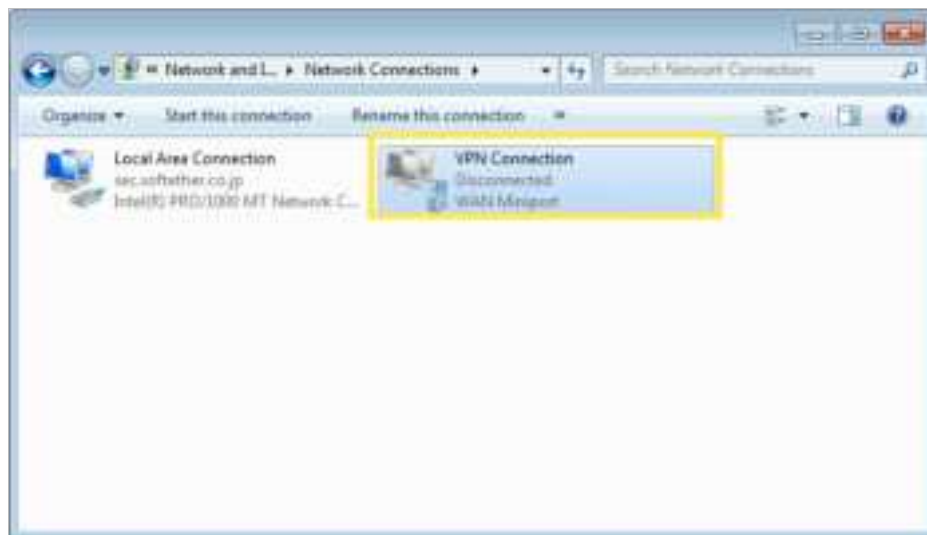


9. Find the VPN connection you created, then double-click it.



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



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



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



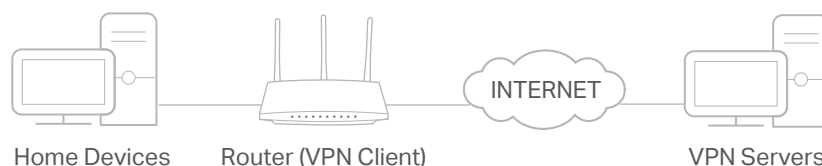
**Done!** Click **Connect** to start VPN connection.



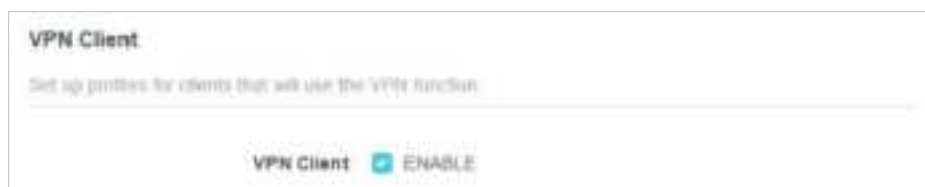
## 15.4. Use VPN Client to Access a Remote VPN Server

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

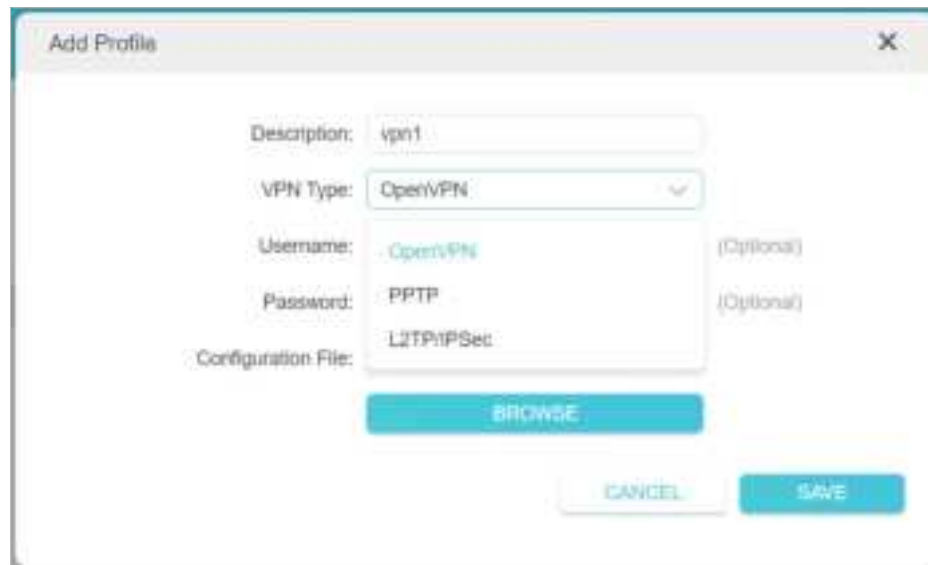
To use the VPN feature, simply configure a VPN connection and choose your desired devices on your router, then these devices can access the remote VPN server. Please follow the steps below:



1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
  2. Go to **Advanced > VPN Client**.
- Note: Firmware update may be required to support VPN Client.
3. Enable **VPN Client**, then save the settings.



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



The screenshot shows the 'Add Profile' dialog box with the following fields and values:

- Description: vpn1
- VPN Type: OpenVPN (dropdown)
- Username: OpenVPN (Optional)
- Password: PPTP (Optional)
- Configuration File: L2TP/IPSec

Buttons: BROWSE, CANCEL, SAVE

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

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




The screenshot shows the 'Add Profile' dialog box with the following fields and values:

- Description: vpn1
- VPN Type: OpenVPN (dropdown)
- Username: admin (Optional)
- Password: admin (Optional)
- Configuration File: OpenVPN-Config.ovpn

Buttons: BROWSE, CANCEL, SAVE

Message: Upload successfully

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



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

- Description: vpn2
- VPN Type: PPTP (dropdown menu)
- VPN Server: 218.18.1.73
- Username: admin
- Password: (masked with dots)
- Encryption: Auto (dropdown menu)

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

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



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

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

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

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

**Server List**

Add or edit VPN server. Up to 5 VPN servers can be added.

[Add](#)

Description	VPN Type	Status	ENABLE	Modify
vpn3	L2TP/IPSec	Disconnected	<input checked="" type="checkbox"/>	<a href="#">Edit</a> <a href="#">Delete</a>
vpn2	PPTP	Disconnected	<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Delete</a>
vpn1	OpenVPN	Disconnected	<input type="checkbox"/>	<a href="#">Edit</a> <a href="#">Delete</a>

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

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

Select the devices that will access VPN server

Online Devices

	Device Type	Device Name	MAC Address
<input checked="" type="checkbox"/>	...	...	FC-AA-14-56-FB-5D
<input checked="" type="checkbox"/>	...	...	98-02-DE-B9-1B-62

Offline Devices

	Device Type	Device Name	MAC Address
No Entries			

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

6. Save the settings.

Device List

Manage devices that will use the VPN function.

Add

Type	Device Name	MAC Address	VPN Access	Modify
	Winbox	FC:AA:14:56:FB:5D	<input checked="" type="checkbox"/>	
	My iPhone	86:D2:DE:88:18:62	<input checked="" type="checkbox"/>	

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

## Chapter 16

---

# Customize Your Network Settings

---

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

It contains the following sections:

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



## 16.1. Change the Internet Settings

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

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

- **To change the internet port:**



1. Select the desired internet port. Make sure the cable is securely connected to this port on your router.
2. Click [SAVE](#).

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

**Internet Connection**

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

Internet Connection Type: Dynamic IP

IP Address: 0.0.0.0

Subnet Mask: 0.0.0.0

Default Gateway: 0.0.0.0

Primary DNS: 0.0.0.0

Secondary DNS: 0.0.0.0

RENEW

RELEASE

[Advanced Settings](#)

DNS Address: Get Dynamically from ISP

Primary DNS: 0.0.0.0

Secondary DNS: 0.0.0.0

MTU Size: 1500 bytes

(Do not change unless necessary.)

Host Name: ArcherAX80

☐ Get IP using Unicast DHCP

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

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

**MAC Clone**

Router MAC Address: Use Default MAC Address

MAC Address: 1c 61 b4 d9 c1 c0

You have three options, [Use Default MAC Address](#), [Clone Current Device MAC](#), [Use Custom MAC Address](#).

- **To change the Internet Port Negotiation Speed Setting**




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

## 16.2. Change the LAN Settings

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

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



4. Click [SAVE](#).

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

## 16.3. Configure to Support IPTV Service

### I want to:

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

### How can I do that?

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



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

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

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



- 3) After you have selected a mode, the necessary parameters, including the LAN port for IPTV connection, are predetermined. If not, select the LAN type to determine which port is used to support IPTV service.
- 4) Click **SAVE**.

- 5) Connect the set-top box to the corresponding LAN port which is predetermined or you have specified in Step 3.

## Done!

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

## 16.4. Specify DHCP Server Settings

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

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

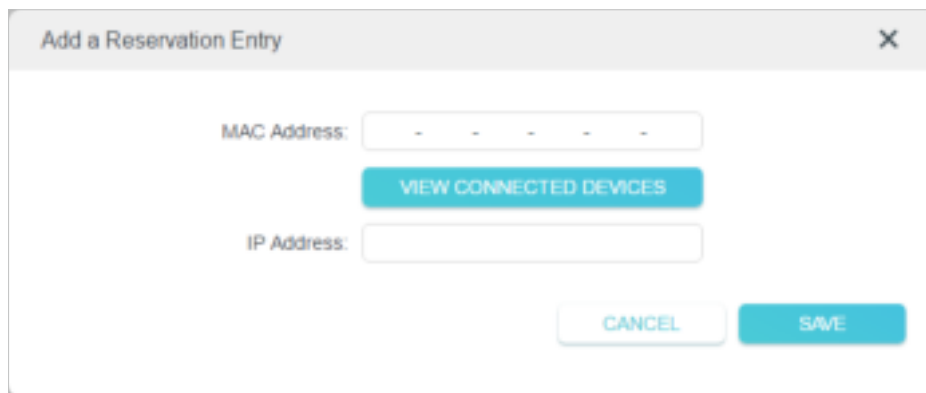
- **To specify the IP address that the router assigns:**



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

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

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



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

## 16.5. Set Up a Dynamic DNS Service Account

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

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

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



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

4. Click [Register](#) in the [Domain Name List](#) if you have selected TP-Link, and enter the [Domain Name](#) as needed.

**Dynamic DNS**

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

Service Provider: TP-Link

Current Domain Name:

**Domain Name List**

[+ Register](#)

Domain Name	Registered Date	Status	Operation	Delete
No Entries				

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

**Dynamic DNS**

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

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

Username:

Password:

Domain Name:

WAN IP binding: ☐ Enable

Status: Not launching

[LOGIN AND SAVE](#)

[LOGOUT](#)

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

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

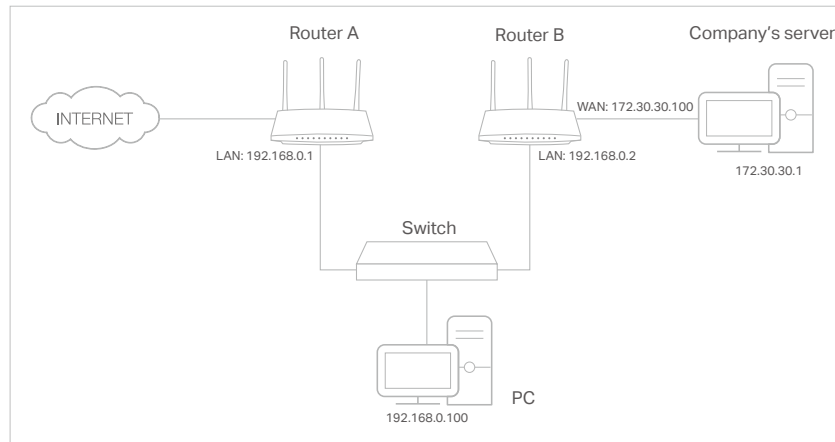
## 16.6. Create Static Routes

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

## I want to:

Visit multiple networks and servers at the same time.

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



## How can I do that?

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

**Add a Routing Entry**

Network Destination: 172.30.30.1

Subnet Mask: 255.255.255.255

Default Gateway: 192.168.0.2

Interface: LAN/WLAN

Description: Company

CANCEL SAVE

**Network Destination:** The destination IP address that you want to assign to a static



route. This IP address cannot be on the same subnet with the WAN IP or LAN IP of Router A. In the example, the IP address of the company network is the destination IP address, so here enter 172.30.30.1.

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

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

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

**Description:** Enter a description for this static routing entry.

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

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

## Done!

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

## Chapter 17

---

# Manage the Router

---

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

It contains the following sections:

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

## 17.1. Update the Firmware

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

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

**Note:**

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

### 17.1.1. Auto Update


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



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

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

### 17.1.2. Online Update

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



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



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

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

### 17.1.3. Local Update

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



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

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

## 17.2. Backup and Restore Configuration Settings

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

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

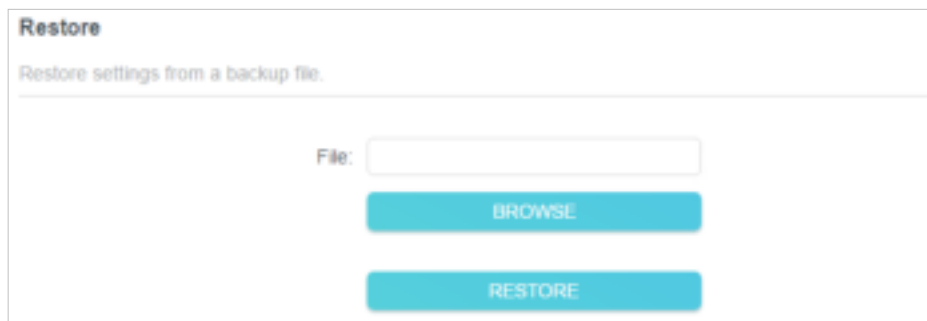
- **To backup configuration settings:**

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



- **To restore configuration settings:**

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

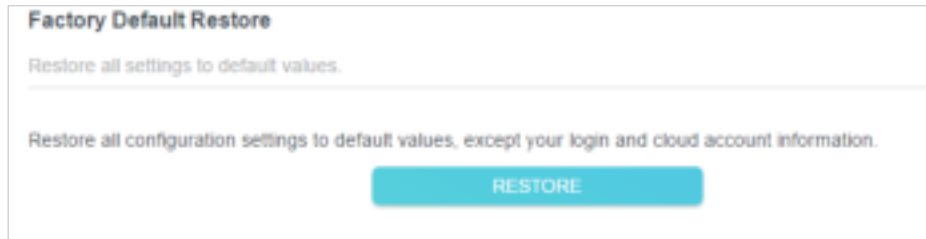


2. Wait a few minutes for the restoring and rebooting.

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

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

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



**Factory Default Restore**

Restore all settings to default values.

---

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

**RESTORE**

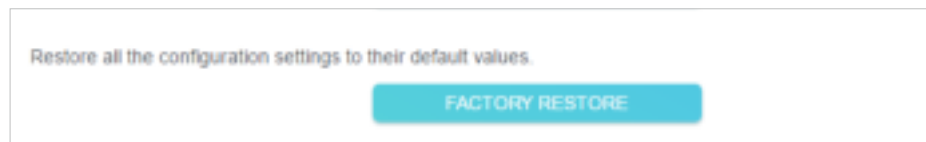
2. Wait a few minutes for the resetting and rebooting.

**Note:**

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

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

1. Click **FACTORY RESTORE** to reset the router.



Restore all the configuration settings to their default values.

**FACTORY RESTORE**

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

**Note:**

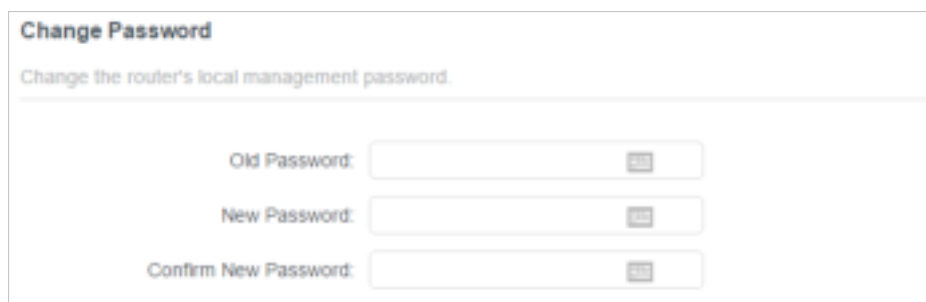
- During the resetting process, do not turn off or reset the router.
- We strongly recommend you backup the current configuration settings before resetting the router.

## 17.3. Change the Login Password

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

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

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



**Change Password**

Change the router's local management password.

---

Old Password:

New Password:

Confirm New Password:

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

4. Use the new password for future logins.

## 17.4. Password Recovery

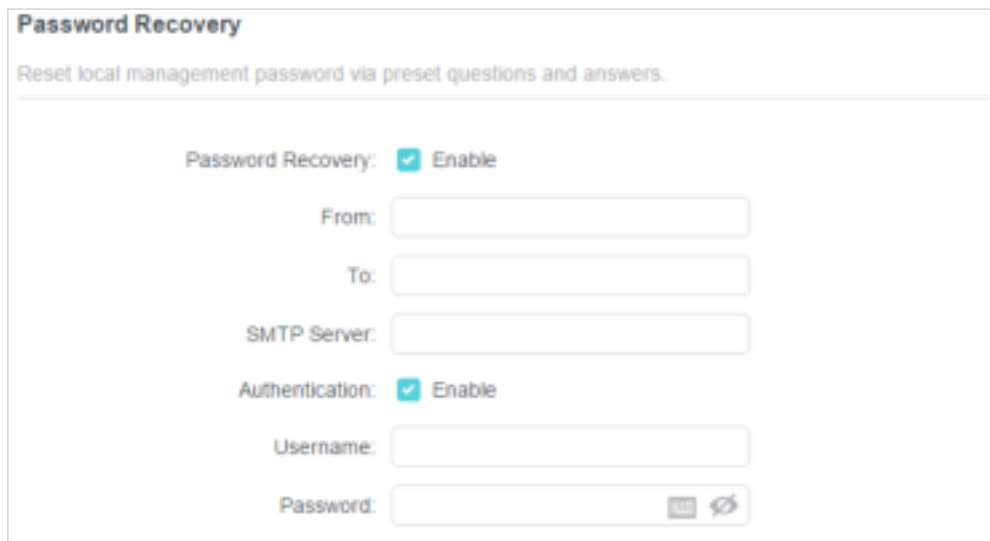
This feature allows you to recover the login password you set for your router in case you forget it.

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

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

**Tips:**

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



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

- Password Recovery:** A checkbox labeled 'Enable' is checked.
- From:** A text input field for the mailbox address to send the recovery letter.
- To:** A text input field for the mailbox address to receive the recovery letter.
- SMTP Server:** A text input field for the SMTP server address.
- Authentication:** A checkbox labeled 'Enable' is checked.
- Username:** A text input field for the SMTP server username.
- Password:** A text input field for the SMTP server password, with a 'Show/Hide' icon to its right.

5. Click [SAVE](#).

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

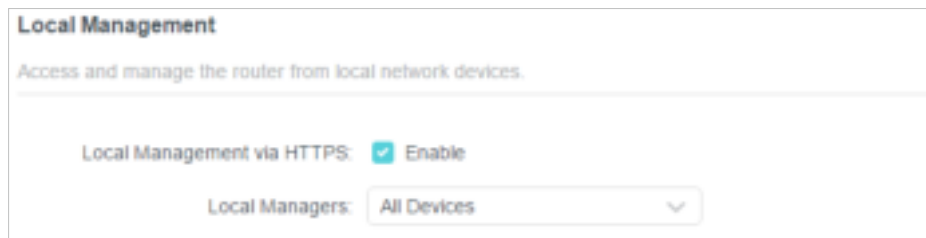
## 17.5. Local Management

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

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

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

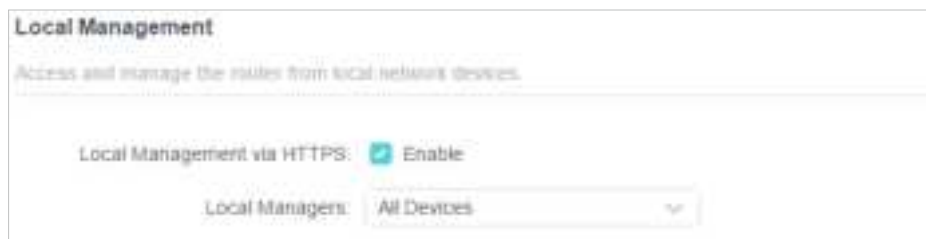
Tick the [Enable](#) box of [Local Management via HTTPS](#) to access the router via HTTPS and HTTP, or keep it disabled to access the router only via HTTP.



The screenshot shows the 'Local Management' section of a router's web interface. It includes a title 'Local Management', a subtitle 'Access and manage the router from local network devices.', and two settings: 'Local Management via HTTPS' with a checked 'Enable' checkbox, and 'Local Managers' with a dropdown menu set to 'All Devices'.

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

Select [All Devices](#) for [Local Managers](#).



This is a duplicate of the previous screenshot, showing the 'Local Management' settings with 'Local Management via HTTPS' enabled and 'Local Managers' set to 'All Devices'.

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

1. Select [All Devices](#) for [Local Managers](#) and click [SAVE](#).



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

Local Management via HTTPS: ☒ Enable

Local Managers: Specified Devices + Add Device

Description	MAC Address	Operation
No Entries		

2. Click [Add Device](#).

**Add Device**

Description:

[VIEW CONNECTED DEVICES](#)

MAC Address:

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

3. Click [VIEW CONNECTED DEVICES](#) and select the device to manage the router from the Connected Devices list, or enter the MAC address of the device manually.

4. Specify a [Description](#) for this entry.

5. Click [SAVE](#).

## 17.6. Remote Management

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

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

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

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

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

**Remote Management**  
Access and manage the router over the Internet

Note: Remote Management is not supported when you are connected to the Internet only via PoE. If you want to use Remote Management, please make sure you have set up an IP4 over broadband link.

Remote Management ☒ Enable

HTTPS Port

Web Address for Management

Remote Managers

- Allow all devices to manage the router remotely:

**Remote Management**  
Access and manage the router over the Internet

Note: Remote Management is not supported when you are connected to the Internet only via PoE. If you want to use Remote Management, please make sure you have set up an IP4 over broadband link.

Remote Management ☒ Enable

HTTPS Port

Web Address for Management

Remote Managers

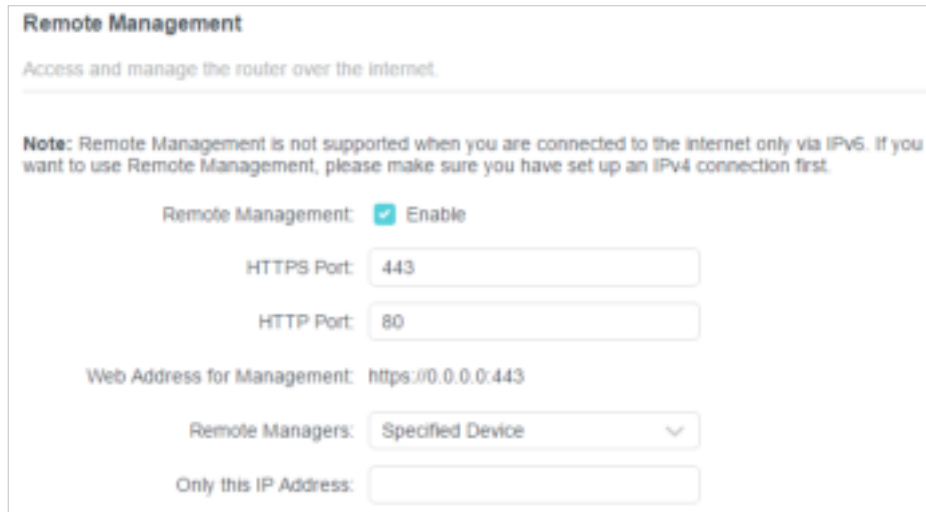
1. Tick the **Enable** checkbox of **Remote Management**.
2. Keep the HTTPS port as default settings (recommended) or enter a value between 1024 and 65535.
3. Select **All Devices** for **Specified Devices**.
4. Click **SAVE**.

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

**Tips:**

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


- Allow a specific device to manage the router remotely:



The screenshot shows the 'Remote Management' configuration page. At the top, it says 'Access and manage the router over the internet.' Below this is a note: 'Note: Remote Management is not supported when you are connected to the internet only via IPv6. If you want to use Remote Management, please make sure you have set up an IPv4 connection first.' The configuration options are: 'Remote Management' with a checked 'Enable' checkbox; 'HTTPS Port' set to '443'; 'HTTP Port' set to '80'; 'Web Address for Management' set to 'https://0.0.0.0:443'; 'Remote Managers' set to 'Specified Device' (with a dropdown arrow); and 'Only this IP Address' with an empty text box.

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

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

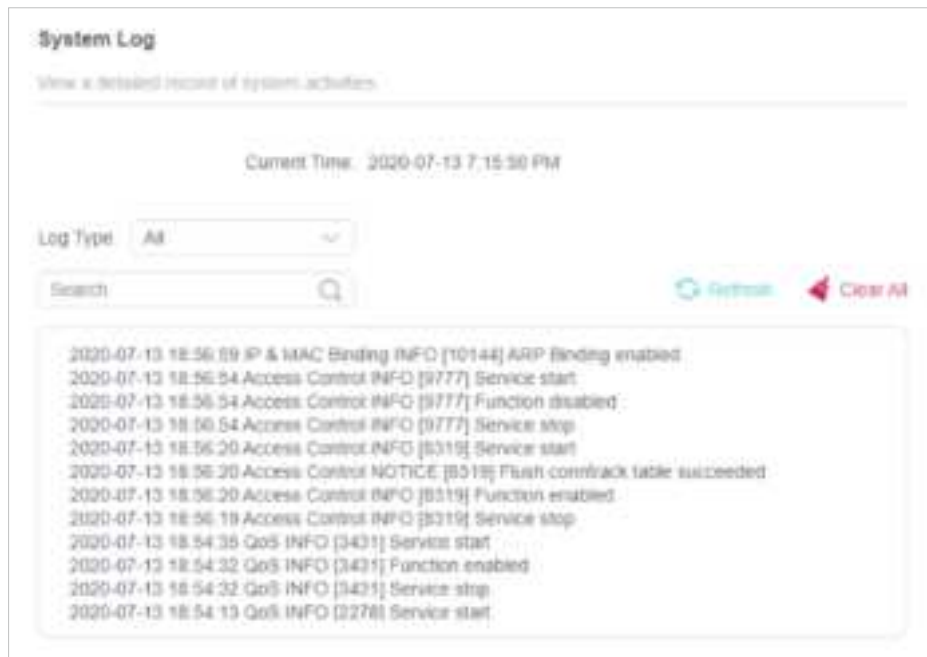
 **Tips:** The router's WAN IP is usually a dynamic IP. Please refer to [Set Up a Dynamic DNS Service Account](#) if you want to log in to the router through a domain name.

## 17.7. System Log

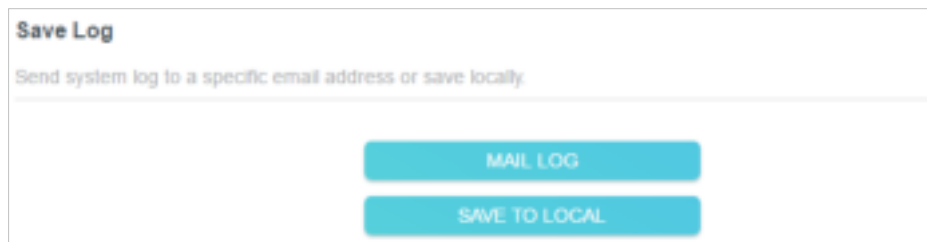
When the router does not work normally, you can save the system log and send it to the technical support for troubleshooting.

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

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



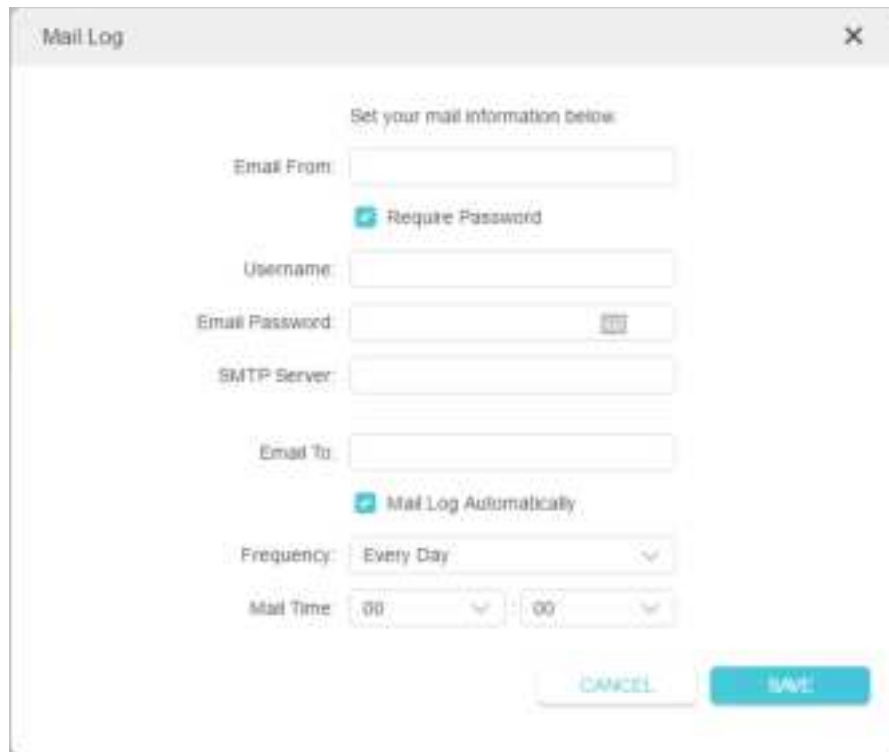
4. In the **Save Log** section, click **SAVE TO LOCAL** to save the system logs to a local disk.



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

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

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

A screenshot of a 'Mail Log' configuration window. The window has a title bar with 'Mail Log' and a close button. Inside, it says 'Set your mail information below:'. There are several input fields: 'Email From:', 'Username:', 'Email Password:', 'SMTP Server:', and 'Email To:'. There are also two checkboxes: 'Require Password' (checked) and 'Mail Log Automatically' (checked). Below these is a 'Frequency:' dropdown menu set to 'Every Day' and a 'Mail Time:' section with two dropdown menus set to ':00'. At the bottom right are 'CANCEL' and 'SAVE' buttons.

1) **Email From:** Enter the email address used for sending the system log.

2) Select **Require Password**.

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

3) **Username:** Enter the email address used for sending the system log.

4) **Email Password:** Enter the password to login the sender's email address.

5) **SMTP Server:** Enter the SMTP server address.

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

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

7) Select **Mail Log Automatically**.

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

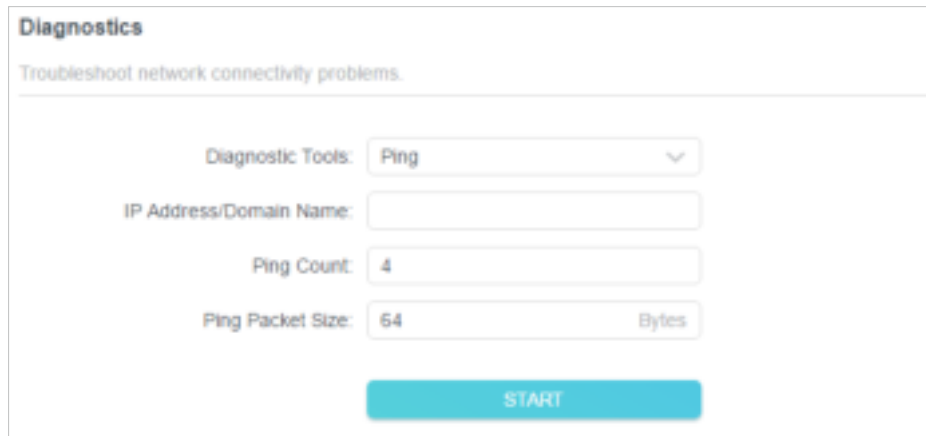
8) **Frequency:** This determines how often the recipient will receive the system log .

5. Click **SAVE**.

## 17.8. Test the Network Connectivity

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

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



3. Enter the information:

- 1) Choose [Ping](#) or [Traceroute](#) as the diagnostic tool to test the connectivity;
  - [Ping](#) is used to test the connectivity between the router and the tested host, and measure the round-trip time.
  - [Traceroute](#) is used to display the route (path) your router has passed to reach the tested host, and measure transit delays of packets across an Internet Protocol network.
- 2) Enter the [IP Address](#) or [Domain Name](#) of the tested host.
- 3) Modify the [Ping Count](#) number and the [Ping Packet Size](#). It's recommended to keep the default value.
- 4) If you have chosen [Traceroute](#), you can modify the [Traceroute Max TTL](#). It's recommended to keep the default value.

4. Click [START](#) to begin the diagnostics.

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



```
PING 192.168.0.1 (192.168.0.1): 64 data bytes
Reply from 192.168.0.1: bytes=64 ttl=64 seq=1 time=0.322 ms
Reply from 192.168.0.1: bytes=64 ttl=64 seq=2 time=0.308 ms
Reply from 192.168.0.1: bytes=64 ttl=64 seq=3 time=0.285 ms
Reply from 192.168.0.1: bytes=64 ttl=64 seq=4 time=0.334 ms
--- Ping Statistics for 192.168.0.1 ---
Packets: Sent=4, Received=4, Lost=0 (0.00% loss)
Round-trip min/avg/max = 0.285/0.312/0.334 ms
ping is stopped
```

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

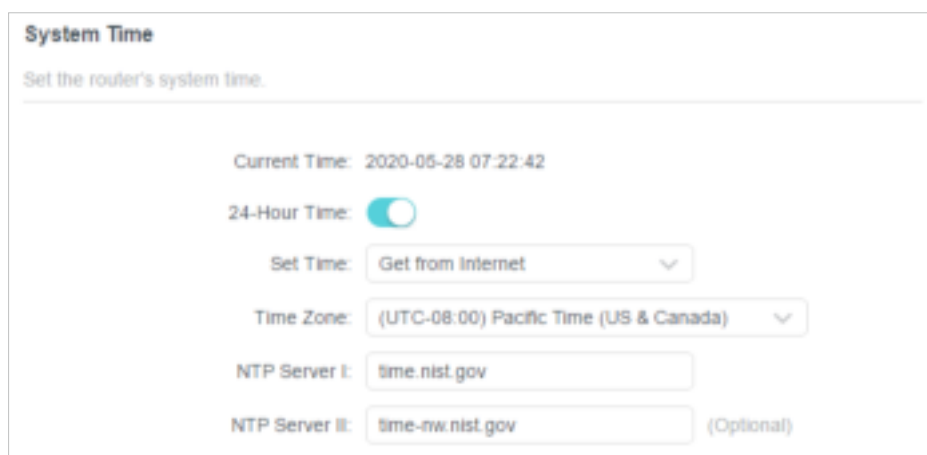


## 17.9. Set System Time and Language

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

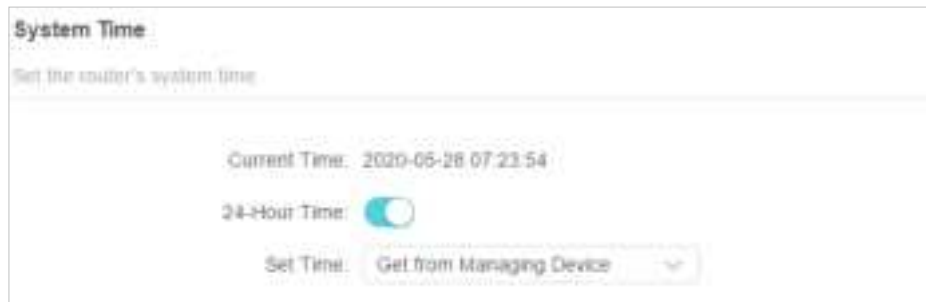
System language is the language displayed when you log into the router. You can change the system language as needed.

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



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

4. In the **NTP Server I** field, enter the IP address or domain name of your desired NTP Server.
  5. (Optional) In the **NTP Server II** field, enter the IP address or domain name of the second NTP Server.
  6. Click **SAVE**.
- **To get time from your computer:**
    1. In the **Set Time** field, select **Get from Managing Device**.

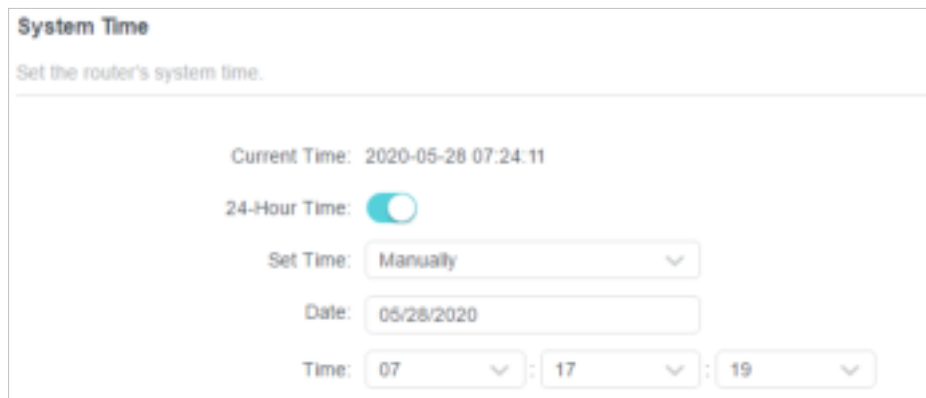


The screenshot shows the 'System Time' configuration page. At the top, it says 'Set the router's system time.' Below this, the 'Current Time' is displayed as '2020-05-28 07:23:54'. The '24-Hour Time' toggle is turned on. The 'Set Time' dropdown menu is open, and 'Get from Managing Device' is selected.

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

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

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



The screenshot shows the 'System Time' configuration page. At the top, it says 'Set the router's system time.' Below this, the 'Current Time' is displayed as '2020-05-28 07:24:11'. The '24-Hour Time' toggle is turned on. The 'Set Time' dropdown menu is open, and 'Manually' is selected. Below this, the 'Date' field is set to '05/28/2020'. The 'Time' field is set to '07:17:19'.

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

- **To set Daylight Saving Time:**

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