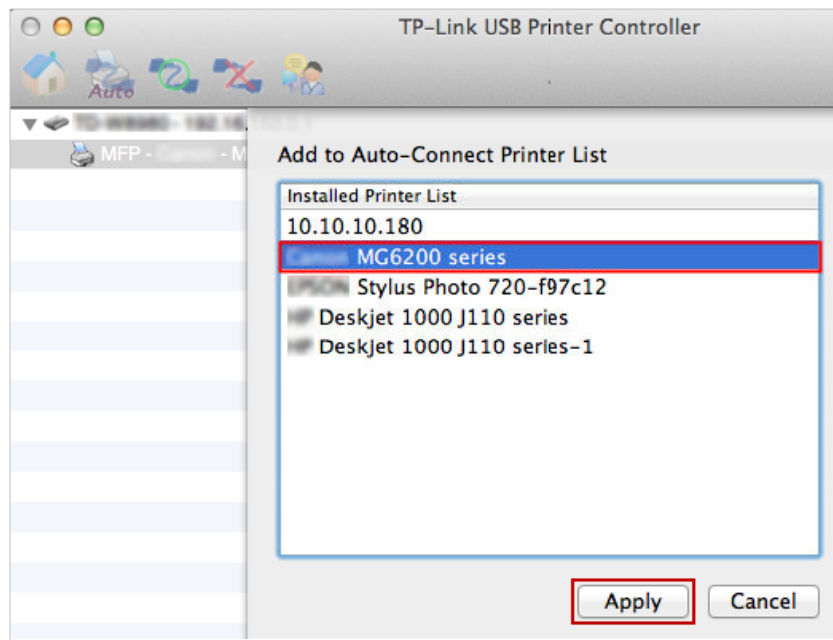


Mac

- 4) Select the printer you share, then click [Apply](#).

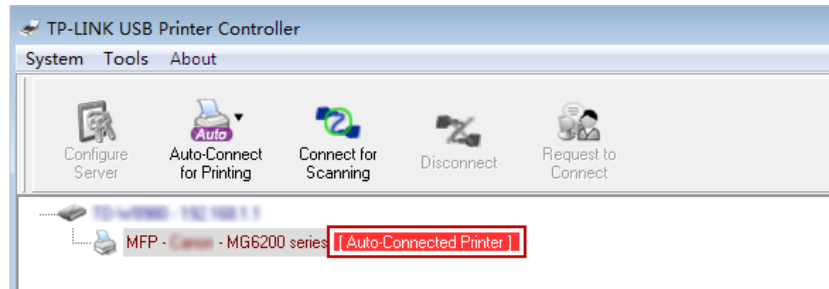


Windows



Mac

- 5) You will see the printer marked as **Auto-Connect Printer**. Now you can print with this printer.



Windows



Mac

Tips:

The Print Server also allows different clients to share the scan feature of MFPs (Multi-Function Printers). To scan with [TP-LINK USB Printer Controller](#), right-click the printer and select [Network Scanner](#). Then, a scanning window will pop up. Finish the scanning process by following on-screen instructions.

Chapter 7

Parental Controls

This function allows you to block inappropriate, explicit and malicious websites, and control access to specified websites at specified time.

I want to:


Control the times of day my children or other home network users are allowed to access the Internet and even types of websites they can visit.

For example, I want to allow my children's devices (such as a computer or a tablet) to access only www.tp-link.com and wikipedia.org from 18:00 (6PM) to 22:00 (10PM) on weekdays and not other time.

How can I do that?

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Basic](#) or [Advanced](#) > [Parental Controls](#) and enable [Parental Controls](#).

3. Click [Add](#).

4. Click [View Existing Devices](#), and select the device to be controlled. Or, enter the [Device Name](#) and [MAC Address](#) manually.
5. Click the  icon to set the [Effective Time](#). Drag the cursor over the appropriate cell(s) and click [OK](#).

6. Enter a [Description](#) for the entry.
7. Select the checkbox to enable this entry and click [OK](#).
8. Select the restriction type.
 - 1) With [Blacklist](#) selected, the controlled devices cannot access any websites containing the specified keywords during the Effective Time period.
 - 2) With [Whitelist](#) selected, the controlled devices can only access websites containing the specified keywords during the Effective Time period.

9. Click [Add a New Keyword](#). You can add keywords for both [Blacklist](#) and [Whitelist](#). Below are some sample entries to allow access.
 - 1) Enter a web address (such as www.tp-link.com) or a web address keyword (such as wikipedia) to only allow or block access to the websites containing that keyword.

2) If you wish to block all Internet browsing access, do not add any keyword to the [Whitelist](#).

10. Enter the keywords or websites you want to add and click [Save](#).

Done!

Now you can control your children's Internet access according to your needs.

Chapter 8

Bandwidth Control

This feature is used to fully utilize your limited bandwidth and optimize the load respectively.

With this feature enabled, you can assign a specific minimum or maximum bandwidth to each computer, thus minimizing the impact caused when the connection is under heavy load.

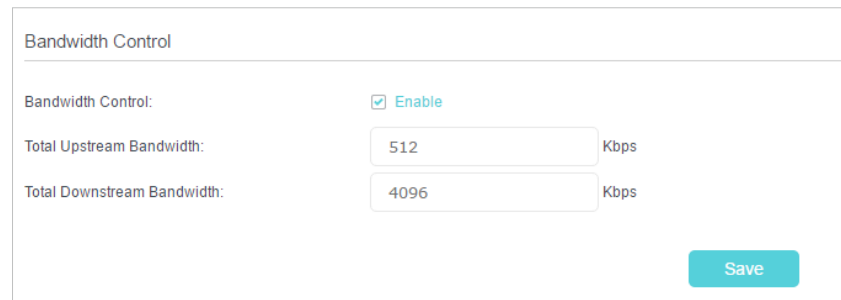
I want to: Use an independent bandwidth and enjoy a good Internet experience without being affected by other users who are sharing the same router.

For example, my roommate and I share 512Kbps Upstream Bandwidth and 4Mbps Downstream Bandwidth via this router, she likes to watch live show and play online games, which may take up much bandwidth. I don't want to be affected, so we agree to equally distribute the bandwidth. Our IP addresses are 192.168.0.101 and 192.168.0.110.

Tips: To use the bandwidth control feature, you'd better set static IP Address on each computer to be controlled or configure Address reservation on the router in order to manage easily. About how to configure address reservation, please refer to [To reserve an IP address for a specified client device](#).

How can I do that?

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Advanced > Bandwidth Control](#) page.



Bandwidth Control

Bandwidth Control: Enable

Total Upstream Bandwidth: Kbps

Total Downstream Bandwidth: Kbps

Save

3. Enable [Bandwidth Control](#).
4. Enter the [Total Upstream Bandwidth](#) and [Total Downstream Bandwidth](#) given by your ISP. (1Mbps=1024Kbps). Click [Save](#) to save the settings.
5. Click [Add](#) to add controlling rules for each computer respectively.

Controlling Rules

+ Add - Delete

<input type="checkbox"/>	Description	Priority	Up(min/max)	Down(min/max)	Enable	Modify
--	--	--	--	--	--	--

IP Range: -

Port Range: -

Protocol: ▼

Priority: ▼ (1 means the highest priority.)

Upstream: to

Downstream: to

Enable this entry

Cancel OK

- 1) **IP Range:** Enter the IP address. The field can be single IP address or IP address range according to your demands. When you configure the single IP address, the computer with this IP address will get independent given bandwidth. When you configure the IP address range, all computers in the range will share the given bandwidth.
 - 2) **Port Range:** Keep the default settings. The default port range of TCP protocol or UDP protocol is from 1 to 65535.
 - 3) **Protocol:** Keep the default setting. Or you can choose the TCP protocol or UDP protocol or both of them.
 - 4) **Priority:** Keep the default setting. You can change the value if you want to first guarantee the bandwidth for one computer. The smaller value has the higher priority.
 - 5) **Upstream/Downstream:** Enter the bandwidth according to your division.
 - 6) Check to enable this entry and click **OK** to save the settings.
6. Follow the steps above to add a rule for the other computer. And then you will get the following table.

Controlling Rules

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

<input type="checkbox"/>	Description	Priority	Up(min/max)	Down(min/max)	Enable	Modify
<input type="checkbox"/>	192.168.0.101	5	200/500 Kbps	2000/4000 Kbps		
<input type="checkbox"/>	192.168.0.110	5	200/500 Kbps	2000/4000 Kbps		

Done!

Now you and your roommate have an independent bandwidth.

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.

This chapter 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 and DoS (Denial of Service) Protection protect the router from cyber attacks.

The SPI Firewall can prevent cyber attacks and validate the traffic that is passing through the router based on the protocol. This function is enabled by default, and it's recommended to keep the default settings.

DoS Protection can protect your home network against DoS attacks from flooding your network with server requests. Follow the steps below to configure DoS Protection.

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Advanced](#) > [Security](#) > [Settings](#).

DoS Protection:

Enable DoS Protection

ICMP-FLOOD Attack Filtering:

UDP-FLOOD Attack Filtering:

TCP-FLOOD Attack Filtering:

Forbid Lan Ping

Forbid Wan Ping

[Save](#)

Blocked DoS Host List

[Refresh](#) [Delete](#)

	ID	IP Address	MAC Address
<input type="checkbox"/>	--	--	--

3. Enable [DoS Protection](#).
4. Set the level ([Off](#), [Low](#), [Middle](#) or [High](#)) of protection for [ICMP-FLOOD Attack Filtering](#), [UDP-FLOOD Attack Filtering](#) and [TCP-FLOOD Attack Filtering](#).
 - [ICMP-FLOOD Attack Filtering](#) - Enable to prevent the ICMP (Internet Control Message Protocol) flood attack.
 - [UDP-FLOOD Attack Filtering](#) - Enable to prevent the UDP (User Datagram Protocol) flood attack.
 - [TCP-FLOOD Attack Filtering](#) - Enable to prevent the TCP (Transmission Control Protocol) flood attack.

 **Tips:**

The level of protection is based on the number of traffic packets. The protection will be triggered immediately when the number of packets exceeds the preset threshold value (the value can be set on [Advanced > System Tools > System Parameters > DoS Protection Settings](#)), and the vicious host will be displayed in the [Blocked DoS Host List](#).

Blocked DoS Host List			
<input type="checkbox"/>	ID	IP Address	MAC Address
--	--	--	--

[Refresh](#) [Delete](#)

- If you want to ignore the ping packets from the WAN port, select [Forbid Wan Ping](#); if you want to ignore the ping packets from the LAN port, select [Forbid Lan Ping](#).
- Click [Save](#) to make the settings effective.

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?

- Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
- Go to [Advanced > Security > Access Control](#).
- Enable [Access Control](#).

Access Control	
Access Control:	<input checked="" type="checkbox"/>

- 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:	<input checked="" type="radio"/> Blacklist
	<input type="radio"/> Whitelist

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

Devices Online					
Refresh Block					
<input type="checkbox"/>	ID	Device Name	IP Address	MAC Address	Connection Type
<input type="checkbox"/>	1	Unknown	192.168.0.200	50:E5:49:1E:06:80	Wired

To allow specific device(s)

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

Access Mode	
Default Access Mode:	<input type="radio"/> Blacklist <input checked="" type="radio"/> Whitelist

- 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 [Devices Online](#) list if the device is connected to your network).

Devices in Whitelist					
+ Add - Delete					
<input type="checkbox"/>	ID	Device Name	MAC Address	Status	Modify
<input type="checkbox"/>	--	--	--	--	--

Device Name:

MAC Address:

[Enable](#)

<input type="checkbox"/>	1	ME-Unknown	50:E5:49:1E:06:80		
--------------------------	---	------------	-------------------	--	--

- 3) Select the checkbox to enable the entry and 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 a 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 the username and password you set for the router.
2. Go to [Advanced](#) > [Security](#) > [IP & MAC Binding](#).
3. Enable [IP & MAC Binding](#).

Settings

IP & MAC Binding:

Binding List

+ Add - Delete

<input type="checkbox"/>	ID	MAC Address	IP Address	Status	Enable	Modify
<input type="checkbox"/>	--	--	--	--	--	--

ARP List

Refresh Bind

<input type="checkbox"/>	ID	Device Name	MAC Address	IP Address	Bound	Modify
<input type="checkbox"/>	1	Unknown	50:E5:49:1E:06:80	192.168.0.200	Unloaded	

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

To bind the connected device(s)

- 1) Select the device(s) to be bound in the [ARP List](#).
- 2) Click [Bind](#) to add to the [Binding List](#).

To bind the unconnected device

- 1) Click [Add](#).

Binding List

+ Add - Delete

<input type="checkbox"/>	ID	MAC Address	IP Address	Status	Enable	Modify
<input type="checkbox"/>	--	--	--	--	--	--

MAC Address:

IP Address:

Enable

Cancel OK

- 2) Enter the **MAC address** and **IP address** that you want to bind.
- 3) Select the checkbox to enable the entry and click **OK**.

Done!

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

Chapter 10

NAT Forwarding

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

With forwarding feature the router can penetrate the isolation of NAT and allows the external hosts on the Internet to initiatively communicate with the devices in the local network, thus to realize some special functions.

TP-LINK router includes 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.

This chapter 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](#)

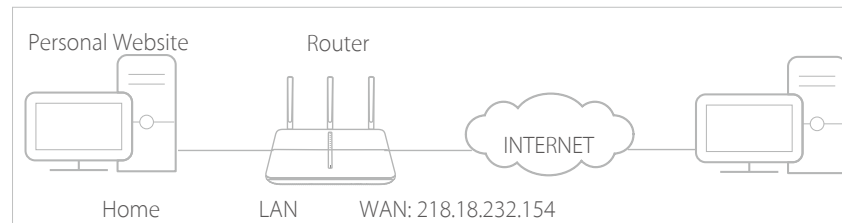
10. 1. Share Local Resources on the Internet by Virtual Servers

When you build up a server in the local network and want to share it on the Internet, Virtual Servers can realize the service and provide it to the 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 in your local network, such as HTTP, FTP, DNS, POP3/SMTP and Telnet. Different service uses different service port. 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 the username and password you set for the router.
3. Go to **Advanced > NAT Forwarding > Virtual Servers**. Click **Add**.

Virtual Servers

+ Add - Delete

<input type="checkbox"/>	ID	Service Type	External Port	Internal IP	Internal Port	Protocol	Status	Modify
--	--	--	--	--	--	--	--	--

Service Name: View Existing Applications

External Port: (XX-XX or XX)

Internal IP:

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

Protocol: ▼

Enable this Entry

Cancel
OK

4. Click [View Existing Applications](#) and select [HTTP](#). The [External Port](#), [Internal Port](#) and [Protocol](#) will be automatically filled with contents. Enter the PC's IP address 192.168.0.100 into the [Internal IP](#) field.

5. Click [OK](#).

 **Tips:**

1. 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.
2. 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.
3. 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:**

1. WAN IP should be a public IP address. For the WAN IP is assigned dynamically by ISP, it is recommended to apply and register a domain name for the WAN refer to [Set Up a Dynamic DNS Service Account](#). Then users on the Internet can use [http:// domain name](#) to visit the website.
2. 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 in 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 and video players, common applications include 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 the username and 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 [Triggering Protocol](#) will be automatically filled with contents. The following picture takes application [MSN Gaming Zone](#) as an example.
4. Click [OK](#).

Port Triggering

+ Add - Delete

<input type="checkbox"/>	ID	Application	Triggering Port	Triggering Protocol	External Port	External Protocol	Status	Modify
--	--	--	--	--	--	--	--	--

Application: MSN Gaming Zone [View Existing Applications](#)

Triggering Port: 47624 (XX)

Triggering Protocol: TCP

External Port: 2300-2400, 28800-29000 (XX or XX-XX or XX,XX-XX)

External Protocol: TCP

Enable this Entry

Cancel OK

Tips:

1. You can add multiple port triggering rules according to your network need.
2. The triggering ports can not be overlapped.
3. 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 in 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 hazard. 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 with all ports opened.

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 the username and 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.

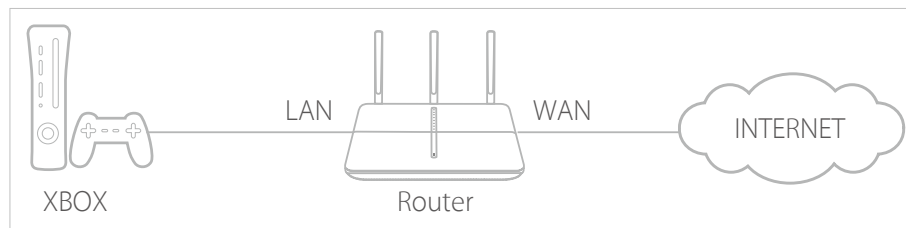
10.4. Make Xbox Online Games Run Smoothly by UPnP

UPnP (Universal Plug and Play) protocol allows the 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 both sides of NAT device can freely communicate with each other 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:

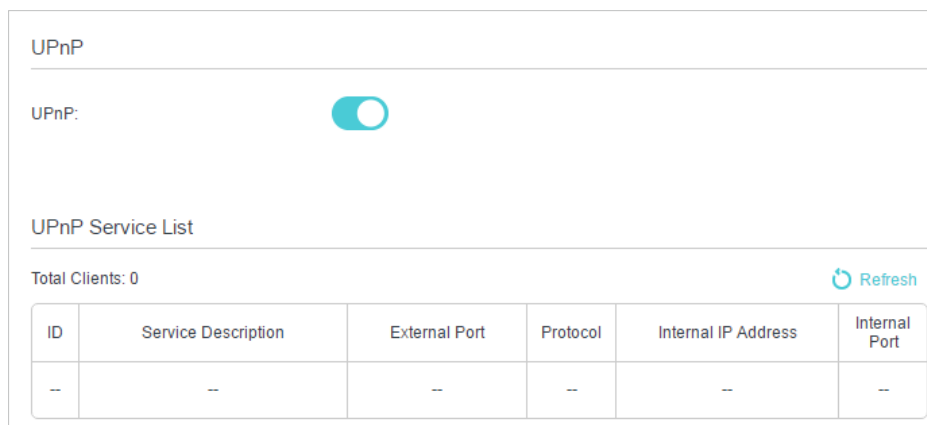
1. UPnP is enabled by default in this router.
2. Only the application supporting UPnP protocol can use this feature.
3. UPnP feature needs the support of operating system (e.g. Windows Vista/ Windows 7/ Windows 8, etc. Some of operating system need to install the UPnP components).

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 the username and password you set for the router.
2. Go to **Advanced > NAT Forwarding > UPnP** and toggle on or off according to your needs.



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.

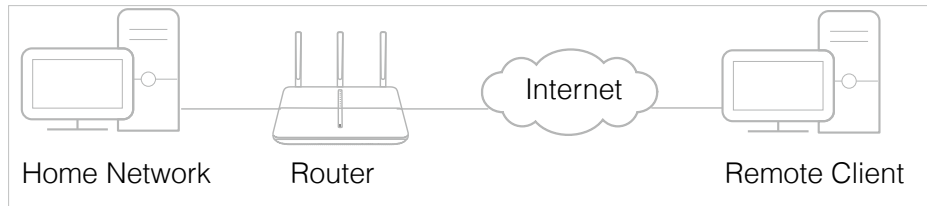
PPTP VPN is more easily used and its speed is faster, it's compatible with most operating systems and also supports mobile devices. Its security is poor and your packets may be cracked easily, and PPTP VPN connection may be prevented by some ISP.

This chapter contains the following sections, please choose the appropriate VPN server connection type according to your needs.

- [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 client 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 client. 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 the username and 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:

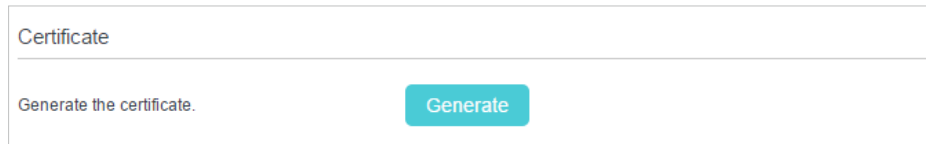
Client Access: Home Network Only Internet and Home Network

Save

Note:

1. 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.
2. 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 client connects, and the port number should be between 1024 and 65535.
5. In **VPN Subnet/Netmask** field, enter the range of IP addresses that can be leased to the client by the OpenVPN server.
6. Select your **Client Access** type., select **Home Network Only** if you only want the remote client to access your home network, select **Internet and Home Network** if the remote client also want to access Internet through VPN Server.

7. Click **Save**.
8. Click **Generate** to generate a new certificate.



Certificate

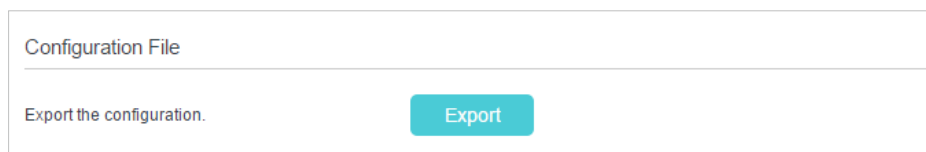
Generate the certificate.

Generate

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. Remote client will use this configuration file to access your router.



Configuration File

Export the configuration.

Export

Step 2. Configure OpenVPN Connection on Your Remote Client

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

Note:

You need to install the OpenVPN client utility on each client that you plan to use for VPN connections to your router. Mobile devices should download third-party app from Google Play or APP Store.

2. After the installation, copy the file exporting from your router to OpenVPN client utility's "config" folder (for Windows): `C:\Program Files\OpenVPN\config`. The path is depending on where the OpenVPN client utility is installed on.
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 client. To use the VPN feature, you should enable PPTP VPN Server on your router, and configure the PPTP connection on the remote client. 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 the username and 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: -10.7.0. (up to 10 clients)

Username:

Password:

[Save](#)

Note:

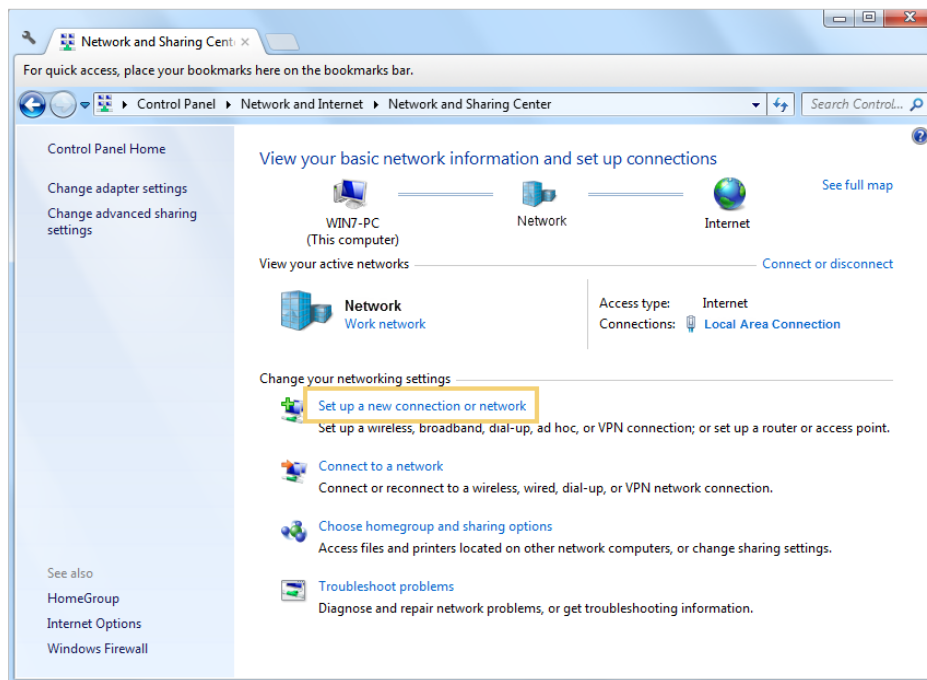
Before you enable VPN Server, we recommend you configure Dynamic DNS Service (recommended) or assign a static IP address for router's WAN port and synchronize your System Time with Internet.

3. In the **Client IP Address** field, enter the range of IP addresses (up to 10 clients) that can be leased to the client by the PPTP VPN server.
4. Enter the **Username** and **Password** to authenticate clients to the PPTP VPN server.
5. Click **Save**.

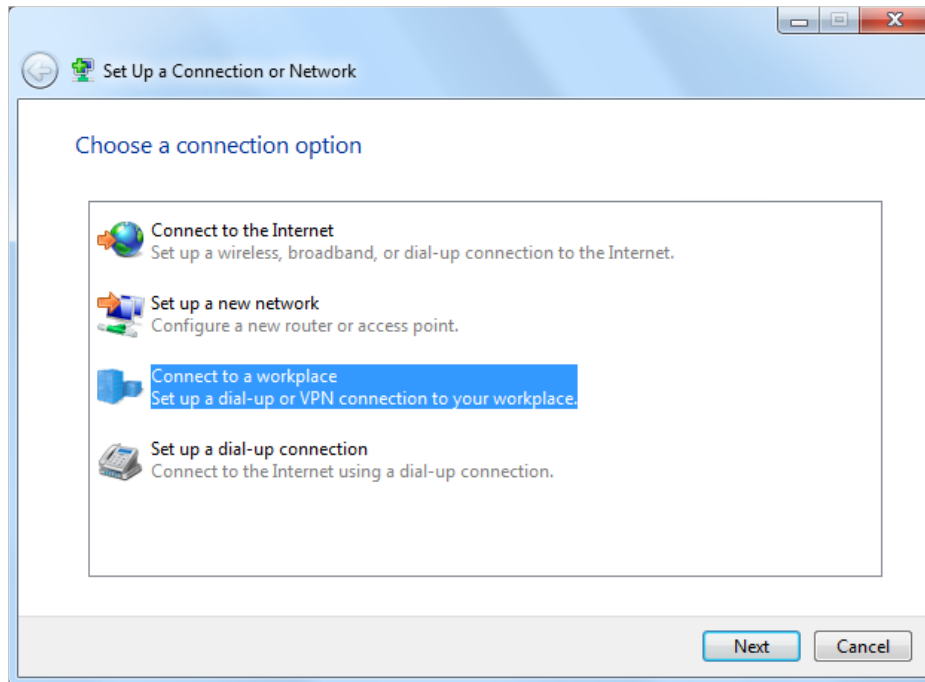
Step 2. Configure PPTP VPN Connection on Your Remote Client

Remote client can use Windows built-in PPTP software or third-party PPTP software to connect to PPTP Server. Here we use **Windows built-in PPTP software** as an example.

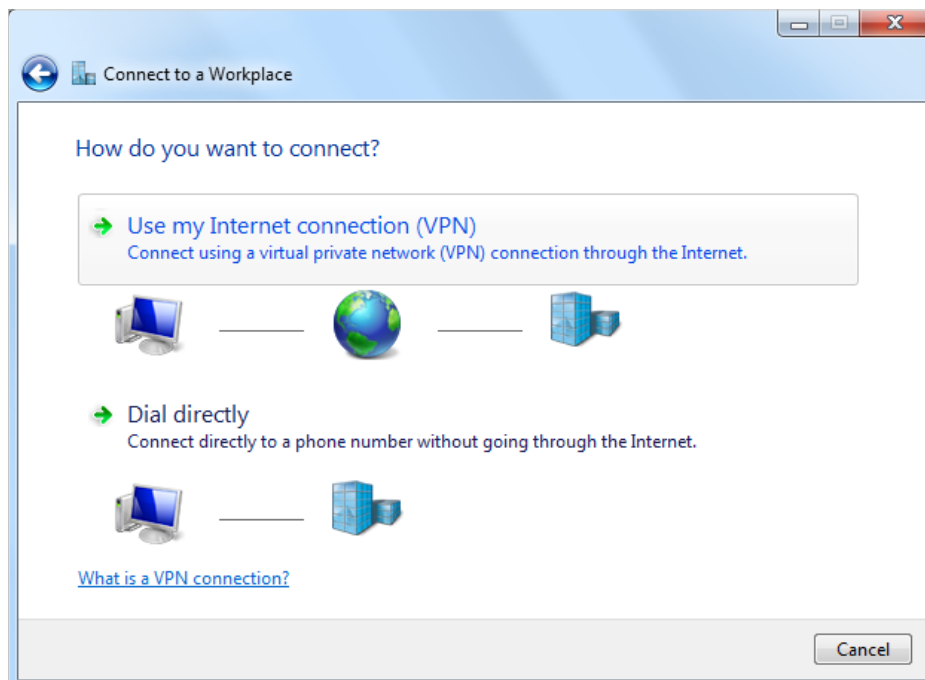
1. Go to **Start > Control Panel > Network and Internet > Network and Sharing Center**.
2. Select **Set up a new connection or network**.



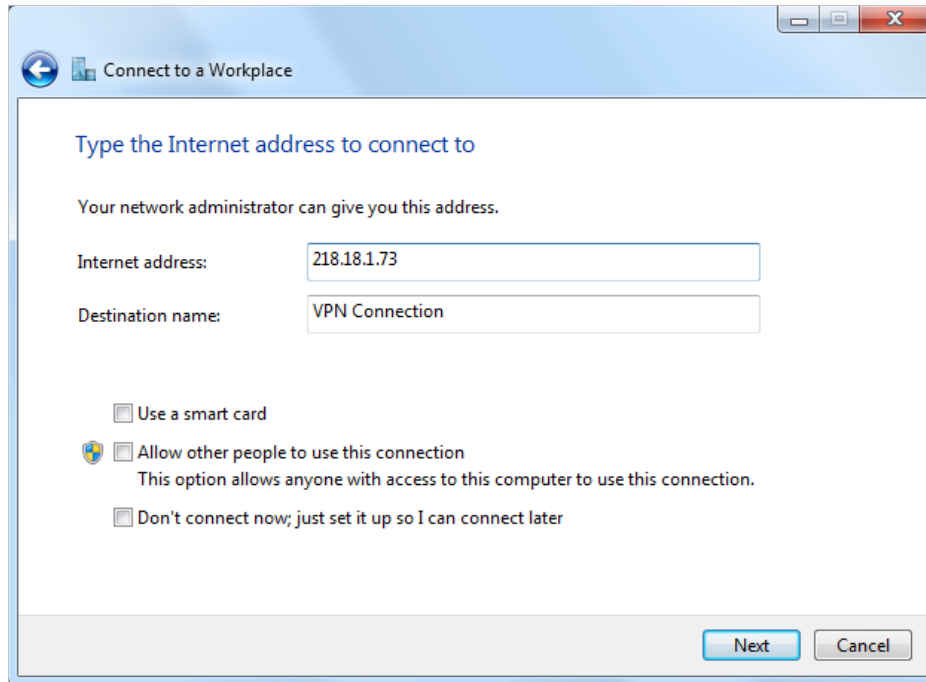
3. Select **Connect to a workplace** and click **Next**.



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

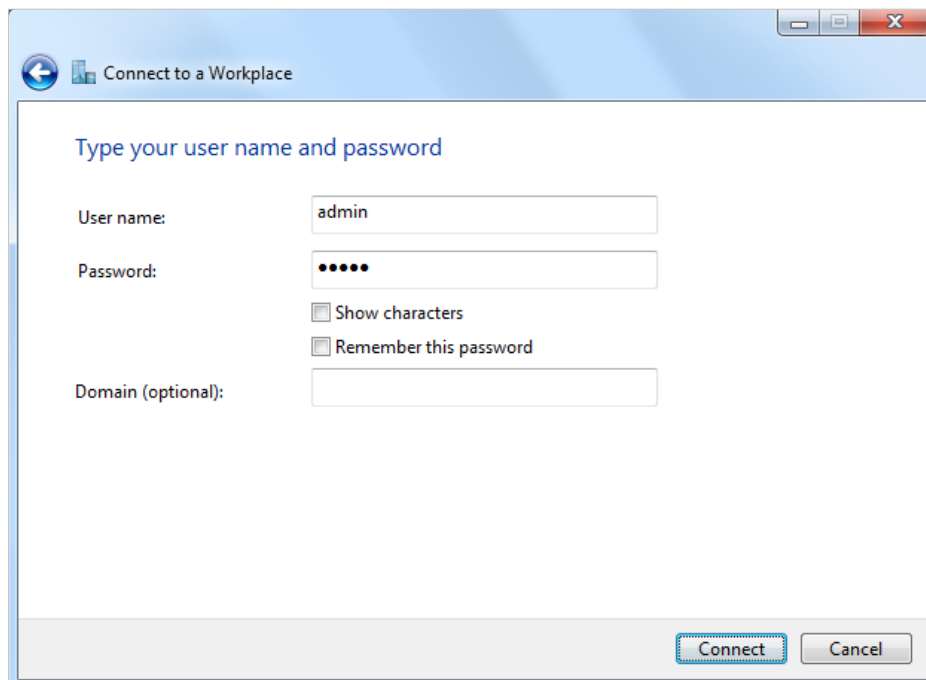


5. Enter the WAN IP address of the router (for example: 218.18.1.73) in the **Internet address** field. Click **Next**.



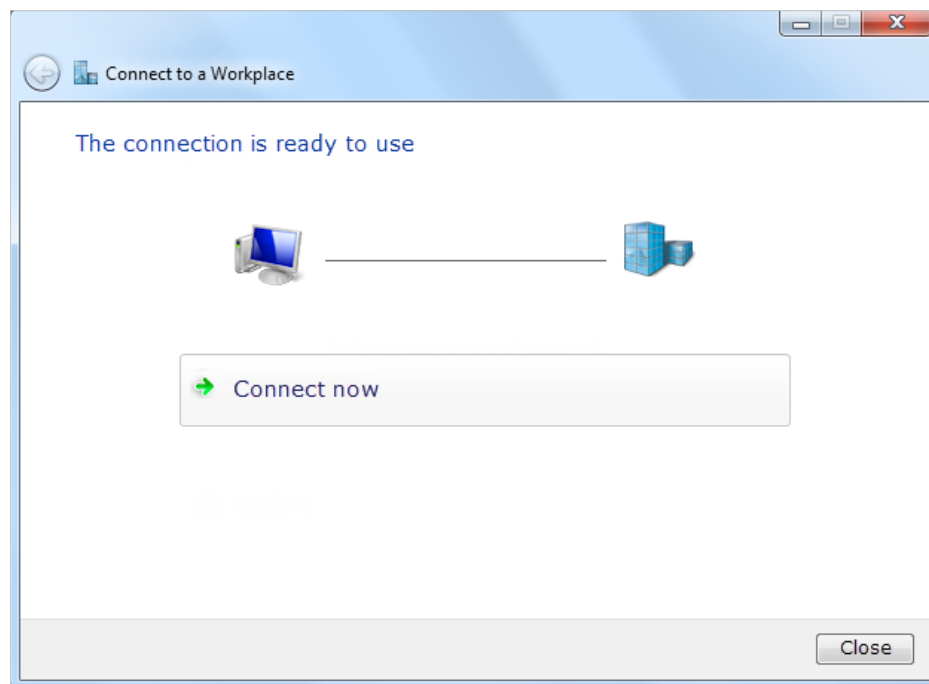
The screenshot shows a Windows dialog box titled "Connect to a Workplace". The main heading is "Type the Internet address to connect to". Below this, a message states: "Your network administrator can give you this address." There are two input fields: "Internet address:" containing "218.18.1.73" and "Destination name:" containing "VPN Connection". Below the fields are three checkboxes: "Use a smart card" (unchecked), "Allow other people to use this connection" (unchecked) with a sub-note "This option allows anyone with access to this computer to use this connection.", and "Don't connect now; just set it up so I can connect later" (unchecked). At the bottom right are "Next" and "Cancel" buttons.

6. Enter the **User name** and **Password**, it's the username and password you have set on your router, and click **Connect**.



The screenshot shows the same "Connect to a Workplace" dialog box, but at a different step. The heading is "Type your user name and password". There are three input fields: "User name:" containing "admin", "Password:" containing five dots, and "Domain (optional):" which is empty. Below the password field are two checkboxes: "Show characters" (unchecked) and "Remember this password" (unchecked). At the bottom right are "Connect" and "Cancel" buttons.

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 that are available for this router.

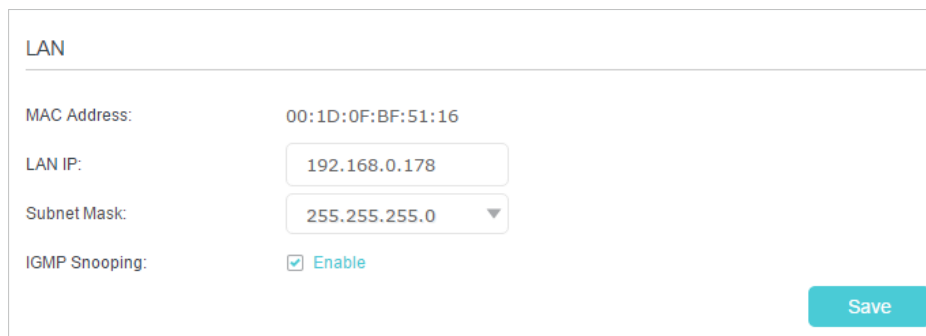
This chapter contains the following sections:

- [Change the LAN Settings](#)
- [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-based 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 the username and 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: 00:1D:0F:BF:51:16

LAN IP: 192.168.0.178

Subnet Mask: 255.255.255.0

IGMP Snooping: Enable

Save

4. Keep IGMP Snooping as enabled by default. IGMP Snooping is the process of listening to IGMP (Internet Group Management Protocol) network traffic. The function prevents hosts on a local network from receiving traffic for a multicast group they have not explicitly joined.

5. 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 them.

12.2. Configure to Support IPTV Service

IPTV is the abbreviation of Internet Protocol Television. The service can only be delivered through the Internet, and our router provides a specific LAN port for IPTV.

By automatically separating IPTV from Internet surfing, we guarantee you a high quality of video streaming and a high speed of Internet surfing.

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 the username and password you set for the router.
2. Go to [Advanced](#) > [Network](#) > [IPTV](#).
3. Configure IPTV settings:

The screenshot shows the 'IPTV Settings' configuration page. At the top, there is a title 'IPTV Settings'. Below it, the 'IPTV' section has a checked checkbox for 'Enable IPTV'. The 'Mode' dropdown is set to 'Bridge'. The 'IGMP Proxy' dropdown is set to 'V3'. There are four LAN port settings: LAN1 is set to 'IPTV', LAN2 is set to 'Internet', LAN3 is set to 'Internet', and LAN4 is set to 'Internet'. A blue 'Save' button is positioned at the bottom right of the configuration area.

- 1) Tick the [Enable IPTV](#) check box.
- 2) Select the appropriate [Mode](#) according to your ISP. Select [Bridge](#) if your ISP is not listed and no other parameters are required, and then skip to substep 4. Select [Custom](#) if your ISP is not listed but provides necessary parameters.
- 3) After you have selected a mode, the necessary parameters are predetermined. You can perform other configuration, e.g. enter the [IPTV Multicast Vlan ID](#) and select the [IPTV Multicast Vlan Priority](#) in [Russia](#) mode according to your ISP.
- 4) Select the [IGMP Proxy](#) version, either V2 or V3, according to the information provided by your ISP.
- 5) For [Russia](#), [Singapore-ExStream](#), [Malaysia-Unifi](#) and [Malaysia-Maxis](#) modes, connect the set-top box to the predetermined LAN port. For [Bridge](#) and [Custom](#) mode, select the [LAN](#) type and connect the set-top box to the corresponding port.
- 6) Click [Save](#).

Done!

Your IPTV setup is done now! You may need other configurations on your set-top box before enjoying your TV.

Tips

QoS and IPTV cannot be enabled at the same time.

12.3. Specify DHCP Server Settings

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

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

➤ **To specify the IP address that the router assigns**

DHCP Server

DHCP: Enable

IP Address Pool: 192.168.0.100 - 192.168.0.199

Address Lease Time: 1440 minutes. (1-2880. The default value is 1440.)

Default Gateway: 192.168.0.178 (Optional)

Primary DNS: 0.0.0.0 (Optional)

Secondary DNS: 0.0.0.0 (Optional)

Save

3. Make sure that [DHCP](#) is enabled.
4. Enter the starting and ending IP addresses in the [IP Address Pool](#).
5. Enter other parameters if the ISP offers, the [Default Gateway](#) is automatically filled and is the same as the LAN IP address of the router.
6. Click [Save](#) to make the settings effective.

➤ **To reserve an IP address for a specified client device**

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

The screenshot shows a window titled "Address Reservation". At the top right, there are "+ Add" and "- Delete" buttons. Below this is a table with the following columns: a checkbox, "MAC Address", "Reserved IP", "Description", "Status", and "Modify". The table contains one row with dashes "--" in each cell. Below the table, there are three input fields labeled "MAC Address:", "Reserved IP:", and "Description:". Below these fields is a checkbox labeled "Enable this entry" which is checked. At the bottom right, there are "Cancel" and "OK" buttons.

2. Enter the MAC address of the device for which you want to reserve IP address.
3. Specify the IP address which will be reserved by the router.
4. Enter the [Description](#) for the rule.
5. Tick the [Enable This Entry](#) checkbox and click [OK](#).

Note:

You can also appoint IP addresses within a specified range to devices of the same type by using [Condition Pool](#) feature. For example, you can assign IP addresses within the range (192.168.0.50 to 192.168.0.80) to Camera devices, thus facilitating the network management.

12.4. Set Up a Dynamic DNS Service Account

Most ISPs (Internet Service Providers) 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 any time and you don't know when it changes. In this case, you might need 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 domain name, in no need of 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.

To set up DDNS, please follow the instructions below:

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Advanced](#) > [Network](#) > [Dynamic DNS](#).
3. Select the DDNS [Service Provider](#) (DynDNS or NO-IP). If you don't have a DDNS account, select a service provider and click [Go to register](#).

Dynamic DNS Settings

Service Provider: **Dyndns** NO-IP [Go to register..](#)

Username:

Password:

Domain Name:

Disconnected

4. Enter the username, password and domain name of the account (such as example.ddns.net).

5. Click [Login](#), then click [Save](#).

 **Tips:**

If you want to use a new DDNS account, please [Logout](#) first, then login with the new account.

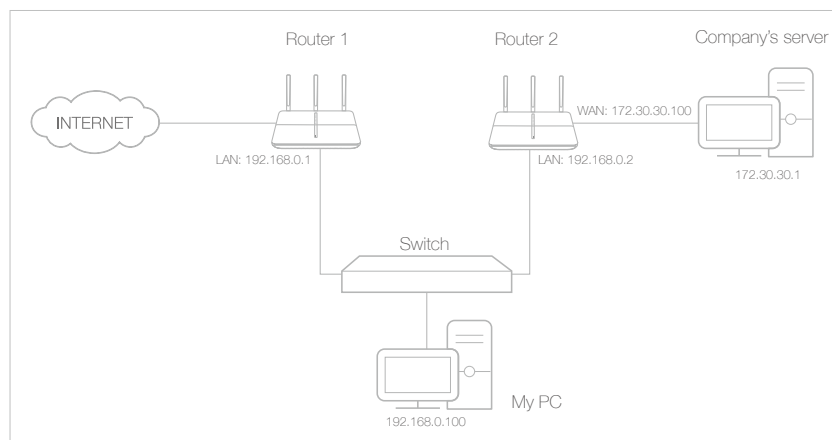
12.5. Create Static Routes

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

I want to:

Visit multiple networks and multiple servers at the same time.

For example, in a small office, my PC can surf the Internet, but I also want to visit my company's network. Now I have a switch and another router. I connect the devices as shown in the following figure so that the physical connection between my PC and my company's server is achieved. 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 router's LAN IP addresses to two different IP addresses on the same subnet. Disable Router 2's DHCP function.
2. Visit <http://tplinkwifi.net>, and log in with the username and password you've set for the router.
3. Go to [Advanced > Network > Advanced Routing](#).
4. Click [Add](#) and finish the settings according to the following explanations:

Static Routing

<input type="checkbox"/>	ID	Destination IP	Subnet Mask	Gateway	Enable	Modify
--	--	--	--	--	--	--

Destination IP: 172.30.30.1

Subnet Mask: 255.255.255.255

Gateway: 192.168.0.2

Interface: LAN

Status: Enabled

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 the router. In the example, the IP address of the company network is the destination IP address, so here enters 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 enters 255.255.255.255.

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 the data. In the example, the data packets will be sent to the LAN port of Router 2 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 the data packets. In the example, the data is sent to the gateway through the LAN port, so LAN should be selected.

Status: Determines the status of the entry. In the example, Enabled should be selected.

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

System Routing Table				
ID	Destination Network	Subnet Mask	Gateway	Interface
1	172.30.30.1	255.255.255.255	192.168.0.2	LAN & WLAN
2	192.168.0.0	255.255.255.0	0.0.0.0	LAN & WLAN

Done!

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

12.6. 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 product label. You can customize the wireless settings according to your needs.

Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.

➤ To enable or disable the wireless function of 2.4GHz or 5GHz:

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 clear the **Enable** 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 **Wireless Network Name (SSID)** and customize the password for the network in **Password**. The default SSID is TP-LINK_XXXX for 2.4GHz and TP-LINK_XXXX_5G for 5GHz, and the value is case-sensitive.

Note:

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

➤ To hide SSID of 2.4GHz or 5GHz:

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

➤ To use the smart connect function

The smart connect function helps devices run faster by assigning them to best wireless bands based on actual conditions to balance network demands.

1. Go to [Advanced](#) > [Wireless](#) > [Wireless Settings](#).
2. Select the [Smart Connect](#) checkbox, and click [Save](#).
3. Keep the default or set a new SSID and password, and click [Save](#).

This SSID and password will be applied for 2.4GHz and 5GHz wireless networks.

The screenshot shows a web interface for network settings. The top section is titled "Smart Connect" and contains a checkbox labeled "Smart Connect" which is checked and labeled "Enable". A teal "Save" button is located to the right. Below this is a section titled "Wireless" with several settings: "Wireless Radio" is checked and labeled "Enable"; "Wireless Network Name (SSID)" is a text input field containing "TP-LINK_5116" and a "Hide SSID" checkbox; "Security" is a dropdown menu showing "WPA/WPA2 Personal(Recommended)"; "Version" has radio buttons for "Auto" and "WPA2-PSK" (which is selected); "Encryption" has radio buttons for "Auto", "TKIP", and "AES" (which is selected); "Password" is a text input field containing "69560736"; and "Transmit Power" has radio buttons for "Low", "Middle", and "High" (which is selected). A second teal "Save" button is at the bottom right.

➤ To change the security option:

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

Wireless 2.4GHz | 5GHz

Wireless Radio: Enable

Wireless Network Name (SSID): Hide SSID

Security: ▼

Version: Auto WPA2-PSK

Encryption: Auto TKIP AES

Password:

Mode: ▼

Channel: ▼

Channel Width: ▼

Transmit Power: Low Middle High

2. Select the wireless network [2.4GHz](#) or [5GHz](#).
3. Select an option from the [Security](#) drop down list. The router provides four security options, No Security, WPA/WPA2 - Personal (Recommended), WPA/WPA2 - Enterprise and WEP. 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. [802.11b/g/n mixed](#), [802.11g/n mixed](#) or [802.11n only](#) for [2.4GHz](#); and [802.11a/n/ac mixed](#), [802.11n/ac mixed](#) or [802.11ac only](#) for [5GHz](#). 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](#).

12.7. Use WPS for Wireless Connection

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

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Advanced](#) > [Wireless](#) > [WPS](#) .

12.7.1. Set 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.

Note:

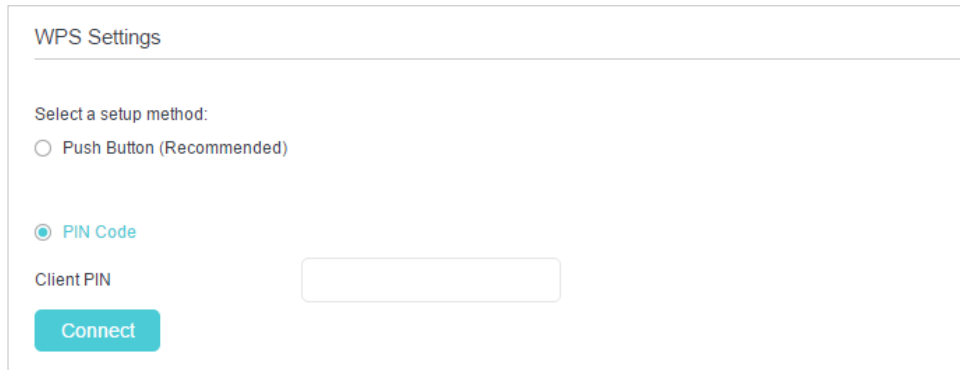
1. If you want to enable/disable the WPS feature, go to [Advanced](#) > [System Tools](#) > [System Parameters](#) > [WPS](#), select or clear the [Enable WPS](#) check box, by default it is enabled.
2. PIN (Personal Identification Number) is an eight-character identification number preset to each router. WPS supported devices can connect to your router with the PIN. The default PIN is labeled on the bottom of the router.

12.7.2. Use the WPS Wizard for Wi-Fi Connections

1. Select a setup method:

- **Push Button(Recommended):** Click the [Connect](#) button on the screen. Within two minutes, push the WPS button on the client device.

- **PIN:** Enter the client's PIN, and click [Connect](#).



WPS Settings

Select a setup method:

Push Button (Recommended)

PIN Code

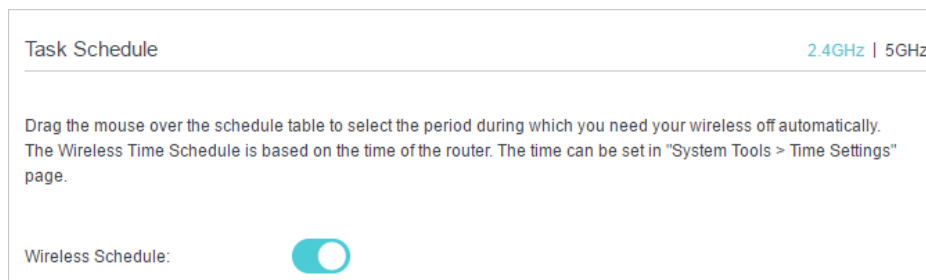
Client PIN

2. **Success** will appear on the above screen and the WPS LED on the router will keep on for five minutes if the client has been successfully added to the network.

12.8. Schedule Your Wireless Function

You can schedule to automatically turn off your 2.4GHz, 5GHz, or both wireless networks at a specific time when you do not need the wireless connection.

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **Advanced > Wireless > Wireless Schedule**.
3. Select **2.4GHz** or **5GHz** to change the corresponding settings, then toggle on to enable the Wireless Schedule feature.



Task Schedule 2.4GHz | 5GHz

Drag the mouse over the schedule table to select the period during which you need your wireless off automatically. The Wireless Time Schedule is based on the time of the router. The time can be set in "System Tools > Time Settings" page.

Wireless Schedule:

4. Set the Effective Time. Drag the cursor over the cells to choose the period during which you need the wireless off automatically, and click **OK**.

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
0:00							
1:00							
2:00							
3:00							
4:00							
5:00							
6:00							
7:00		Effective Time	Effective Time	Effective Time	Effective Time	Effective Time	
8:00		Effective Time	Effective Time	Effective Time	Effective Time	Effective Time	
9:00		Effective Time	Effective Time	Effective Time	Effective Time	Effective Time	
10:00		Effective Time	Effective Time	Effective Time	Effective Time	Effective Time	
11:00		Effective Time	Effective Time	Effective Time	Effective Time	Effective Time	
12:00		Effective Time	Effective Time	Effective Time	Effective Time	Effective Time	
13:00		Effective Time	Effective Time	Effective Time	Effective Time	Effective Time	
14:00		Effective Time	Effective Time	Effective Time	Effective Time	Effective Time	
15:00		Effective Time	Effective Time	Effective Time	Effective Time	Effective Time	
16:00		Effective Time	Effective Time	Effective Time	Effective Time	Effective Time	
17:00		Effective Time	Effective Time	Effective Time	Effective Time	Effective Time	
18:00							
19:00							
20:00							
21:00							
22:00							
23:00							
24:00							

Effective Time

Restore Save

5. Click [Save](#).

6. If you also want to set wireless off time for the other band, please repeat the steps above.

Note:

1. 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.
2. The wireless LED will be off if the corresponding wireless network is disabled.
3. 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.

This chapter includes the following sections:

- [Set Up System Time](#)
- [Test the Network Connectivity](#)
- [Upgrade the Firmware](#)
- [Backup and Restore Configuration Settings](#)
- [Change the Administrator Account](#)
- [Local Management](#)
- [Remote Management](#)
- [System Log](#)
- [SNMP Settings](#)
- [Monitor the Internet Traffic Statistics](#)
- [Control LEDs](#)

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 and Wireless Schedule. You can manually set how to get the system time.

Follow the steps below to set your system time.

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Advanced](#) > [System Tools](#) > [Time Settings](#) page.

The screenshot shows the 'Time Settings' configuration page. It includes a dropdown menu for 'Time Zone' set to '(GMT+08:00) Beijing, Hong Kong, Perth, Singapore'. The 'Date' field is set to '7/8/2016' with '(MM/DD/YY)' as a placeholder. The 'Time' field is set to '15 : 8 : 23'. There are two 'NTP Server' fields, both set to '0.0.0.0' and marked as '(optional)'. At the bottom, there are three buttons: 'Get from PC', 'Get GMT', and 'Save'.

3. Configure the system time using the following methods :

Manually: Select your time zone and enter your local time.

Get from PC: Click this button if you want to use the current managing PC's time.

Get GMT: Click this button if you want to get time from the Internet. Make sure your router can access the Internet before you select this way to get system time.

4. Click [Save](#) to make your settings effective.
5. After setting the system time, you can set [Daylight Saving Time](#) according to your needs. Tick the checkbox to enable [Daylight Saving Time](#), set the start and end time and then click [Save](#) to make the settings effective.

The screenshot shows the 'Daylight Saving Time' configuration page. It features a checkbox labeled 'Enable Daylight Saving Time' which is checked. Below this, there are two rows for 'Start' and 'End' times. Each row includes a year field (set to 2016), a month dropdown (Mar for Start, Oct for End), a day dropdown (Last), a week dropdown (W), a day-of-week dropdown (Sun), and a time dropdown (02:00 for Start, 03:00 for End). A 'Save' button is located at the bottom right.

13.2. 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 the username and 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 [Target IP Address/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, test timeout time, or max hop. 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](#).

```

traceroute 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

```

13.3. Upgrade the Firmware


TP-LINK is dedicated to improving and enriching the product features, giving you a better network experience.

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 TP-LINK's official website, you can download it from the [Support](#) page of our website www.tp-link.com for free.

Note:

1. Make sure that you have a stable connection between the router and your computer. It is NOT recommended to upgrade the firmware wirelessly.
2. Make sure you remove any USB storage device connected to the router before the firmware upgrade to prevent data loss.
3. Back up your router configuration before upgrading the firmware.
4. Do NOT turn off the router during the firmware upgrade.

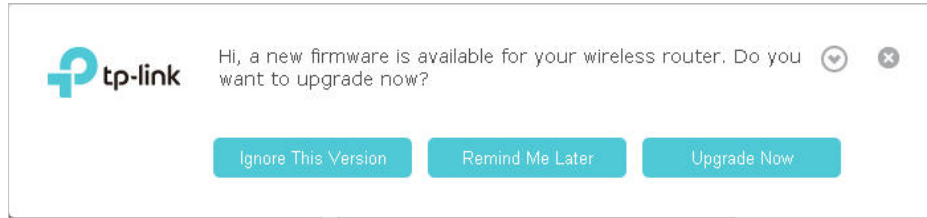
13.3.1. Online Upgrade

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. If there's any firmware update available for your router, the update icon  will display on the top-right corner of the page. Click the icon to go to the [Firmware Upgrade](#) page.
3. Alternatively, you can go to [Advanced](#) > [System Tools](#) > [Firmware Upgrade](#), and click [Check for Upgrades](#) to see if there's any new firmware.



Tips:

If there's any new important firmware update for your router, you will see the notification (similar as shown below) on your computer when open a new web page. Click [Upgrade now](#), and log into the web management page. You will see the [Firmware Upgrade](#) page.



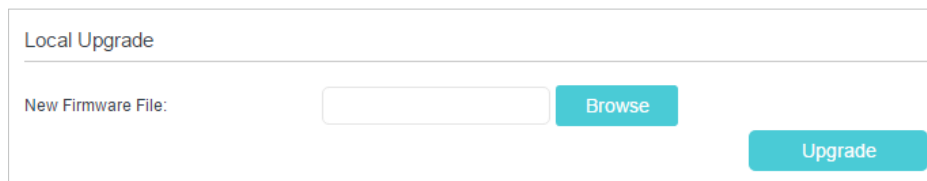
4. Focus on the **Online Upgrade** section, and click **Upgrade**.



5. Wait a few moments for the upgrading and rebooting.

13.3.2. Local Upgrade

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router. Go to **Advanced > System Tools > Firmware Upgrade**.
2. Find your router's Hardware Version in the Device Information section. Download the latest firmware file matched with the Hardware Version from our website www.tp-link.com.
3. Focus on the **Local Upgrade** section. Click **Browse** to locate the downloaded new firmware file, and click **Upgrade**.



4. Wait a few moments for the upgrading and rebooting.

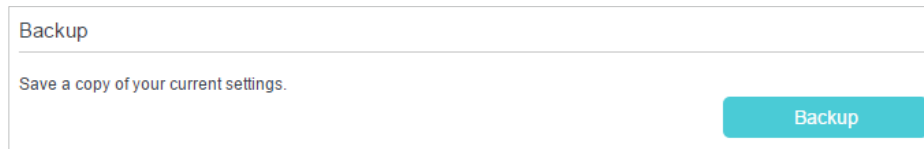
13.4. Backup and Restore Configuration Settings

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 the username and password you set for the router.
2. Go to **Advanced > System Tools > Backup & Restore**.

➤ **To backup configuration settings:**

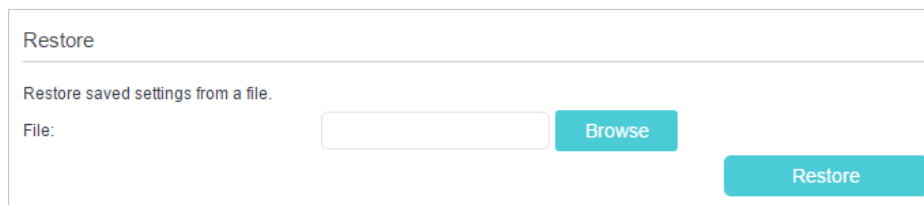
Click [Backup](#) to save a copy of the current settings to your local computer. A '.bin' file of the current settings will be stored to your computer.



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. To the right of this text 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](#).



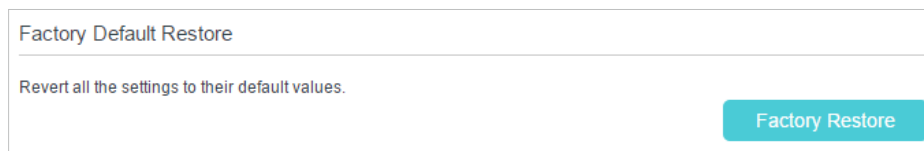
The screenshot shows a web interface titled "Restore". Below the title is a horizontal line. Underneath, the text "Restore saved settings from a file." is displayed. Below this text is a label "File:" followed by an empty text input field. To the right of the input field is a teal button labeled "Browse". Further to the right is another teal button labeled "Restore".

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

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

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

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



The screenshot shows a web interface titled "Factory Default Restore". Below the title is a horizontal line. Underneath, the text "Revert all the settings to their default values." is displayed. To the right of this text is a teal button labeled "Factory Restore".

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

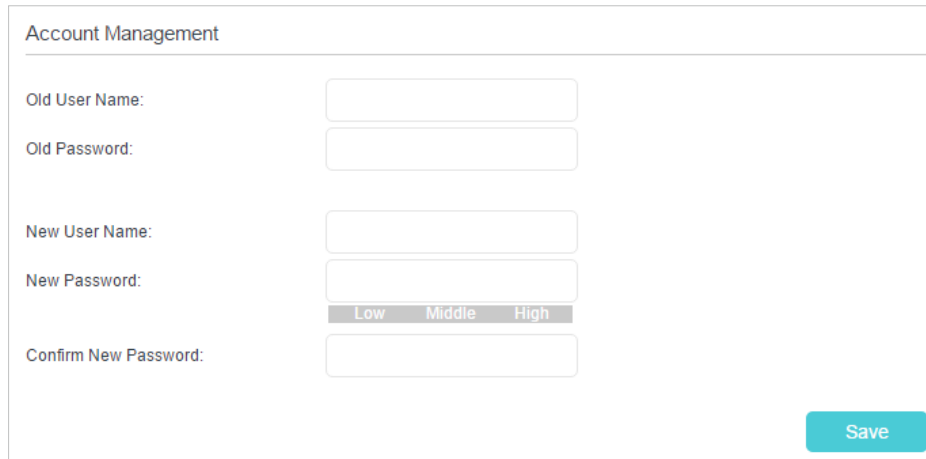
■ **Note:**

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

13.5. Change the Administrator Account

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

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



Account Management

Old User Name:

Old Password:

New User Name:

New Password:

Low Middle High

Confirm New Password:

Save

3. Enter the old username and old password. Enter the new username and enter the new password twice (both case-sensitive). Click [Save](#).
4. Use the new username and password for the following logins.

13.6. Local Management

You can control the local devices' authority to manage the router via Local Management feature. By default all local connected devices are allowed to manage the router. You can also allow only one device to manage the router.

Follow the steps below to specify the local management.

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Advanced](#) > [System Tools](#) > [Administration](#) page. Locate the [Local Management](#) section.
3. Keep the [Port](#) as the default setting. Enter the IP address or MAC address of the local device to manage the router.

Note:

1. The IP address of the local device must be in the same subnet as the router's LAN IP address.
2. If you want that all local devices can manage the router, just leave the [IP/MAC Address](#) field blank.

4. Click [Save](#) to make the settings effective. Now only the device using the IP address or MAC address you set can manage the router.

13.7. Remote Management

By default, the remote devices are not allowed to manage the router from the Internet. Follow the steps below to allow remote devices to manage the router.

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

3. Tick the checkbox to enable [Remote Management](#).
4. Keep the [Port](#) as the default setting. Enter the IP address or MAC address of the remote device to manage the router.

Note: If you want that all remote devices can manage the router, just leave the [IP/MAC Address](#) field blank.

5. Click [Save](#) to make the settings effective. Now, only the device using the IP address or MAC address you set can log in to <http://router's Internet IP address:port number> (such as <http://113.116.60.229:80>) to manage the router remotely.

Tips:

1. You can find the Internet IP address of the router on [Basic](#) > [Network Map](#) > [Internet](#).
2. The router's Internet 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.

13.8. System Log

System Log can help you know what happened to your router, facilitating you to locate the malfunctions. For example when your router does not work properly, you will need to save the system log and send it to the technical support for troubleshooting.

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Click [Advanced](#) > [System Tools](#) > [System Log](#) page.

The screenshot shows the 'System Log' interface. At the top, there are two dropdown menus: 'Type' set to 'ALL' and 'Level' set to 'Debug'. To the right of these are 'Refresh' and 'Delete All' buttons. Below is a table with the following data:

ID	Time	Type	Level	Log Content
1	2015-12-31 16:23:06	HTTPD	Notice	Clear log.

At the bottom of the interface are two buttons: 'Log Settings' and 'Save Log'.

➤ To view the system logs:

1. Select the log Type. Select [ALL](#) to view all kinds of logs, or select a specific type to view the specific logs.
2. Select the log Level and you will see the logs with the specific or higher levels.
3. Click [Refresh](#) to refresh the log list.

➤ To save the system logs:

You can choose to save the system logs to your local computer or a remote server.

Click [Save Log](#) to save the logs in a txt file to your computer.

Click [Log Settings](#) to set the save path of the logs.

Log Settings

Save Locally

Minimum Level: Information

Save Remotely

Minimum Level: Warning

Server IP: 192.168.0.100

Server Port: 514

Local Facility Name: User

Back Save

- **Save Locally:** Select this option to cache the system log to the router's local memory, select the minimum level of system log to be saved from the drop-down list. The logs will be shown in the table in descending order on the System Log page.
- **Save Remotely:** Select this option to send the system log to a remote server, select the minimum level of system log to be saved from the drop-down list and enter the information of the remote server. If the remote server has a log viewer client or a sniffer tool implemented, you can view and analyze the system log remotely in real-time.

13.9. SNMP Settings

SNMP (Simple Network Management Protocol) has been widely applied in the computer networks currently, which is used for ensuring the transmission of the management information between two nodes. In this way, network administrators can easily search and modify the information on any node on the network. Meanwhile, they can locate faults promptly and implement the fault diagnosis, capacity planning and report generating.

An **SNMP Agent** is an application running on the router that performs the operational role of receiving and processing SNMP messages, sending responses to the SNMP manager, and sending traps when an event occurs. So a router contains SNMP "agent" software can be monitored and/or controlled by SNMP Manager using SNMP messages.

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to **Advanced > System Tools > SNMP Settings** page.

- **Enable SNMP Agent:** Toggle On to enable the built-in SNMP agent that allows the router to operate as the operational role in receiving and processing of SNMP messages, sending responses to the SNMP manager, and triggering SNMP traps when an event occurs.
- **Read-only Community:** Displays the default public community string that protects the router from unauthorized access.
- **Write Community:** Displays the default read and write community string that protects the router from unauthorized changes.
- **System Name:** Displays the administratively-assigned name for this managed device.
- **System Description:** Displays the textual description of the managed device. This value should include the full name and version identification of the system's hardware type, software operating-system, and networking software.
- **System Location:** Displays the physical location of this device (e.g., telephone closet, 3rd floor).
- **System Contact:** Displays the textual identification of the contact person for this managed device, together with information on how to contact this person.
- **Trap Manager IP:** Displays the IP address of the host to receive the traps.

You are suggested to keep the default settings. Click **Save** to make the settings effective.

13. 10. Monitor the Internet Traffic Statistics

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

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.

2. Go to [Advanced](#) > [System Tools](#) > [Traffic Statistics](#).
3. Enable traffic statistics, and then you can monitor the traffic statistics in [Traffic Statistics List](#) section.

Traffic Statistics

Enable Traffic Statistics:

Traffic Statistics List

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

IP Address/MAC Address	Total Packets	Total Bytes	Current Packets	Current Bytes	Current ICMP Tx	Current UDP Tx	Current SYN Tx	Modify
192.168.0.154 BC:6C:21:9E:2B:35	12	976	0	0	0	0	0	Refresh Delete

Click [Refresh](#) to update the statistic information on the page.

Click [Reset All](#) to reset all statistic values in the list to zero.

Click [Delete All](#) to delete all statistic information in the list.

Click [Refresh](#) to reset the statistic information of the specific device.

Click [Delete](#) to delete the specific device item in the list.

13. 11. Control LEDs

The router LEDs indicate router activities and behavior. You can turn on or turn off the router from the management web-page.

1. Visit <http://tplinkwifi.net>, and log in with the username and password you set for the router.
2. Go to [Advanced](#) > [System Tools](#) > [System Parameters](#).
3. In the [Led](#) section, enable [Night Mode](#).
4. Specify the [Period of Night Mode](#) according to your need, and the LEDs will be off during this period.
5. Click [Save](#) to make the settings effective.

LED

Night Mode: [Enable](#)

Period of Night Time: : -- : (HH:MM)

Note: The time is based on the router's time, which can be set in "System Tools > Time Settings"

[Save](#)

FAQ

Q1. What can I do if I forgot my wireless password?

If it is your first time to connect the wireless network, use the password labeled at the bottom of the router. If the password has been altered, please connect the router to the computer using a cable and follow the steps below:

1. Visit <http://tplinkwifi.net>.
2. Go to **Advanced > Wireless > Wireless Settings**, locate the password , and mark down your new password for future use.

Q2. How to retrieve the default username and password of the web management page (without resetting the router) ?

The default username and password of the web management page are **admin** (in lower case).

If you have altered the username and password:

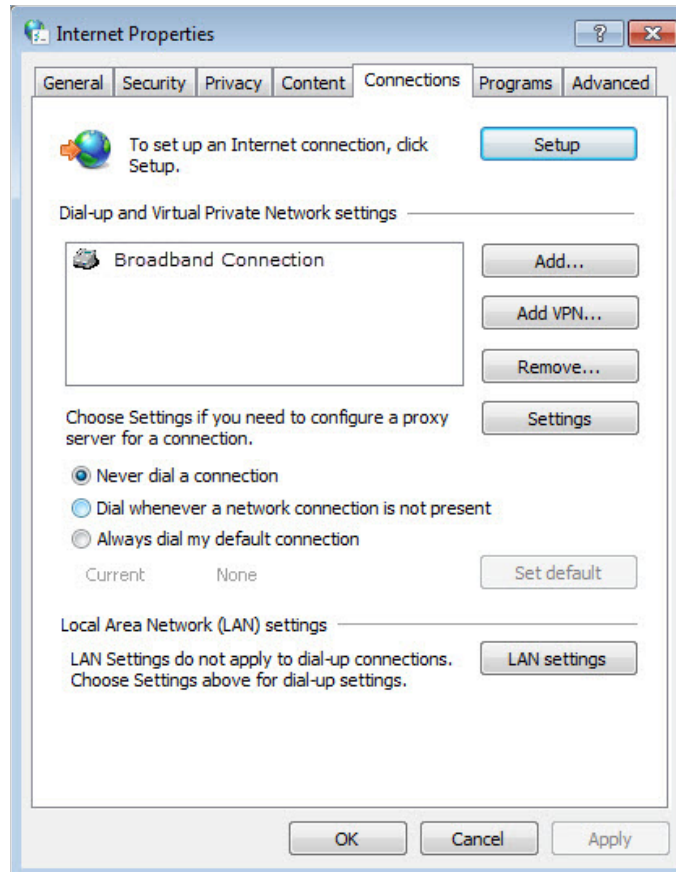
1. Reset the router to factory default settings.
2. Visit <http://tplinkwifi.net>, enter **admin** (in lower case) as both username and password to login.

Note: 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.

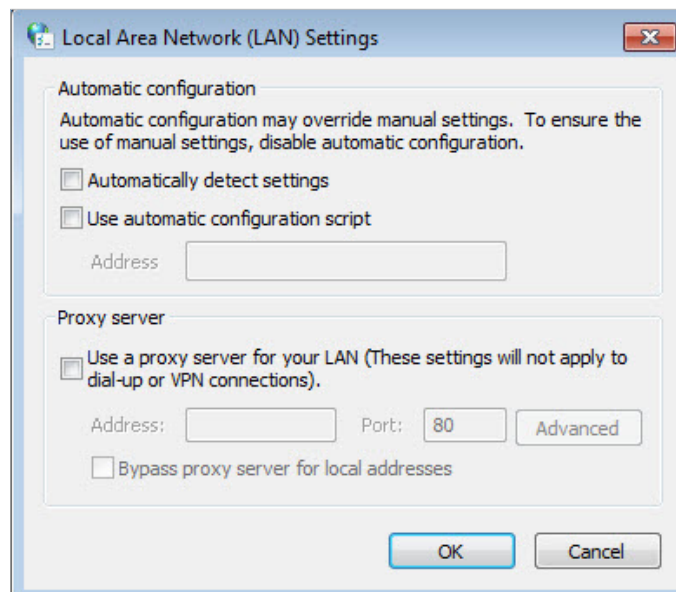
Q3. I cannot log into the router's web management page, what can I do?

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

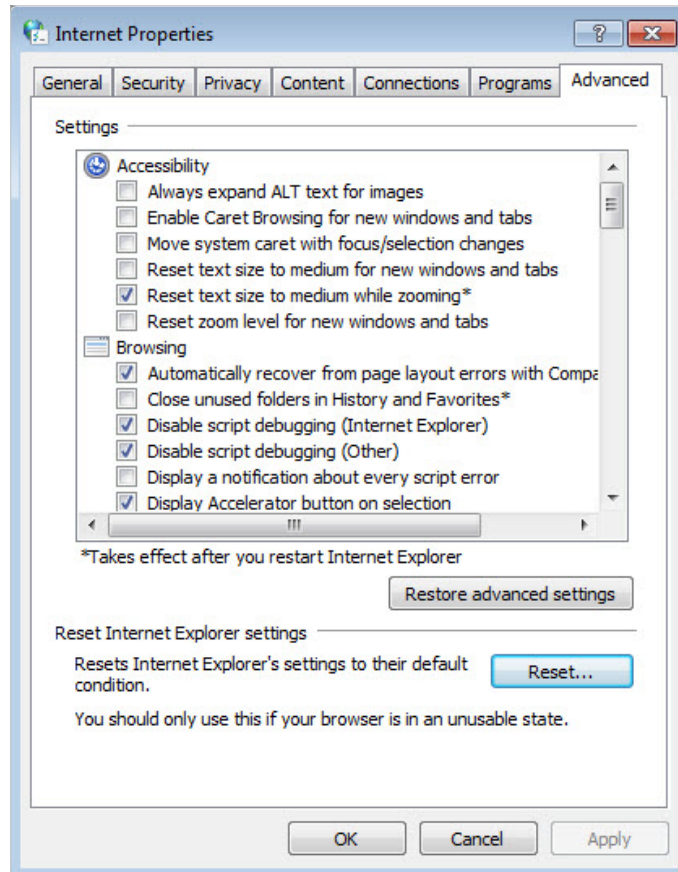
- Make sure the router connect to the computer correctly and the corresponding LED indicator(s) light up.
- Make sure the IP address of your computer is configured as **Obtain an IP address automatically** and **Obtain DNS server address automatically**.
- Make sure you enter the correct address to log in: <http://tplinkwifi.net>.
- 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 login 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.I cannot access the Internet even though the configuration is finished, what can I do?

1. Visit <http://tplinkwifi.net>.
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:	00:0A:EB:13:09:6A
IP Address:	113.118.136.40
Subnet Mask:	255.255.255.255
Default Gateway:	113.118.136.1
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 DNS server.

1) Go to [Advanced](#) > [Network](#) > [DHCP Server](#).

2) Enter 8.8.8.8 as Primary DNS, click [Save](#).

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

DHCP Server

DHCP: [Enable](#)

IP Address Pool: -

Address Lease Time: minutes. (1-2880. The default value is 1440.)

Default Gateway: (Optional)

Primary DNS: (Optional)

Secondary DNS: (Optional)

[Save](#)

- Power cycle the modem and the TP-LINK router.
 - Power off your modem and TP-LINK router, leave them off for 1 minute.
 - Power on your modem first, wait about 2 minutes until it gets a solid cable or Internet light.
 - Power back TP-LINK router.
 - 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 with the help of [Upgrade the Firmware](#).

- 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 IPv4 IPv6	
MAC Address:	00:1D:0F:BF:51:17
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:	Dynamic IP

- 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 the username and password you set for the router.
 - 2) Go to **Advanced > Network > Internet** and focus on the **MAC Clone** section.
 - 3) Choose an option to your need (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

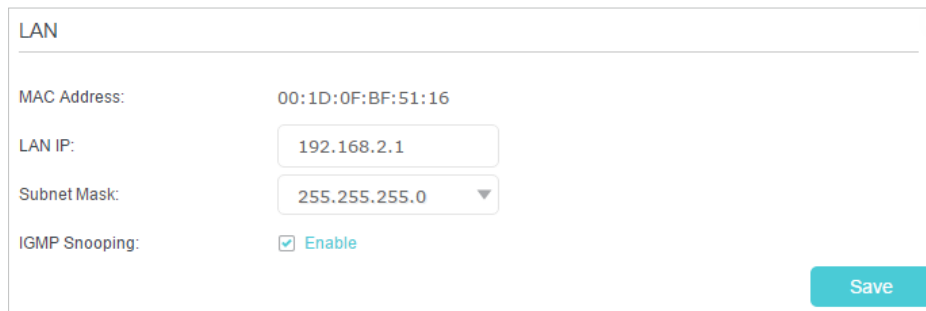
Tips:

- 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, it may conflict with the IP range of your existent ADSL modem/router. If so, the router is not able to communicate with your modem and cause 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 the username and password you've 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: 00:1D:0F:BF:51:16

LAN IP: 192.168.2.1

Subnet Mask: 255.255.255.0

IGMP Snooping: Enable

Save

- Power cycle the modem and the TP-LINK router.
 - 1) Power off your modem and TP-LINK router, leave them off for 1 minute.
 - 2) Power on your modem first, wait about 2 minutes until it get a solid cable or Internet light.
 - 3) Power back TP-LINK 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 the username and password you've set for the router.
 - 3) Go to [Advanced](#) > [Network](#) > [Internet](#).
 - 4) Select your [Internet Connection Type](#) and fill in other parameters with the help of page tips.
 - 5) Click [Save](#).

WAN Interface

Internet Connection Type: Dynamic IP

IP Address:

Subnet Mask:

Default Gateway:

Renew Release

Dynamic IP

Static IP

PPPoE

L2TP

PPTP

Advanced

MAC Clone

Use Default MAC Address

Use Current Computer MAC Address

Use Custom MAC Address

Save

6) Power cycle the modem and the TP-LINK router again.

- Please refer to [Upgrade the Firmware](#) to upgrade the firmware of the router.

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

Q5. I cannot find my wireless network or I cannot connect the wireless network, what can I do?

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) Clicking on [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 closer if it is currently too far away.
- Go to [Advanced](#) > [Wireless](#) > [Wireless Settings](#), and check the wireless router settings, double check your Wireless Network Name, make sure SSID is not hidden.

Wireless 2.4GHz | 5GHz

Wireless Radio: Enable

Wireless Network Name (SSID): Hide SSID

Security:

Version: Auto WPA2-PSK

Encryption: Auto TKIP AES

Password:

Mode:

Channel:

Channel Width:

Transmit Power: Low Middle High

[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 back of your wireless 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.

Q6. What can I do if I cannot access the USB disk after I modify the Authentication settings?

This situation probably happens on your Windows computer due to its special credential mechanism. Once you successfully access the USB disk, the connection will be temporarily recorded and you will be refused to access the USB disk with another account.

You can follow either method below to solve this problem:

- **Method 1:** Log off (sign out) from the Windows to delete the temporary connection record.
- **Method 2: (Only for Local Storage Sharing)** Change the Address of the USB Disk by referring to [To Customize the Address of the USB Disk](#).

Q7. What can I do if I am still required to enter the password for USB access even though I have selected Remember my credentials in my Windows computer?


Because of Windows special credential mechanism, if the USB access username you set is the same as the Windows account name, Windows will be unable to remember the password you set for the USB.

To solve this problem, you can set a different USB access username or make the USB access password the same as your Windows account. After you modify the access account, remember to log off (sign out) from the Windows.

Q8. Why am I never required to enter the account information for USB access even though I have enabled the Authentication feature?

This situation probably happens to your Windows computer due to its special credential mechanism. If your USB access username and password are both the same as your Windows account, the Windows will automatically use its account information to access the USB disk. Therefore, you will have no need to enter the username and password.

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FCC STATEMENT



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

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

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

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

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

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

FCC RF Radiation Exposure Statement:

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

"To comply with FCC RF exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter."

CE Mark Warning



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

RF Exposure Information

This device meets the EU requirements (1999/5/EC Article 3.1a) on the limitation of exposure of the general public to electromagnetic fields by way of health protection.

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

National Restrictions

Restricted for indoor use.

Canadian Compliance Statement

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

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

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

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

This radio transmitter (IC: 8853A-C3150/ Model: Archer C3150) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list below, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio (IC: 8853A-C3150/ Model: Archer C3150) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste ci-dessous et dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

Antenna

4 Detachable Dipole Antennas, 2 dBi @2.4G, 3 dBi @5G

Caution:

- 1) The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
- 2) For devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate; and

The high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Avertissement:

- 1) Le dispositif fonctionnant dans la bande 5150-5250 MHz est réservé uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;
- 2) Le gain maximal d'antenne permis pour les dispositifs avec antenne(s) amovible(s) utilisant la bande 5725-5850 MHz doit se conformer à la limitation P.I.R.E spécifiée pour l'exploitation point à point et non point à point, selon le cas.

En outre, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

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

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

Industry Canada Statement

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

Korea Warning Statements

당해 무선설비는 운용중 전파혼신 가능성이 있음.

NCC Notice:

注意！

依據 低功率電波輻射性電機管理辦法

第十二條 經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性或功能。

第十四條 低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前項合法通信，指依電信規定作業之無線電信。低功率射頻電機需忍受合法通信或工業、科學以及醫療用電波輻射性電機設備之干擾。

BSMI Notice:

- 安全諮詢及注意事項
- 請使用原裝電源供應器或只能按照本產品注明的電源類型使用本產品。
- 清潔本產品之前請先拔掉電源線。請勿使用液體、噴霧清潔劑或濕布進行清潔。
- 注意防潮，請勿將水或其他液體潑灑到本產品上。
- 插槽與開口供通風使用，以確保本產品的操作可靠並防止過熱，請勿堵塞或覆蓋開口。
- 請勿將本產品置放於靠近熱源的地方。除非有正常的通風，否則不可放在密閉位置中。
- 請不要私自打開機殼，不要嘗試自行維修本產品，請由授權的專業人士進行此項工作。




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



Safety Information

- When product has power button, the power button is one of the way to shut off the product; when there is no power button, the only way to completely shut off power is to disconnect the product or the power adapter from the power source.

- Don't disassemble the product, or make repairs yourself. You run the risk of electric shock and voiding the limited warranty. If you need service, please contact us.
- Avoid water and wet locations.
- Adapter shall be installed near the equipment and shall be easily accessible.
- The plug considered as disconnect device of adapter.
-  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.

For EU/EFTA, this product can be used in the following countries:

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

Explanation of the symbols on the product label

Symbol	Explanation
	DC voltage
	<p>RECYCLING</p> <p>This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment.</p> <p>User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment.</p>