

**Wireless Settings**

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

---

OFDMA: ☒ Enable ?

Smart Connect: ☒ Enable ? Sharing Network

Wireless Radio: ☒ Enable

Network Name (SSID):  ☐ Hide SSID

Security:

Version:

Password:

Transmit Power:

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

- **To change the security option:**

1. Go to [Advanced](#) > [Wireless](#) > [Wireless Settings](#).
2. Select an option from the [Security](#) drop-down list. We recommend you set [Security](#) to [WPA/WPA2-Personal](#) for good compatibility with your other devices.
3. Set [Version](#) according to your network needs. If the security type you set is [WPA2/WPA3-Personal](#), it is recommended that you select [Auto](#) to allow for gradual migration to a WPA3-Personal network while maintaining interoperability with WPA2-Personal devices.

**Wireless Settings**

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

---

OFDMA: ☒ Enable ?

Smart Connect: ☐ Enable ?

2.4GHz: ☒ Enable Sharing Network

Network Name (SSID):  ☐ Hide SSID

Security:

Version:

Password:

Transmit Power:

Channel Width:

Channel:

Mode:

### In addition

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

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

A router with the MU-MIMO feature serves multiple devices simultaneously while a traditional router serves only one user at a time. That means MU-MIMO can provide a faster, more efficient Wi-Fi network for multiusers.

**Note:**

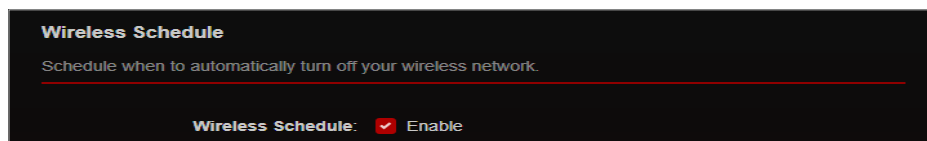
Devices supporting 5GHz wireless band can enjoy the MU-MIMO service.

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

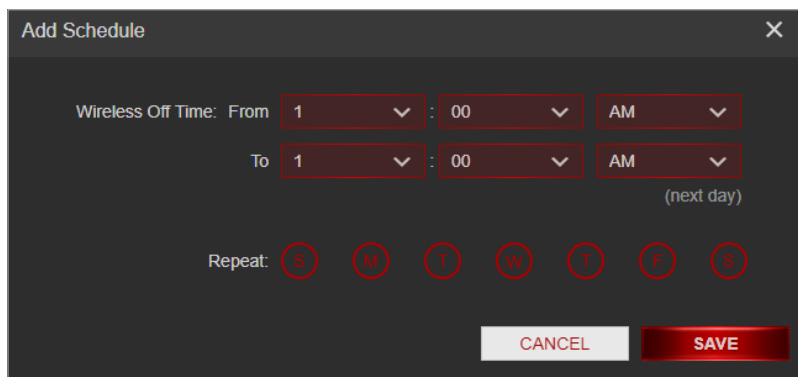
## 12.8. Schedule Your Wireless Function

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

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



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



The 'Add Schedule' dialog box has a title bar with a close button (X). It contains a 'Wireless Off Time' section with 'From' and 'To' time pickers. Both are set to 1:00 AM. The 'To' time has a '(next day)' label. Below this is a 'Repeat' section with seven circular buttons for days of the week: S, M, T, W, T, F, S. At the bottom are 'CANCEL' and 'SAVE' buttons.

**Note:**

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

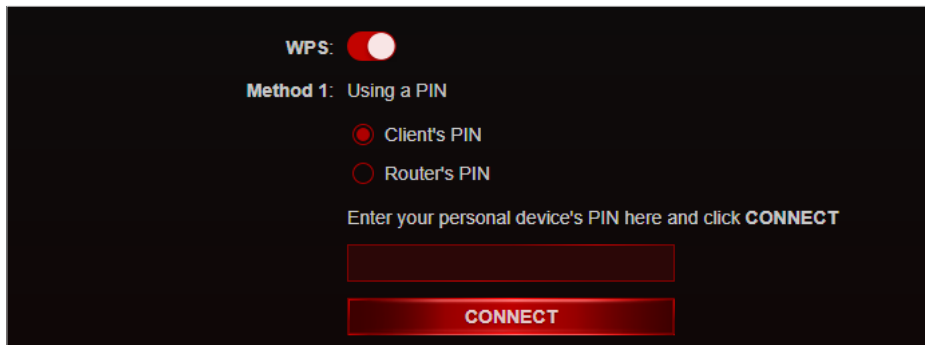
## 12.9. Use WPS for Wireless Connection

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

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

### 12.9.1. Connect via the Client's PIN

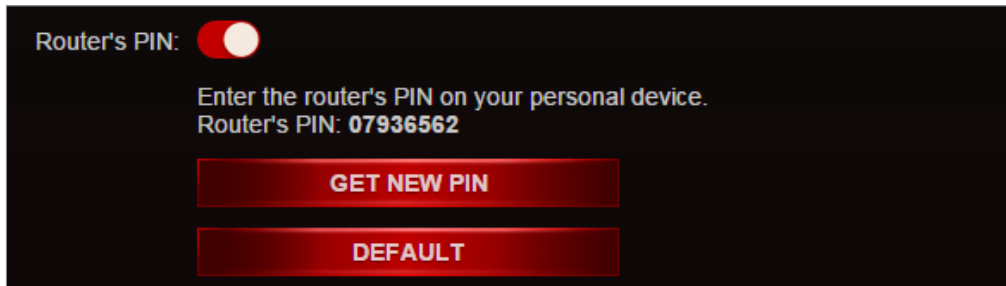
Enter the PIN of your device and click [Connect](#). Then your device will get connected to the router.



The screen shows 'WPS' with a toggle switch turned on. Under 'Method 1: Using a PIN', there are two radio buttons: 'Client's PIN' (selected) and 'Router's PIN'. Below the radio buttons is the instruction 'Enter your personal device's PIN here and click **CONNECT**'. There is a text input field and a red 'CONNECT' button at the bottom.


### 12.9.2. Connect via the Router's PIN

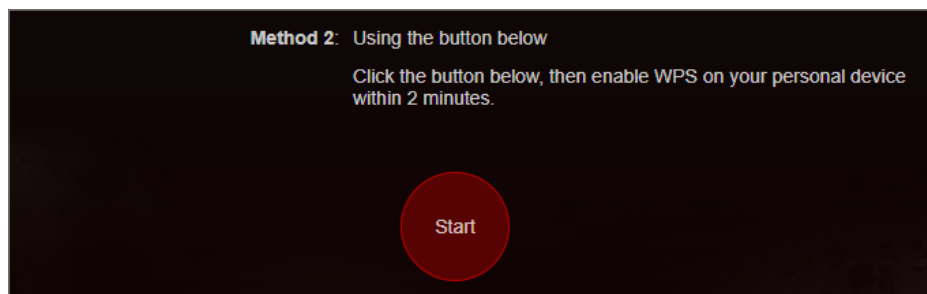
Select [Router's PIN](#) in [Method 1](#) to enable [Router's PIN](#). You can use the default PIN or generate a new one.

**Note:**

PIN (Personal Identification Number) is an eight-character identification number preset to each router. WPS supported devices can connect to your router with the PIN. The default PIN is printed on the label of the router.

### 12.9.3. Push the WPS Button

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



## 12.10. Use WDS to Extend Network

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

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Advanced](#) > [Wireless](#) > [WDS](#).
3. Select [Enable WDS Bridging](#) of [2.4GHz WDS](#), [5GHz-1 WDS](#) or [5GHz-2 WDS](#).

2.4GHz WDS

WDS Bridging: ☒ Enable WDS Bridging

SSID (to be bridged):

MAC Address:

Security:

Password:

4. Survey the SSID to be bridged.

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

5. Select a [Security](#) type and enter the related parameters, which should be the same as the network to be bridged.

6. Click [SAVE](#).

**Note:**

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

## 12. 11. Advanced Wireless Settings

Check advanced wireless settings for your device.

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

**Additional Settings**

Check advanced wireless settings for your device.

WMM: ☒ Enable

Short GI: ☒ Enable

AP Isolation: ☐ Enable

Airtime Fairness: ☐ Enable

Zero Wait DFS: ☐ Enable

Beacon Interval:

RTS Threshold:

DTIM Interval:

Group Key Update Period:  s

- **WMM** - WMM function can guarantee the packets with high-priority messages being transmitted preferentially.
- **Short GI** - It is recommended to enable this function, for it will increase the data capacity by reducing the guard interval time.
- **AP Isolation** - This function isolates all connected wireless stations so that wireless stations cannot access each other through WLAN.
- **Airtime Fairness** - This function can improve the overall network performance by sacrificing a little bit of network time on your slow devices.
- **Zero Wait DFS** - Zero Wait DFS (Dynamic Frequency Selection) allows the router to immediately reselect a new channel once the radar signal is detected on a channel allocated to radar devices to ensure lag-free network experience.
- **Beacon Interval** - Enter a value between 40 and 1000 in milliseconds to determine the duration between beacon packets that are broadcasted by the router to synchronize the wireless network. The default value is 100 milliseconds.
- **RTS Threshold** - Enter a value between 1 and 2346 to determine the packet size of data transmission through the router. By default, the RTS (Request to Send) Threshold size is 2346. If the packet size is greater than the preset threshold, the router will send RTS frames to a particular receiving station and negotiate the sending of a data frame.
- **DTIM Interval** - The value determines the interval of DTIM (Delivery Traffic Indication Message). Enter a value between 1 and 15 intervals. The default value is 1, which indicates the DTIM Interval is the same as Beacon Interval.
- **Group Key Update Period** - Enter a number of seconds (minimum 30) to control the time interval for the encryption key automatic renewal. The default value is 0, meaning no key renewal.

## Chapter 13

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# Manage the Router

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

It contains the following sections:

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

## 13.1. Upgrade the Firmware

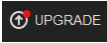
TP-Link aims at providing better network experience for users.

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

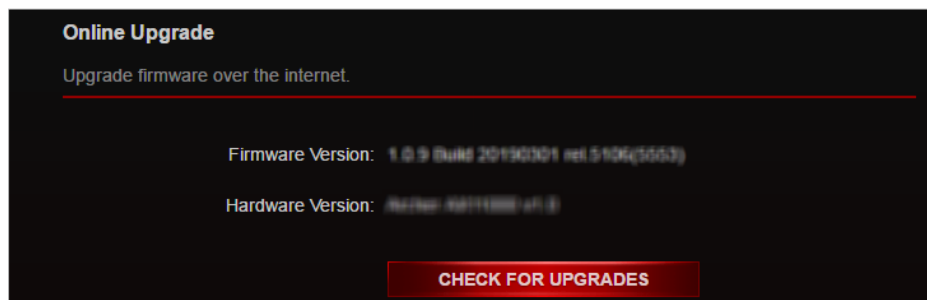
**Note:**

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

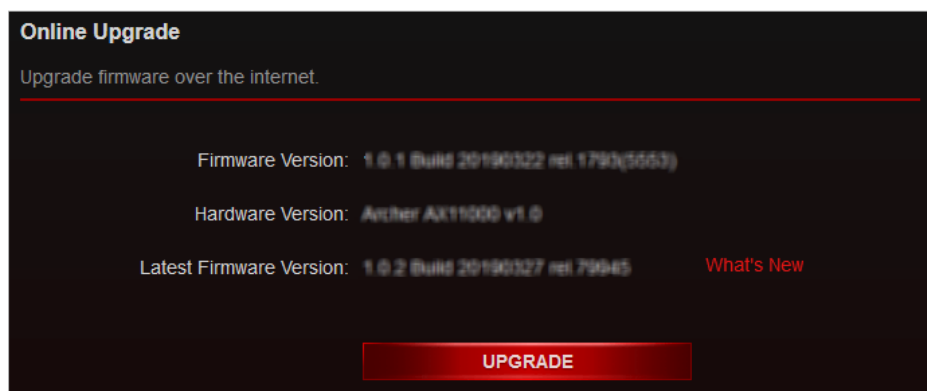
### 13.1.1. Online Upgrade

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

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

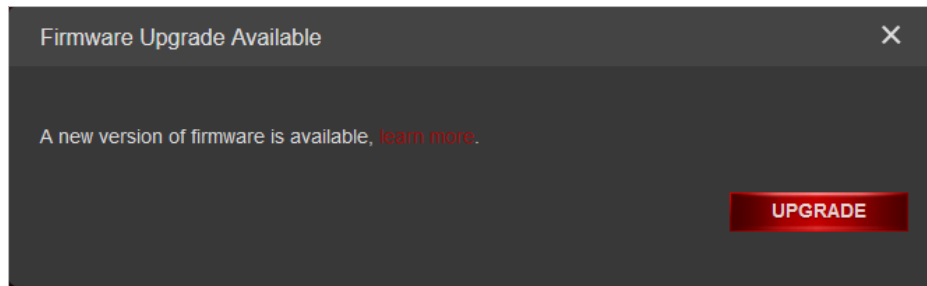


3. Focus on the [Online Upgrade](#) section, and click [UPGRADE](#).



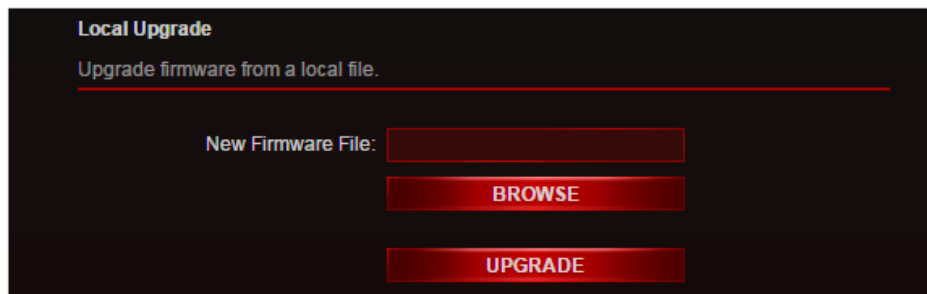
4. Wait a few minutes for the upgrade and reboot to complete.

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



### 13.1.2. Local Upgrade

1. Download the latest firmware file for the router from [www.tp-link.com](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 Upgrade**.
4. Focus on the **Local Upgrade** section. Click **BROWSE** to locate the downloaded new firmware file, and click **UPGRADE**.



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

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

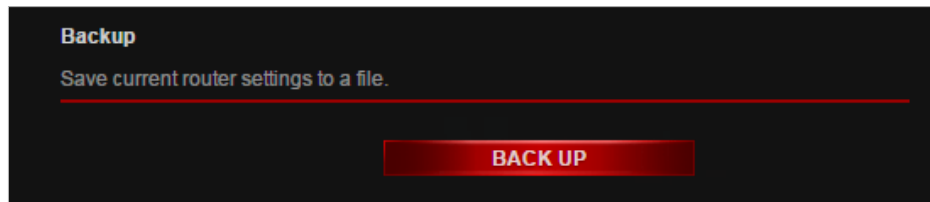
## 13.2. Backup and Restore Configuration Settings

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

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

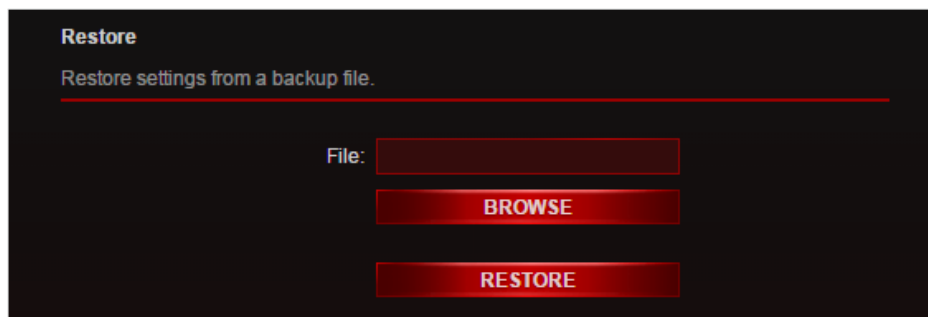
- **To backup configuration settings:**

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




- **To restore configuration settings:**

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

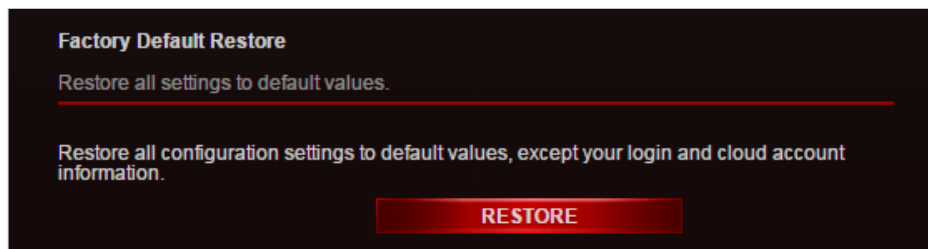


2. Wait a few minutes for the restoring and rebooting.

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

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

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



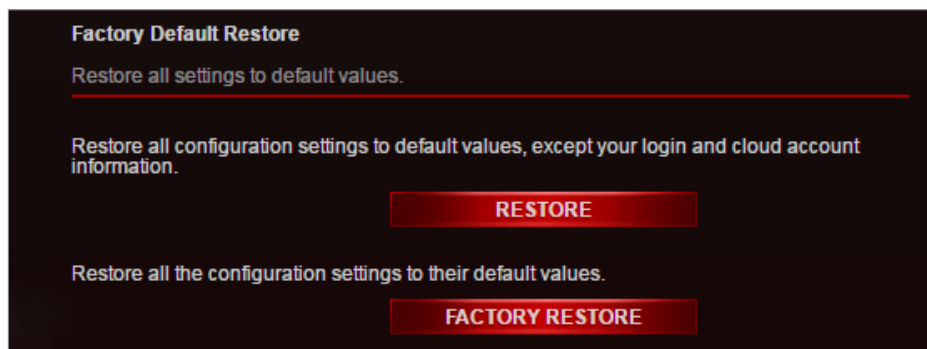
2. Wait a few minutes for the resetting and rebooting.

 **Note:**

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

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

1. Click [FACTORY RESTORE](#) to reset the router.



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

**Note:**

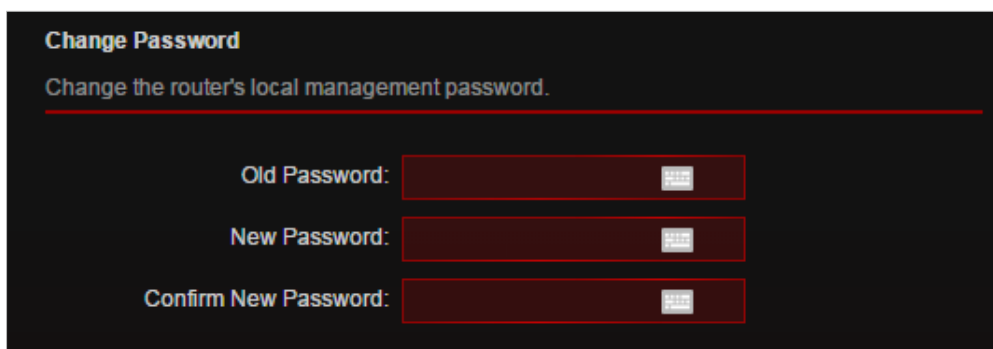
- During the resetting process, do not turn off or reset the router.
- We strongly recommend you backup the current configuration settings before resetting the router.

## 13.3. Change the Login Password

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

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

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



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

## 13.4. Password Recovery

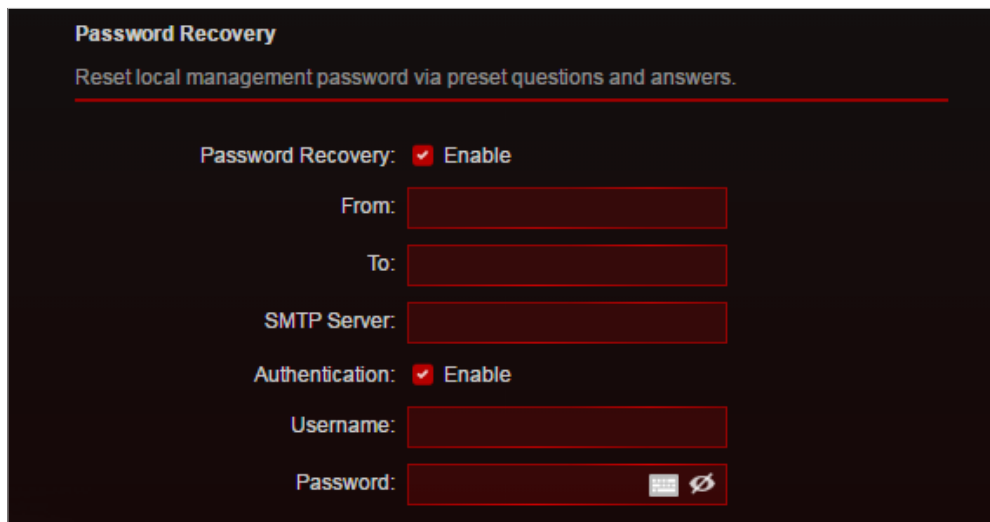
This feature allows you to recover the login password you set for you router in case you forget it.

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

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

💡 Tips:

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



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

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

5. Click **SAVE**.

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

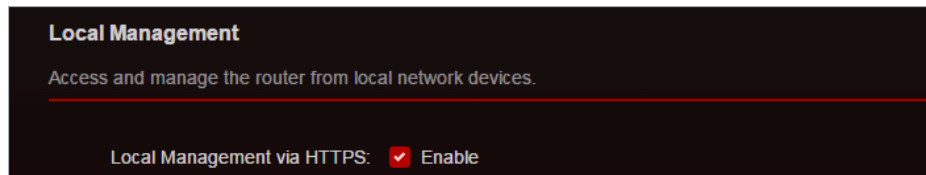
## 13.5. Local Management

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

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

- Access the router via HTTPS and HTTP:

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



**Local Management**

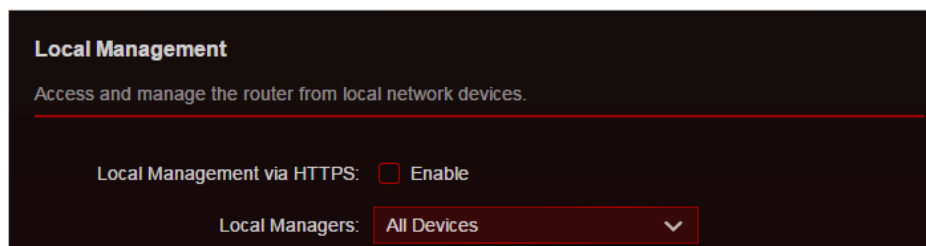
Access and manage the router from local network devices.

---

Local Management via HTTPS: ☒ Enable

- Allow all LAN connected devices to manage the router:

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



**Local Management**

Access and manage the router from local network devices.

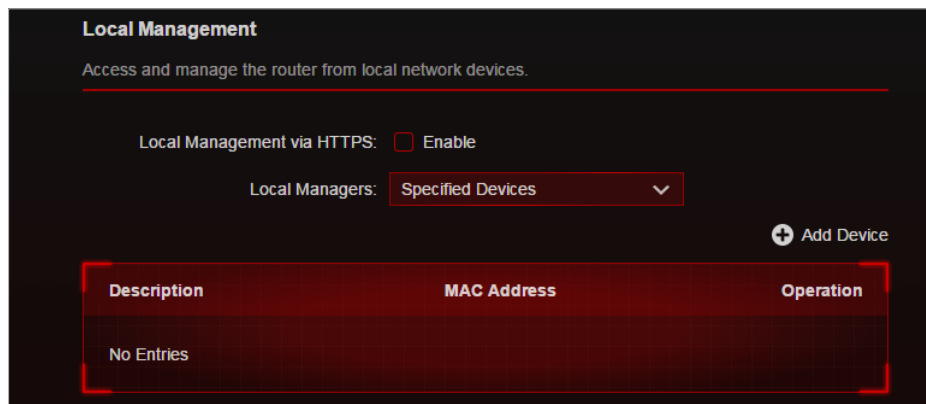
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Local Management via HTTPS: ☐ Enable

Local Managers: [All Devices](#) ▼

- Allow specific devices to manage the router:

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



**Local Management**

Access and manage the router from local network devices.

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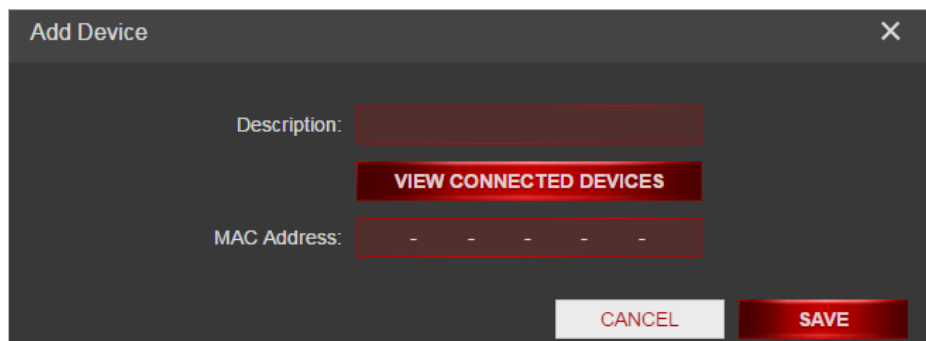
Local Management via HTTPS: ☐ Enable

Local Managers: [Specified Devices](#) ▼

[+ Add Device](#)

Description	MAC Address	Operation
No Entries		

2. Click [Add Device](#).



**Add Device** [X]

Description:

[VIEW CONNECTED DEVICES](#)

MAC Address:

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

3. Click [VIEW CONNECTED DEVICES](#) and select the device to manage the router from the Connected Devices list, or enter the MAC address of the device manually.
4. Specify a [Description](#) for this entry.
5. Click [SAVE](#).

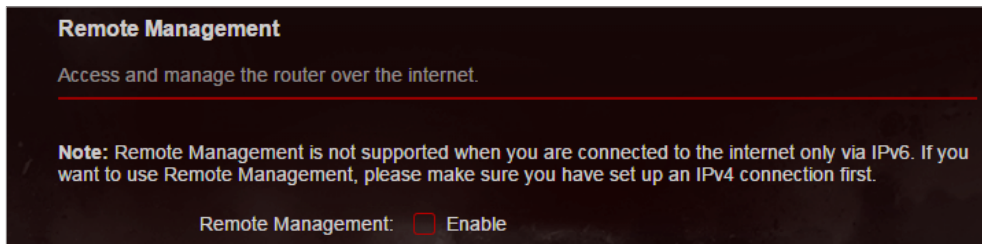
## 13.6. Remote Management

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

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

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

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



**Remote Management**

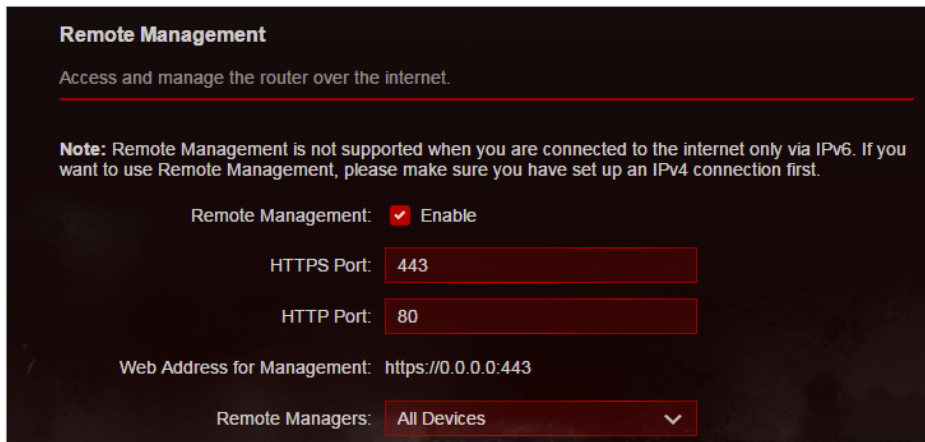
Access and manage the router over the internet.

---

**Note:** Remote Management is not supported when you are connected to the internet only via IPv6. If you want to use Remote Management, please make sure you have set up an IPv4 connection first.

Remote Management: ☐ Enable

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



**Remote Management**

Access and manage the router over the internet.

---

**Note:** Remote Management is not supported when you are connected to the internet only via IPv6. If you want to use Remote Management, please make sure you have set up an IPv4 connection first.

Remote Management: ☒ Enable

HTTPS Port:

HTTP Port:

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

Remote Managers: [All Devices](#) ▼

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

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

🔗 Tips:

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

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' showing 'https://0.0.0.0:443'; 'Remote Managers' with a dropdown menu set to 'Specified Device'; and 'Only this IP Address' with an empty text input field.

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

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

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

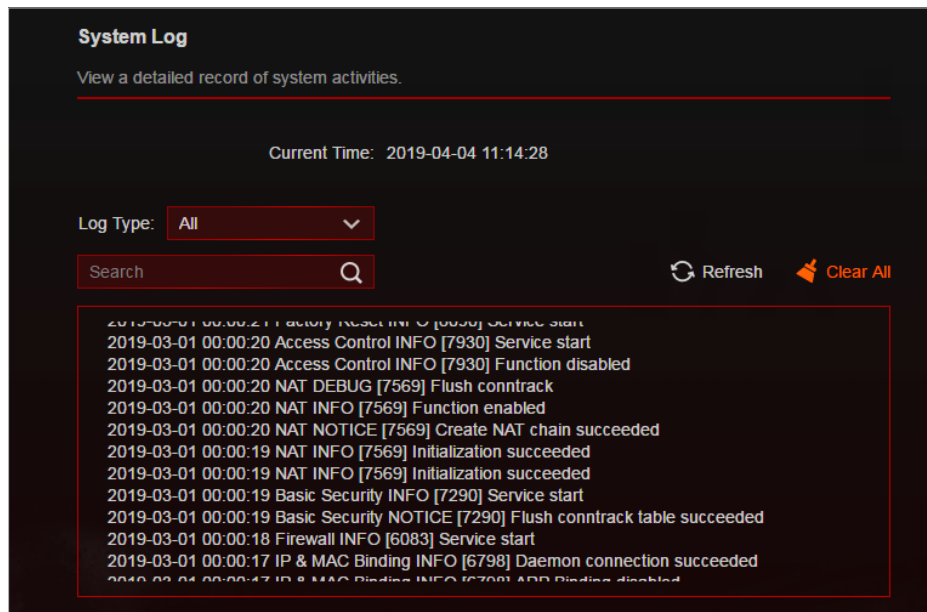
## 13.7. System Log

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

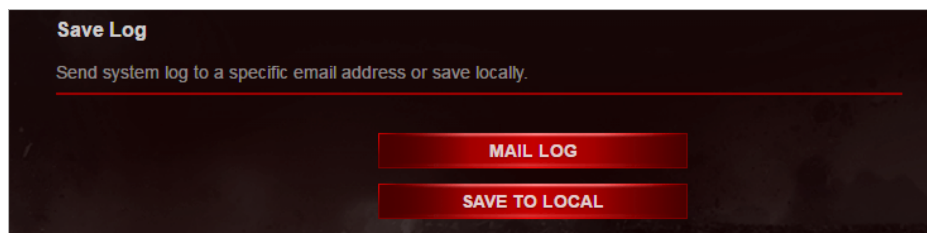
- **To save the system log locally:**

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

2. Go to [Advanced](#) > [System](#) > [System Log](#).
3. Choose the type and level of the system logs as needed.



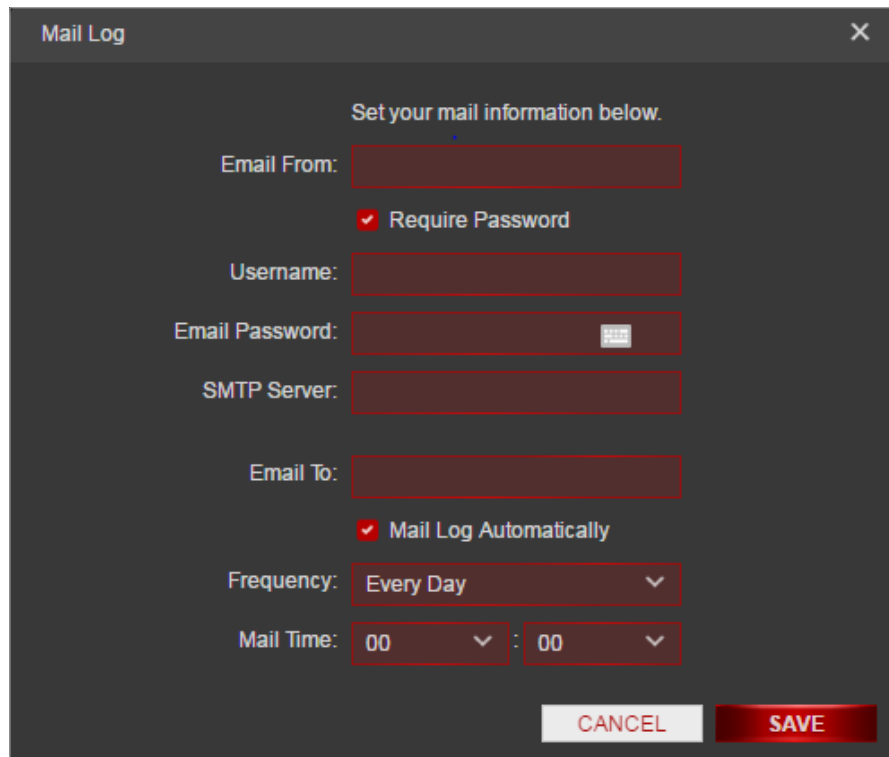
4. In the [Save Log](#) section, click [SAVE TO LOCAL](#) to save the system logs to a local disk.



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

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

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

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). A 'Frequency' dropdown menu is set to 'Every Day'. A 'Mail Time' section has two dropdown menus, both set to '00'. At the bottom right, there 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.

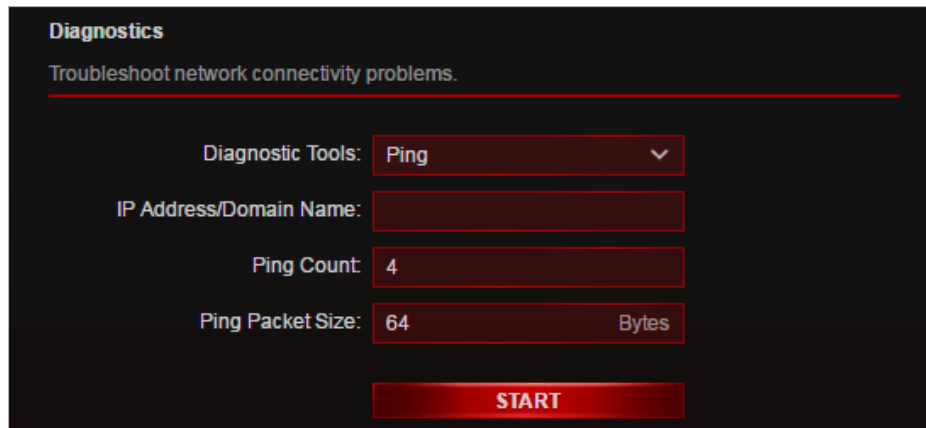
8) **Frequency:** This determines how often the recipient will receive the system log .

5. Click **SAVE**.

## 13.8. Test the Network Connectivity

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

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

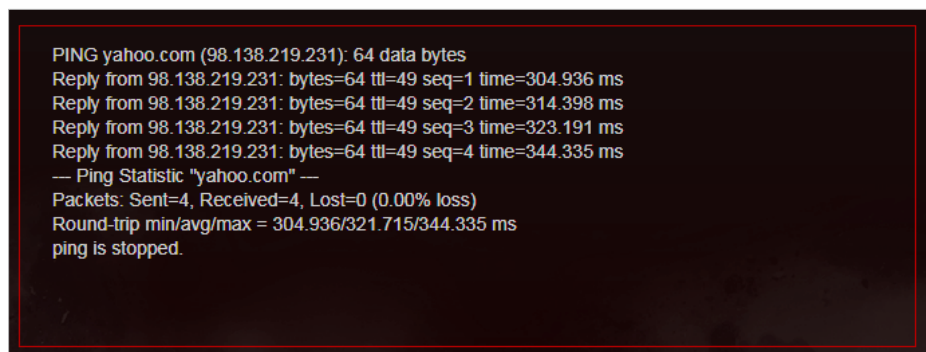


3. Enter the information:

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

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

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



```
PING yahoo.com (98.138.219.231): 64 data bytes
Reply from 98.138.219.231: bytes=64 ttl=49 seq=1 time=304.936 ms
Reply from 98.138.219.231: bytes=64 ttl=49 seq=2 time=314.398 ms
Reply from 98.138.219.231: bytes=64 ttl=49 seq=3 time=323.191 ms
Reply from 98.138.219.231: bytes=64 ttl=49 seq=4 time=344.335 ms
--- Ping Statistic "yahoo.com" ---
Packets: Sent=4, Received=4, Lost=0 (0.00% loss)
Round-trip min/avg/max = 304.936/321.715/344.335 ms
ping is stopped.
```

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

```

traceroute to yahoo.com (72.30.35.9), 5 hops max, 38 byte packets
1 unknown (10.0.0.1) 0.681 ms 0.553 ms 0.570 ms
2 61.141.64.1 (61.141.64.1) 7.443 ms 3.493 ms 8.752 ms
3 202.105.158.25 (202.105.158.25) 2.939 ms 202.105.155.201 (202.105.155.201) 2.550 ms
  202.105.155.205 (202.105.155.205) 2.501 ms
4 183.56.65.14 (183.56.65.14) 8.672 ms 183.56.65.70 (183.56.65.70) 6.533 ms 9.779 ms
5 202.97.94.122 (202.97.94.122) 6.064 ms 202.97.66.154 (202.97.66.154) 5.636 ms
  202.97.94.138 (202.97.94.138) 7.608 ms
Trace Complete.
traceroute is stopped.

```

## 13.9. Set Up System Time

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

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

**System Time**  
Set the router's system time.

Current Time: 2019-03-01 12:47:58 AM

24-Hour Time: ☒

Set Time: Get from Internet

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

NTP Server I: time.nist.gov

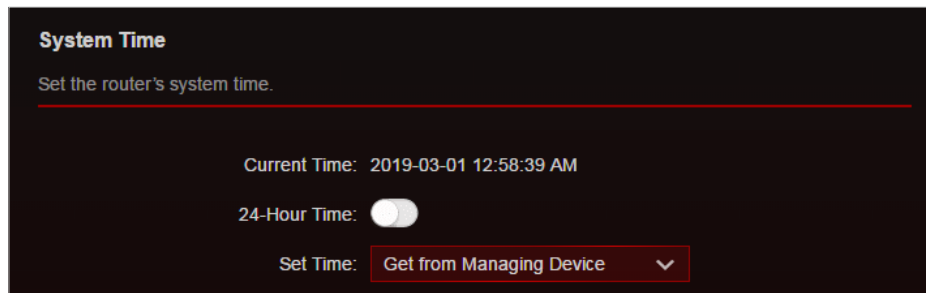
NTP Server II: time-nw.nist.gov (Optional)

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

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

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

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

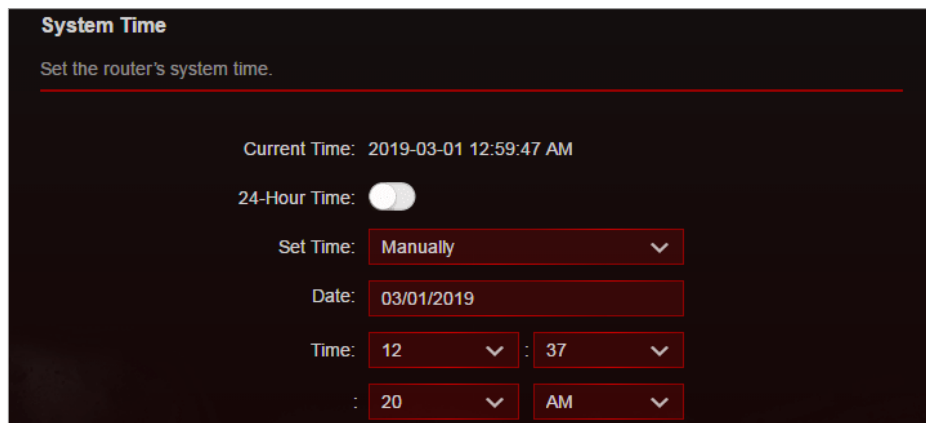


The screenshot shows the 'System Time' configuration page. At the top, it says 'Set the router's system time.' Below this, the 'Current Time' is displayed as '2019-03-01 12:58:39 AM'. The '24-Hour Time' toggle is turned off. The 'Set Time' dropdown menu is open, showing 'Get from Managing Device' as the selected option.

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](#).

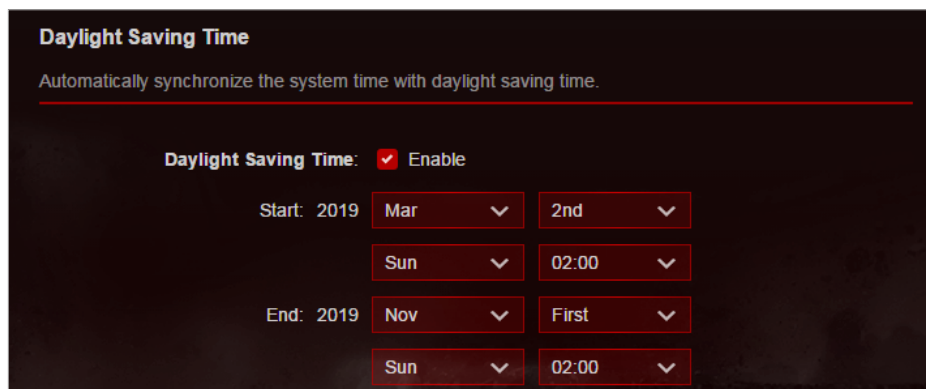


The screenshot shows the 'System Time' configuration page. At the top, it says 'Set the router's system time.' Below this, the 'Current Time' is displayed as '2019-03-01 12:59:47 AM'. The '24-Hour Time' toggle is turned off. The 'Set Time' dropdown menu is open, showing 'Manually' as the selected option. Below this, there are fields for 'Date' (03/01/2019) and 'Time' (12:37:20 AM).

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

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

1. Tick the [Enable](#) box of [Daylight Saving Time](#).

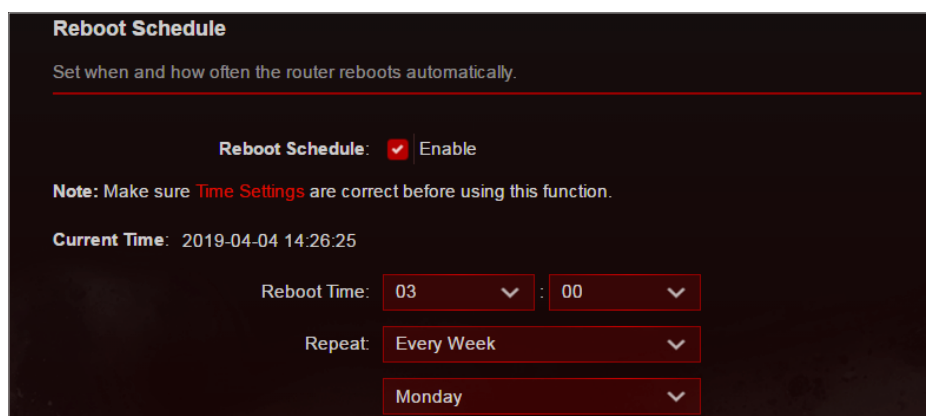


2. Select the correct **Start** date and time when daylight saving time starts at your local time zone.
3. Select the correct **End** date and time when daylight saving time ends at your local time zone.
4. Click **SAVE**.

## 13. 10. Set the Router to Reboot Regularly

The Scheduled Reboot feature cleans the cache to enhance the running performance of the router.

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to **Advanced > System > Reboot**.
3. Tick the **Enable** box of **Reboot Schedule**.



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

## 13. 11. Control the LED

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

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Advanced](#) > [System](#) > [LED Control](#).
3. Enable [Night Mode](#).
4. Specify the LED off time, and the LED will be off during this period every day.  
**Note:** The effective LED off time is based on the time of the router. You can go to [Advanced](#) > [System](#) > [Time & Language](#) to modify the time.
5. Click [SAVE](#).

**LED Control**  
Turn the router's LEDs on or off.

LED Status: ☒

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

Night Mode: ☒ Enable

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

Current Time: 2019-04-03 18:00:05

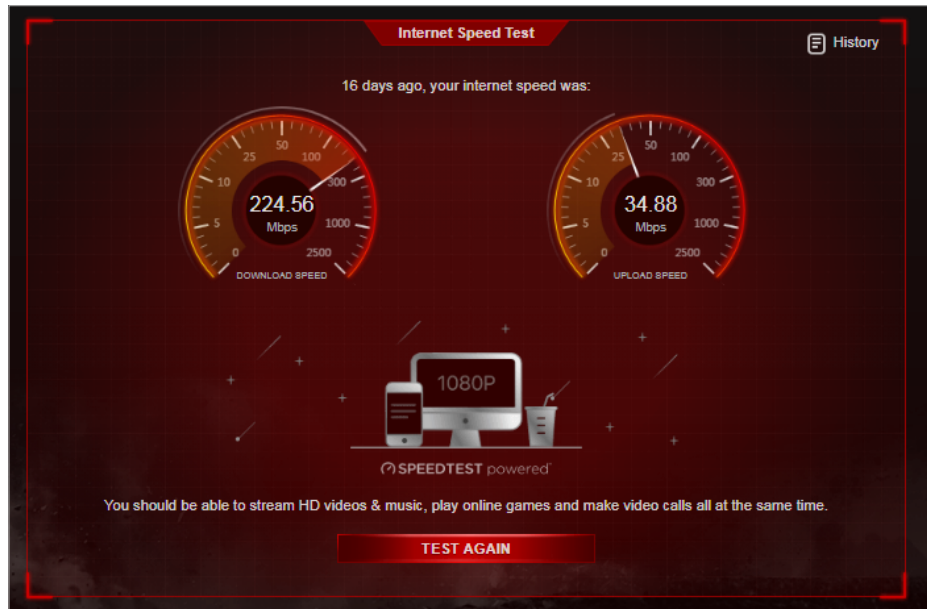
LED Off From: 22 : 00

To: 06 : 00 (next day)

## 13. 12. Test Your Internet Speed

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


- **To test your internet speed:**
  1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
  2. Go to [Network Map](#) and click [SPEED TEST](#).
  3. If it is the first time you run a test, the router will start the test automatically. Otherwise, click [TEST AGAIN](#).



**Note:**

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

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

1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Network Map](#) and click  to view a record of previous test results.

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

## Chapter 14

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# Game Center

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

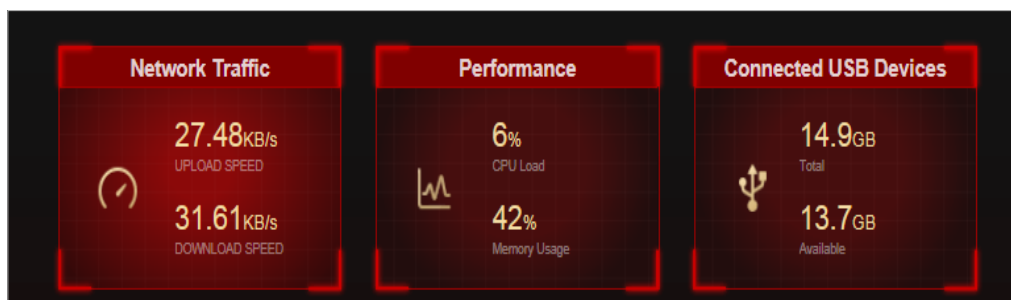
It contains the following sections:

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

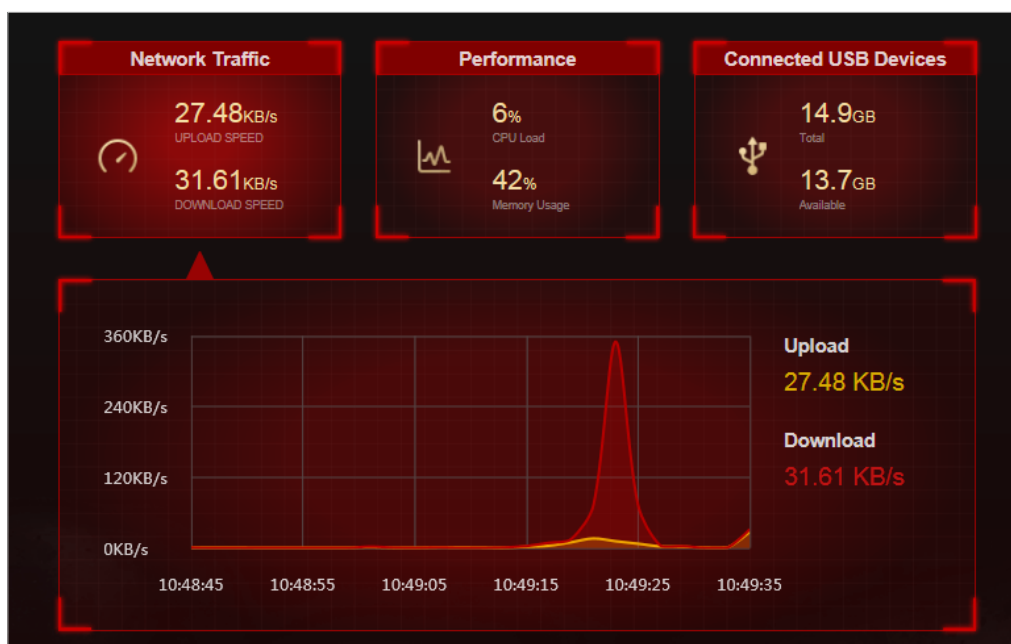
## 14. 1. Check Key Parameters through Dashboard

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

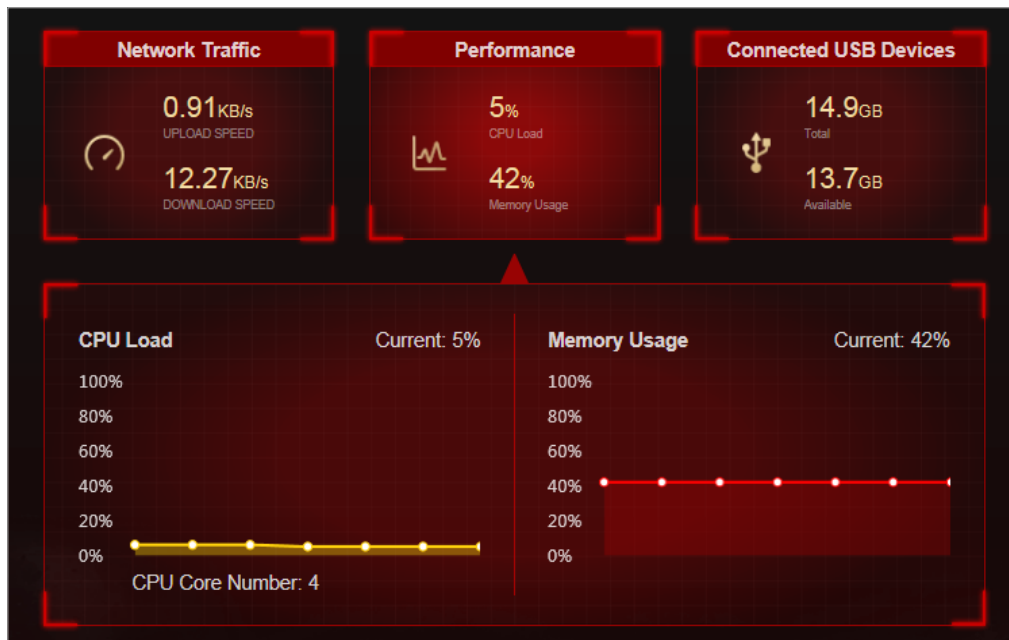
1. Visit <http://tplinkwifi.net>, and log in with your TP-Link ID or the password you set for the router.
2. Go to [Game Center](#) > [Dashboard](#).




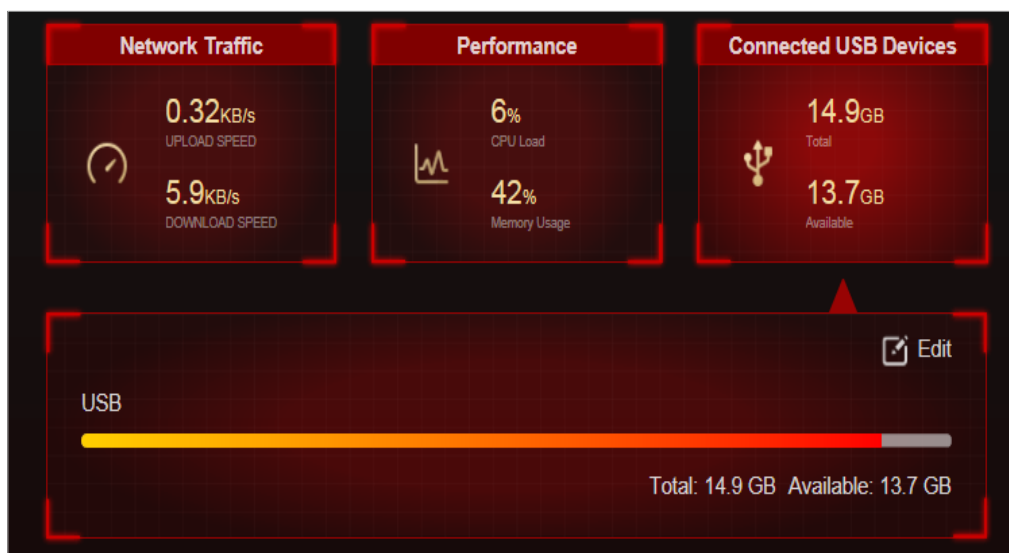
3. Click [Network Traffic](#) to view the real-time upload and download speed for the WAN port.



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



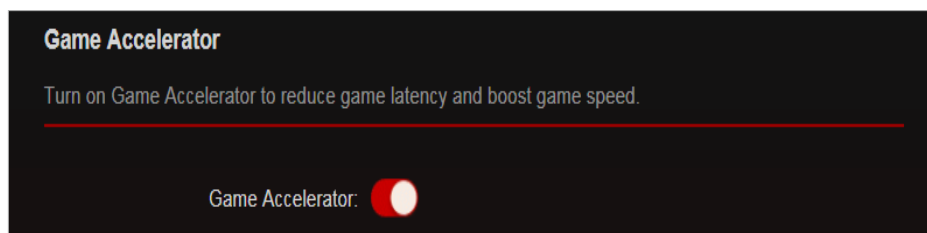
5. Click [Connected USB Devices](#) to view the total and available memory capacity of connected USB devices. Click the edit button  to transfer to the USB settings page for sharing files and media from the USB storage devices. You can also go to [Advanced > USB > USB Storage Device](#) for configuration.







## 14. 2. Boost Game Speed through Game Accelerator

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

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




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

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

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

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

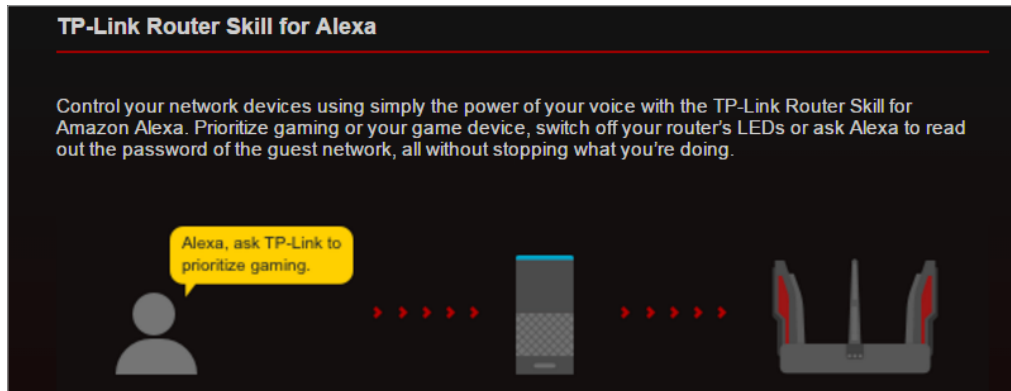
**Latency:** Displays the round-trip time that a router pings a client. Click  to refresh the value of latency. If the client disables ping response, the value will be displayed as "--".


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

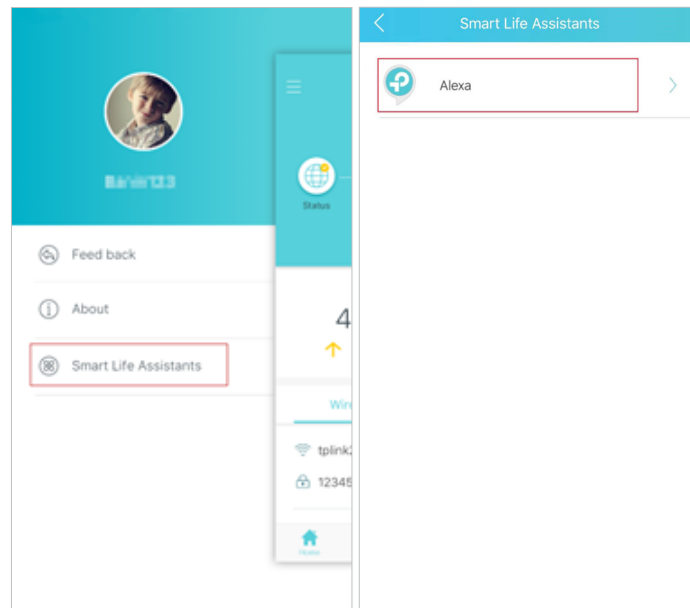
## 14.3. TP-Link Router Skill for Alexa

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

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



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



## 14. 4. Game Protector

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

## 14. 5. VPN Server

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

## 14.6. Port Forwarding

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

## 14.7. Game Diagnostics

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

# FAQ

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

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

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

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

- If you are using a TP-Link ID to log in, or you have enabled the Password Recovery feature of the router, click [Forgot Password?](#) on the login page and then follow the instructions to reset it.
- Alternatively, press and hold the Reset button of the router until the LED blinks to reset it, and then visit <http://tplinkwifi.net> to create a new login password.

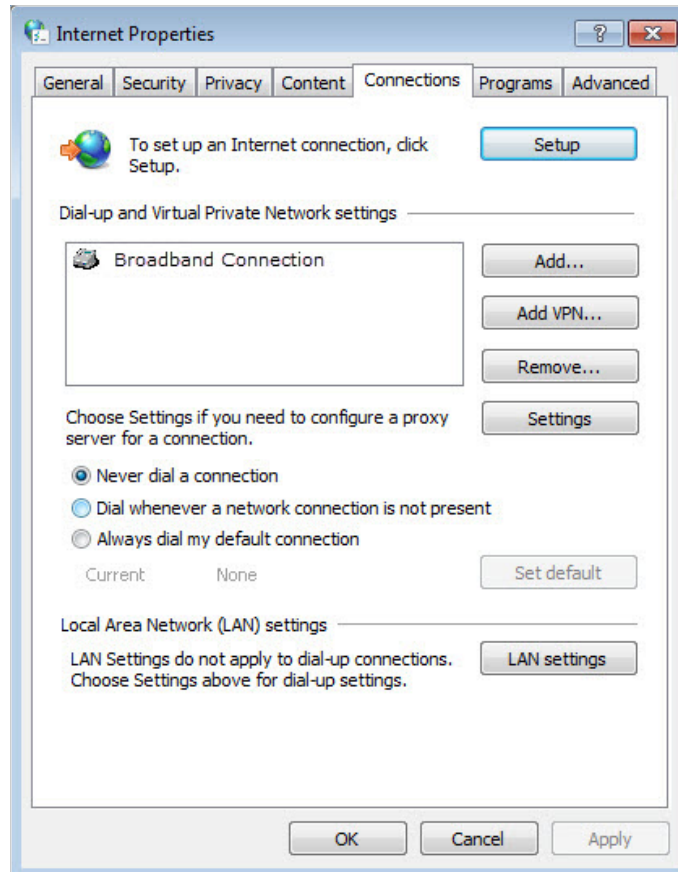
### Note:

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

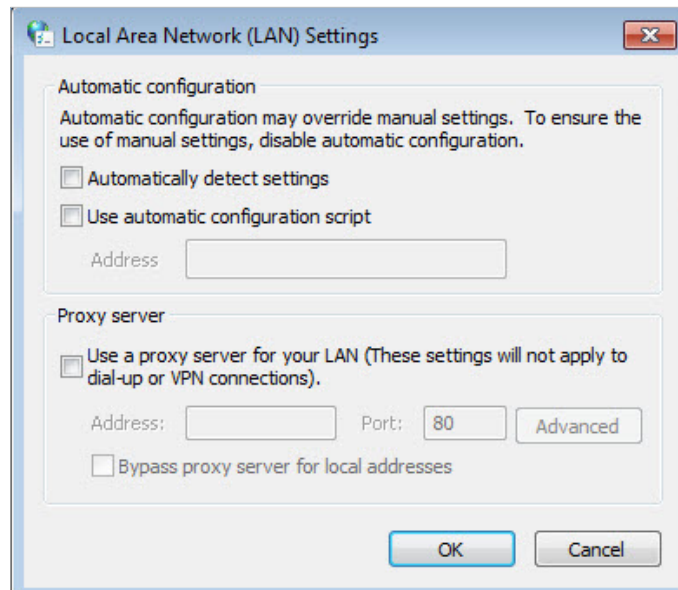
## Q3. What should I do if I cannot log in to the router's web management page?

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

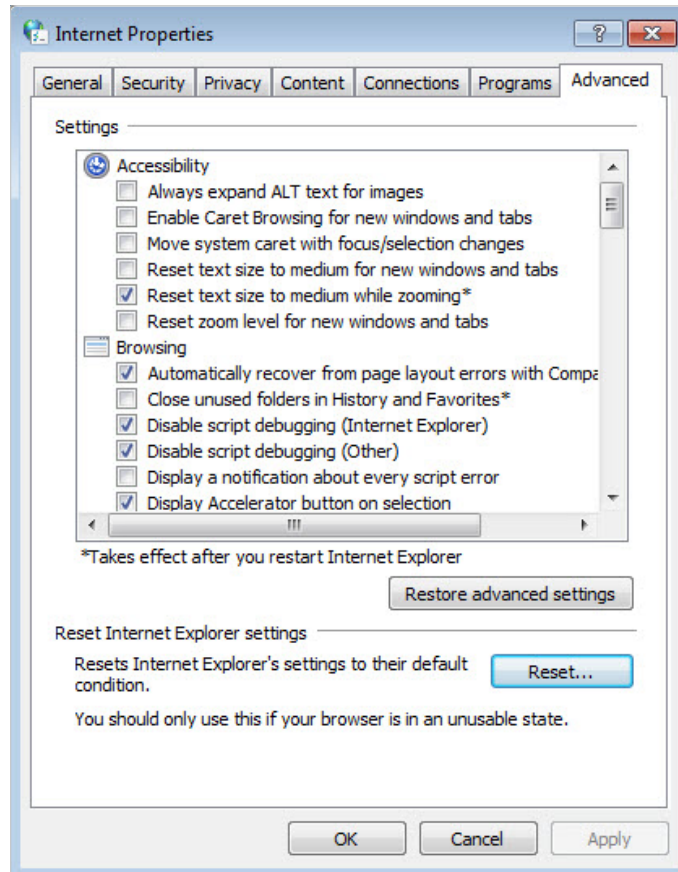
- Make sure your computer is connected to the router correctly and the corresponding LED indicator(s) light up.
- Make sure the IP address of your computer is configured as [Obtain an IP address automatically](#) and [Obtain DNS server address automatically](#).
- Make sure <http://tplinkwifi.net> or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



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



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



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

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

#### Q4. What should I do if the router can't be found via Bluetooth in Tether (how to reset the router)?

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

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

#### Q5. What should I do if I cannot access the internet even though the configuration is finished?

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