ShenZhen Ceres Technology
WR Series Wireless Router
WR135G-M3x User Manual

Version：V1.0

Content

1 About This Guide

This guide is a complementation of Quick Installation Guide. The Quick Installation Guide instructs you on quick Internet setup, and this guide provides details of each function and shows you the way to configure these functions appropriate to your needs.

When using this guide, please notice that features 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.

2 Note

2.1 Installation Precautions

- Do not place the equipment near flammable or conductive items, high temperatures (such as direct sunlight) or in wet conditions, or on a PC chassis, and check that the surrounding appliances are stable.
- Check the cable for aging. Check and verify that the AC or DC input voltage is within the permissible range of the device and that the polarity of the DC is correct.
- Unless the manufacturer permit, use the type of power indicated on the label and the adapter supplied with the product.
- To prevent damage to the product from lightning, make sure that the ground of the power outlet and the power adapter is securely grounded. In the thunderstorm, be sure to unplug the power and all the connections.
- Equipment input voltage fluctuation should be less than 10%, the power plug, refrigerators, hair dryer and iron should not use the same socket.
- To avoid electric shock or fire due to overload of the power outlet, damage to the cord or damage to the plug, check the power cord regularly. If damage is found, replace it immediately.
- Please place the device on a flat surface and can not place items on the device.
- Equipment is easy to produce heat when working, should maintain the appropriate cooling space to avoid damage caused by overheating products. The elongated hole on the shell is designed for heat dissipation. Keep the ventilation clean and avoid falling from the heat sink into the equipment. Otherwise, the equipment may be damaged or fire. Do not spill liquid onto the surface of the equipment.

2.2 Precautions for Use

- Please read the user manual carefully before using the equipment and follow all the precautions on the user manual and the product.
- Turn off the power when the device is not in use
- Before plugging the power supply, make sure that the power switch is turned off to avoid surge. Be careful when unplugging the power supply and the transformer temperature may be high.
- To ensure safety, do not open the enclosure of the device, especially when the device is powered up.
- Unplug the power supply before cleaning the equipment. Use a soft dry cloth to clean the equipment to avoid the use of liquids or sprays.
- Do not connect this product to any electronic product unless it is instructed by our customer engineer or your broadband supplier, as any incorrect connection may cause power or fire hazard.

3 Get to Know About Your Router

3.1 Product Overview

WR135G-AC1200 is a wireless router that supports 1 10/100/1000Mbps WAN port and 4 10/100/1000Mbps LAN ports. The 2.4G WI-FI rate can reach 300Mpbs, and the 5G WI-FI rate can reach 867Mpbs, allowing you to quickly set up a 300Mbps wireless network or an 867Mbps wireless network, allowing your computer to access the Internet. The wireless router is compatible with the IEEE802.11b/g/n/ac standard, with four external antennas, supports a maximum data rate of 1200Mbps, and has the characteristics of strong penetration and wide coverage, providing users with more efficient data transmission protection.

3.2 Product Features

- A wan port and four lan ports all support automatic negotiation and port automatic reverse
- Support NAT function
- Support IP bandwidth control, reasonable distribute network bandwidth
- Support WDS wireless bridge, easily extend wireless networks
- Support parents control function, can control time online and Internet content
- Supports PPPoE, Dynamic IP, Static IP access to internet
- Support DDNS, static routing Pass - through
- Provide DoS attack prevention, with functions of automatic isolation virus
- Support virtual servers, special application and DMZ host port forwarding, can be used in the construction of Intranet web sites
- Support SSID broadcasting control, support access control list based on the MAC address
- Built-in firewall, support IP, MAC, URL filtering, can be flexible to control Internet access and online time
- Built-in DHCP server, and can automatically and dynamically assigned IP address
- Support free software upgrade

3.3 Product Specifications

- Working Temperature: -10℃ to 50 ℃
- Storage Temperature: - 30 ℃ to 70 ℃
- Work Humidity: 10% to 90%RH does not condense
- Storage Humidity: 5% to 90%RH does not condense
- Power Adapter Input: DC12V/1A

3.4 The Back Panel

The following parts (view from left to right) are located on the rear panel.

Item	Description
LAN1-LAN4	connect computers and other terminal devices.
WAN	connect the operators network .
PWR	For connecting the router to a power socket via the provided power adapter.

3.5 Top View

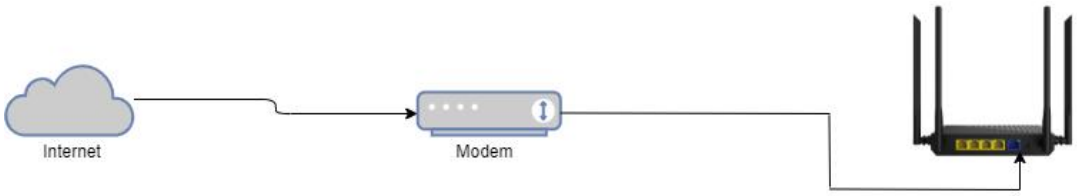
The router's LEDs (view from left to right) are located on the front panel. You can check the router's working status by following the LED Explanation table.

name	Status	Indication
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
2.4G	On	The 2.4GHz wireless band is working properly.
	Flashing	At least one device is connected to a wireless network and has traffic passing through
	Off	The 2.4GHz wireless band is disabled.
5G	On	The 5GHz wireless band is working properly.
	Flashing	At least one device is connected to a wireless network and has traffic passing through
	Off	The 5GHz wireless band is disabled.

4 Connect Your Router

4.1 DSL/Cable/Satellite modem connected to 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 Step 4 and 5 to complete the hardware connection.

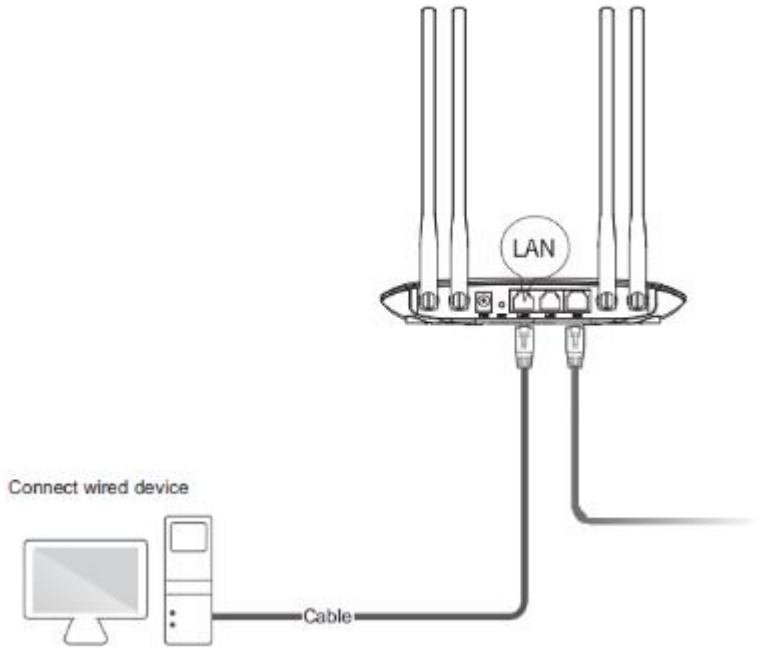


1) Turn off the modem.
2) Connect the modem to the WAN port on the router via an ethernet cable.
3) Turn on the modem, and then wait about 2 minutes for it to restart.
4) Turn on the router.
5) Verify that the hardware connection is correct by checking these LEDs.

4.2 Connect your computer/Phone to the router.

Method 1: Wired

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



Method 2: Wireless

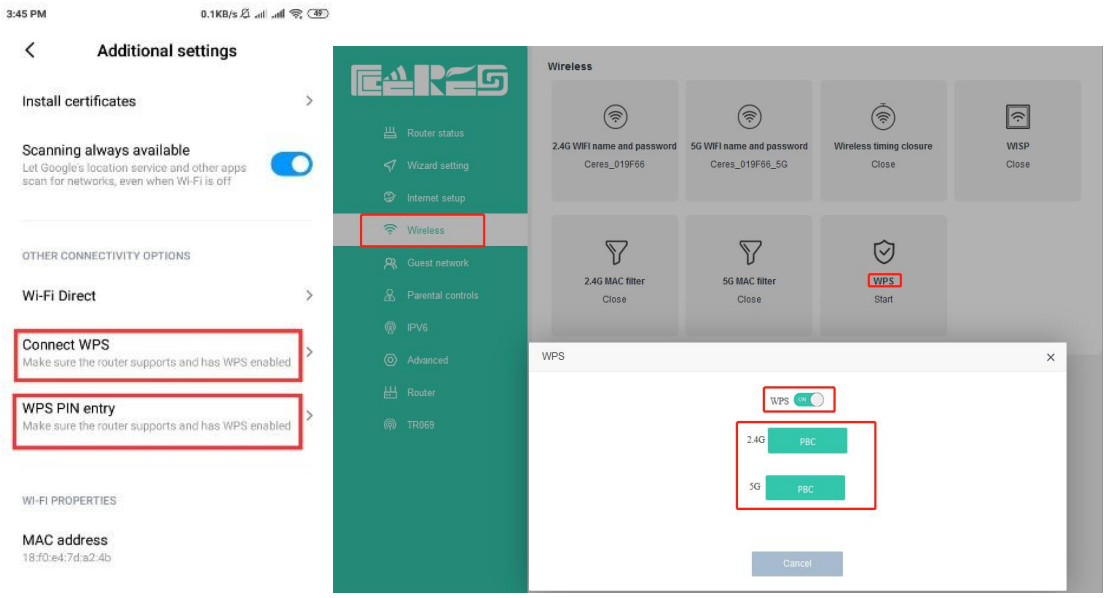
1) Find the SSID (Network Name) and Wireless Password printed on the label at the bottom of the router.
2) Click the network icon of your computer or go to Wi-Fi Setting of your smart device, and then select the SSID to join the network.

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).

1. Choose Connect WPS on your phone

2.Click the WPS button on the router web management



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.

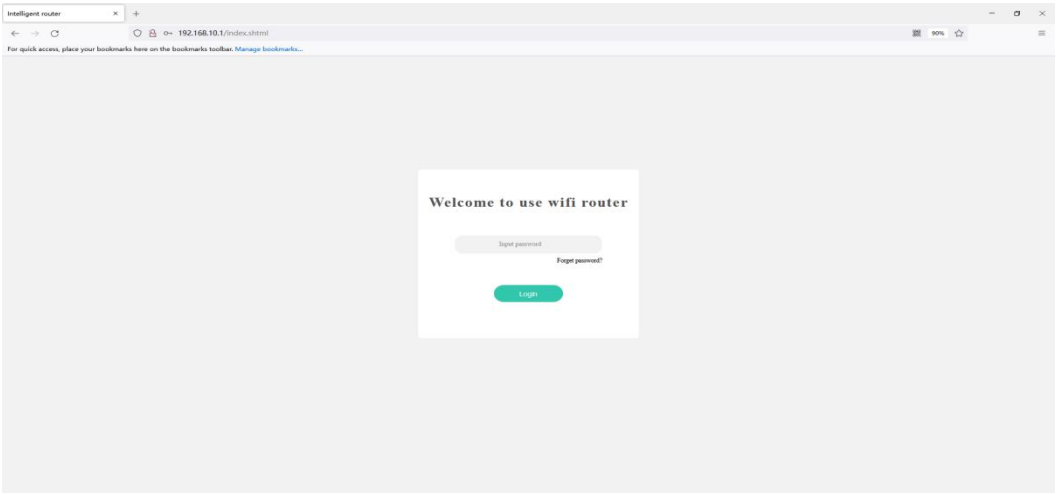
5 Log into Your Router

With the 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.

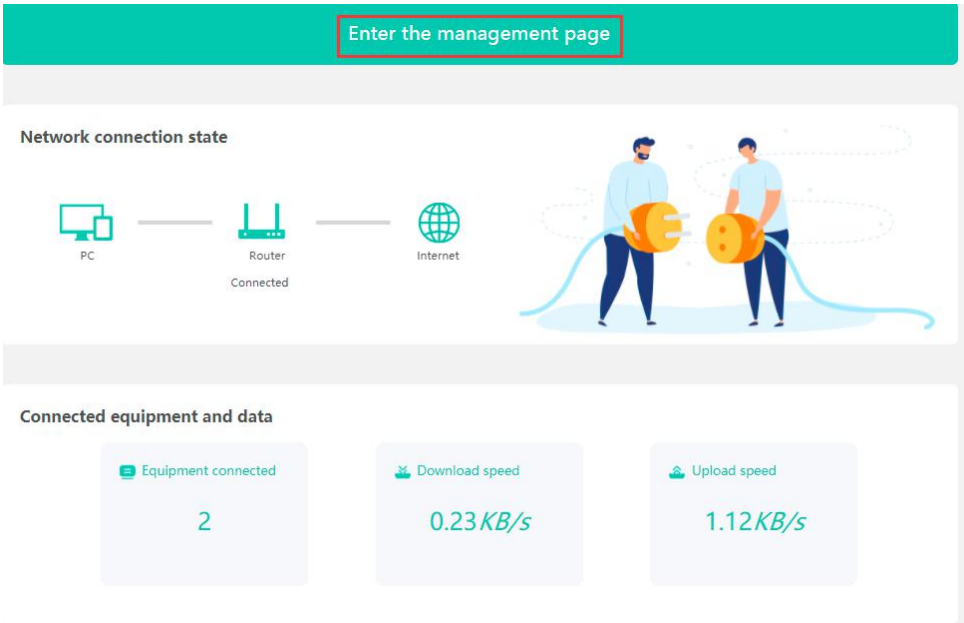
Follow the steps below to log into your router.

1) Set up the TCP/IP Protocol in Obtain an IP address automatically mode on your computer.

2) open PC Web browser (IE, firefox, Google), copy and paste the WIFI router to access the URL：http://192.168.10.1 or http://cereslogin.com, then pop-up WIFI router prompt login page as follows:



Input WIFI router **PassWord**：admin，Click "**LogIn**" button. Then we can see setup guide as follows：

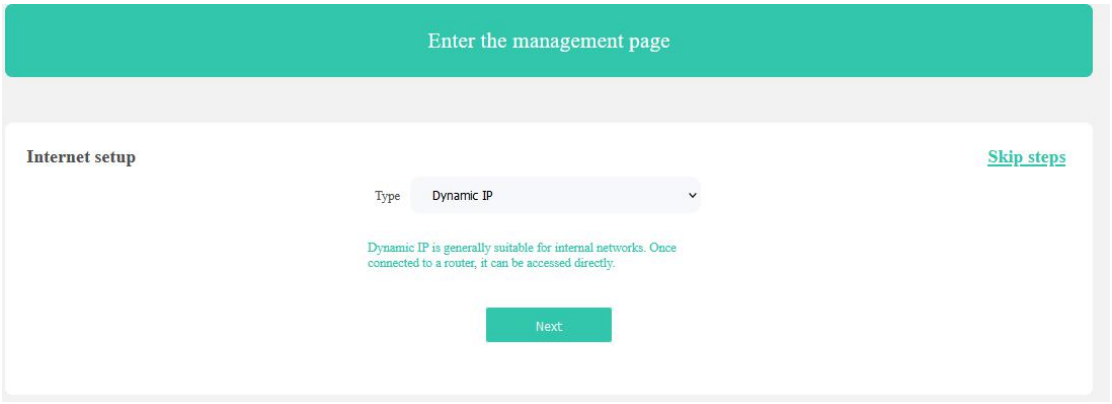


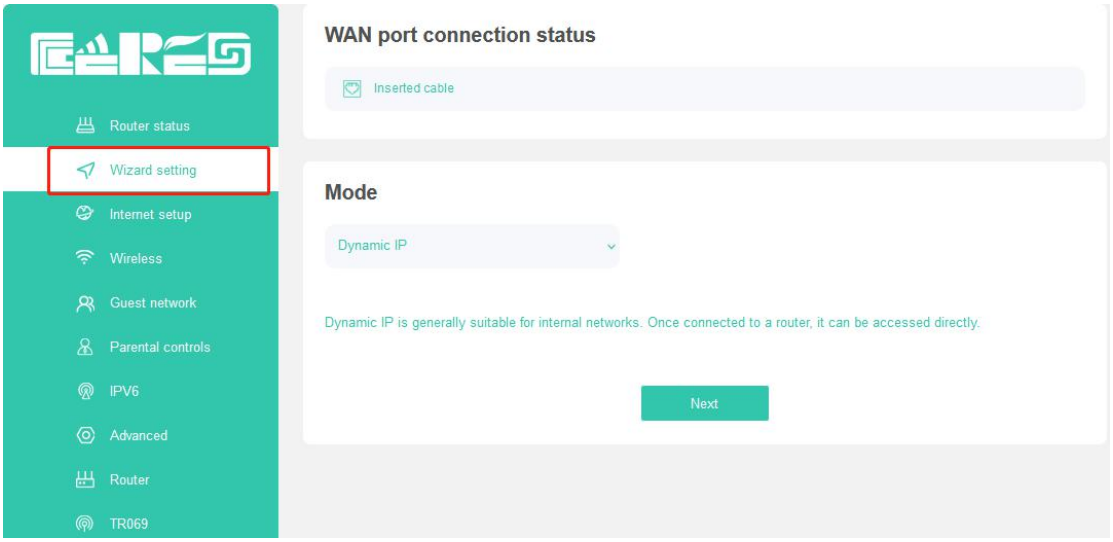
Click 【**Enter the management page**】to enter the main interface of the WIFI router, you can further set up the WIFI router, next we can see the set guide.

6 Set Up Internet Connection

6.1 Use Quick Setup Wizard

There will be a quick setting wizard when the device that has just been shipped from the factory enters the web management. If you skip the wizard, you can go to the Wizard setting on the management page.

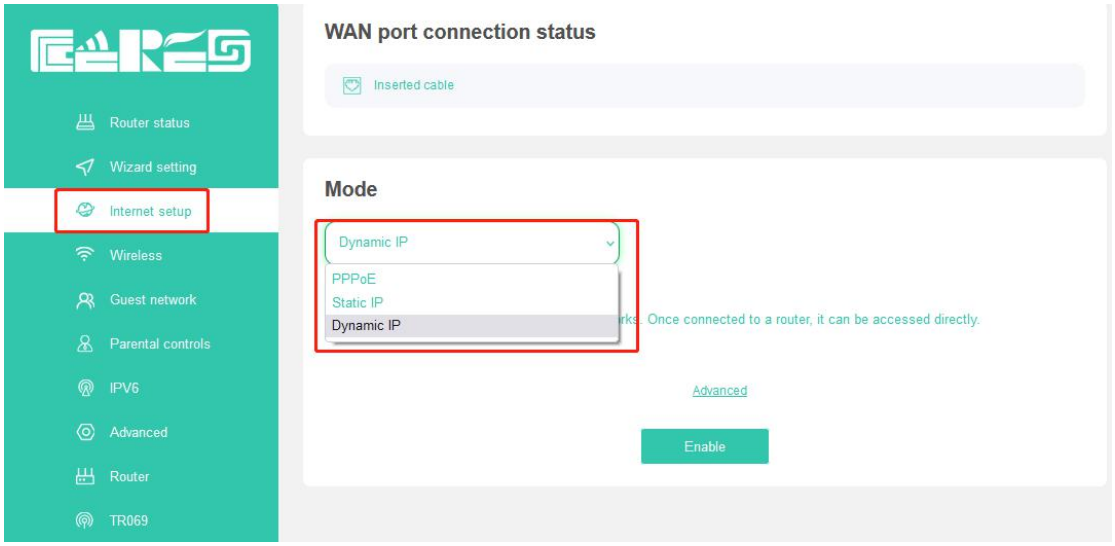




6.2 Manually Set up Your Internet Connection

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

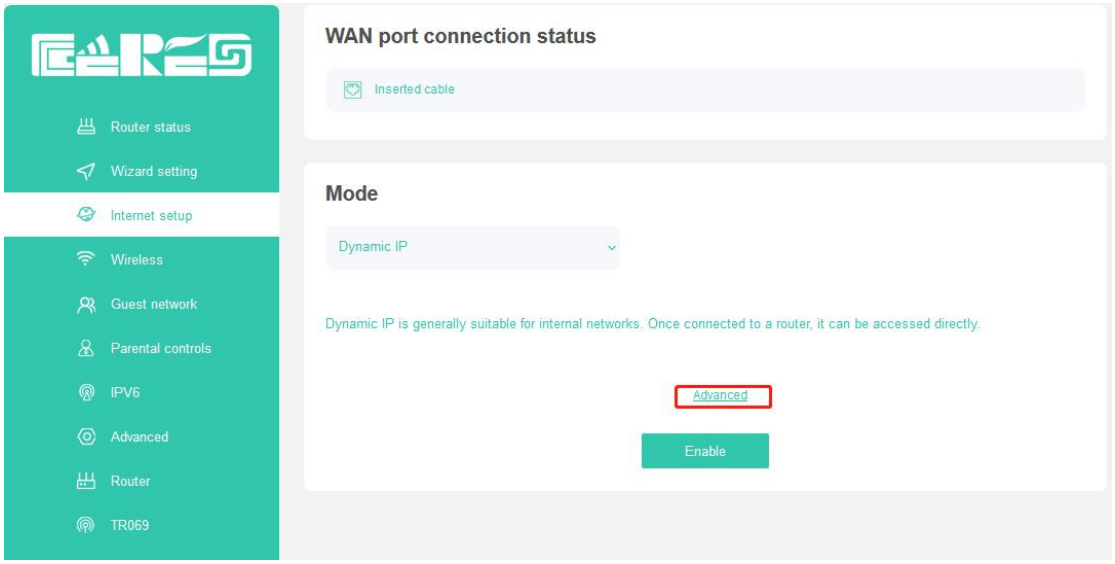
Follow the steps below to check or modify your Internet connection settings.
1.Visit http://192.168.10.1 or http://cereslogin.com
2. Go to **Internet setup**->**Mode**
3.Select your Internet connection type from the drop-down list.

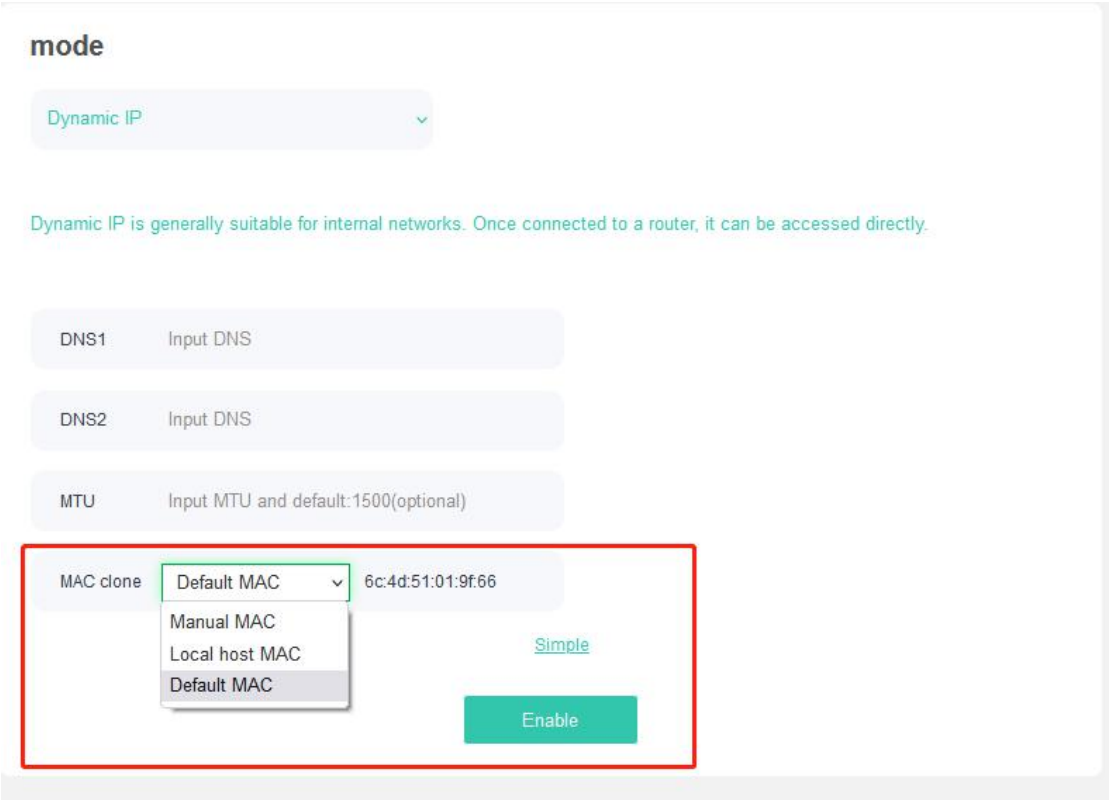


4.Follow the instructions on the page to continue the configuration. Parameters on the figures are just used for demonstration.

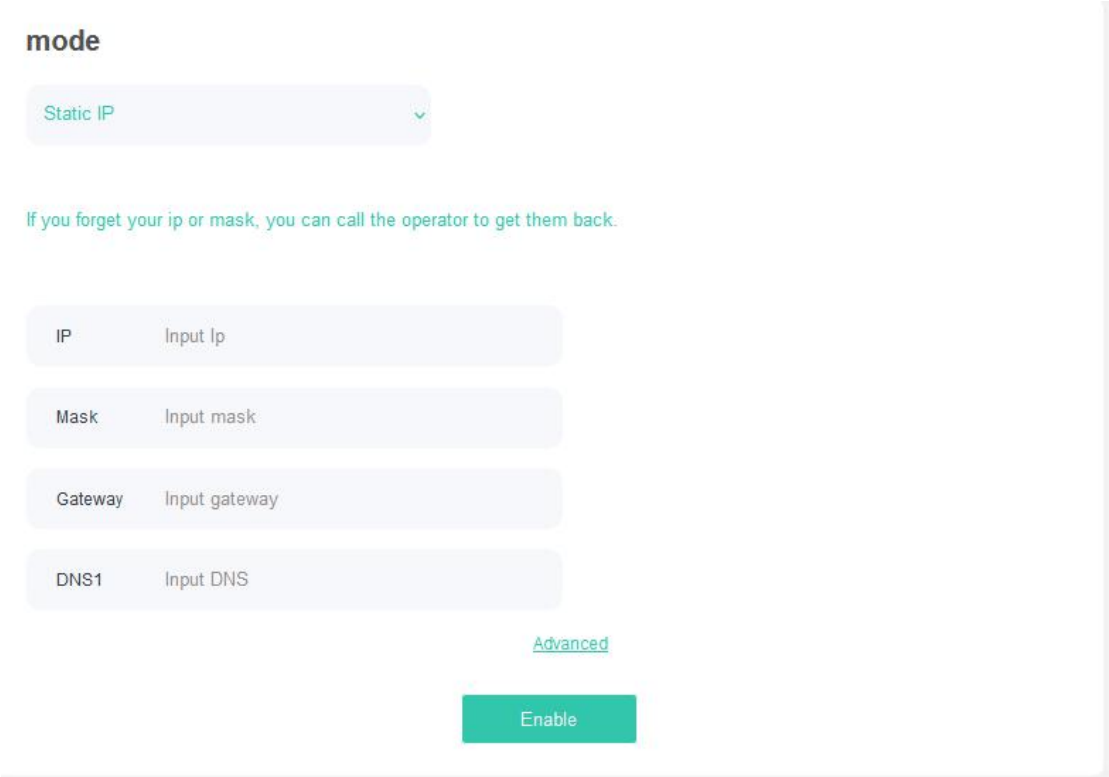
1) If you choose **Dynamic IP**, you need to select whether to clone the MAC address.

Dynamic IP users are usually equipped with a cable TV or fiber cable.

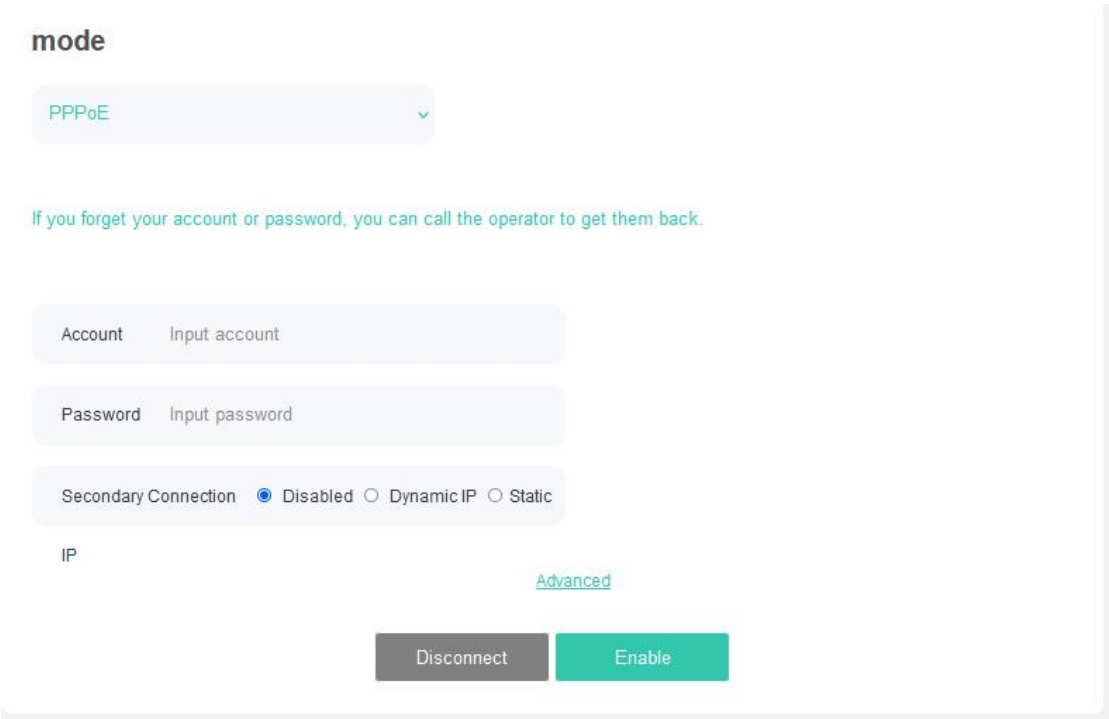




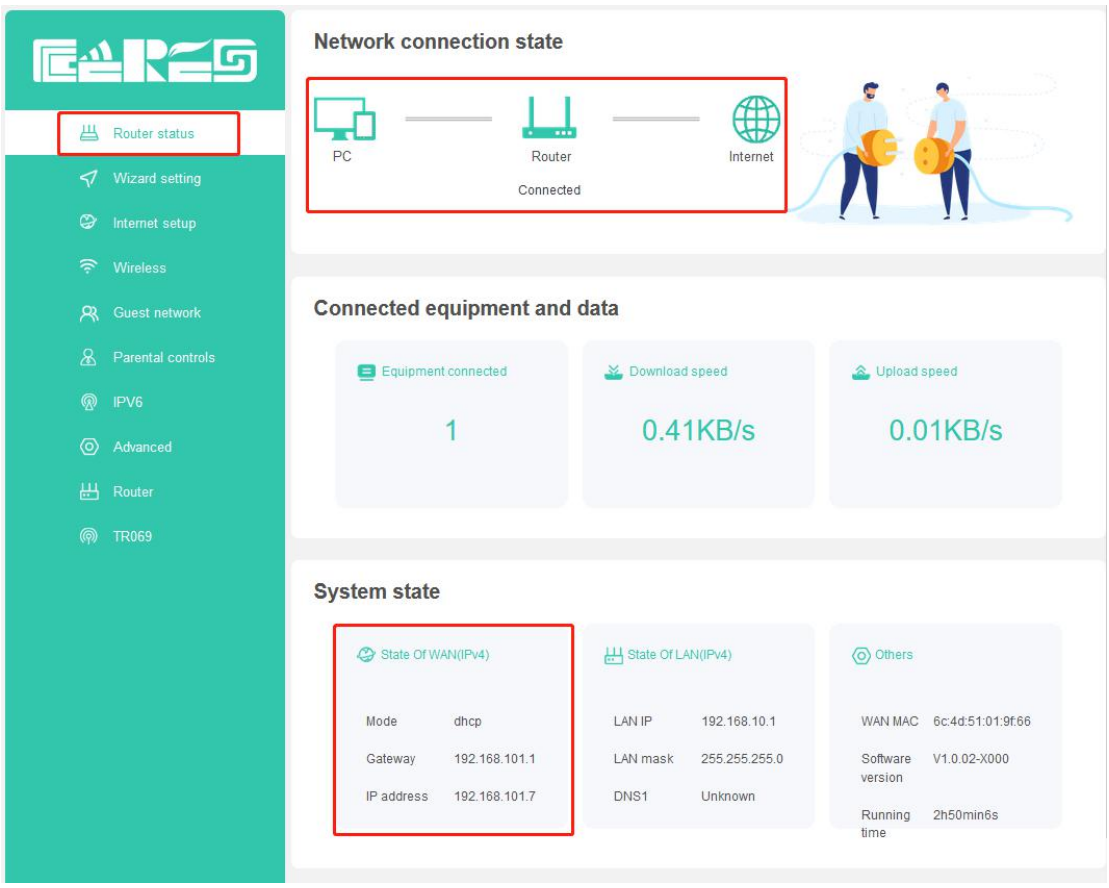
2) If you choose **Static IP**, enter the information provided by your ISP in the corresponding fields.



3) If you choose **PPPoE**, enter the username and password provided by your ISP.



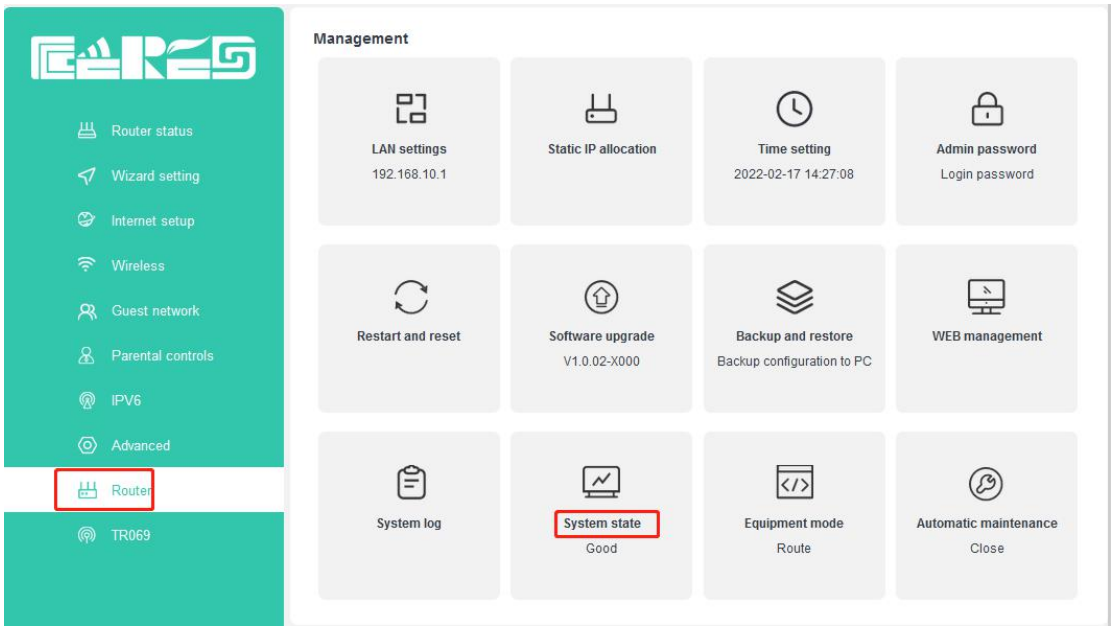
5. Click **Enable**.To check your Internet connection, click Router status on the right of the page.
6.After the connection succeeds, the screen will display as follows. Here we take Dynamic IP as an example.

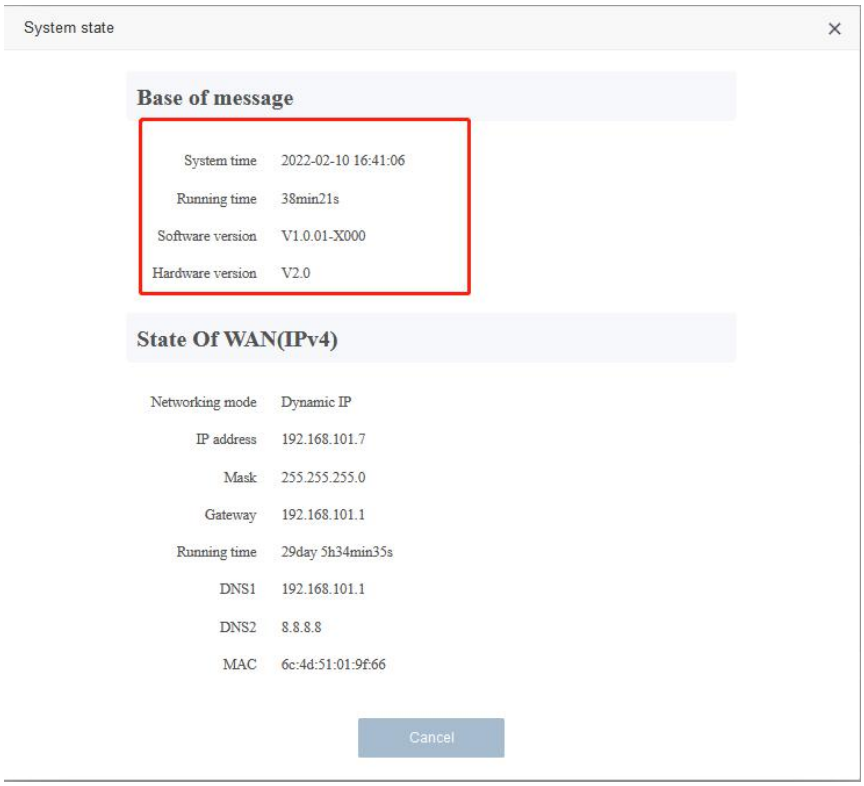


7 View Router Status

7.1 View Router System Status

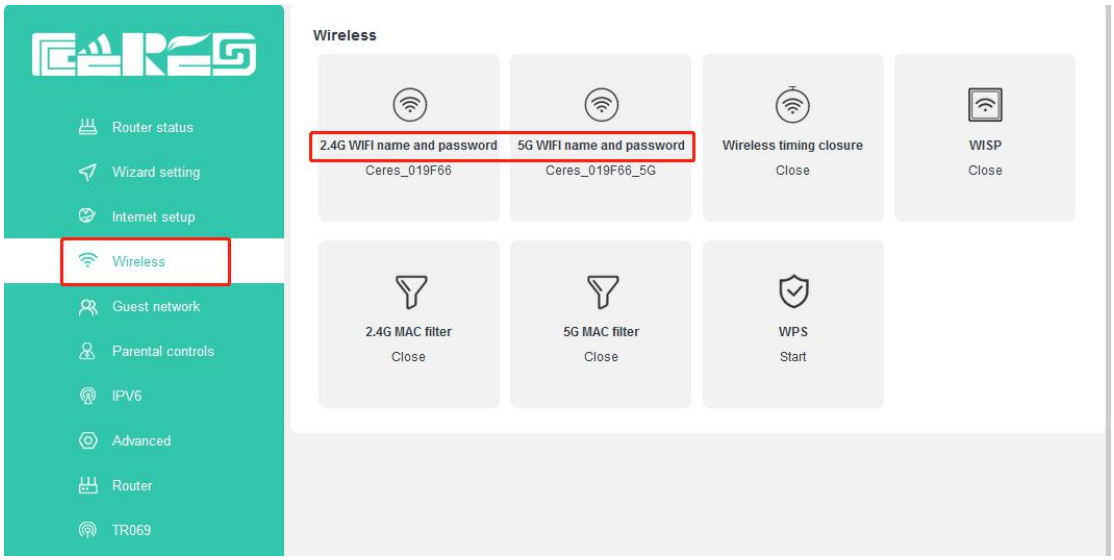
Entry router web main interface, then click **Router** ->**System state** ,then we can see router System time, firmware version and Running time：





7.2 View Router Wireless Information

Input router web main interface, then click **Wireless** -> **2G WIFI name and password** or **5G WIFI name and password**, then we can view WIFI mode, Channel and Bandwidth and etc：



8 Create a Network for Guests

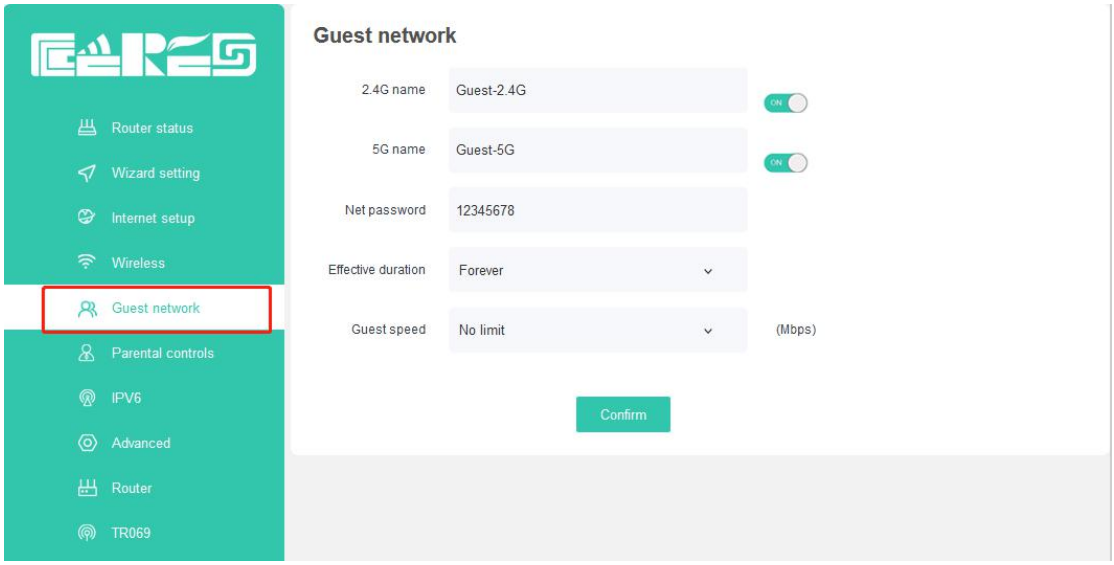
1.Visit http://192.168.10.1 or http://cereslogin.com

2.Go to **Guest network**

3.Create a guest network as needed.

1) Enable 2.4GHz Wireless network or 5GHz Wireless network.
2) Customize the SSID
3) set Password,Online time, speed limit

4.Click **Confirm**.Now your guests can access your guest network using the SSID and password you have set!



9 Router Lan Port Configuration

In WIFI router web main interface select **Route**r-> **LAN Settings**, then config parameter as follows:

【IP】Set local management IP address of WIFI router. The default IP address is 192.168.10.1

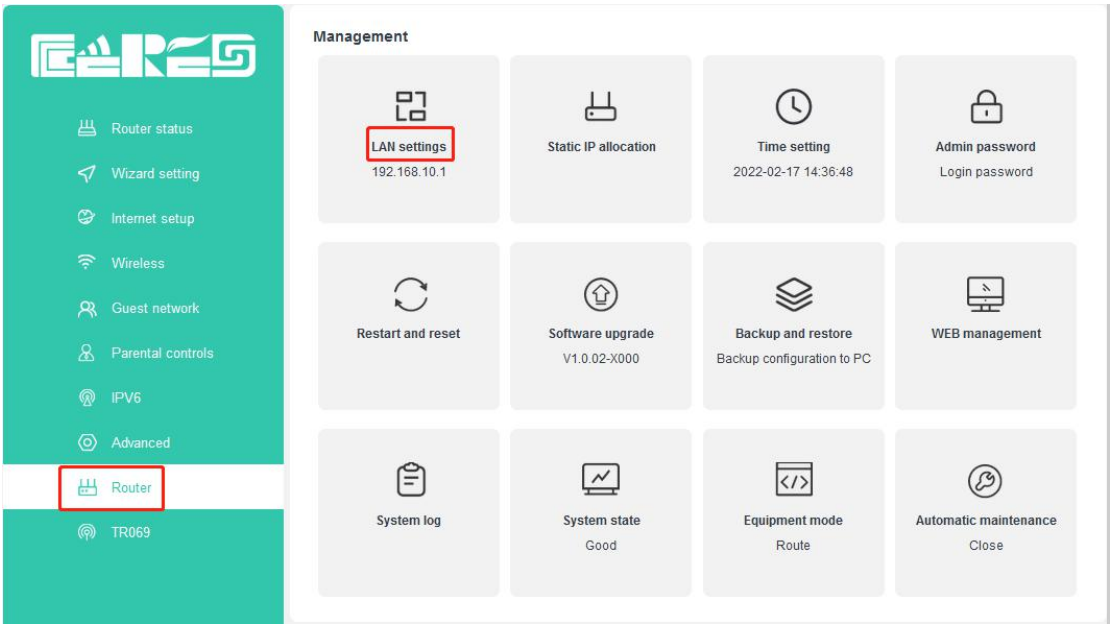
【mask】Set the mask of local management IP address of WIFI router

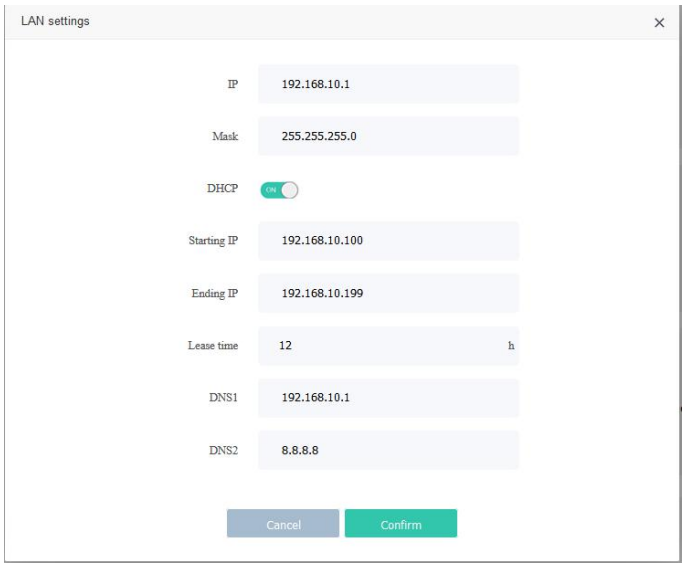
【DHCP】Click the button to enable or disable Router DHCP Server function.

【Start IP / End IP】Configure the IP address interval that allocated to the terminal. The address interval must be on the same network segment as the management IP address of the Router.

【DNS1】Set main DNS for internet wan connection(If not filled, the gateway address will be used as the DNS address)

【DNS2】Set second DNS for internet wan connection(If not filled, the gateway address will be used as the DNS address)



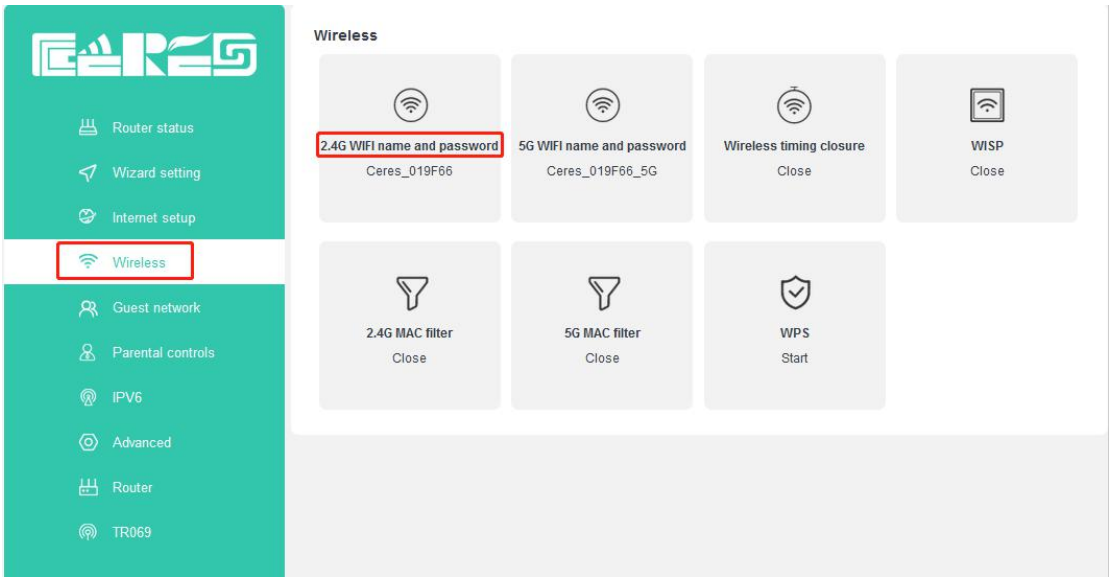


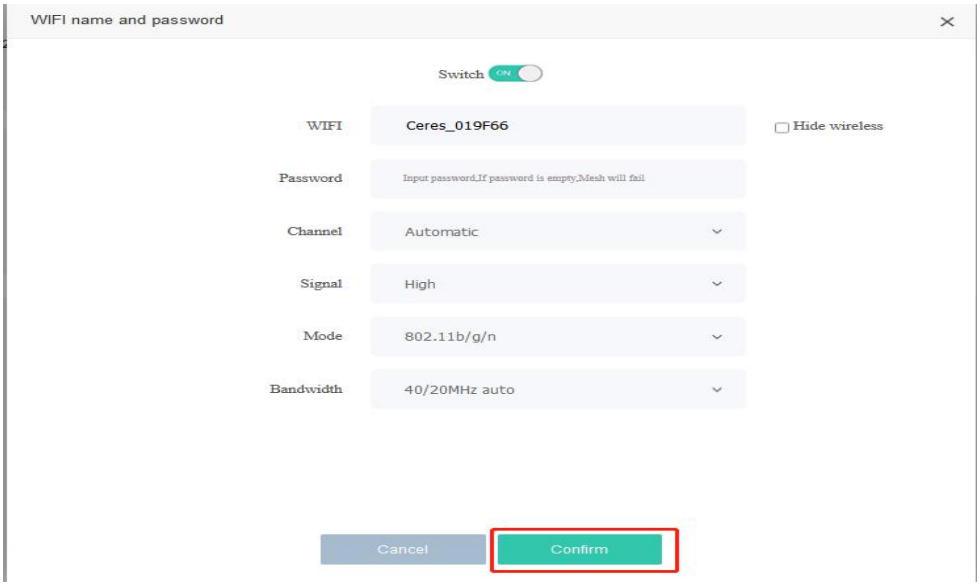
10 Wireless Configuration

10.1 Wireless 2.4G configuration

Login to WIFI router web main interface then click **Wireless->2.4G WIFI name and password** ,then config wireless as follows parameter:

Click the button next to switch to control the on and off of WIFI.
【Wifi】Set the name of the WIFI； Check hide wireless, then others cannot find this wifi;
【password】Set WIFI password
【Channel】Default is Auto, we can select a suitable channel refer to surrounding wifi environment；
【signal】Signal strength, there are three modes to choose：
【mode】Four modes for selection,Usually choose 802.11b/g/n;
【Bandwidth】 Default 40/20MHz；





After setting wireless configuration, click '**Confirm**' button to finish setting.

10.1 Wireless 5G configuration

Login to WIFI router web main interface then click Wireless->**5G WIFI name and password** ,then config wireless as follows parameter:

Click the button next to switch to control the on and off of WIFI.

【**Wifi**】Set the name of the WIFI； Check hide wireless, then others cannot find this wifi;

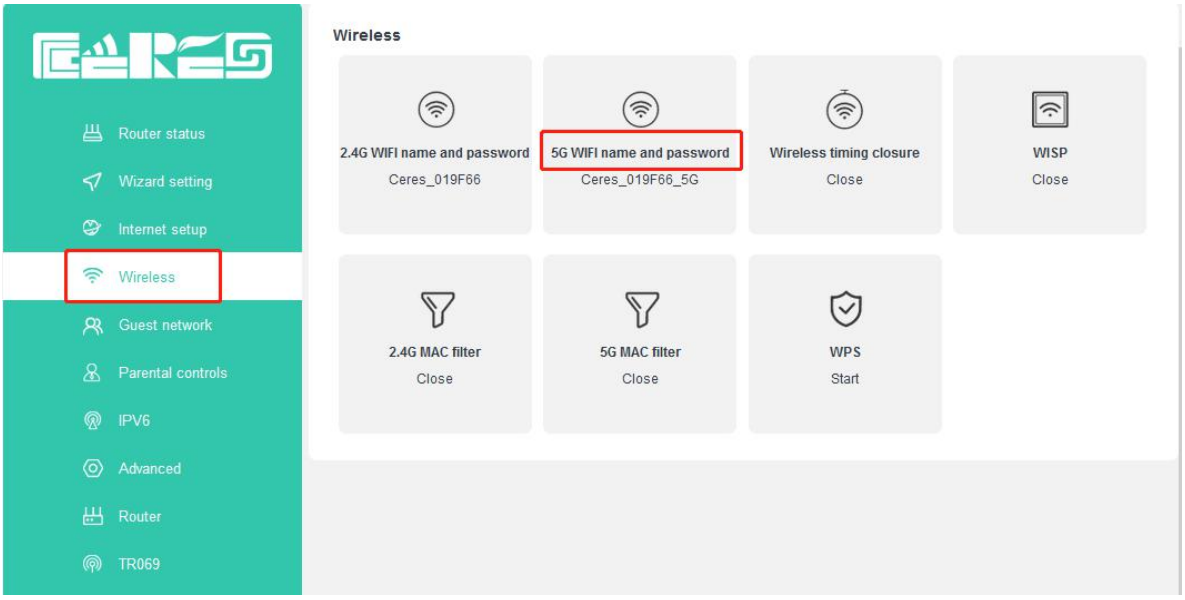
【**password**】Set WIFI password

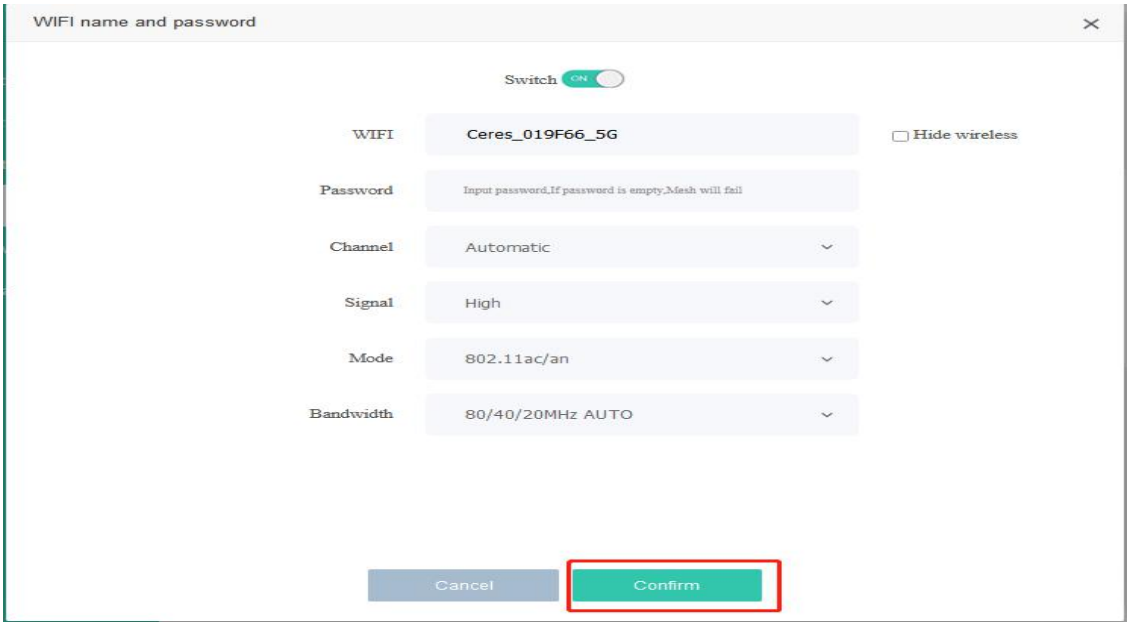
【**Channel**】Default is Auto,we can select a suitable channel refer to surrounding wifi environment；

【**signal**】Signal strength, there are three modes to choose；

【**mode**】Choose 802.11ax;

【**Bandwidth**】Default 80/40/20MHz;

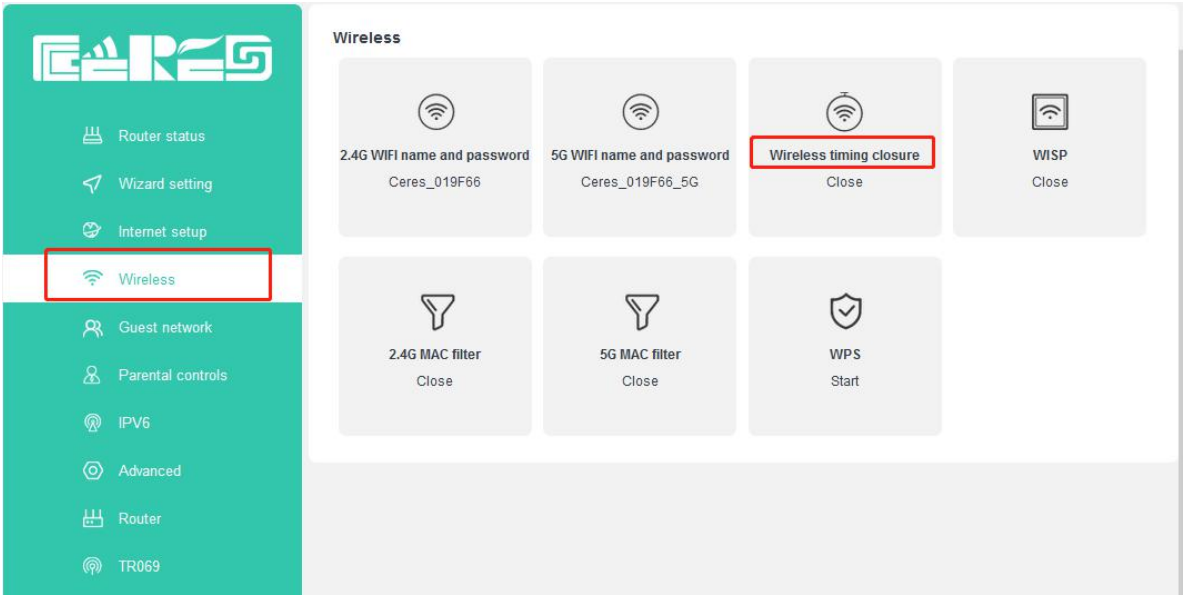




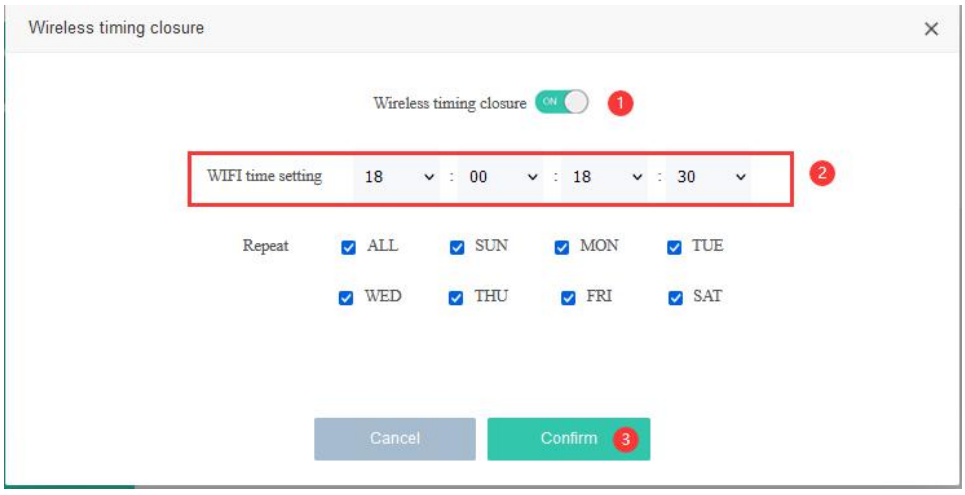
After setting wireless configuration, click 'Confirm' button to finish setting.

10.2 Wireless timing closure

Visit http://192.168.10.1 or http://cereslogin.com,Go to **Wireless->Wireless timing closure**

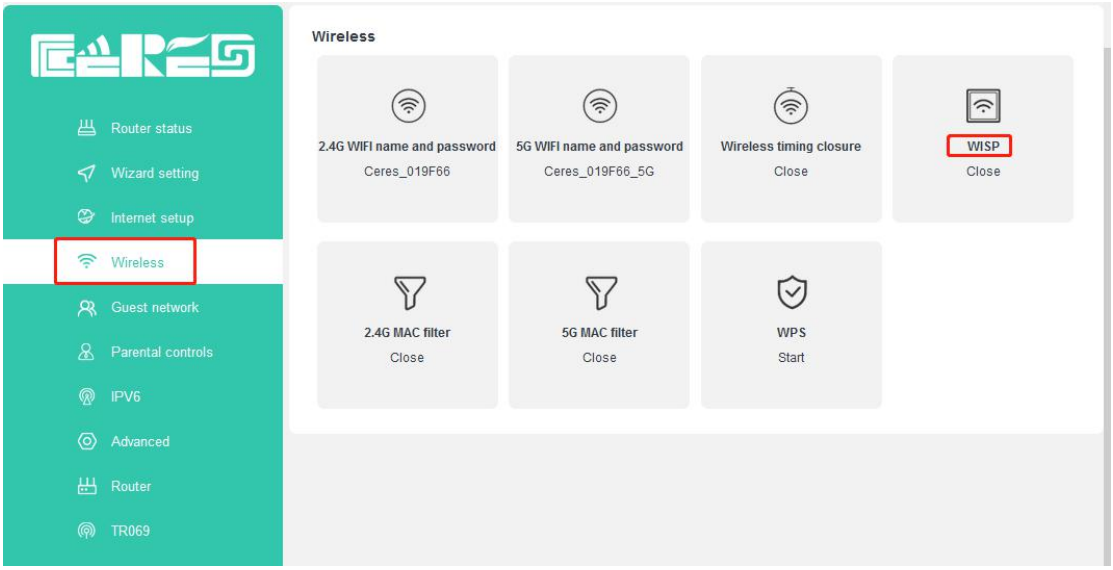


WIFI is closed from 18:00-18:30 if needed. Set as follows



10.3 Wireless Relay

Visit http://192.168.10.1 or http://cereslogin.com,Go to **Wireless->WISP**



1.Turn on WISP

2.select mode

WISP: The upper-level router will only display your routing information, and the devices under your router will not display it.

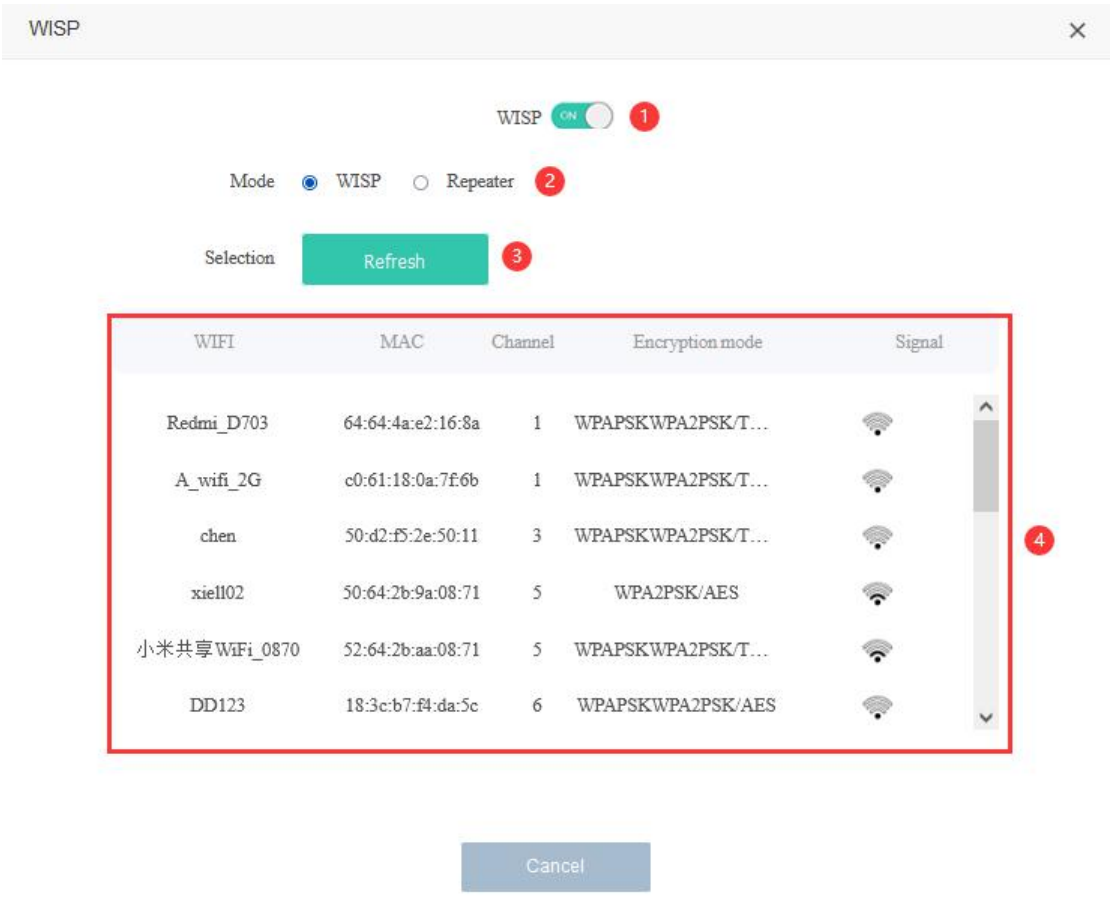
The IP of the connected device is assigned by your router, and the two network segments are different

Repeater: The upper-level router will not only display your routing information, but also the devices connected to your router will display

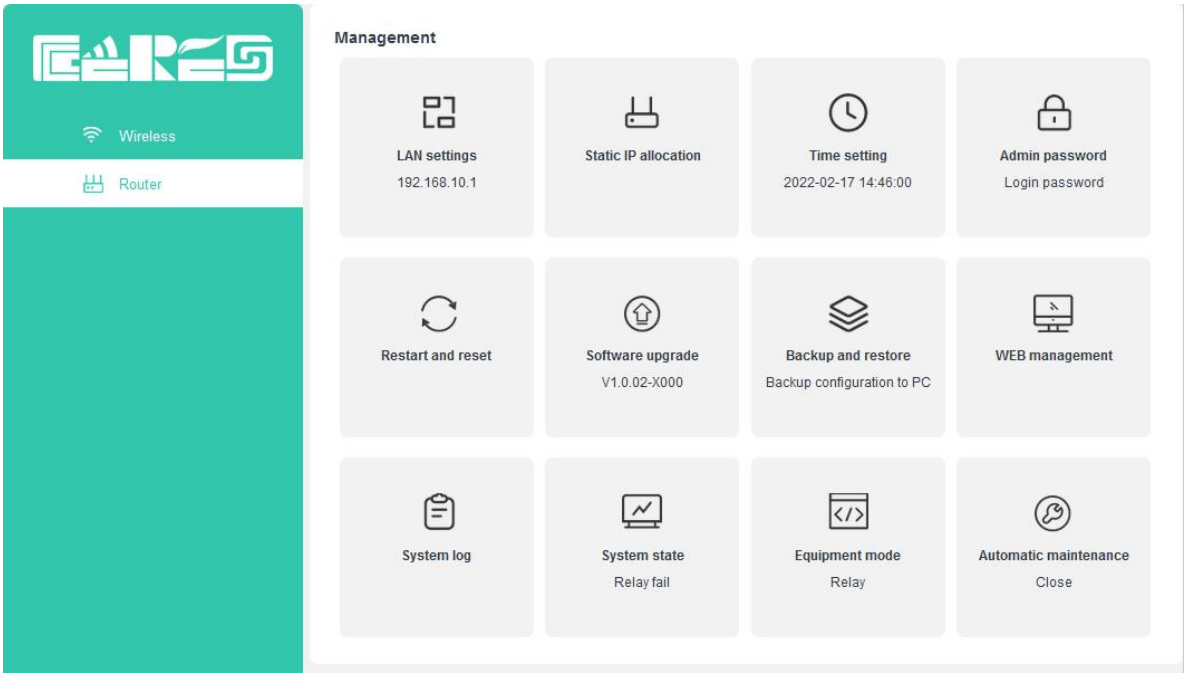
The IP of the connected device is allocated by the other party's route, and the network segment is the same

3.Select the WIFI that needs to be relayed

4.After success, the router will restart



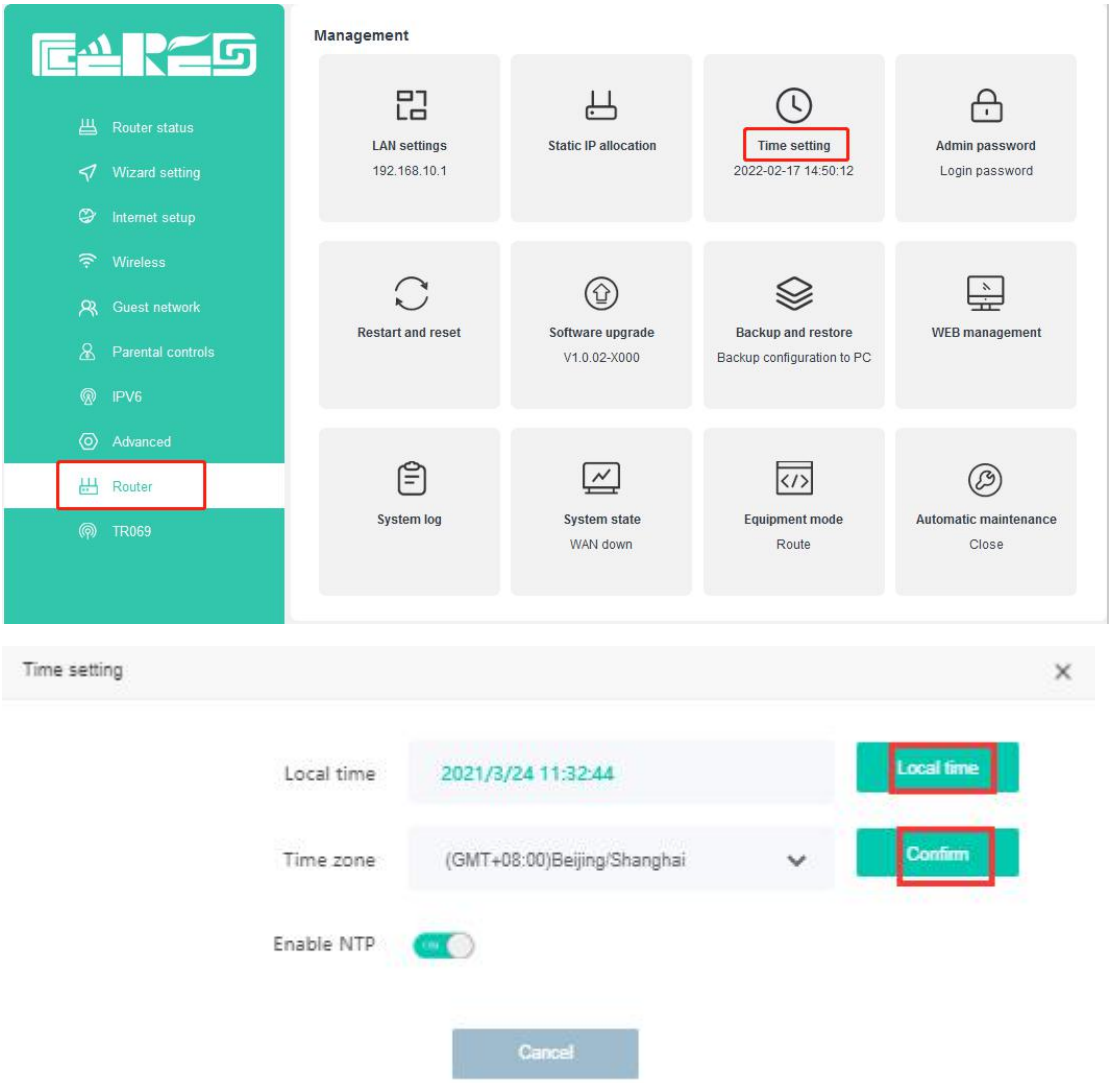
After the router restarts, the interface is as follows, and some functions cannot be used. If you want to use all the functions, please switch the router mode, how to switch, please refer to the **FAQ**



11 Router Management

11.1 Time Zone Config

Login WIFI router web main interface, click **Router** -> **Time Setting**, in this interface, we can config "**local time**" and "**Time zone**":



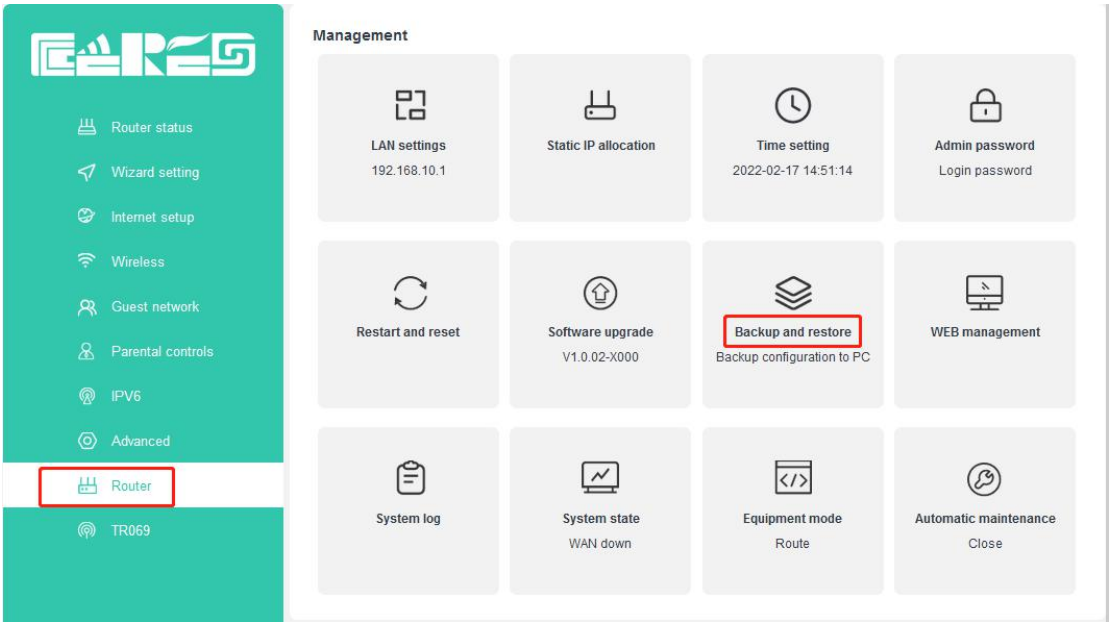
11.2 Backup And Restore Configuration Files

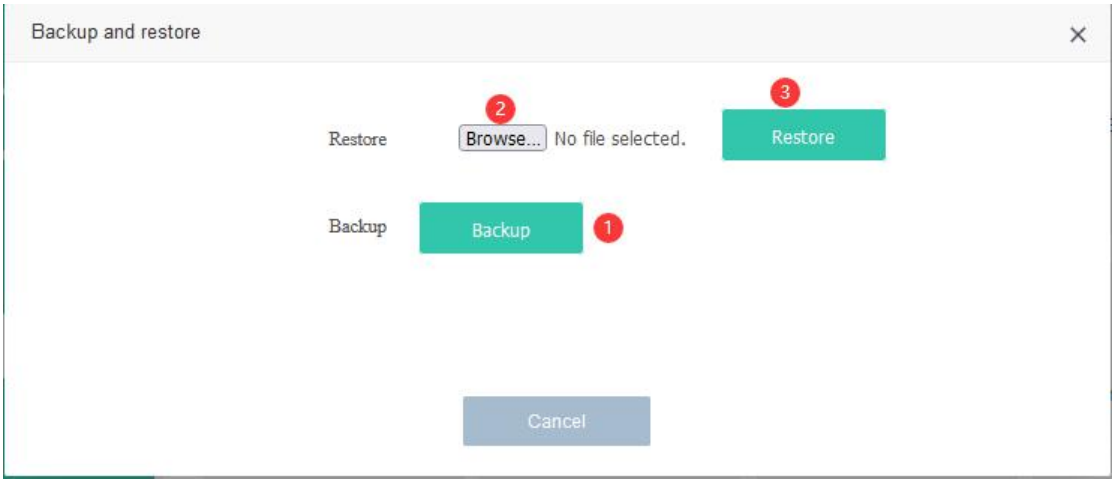
Login WIFI router web main interface, click **Router**-> **Backup and development**, then we can config WIFI router as follows:

1.Click " **backup** " button to save the system configuration locally.

2.Choose WIFI Router backup File to restore(**cofig.data**)

3.Click"**Configuration**" button to make configuration effect.

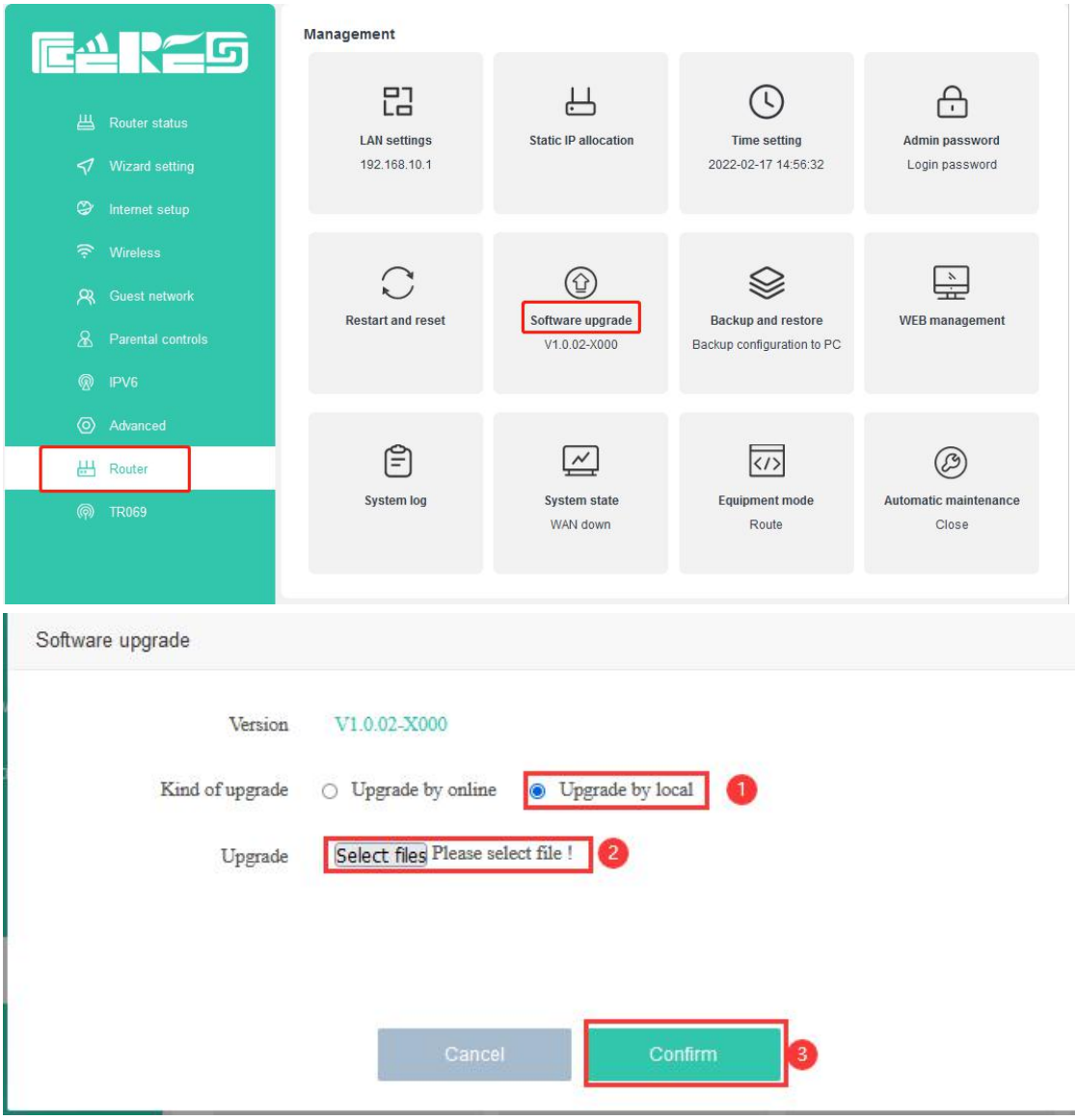




11.3 Firmware Upgrade

Login WIFI router web main interface, click **Router**-> **Software upgrade** ,then click "**Choose file**" button, Choose the version you want to upgrade, then click "**Confirm**" button to upgrade firmware.

Upgrade WIFI router need about four minutes, then WIFI router will auto reboot, don't need reboot manually.

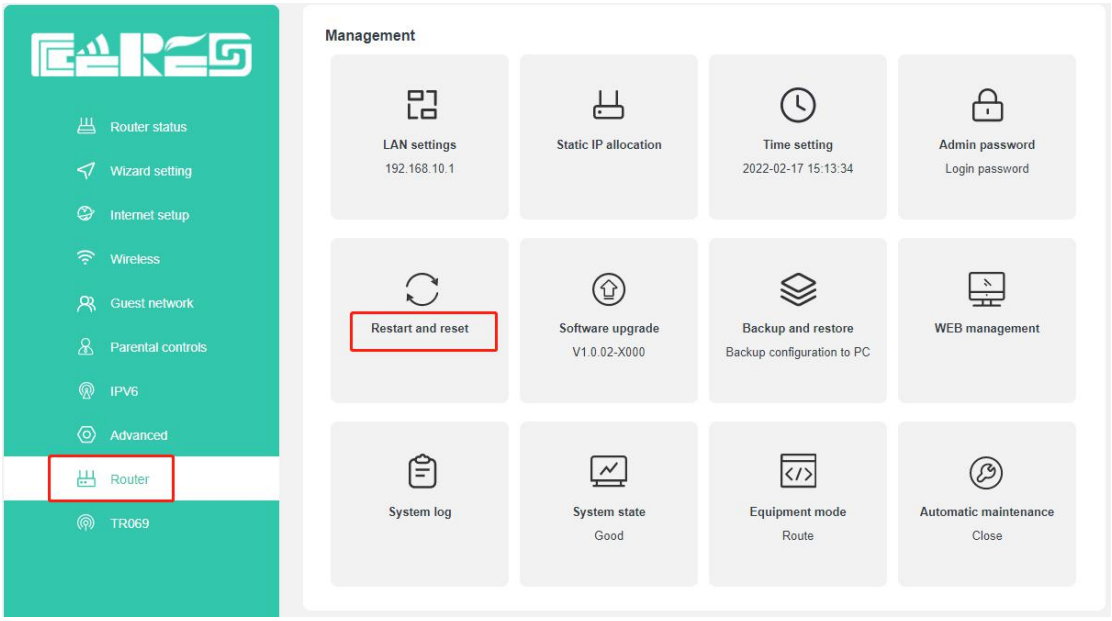


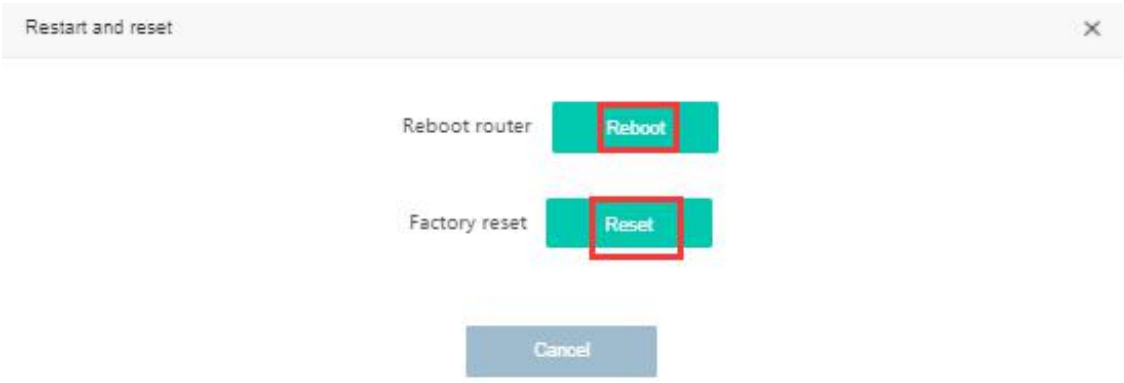
11.4 Reboot And Restore Default Settings WIFI Router

Login WIFI router web main interface, click **Router** -> **Restart and reset**

【Factory reset 】Click "**Reset**" button to reset WIFI router

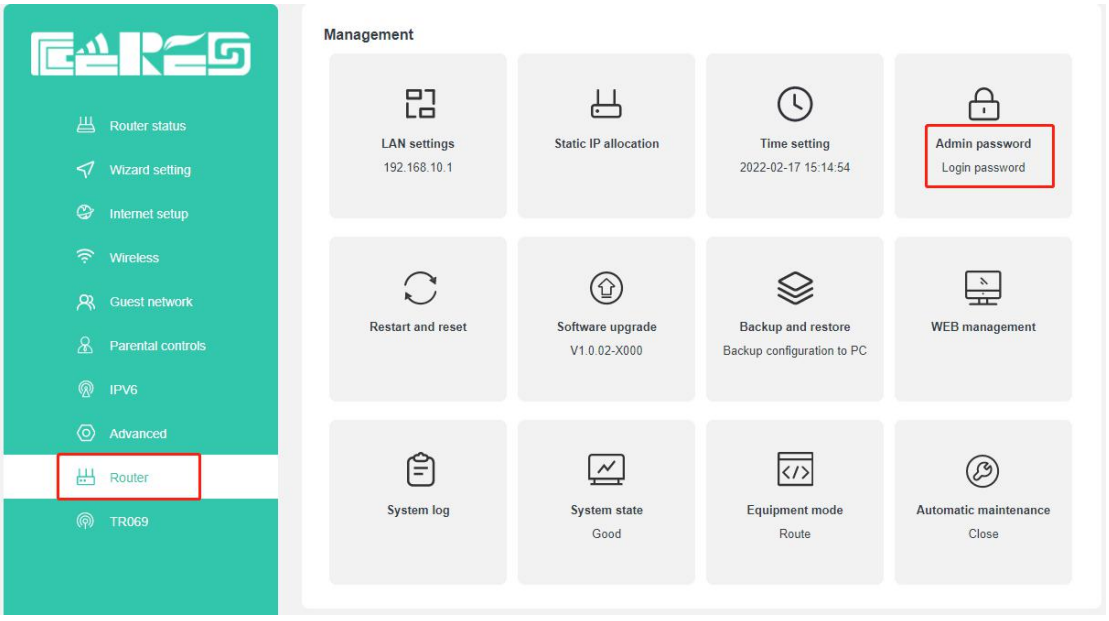
【Reboot router】Click"**Reboot**" button to reboot WIFI router.

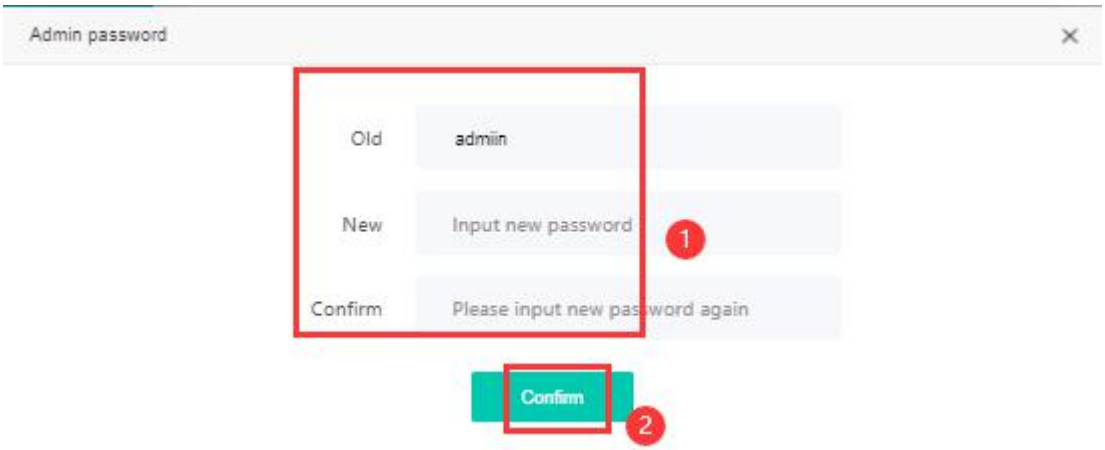




11.5 Config WIFI Router Login Password

Login WIFI router web main interface, click **Router** -> **Admin password**





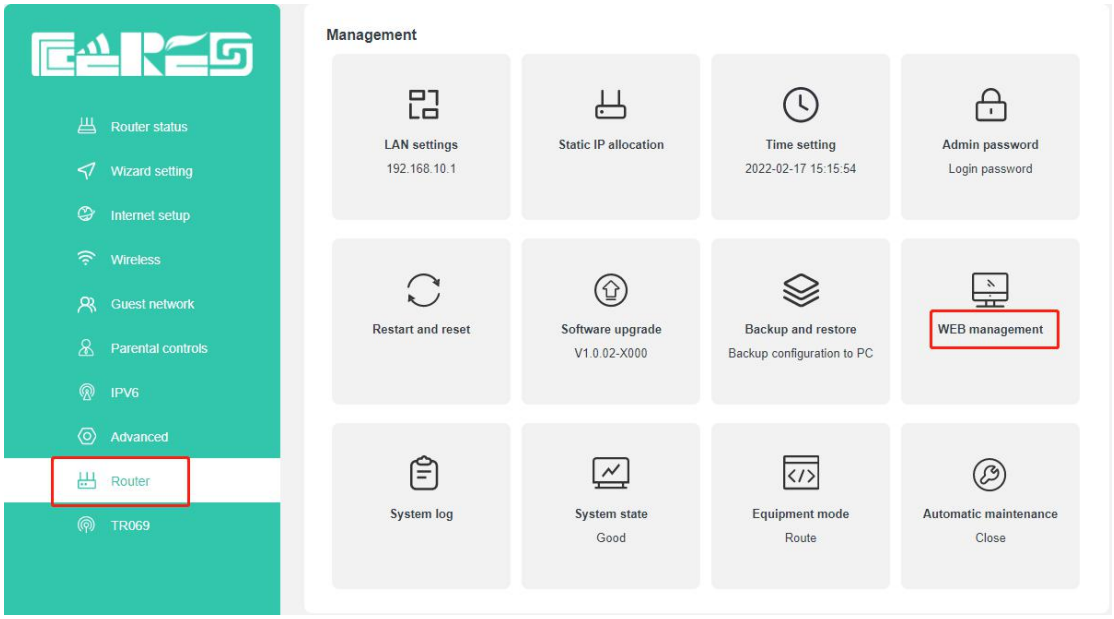
Finish config,click "**confirm**" button to make config effect.

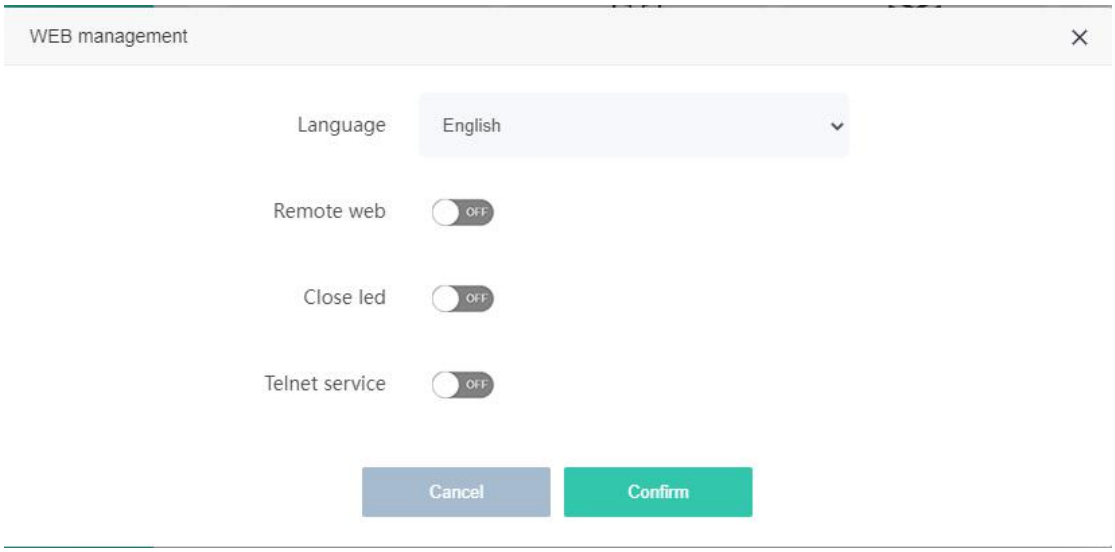
Note :After change the WIFI router login password,we need input new password login WIFI router web interface again.

11.6 Modify web language/remote web/turn off LED/Telnet service/Hardware Acceleration

Login WIFI router web main interface,click **Router** -> **WEB management** :

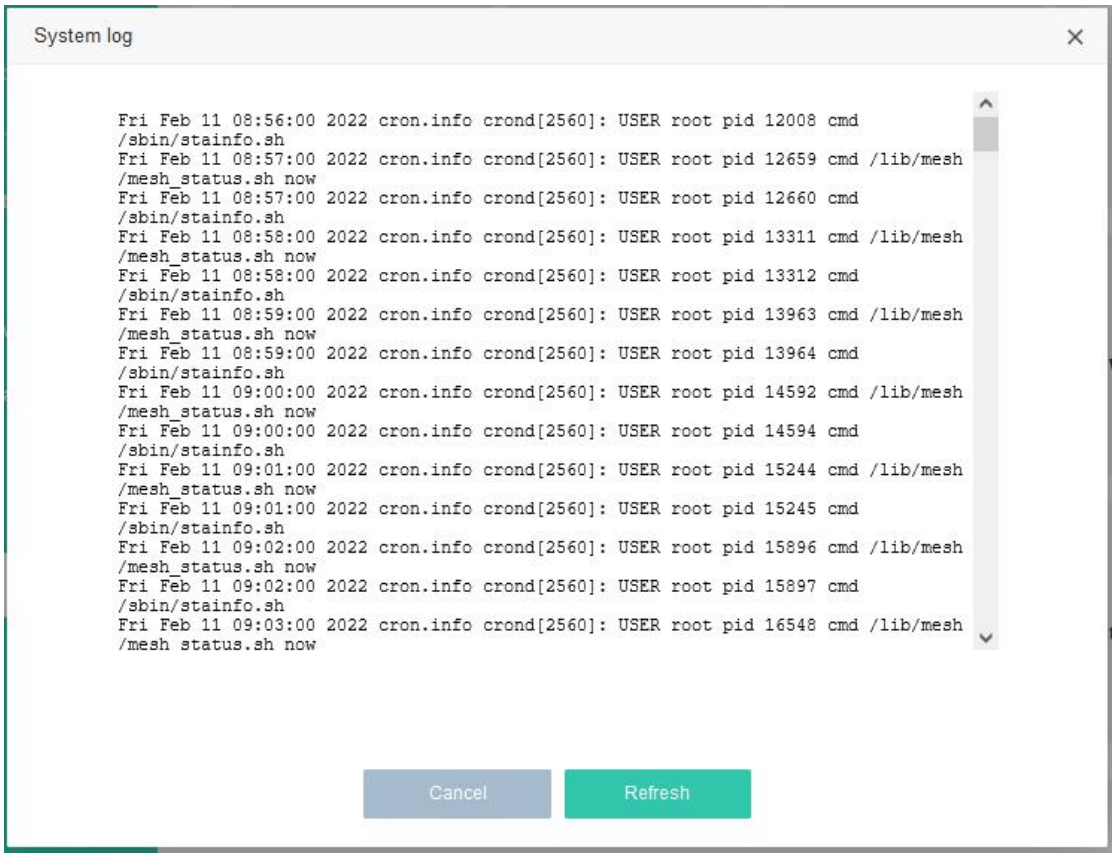
Default Language : English
Remote web : Default off ,if you switch to on ,you can visit web by WAN interface.
Close LED : Default off ,if you switch to on ,the LED of router will be turn off .
Telnet service : Default off ,if you switch to on ,you can Telnet the router by LAN interface.
Hardware speedup: Default off,After it is turned on, the speed limit function will not work





11.7 System log

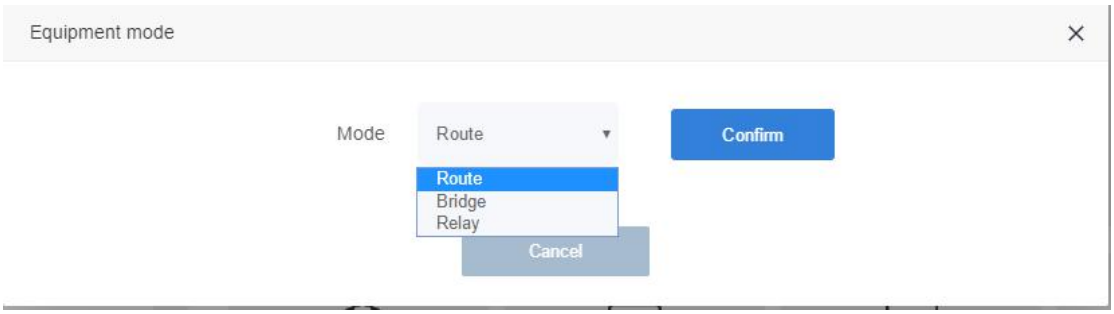
Login WIFI router web main interface,click **Router** -> **System log** ：



You can get system log information of router operating on this page for diagnosis.

11.8 Device working mode

Login WIFI router web main interface, click **Router** -> **Equipment mode**：

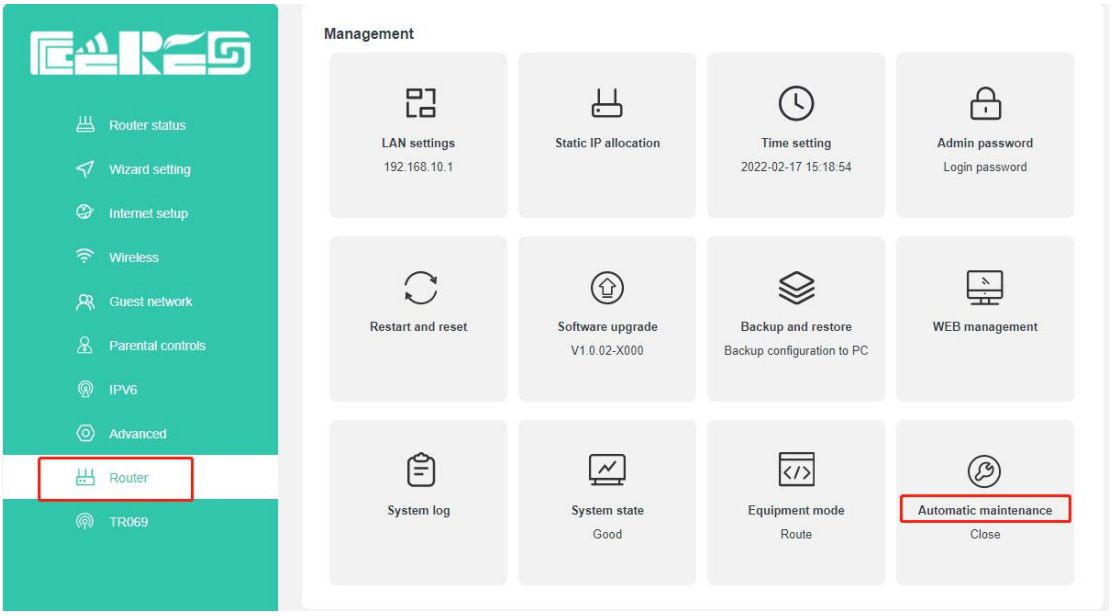


There are 3 modes that you can config ,Route mode ,Bridge mode and Relay mode .The default mode is Route.

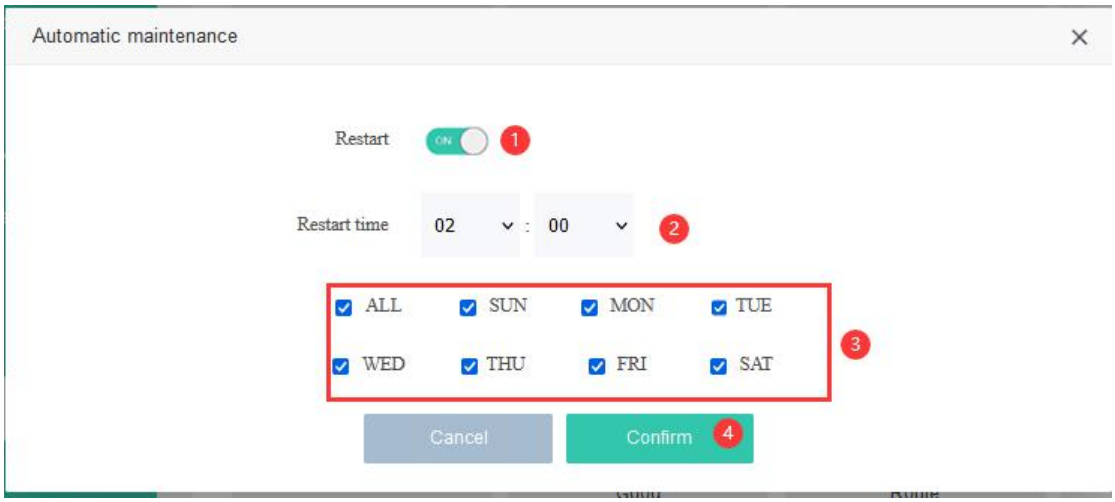
Note: please config the router mode follow the guide of engineer .

11.9 Equipment automatic maintenance

Login WIFI router web main interface, click **Router** -> **Automatic maintenance** ：



For example, I need to maintain the router at 2 am every day, the configuration is as shown below.



12 Advanced Features

12.1 Flow Control

Demand: Specify upload and download speeds for some devices

Step:

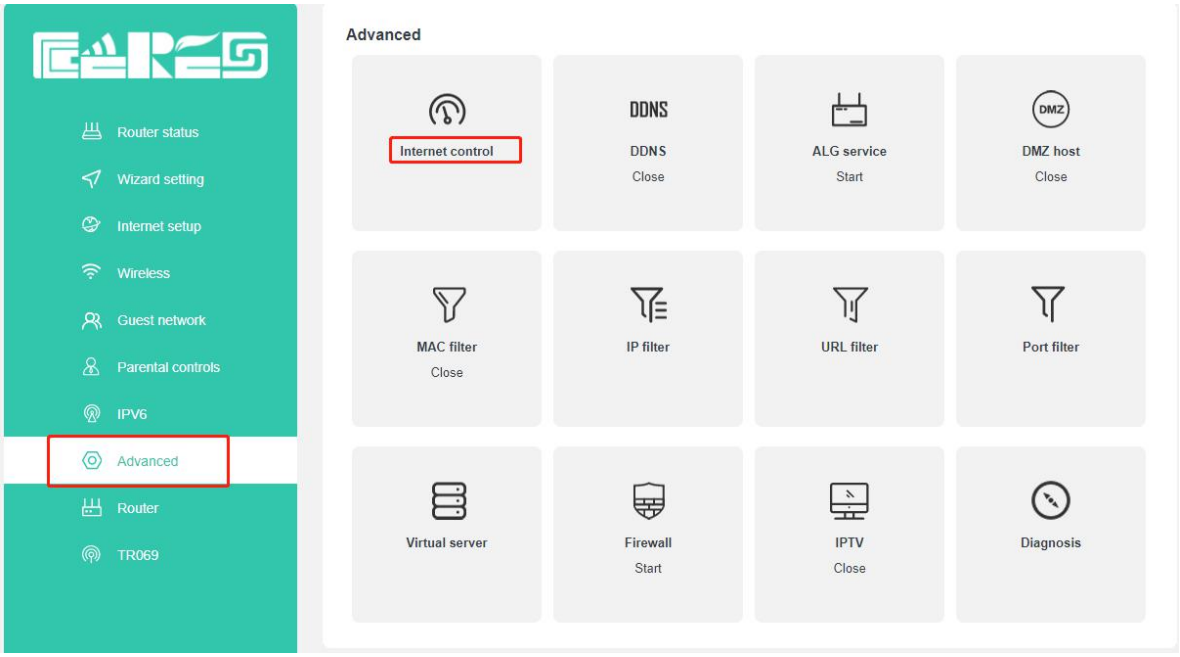
1.Visit http://192.168.10.1 or http://ceres login.com

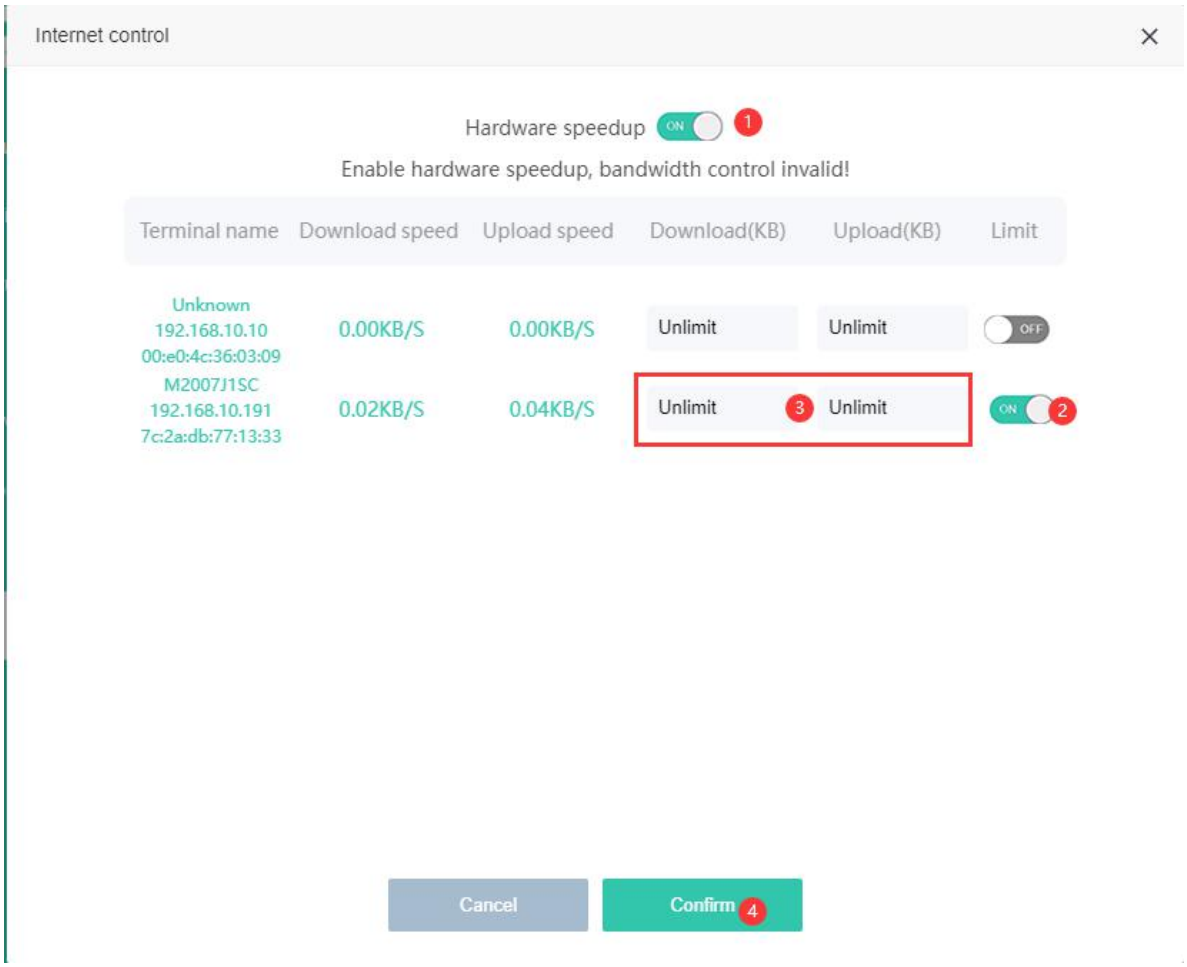
2.Go to **Advanced->Internet control->Turn on Hardware speedup**

3.Find your device in the list, **Limit Turn on**

4.Enter the speed you need in **Download(KB)/Upload(KB)**

5.Click **Confirm**





12.2 Protect the Network from Cyber Attacks

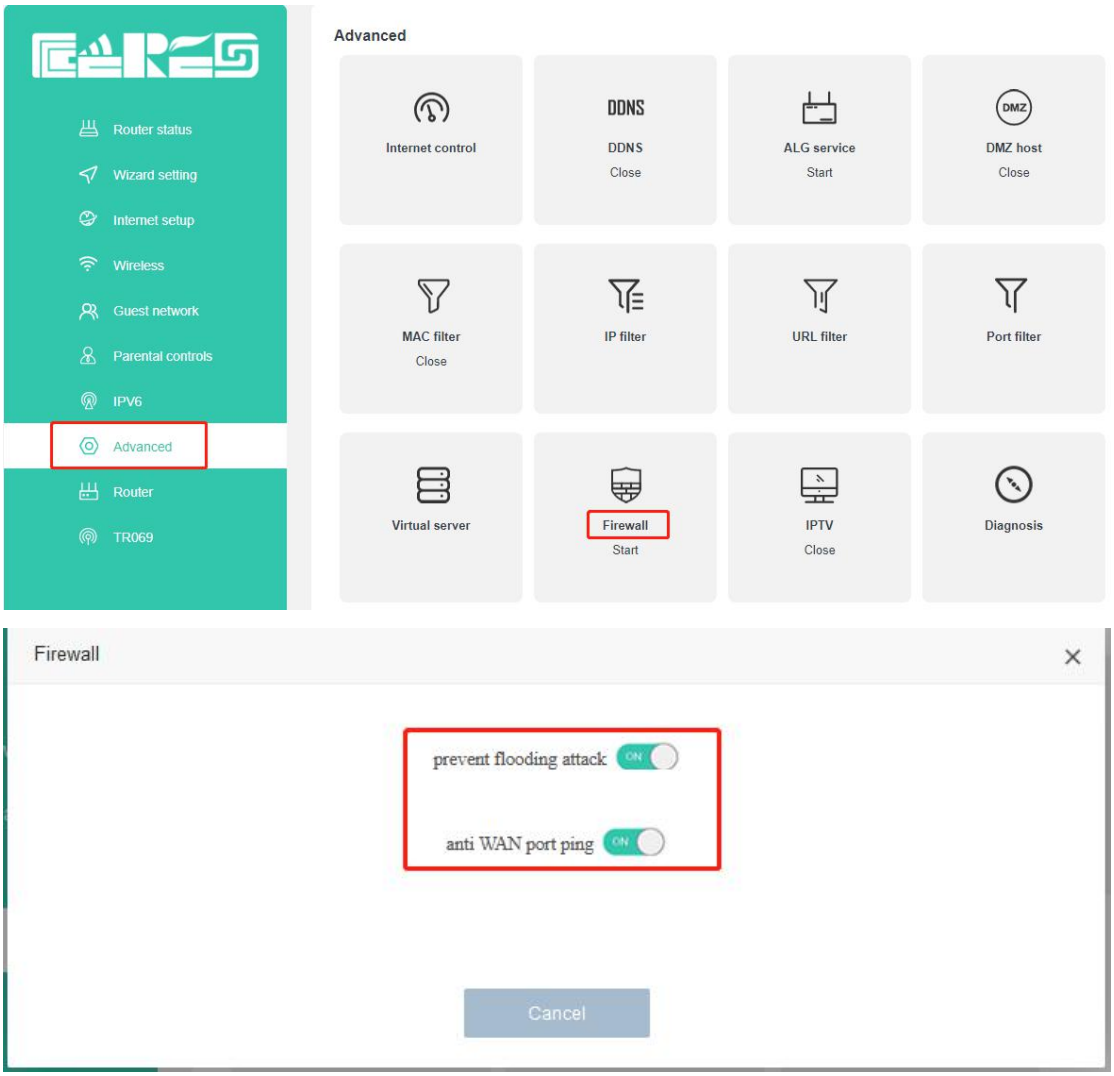
Flood protection protects your home network from DoS attacks that can flood your network with server requests. Follow the steps below to configure DoS protection.

1.Visit http://192.168.10.1 or http://cereslogin.com

2.Go to **Advanced**->**Firewall**

3.Turn on prevent flooding attack

4.If you want to ignore the ping packets from the WAN port,Turn on anti WAN port ping



12.3 MAC fillter

MAC fillter 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).

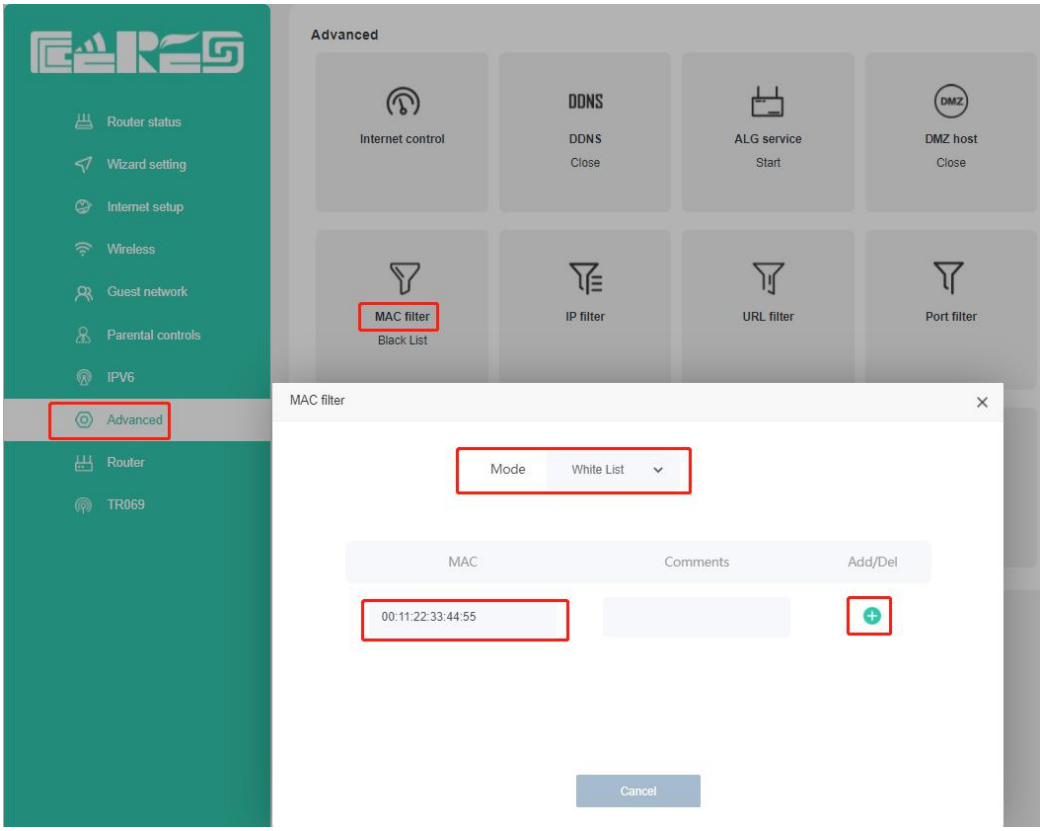
Demand: Block or allow specific devices to access my network (via wired or wireless).

Step:

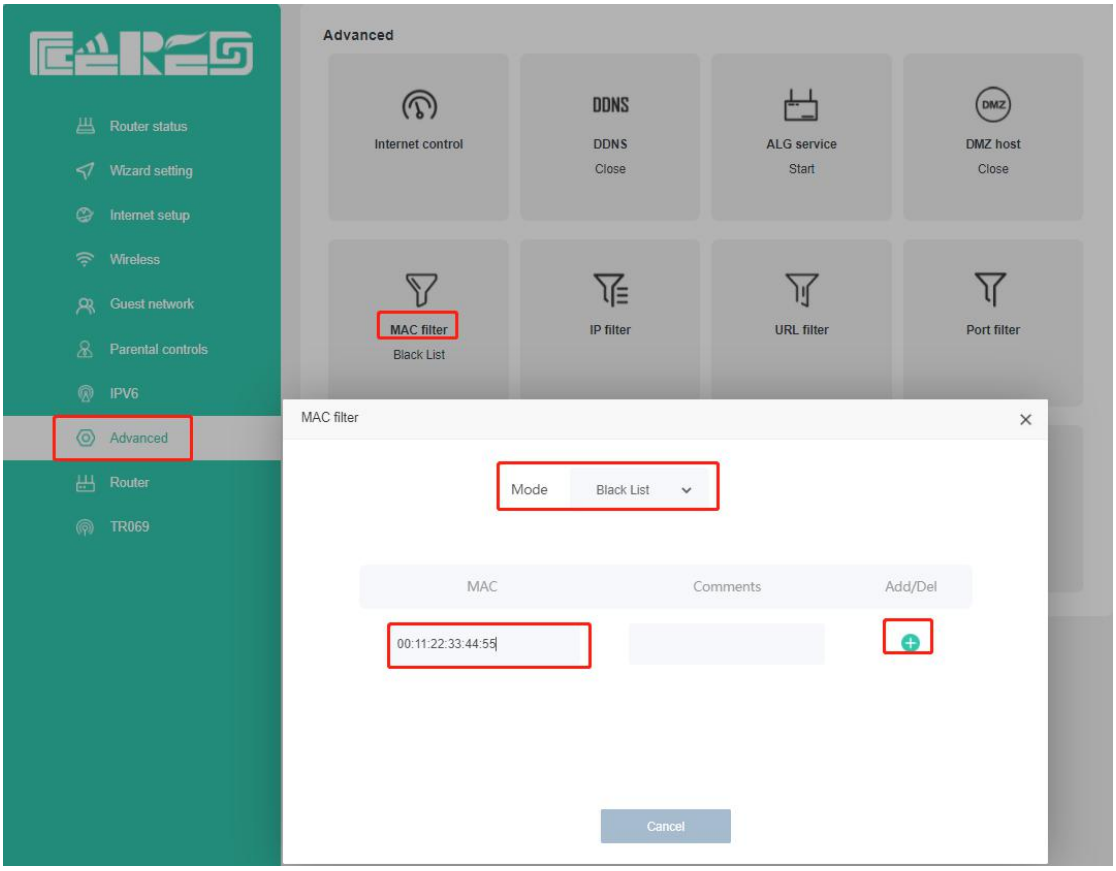
1.Visit http://192.168.10.1 or http://cereslogin.com

2.Go to **Advanced**->**MAC fillter**->**Mode**

3.**White list:**Example Only allow 00:11:22:33:44:55 to access your network, other clients cannot access your network (maximum 10 rules), the configuration is as follows



4.**Black List:**Example: Deny 00:11:22:33:44:55 to access your network (up to 10 rules), other devices can access your network. The configuration is as follows



12.4 IP & MAC Binding

IP & MAC Binding is used to bind the IP address of a network device to its MAC address. This will prevent ARP spoofing and other ARP attacks by denying network access to devices in the binding list with matching IP addresses but unrecognized MAC addresses.

Demand: Assign a fixed IP address to a device,Prevent ARP spoofing and ARP attacks.

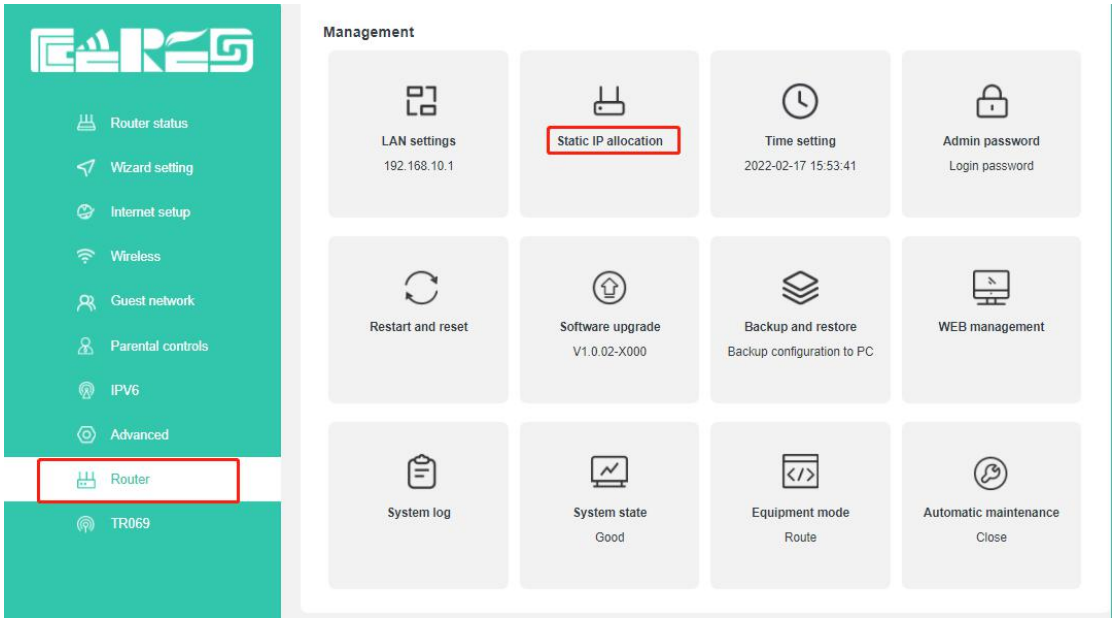
Step:

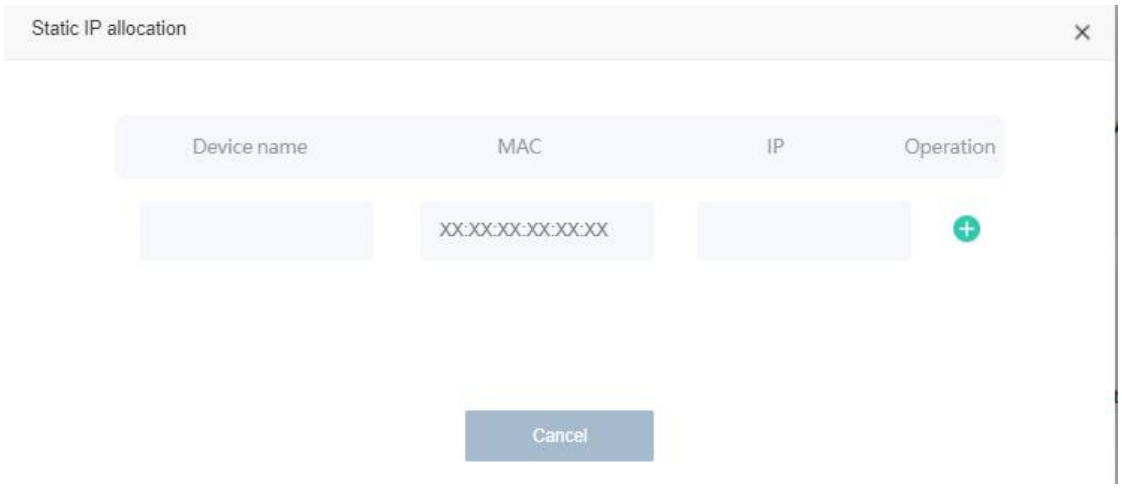
1.Visit http://192.168.10.1 or http://cereslogin.com

2.Go to **Router->Static IP allocation**

3.Bind your device according to your need

Note:The bound IP cannot be the IP in use



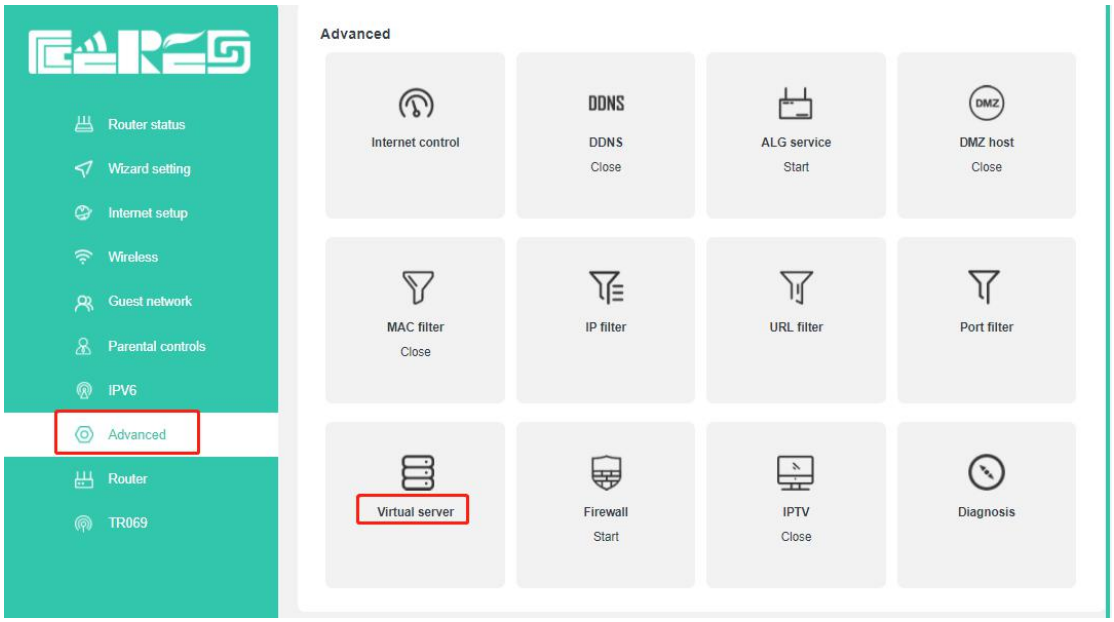


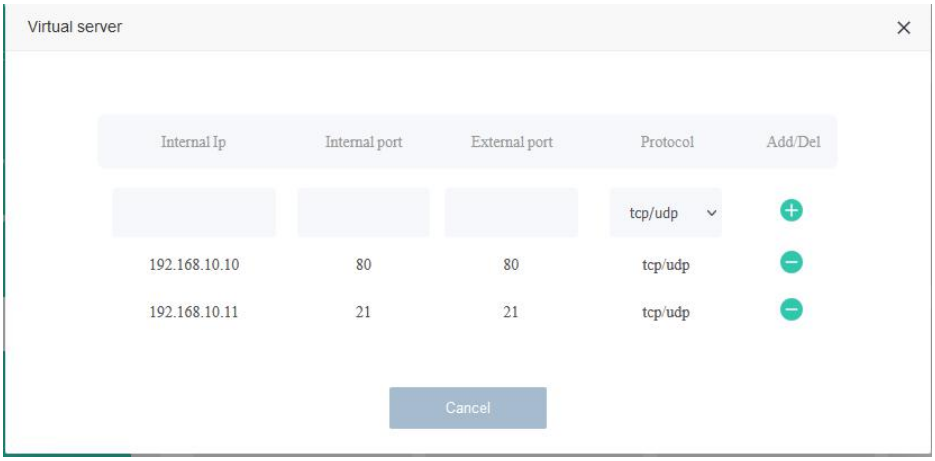
12.5 Virtual Server

After using the router, Internet users cannot access the hosts in the LAN, so they cannot access Web, FTP, Mail and other servers built on the intranet. The virtual server function can realize the mapping of the server of the intranet to the Internet, so as to realize the opening of the server to the outside world.

Requirements: A small enterprise needs to open the file server and web server to the Internet through a router, and the external port of the web server is 8080.
The configuration information is as follows

WAN IP	10.11.104.11	
Web Services	IP	192.168.10.10
	Port	80
FTP Services	IP	192.168.10.11
	Port	21





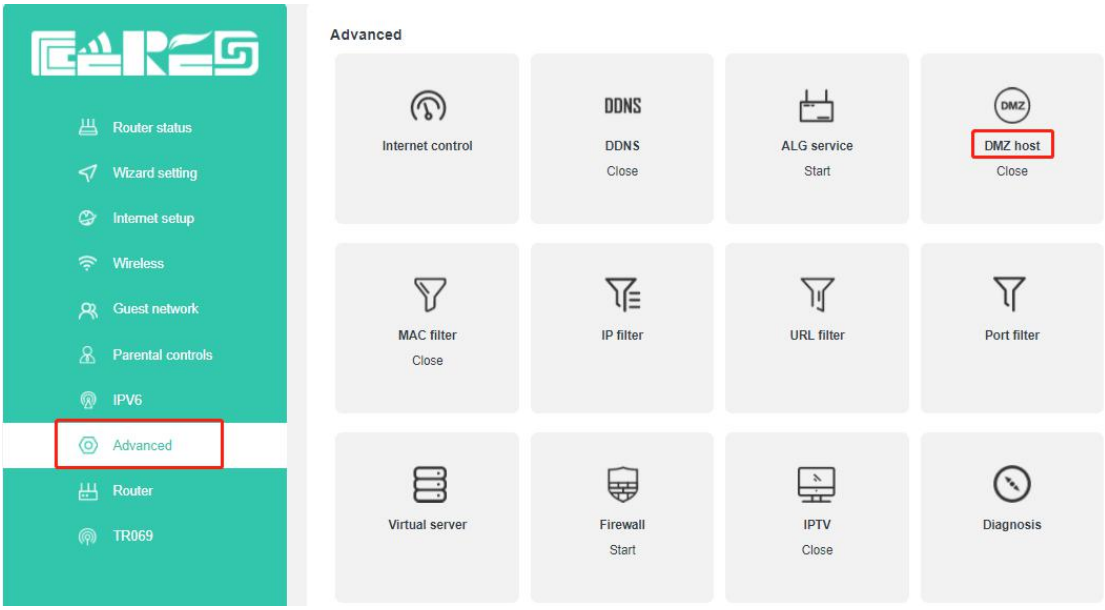
Users on the Internet can enter http:// WAN IP (in this example: http:// 10.11.104.11) to visit your personal website.

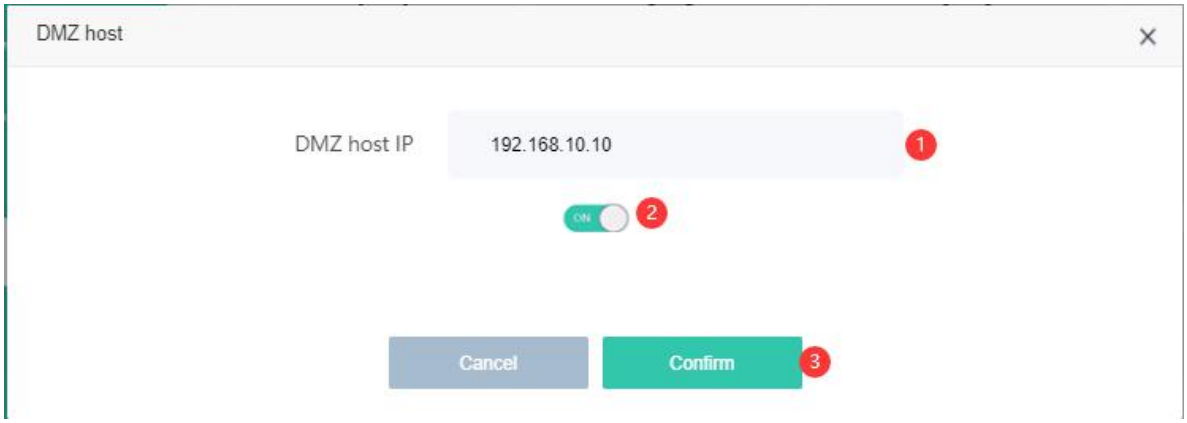
12.6 DMZ Configuration

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.

Demand: 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.

Step: 1.Visit **http://192.168.10.1** or **http://cereslogin.com**
2.Go to **Advanced**->**DMZ host**
3.Enter **device IP**->**Turn on**->**Confrim**





12.7 IPTV Service

Demand: Configure IPTV setup to enable Internet/IPTV/Phone service provided by my Internet Service Provider (ISP).

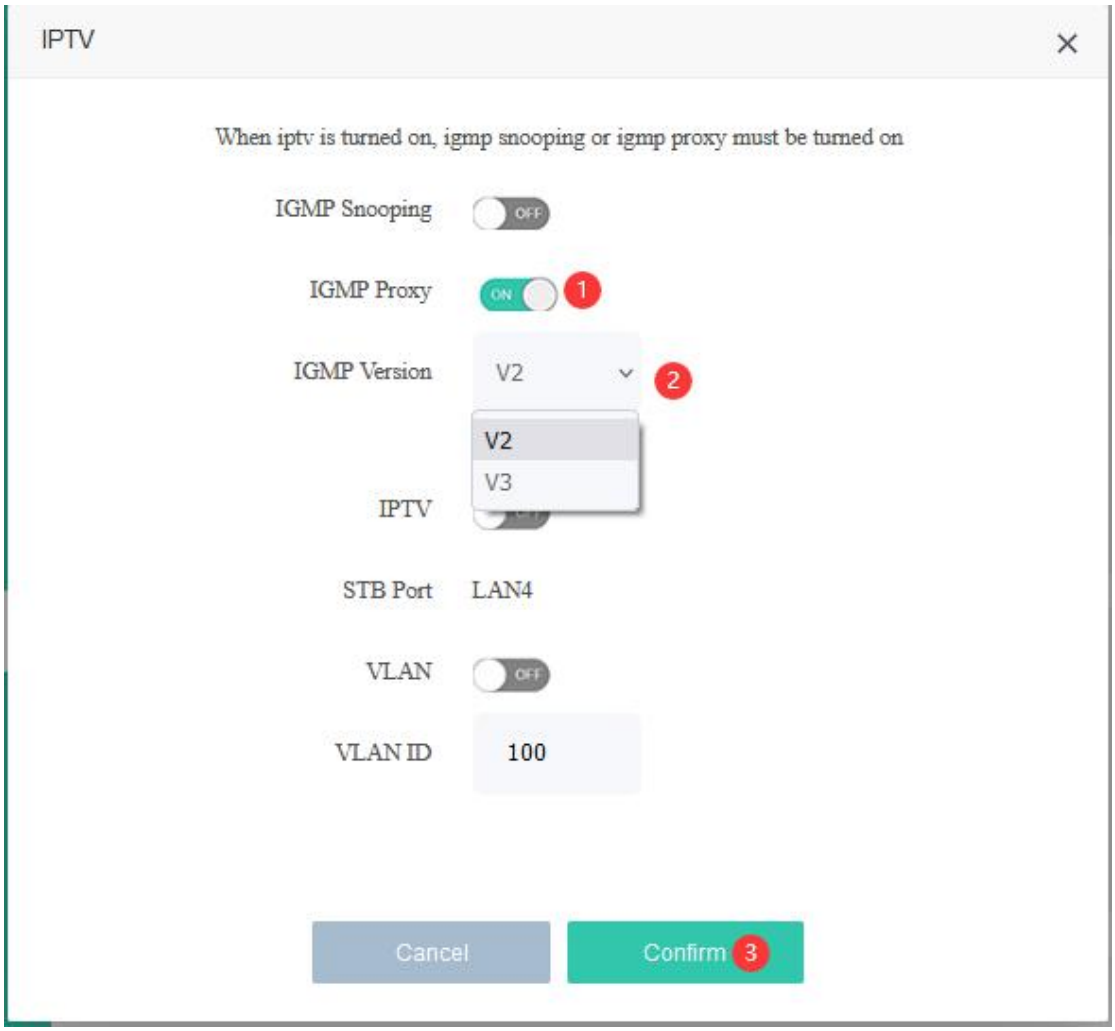
Step: 1.Visit http://192.168.10.1 or http://cereslogin.com

2.Go to **Advanced**->**IGMP**

3.If your ISP provides the networking service based on IGMP technology, e.g., British Telecom(BT) and Talk Talk in UK:

1) Tick the IGMP Proxy checkbox and select the IGMP Version, either V2 or V3, as required by your ISP.

2) 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.

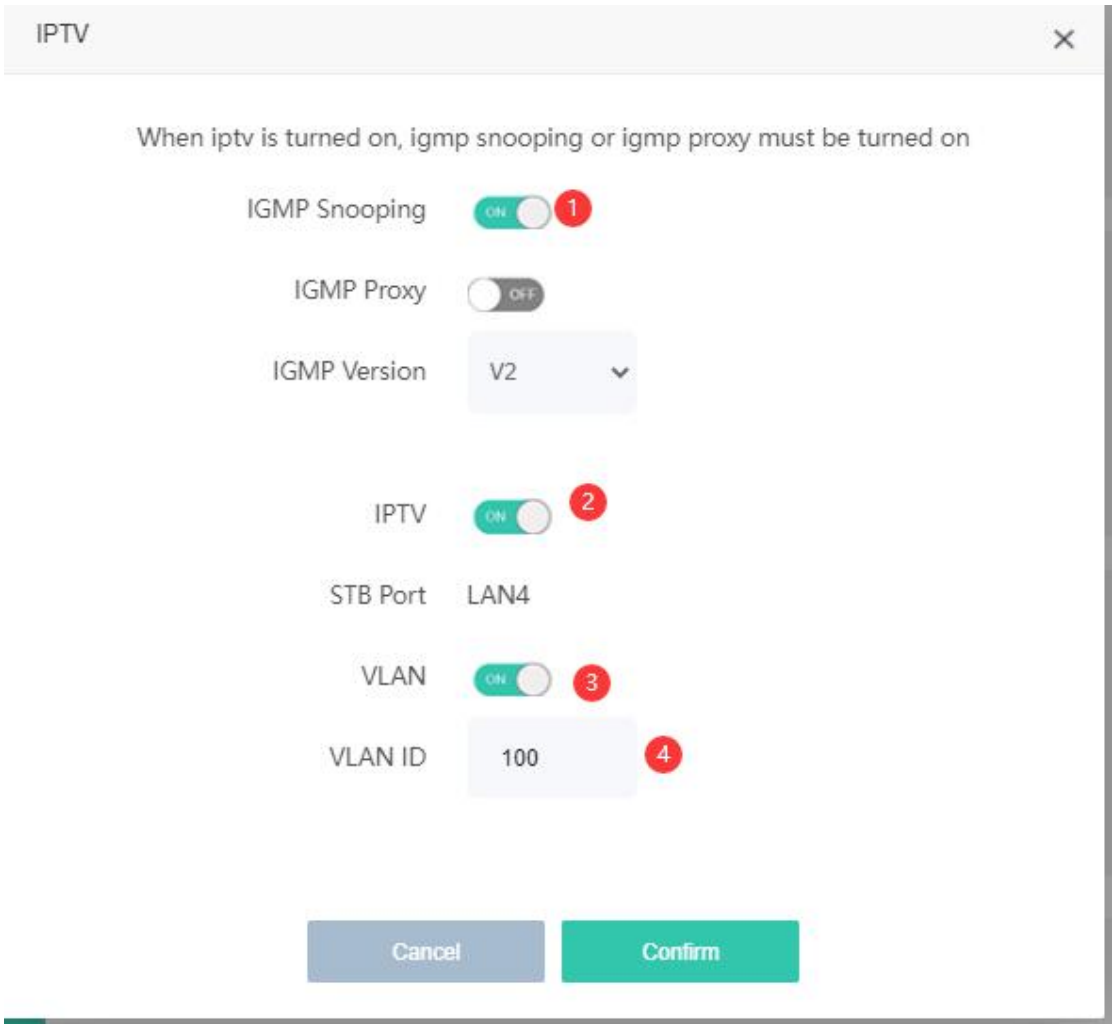


4.If IGMP is not the technology your ISP applies to provide IPTV service:

1) Turn on IGMP Snooping or IGMP Proxy

2) Turn on IPTV

3)Choose whether to enable VLAN according to the requirements of the operator, please fill in the VLAN ID after enabling

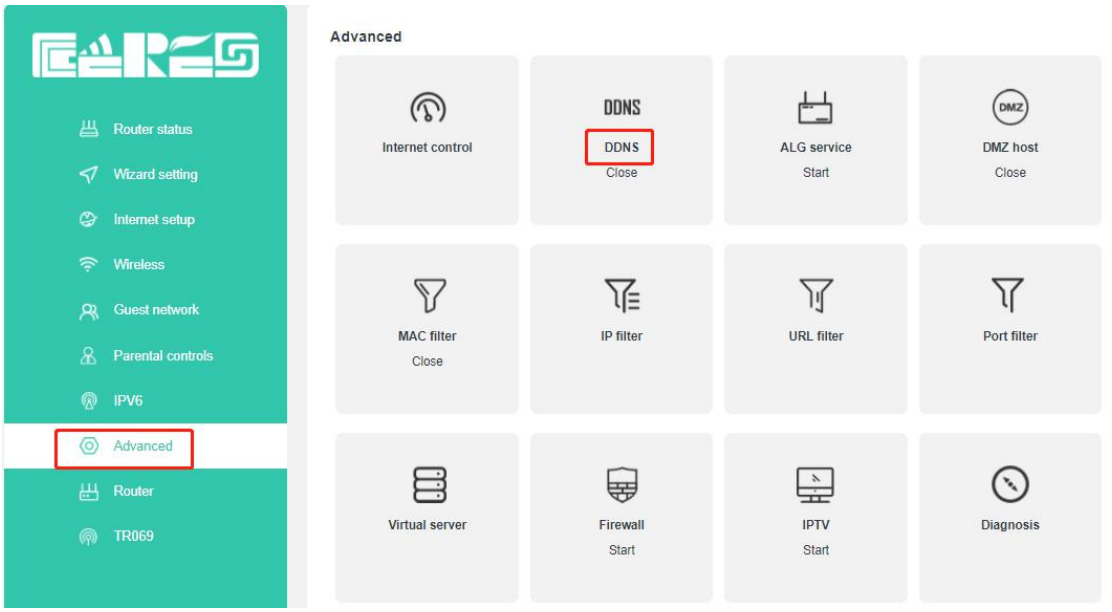


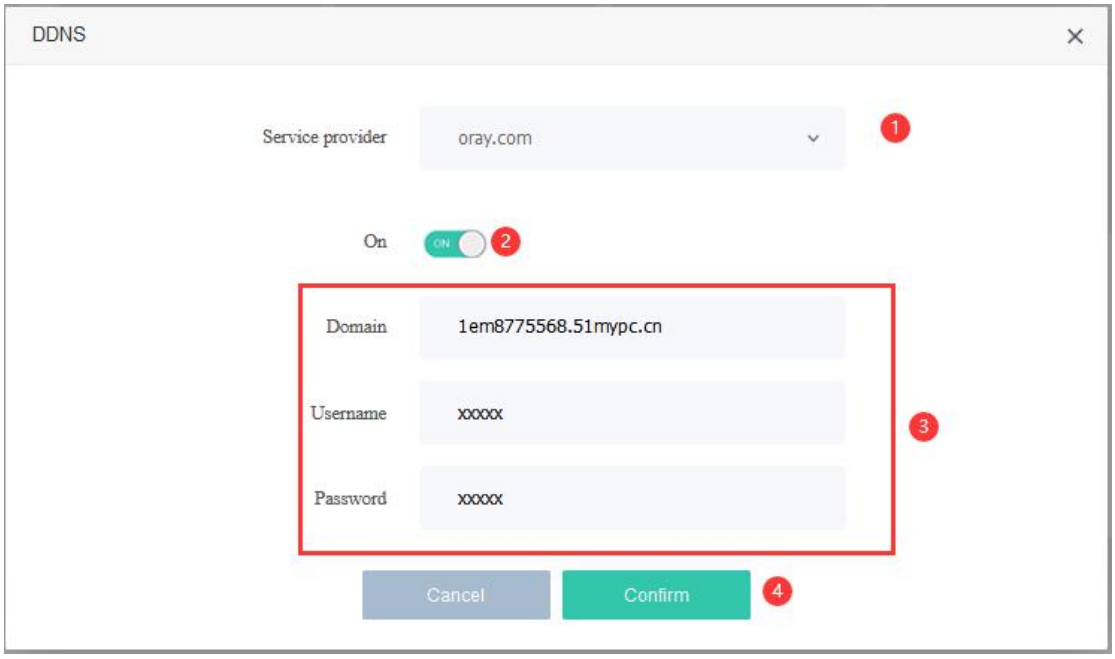
Your IPTV setup is done now! You may need to configure your set-top box before enjoying your TV.

12.8 Set Up a DDNS 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 any 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 domain name without checking and remembering the IP address.

Step: 1.Visit http://192.168.10.1 or http://cereslogin.com
2.Go to **Advanced**->**DDNS**
3.Select **service provider**->**Turn on**->**Fill in Domain/Username/Password**
4.**Confirm**





12.9 Test the Network Connectivity

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

1.Visit http://192.168.10.1 or http://cereslogin.com

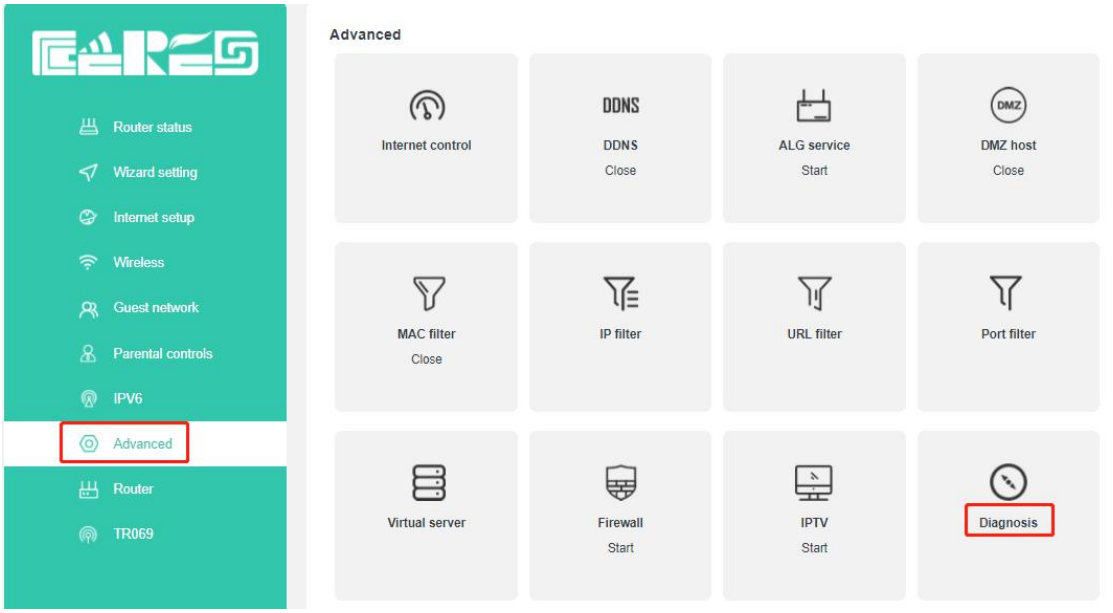
2.Go to Advanced->Diagnosis

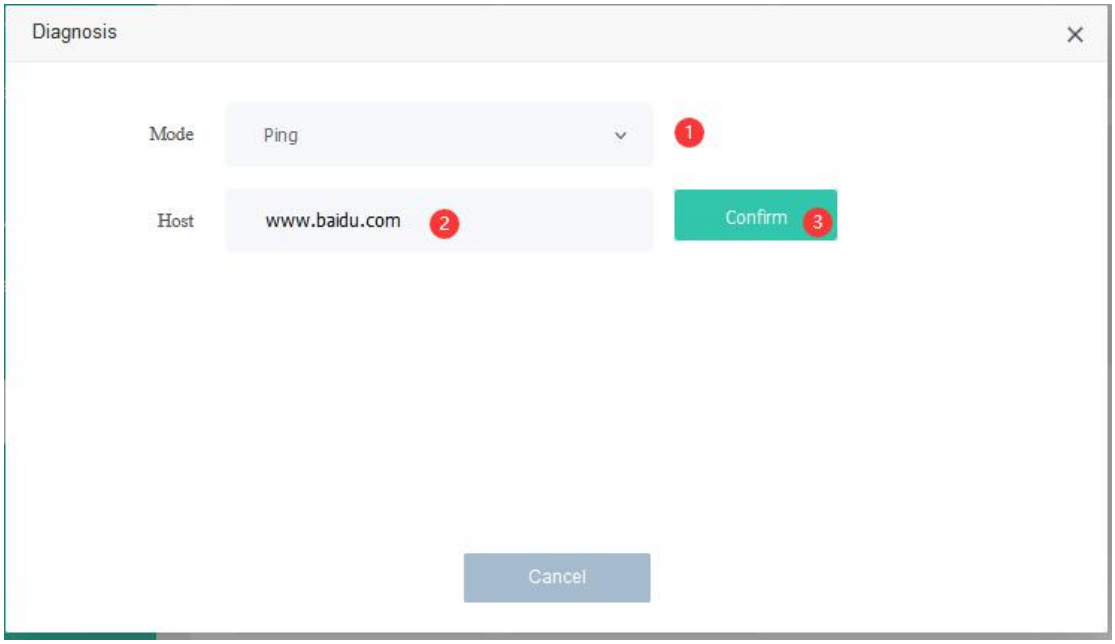
3.Enter the IP Address or Domain Name of the tested host.

Ping: Ping is used to test the connectivity between the router and the tested host, and measure the round-trip time.

Traceroute: 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.

4.Click Confirm to begin the diagnostics.





12.10 Parental control

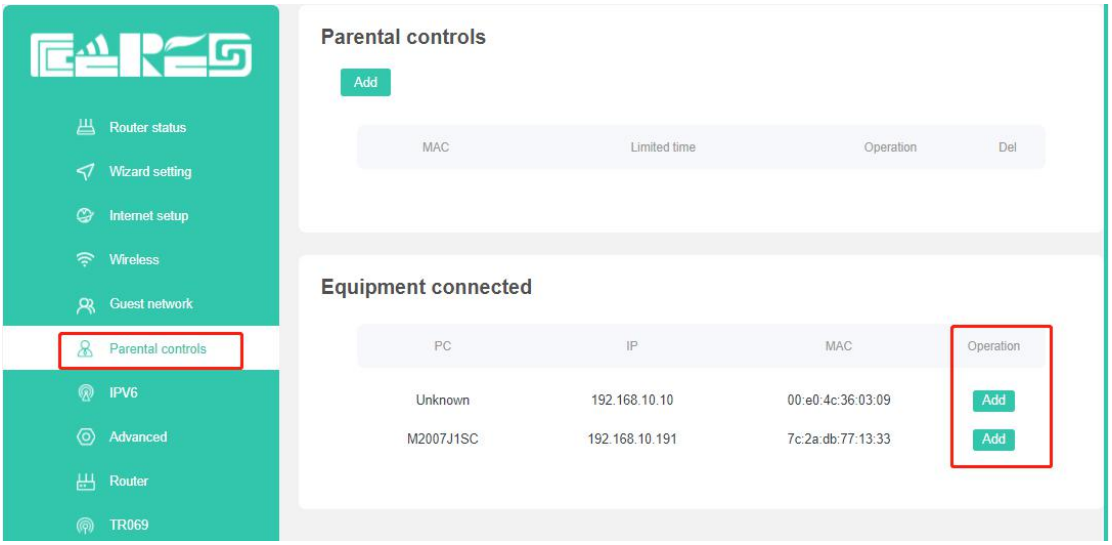
Demand: Control children's Internet time, protect children's eyesight and health

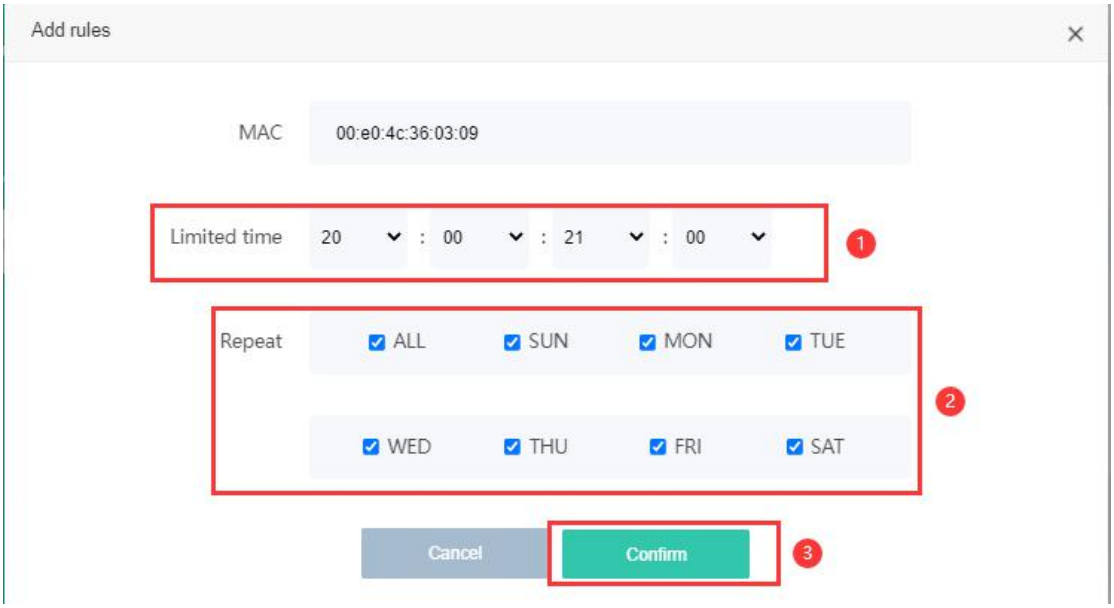
Step: 1.Visit http://192.168.10.1 or http://cereslogin.com

2.Go to **Parental controls**->**Equipment connected**

3.Select the corresponding device in the list. Click **Add**

4.Select the time and date to go online. For example, only allow children to surf the Internet from **20:00-21:00** every day, the settings are as follows



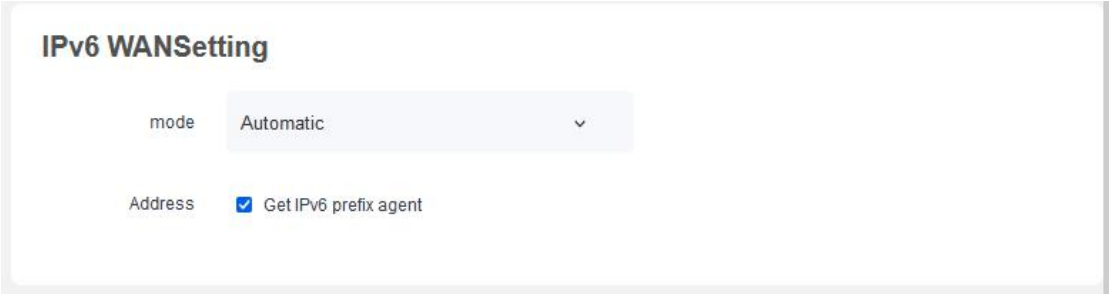


12.11 IPV6 Configuration

Step: 1.Visit http://192.168.10.1 or http://cereslogin.com

2.Go to **IPV6**->**Turn on**

3.There are two option in IPv6 WANsetting mode ,**Automatic** and **PPPoEv6**,Automatic mode is default .If you get information of IPv6 connection from ISP, you can choose PPPoEv6 mode , and fill in blank with information of account and password .please check "**Get ipv6 prefix agent**", it means WAN IPv6 will get prefix address from IPv6 server .



Configure LAN ports .let IPv6 LAN-address. Let IPv6 LAN-address and IPv6 LAN prefix in Automatic mode. You can enable or disable DHCPv6 function .

13 TR069 Client Configuration

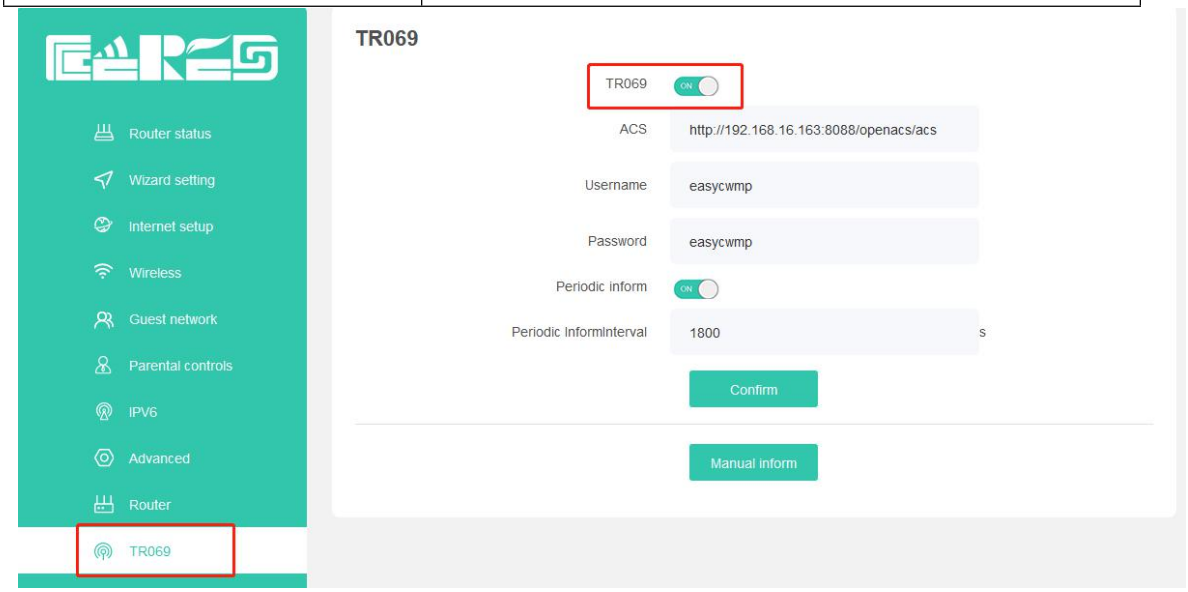
TR069 is a protocol. It provides operators with multiple management methods for easy maintenance of sold products

Step: 1.Visit http://192.168.10.1 or http://cereslogin.com

2.Go to **TR069**->**Turn on**

3.We can set the router parameters of the TR069 client (**ACS URL address, username, password, periodic notification interval**).

Item of configuration	Description
TR069 ON/OFF	Enable/Disable CWMP protocol
ACS-URL	URL of ACS. Examples: "https://example.com:8080/path/", "http://192.168.128.100:80/acs"
Username	HTTP authentication username (used by CPE to "login" into ACS)
Password	HTTP authentication password (used by CPE to "login" into ACS)
Periodic inform ON/OFF	Enable/disable CPE periodical session initiation. Timer is started after every successful session. When session is started by periodic interval then Inform RPC contains "2 PERIODIC" event. Maps to "Device.ManagementServer.PeriodicInformEnable" Parameter
Periodic inform interval	Timer interval of periodic inform. Maps to "Device.ManagementServer.PeriodicInformInterval"
Manual inform	Send inform messages manually
Confirm	Confirm the configuration of TR069 client



Note: All of parameters of TR069 are offered by ISP.

14 WIFI Mesh Configure

13.1 Configuring Mesh on the Web

(1). Visit http://192.168.10.1 or http://cereslogin.com

(2). Set 2.4G WIFI and 5G WIFI password

(3). Enable Mesh

Go to **Wifi Mesh->Mesh Network: Auto->Confirm**

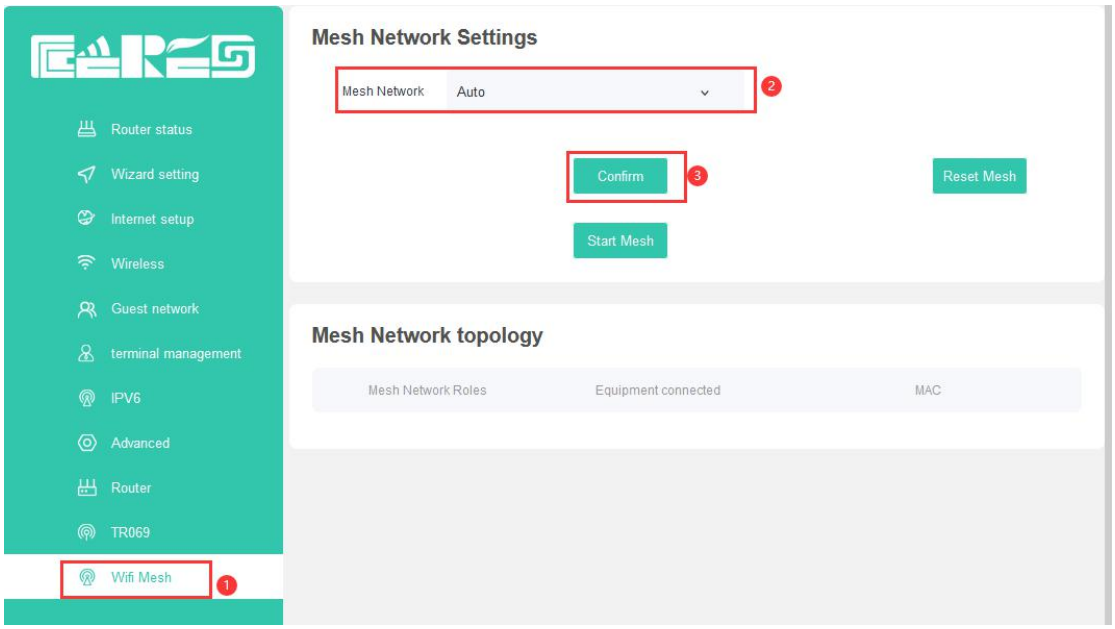
Mesh Network:

【Disable】： Default disable

【Controller】:

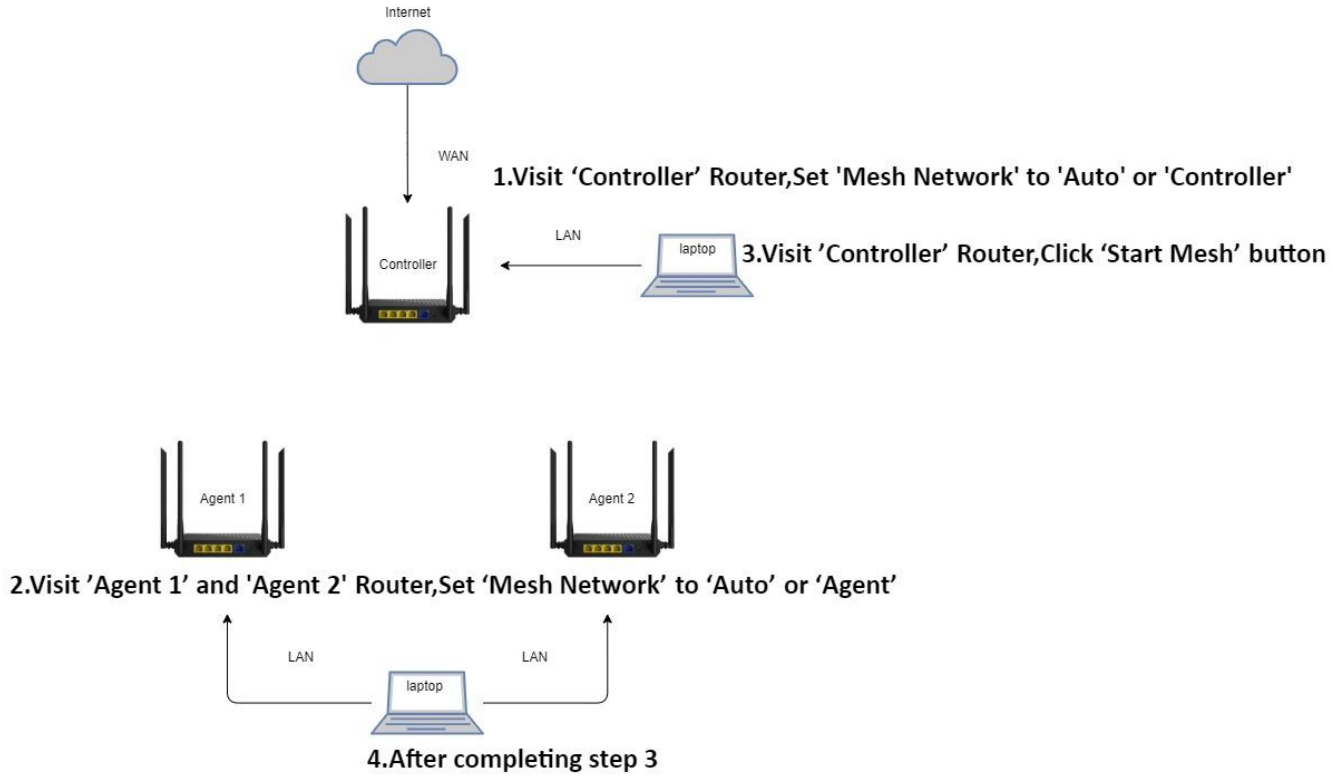
【Agent】:

【Auto】： Automatically identify routers connected to the Internet as **'Controller'**. Routers that are not connected to the Internet are **'Agent'**.



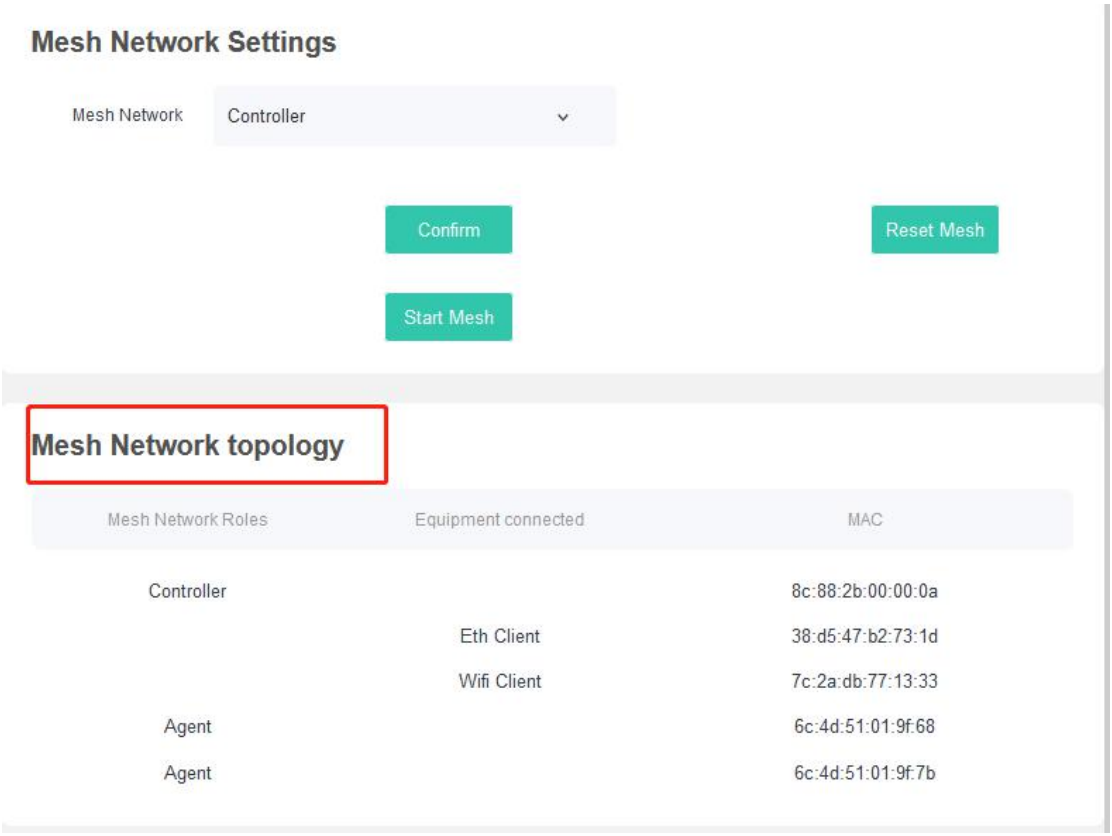
(4). Construct Mesh Network

Case 1: One 'Controller' and multiple 'Agent' form Mesh

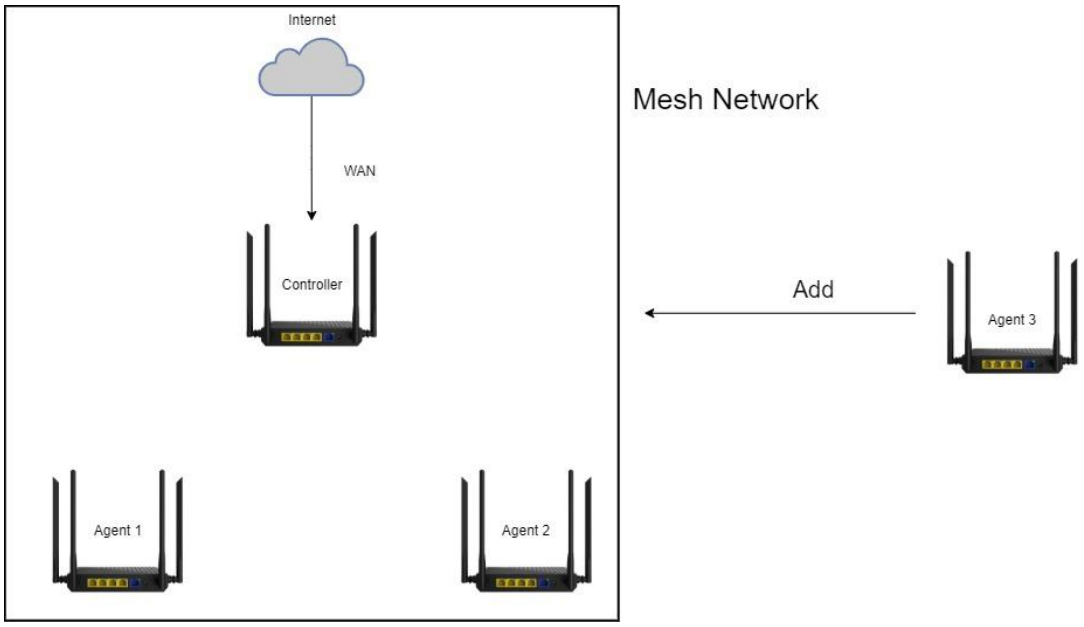


Log into the 'Agent 1' and 'Agent 2' router within 2 minutes Press the 'Start Mesh' button

1.Visit '**Controller**' Router,Set '**Mesh Network**' to '**Auto**' or '**Controller**'
2.Visit '**Agent 1**' and '**Agent 2**' Router,Set '**Mesh Network**' to '**Auto**' or '**Agent**'
3.Visit '**Controller**' Router,Click '**Start Mesh**' button
4.After completing **step 3**. Log into the '**Agent 1**' and '**Agent 2**' router within **2 minutes** Press the '**Start Mesh**' button
5.Check the **Mesh topology**. Check if the WIFI name is the same


Mesh Network Settings
Mesh Network
Controller
Confirm
Reset Mesh
Start Mesh
Mesh Network topology
Mesh Network Roles
Equipment connected
MAC
Controller
8c:88:2b:00:00:0a
Eth Client
38:d5:47:b2:73:1d
Wifi Client
7c:2a:db:77:13:33
Agent
6c:4d:51:01:9f:68
Agent
6c:4d:51:01:9f:7b

Case 2: Add 'Agent' to existing mesh network



1.visit '**Agent 3** ' Router. Set **2.4G WIFI** and **5G WIFI Password.**Set '**Mesh Network**' to '**Auto**' or '**Agent**'

2.visit '**Agent 1'** or '**Agent 2**' Router. Click '**Start Mesh**' button

3.visit '**Agent 3**' Router. Click '**Start Mesh**' button

Note: Complete Step 2, Step 3 in 2 minutes

4.Check the **Mesh topology**. Check if the WIFI name is the same

13.2 Configuring Mesh on the 'RST' Button

(1). Visit http://192.168.10.1 or http://cereslogin.com

(2). **Set 2.4G WIFI and 5G WIFI password**

(3). **Enable Mesh**

Go to **Wifi Mesh->Mesh Network: Auto->Confirm**

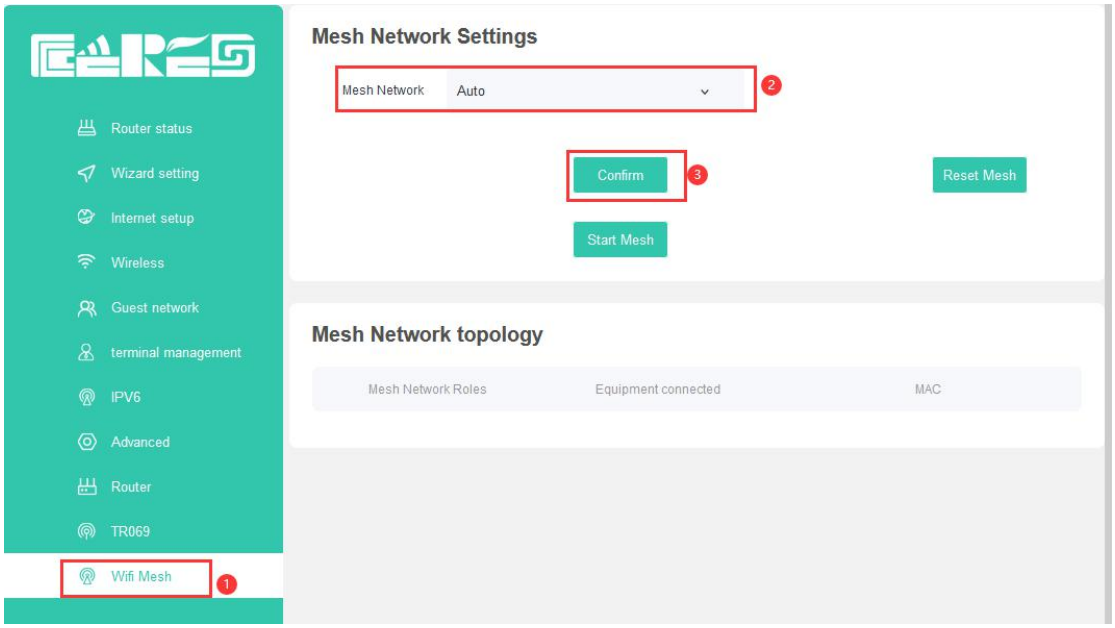
Mesh Network:

【Disable】： Default disable

【Controller】：

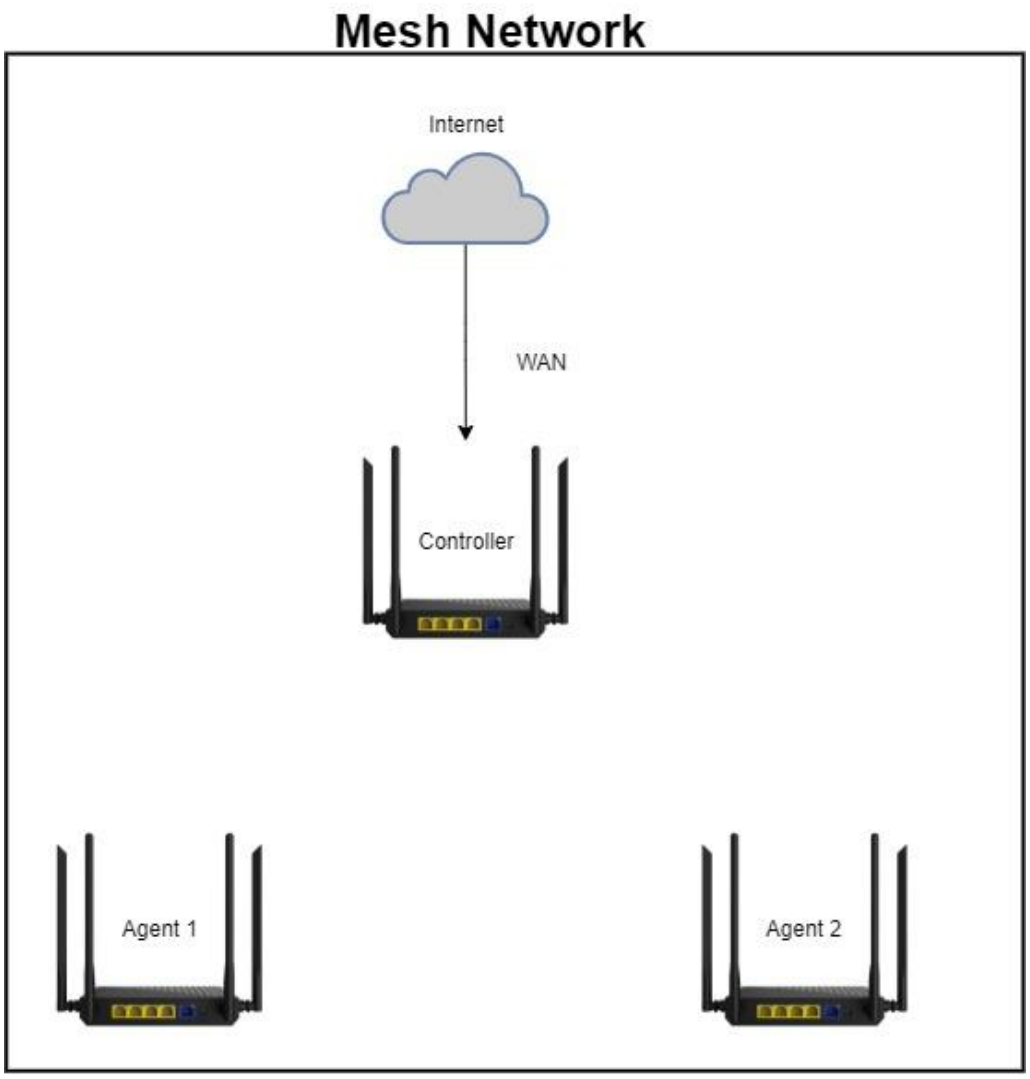
【Agent】：

【Auto】： Automatically identify routers connected to the Internet as **'Controller'**. Routers that are not connected to the Internet are **'Agent'**.



(4). Construct Mesh Network

Case 1: One 'Controller' and multiple 'Agent' form Mesh



1.Visit '**Controller**' Router,Set '**Mesh Network**' to '**Auto**' or '**Controller**'

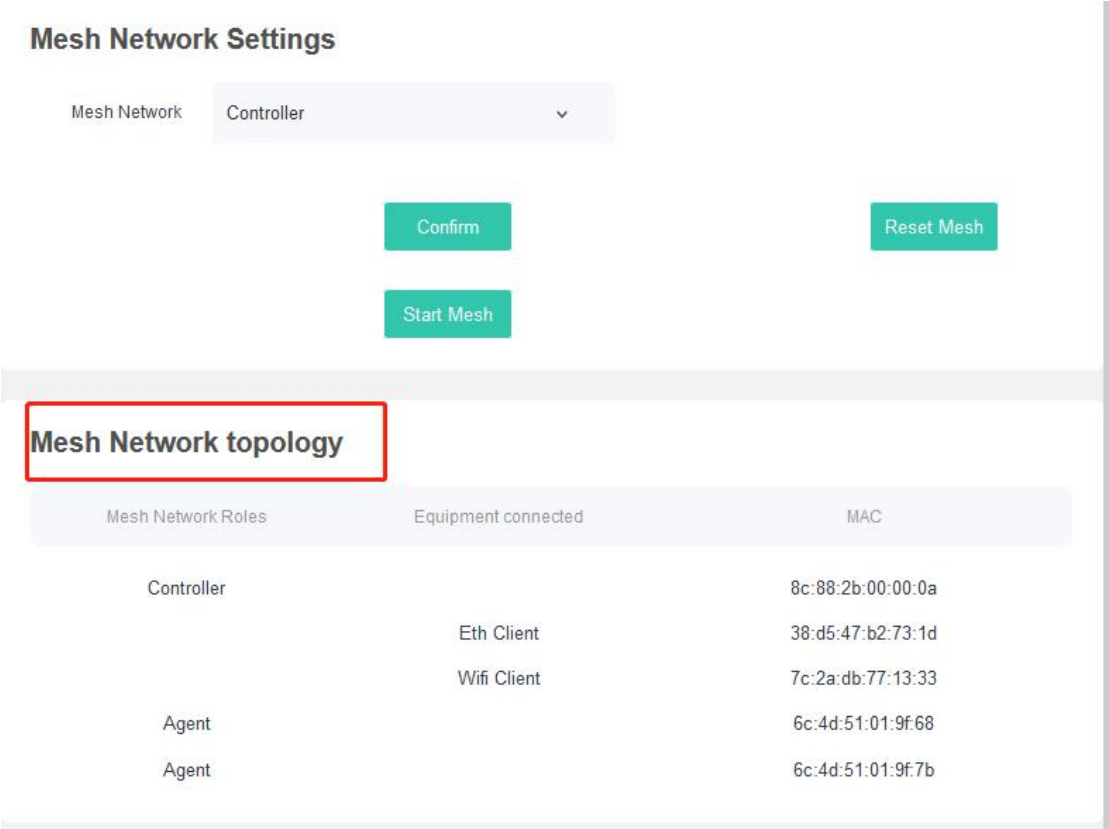
2.Visit '**Agent 1**' and '**Agent 2**' Router,Set '**Mesh Network**' to '**Auto**' or '**Agent**'

3.On the '**Controller**' Router, press the '**RST**' button for 1 second

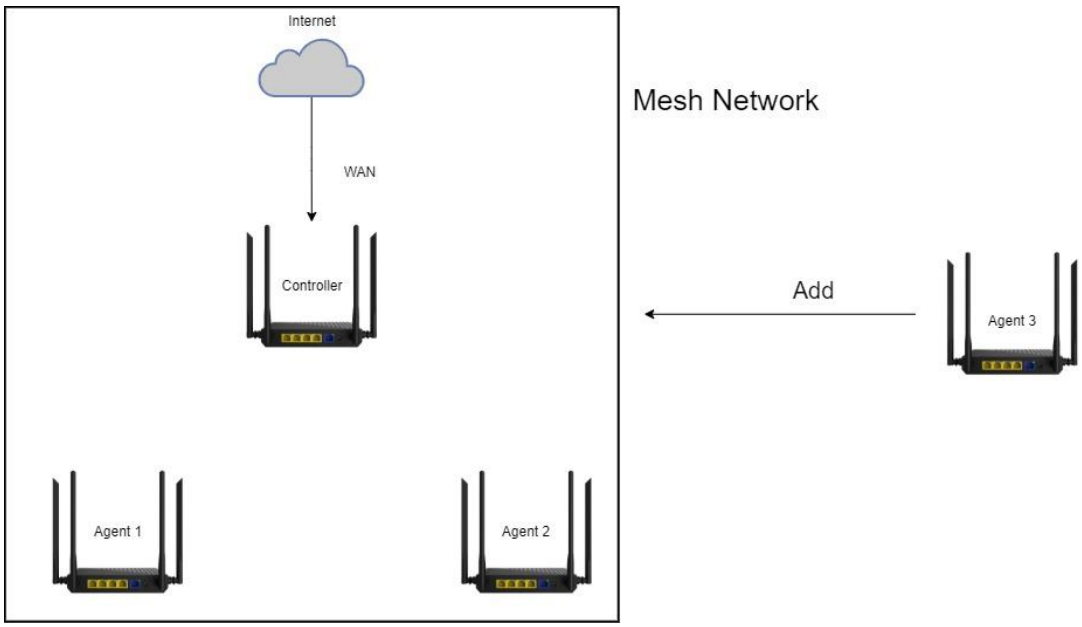
4.On the '**Agent 1**' and '**Agent 2**' Router, press the '**RST**' button for 1 second

Note: Complete Step 3, Step 4 in 2 minutes

5.Check the **Mesh topology**. Check if the WIFI name is the same



Case 2: Add 'Agent' to existing mesh network



1.visit '**Agent 3** ' Router. Set **2.4G WIFI** and **5G WIFI Password.**Set '**Mesh Network**' to '**Auto**' or '**Agent**'

2.On the '**Agent 1**' or '**Agent 2**' Router, press the '**RST**' button for 1 second

3.On the '**Agent 3**' Router,press the '**RST**' button for 1second

Note: Complete Step 2, Step 3 in 2 minutes

4.Check the **Mesh topology**. Check if the WIFI name is the same

13.3 How to troubleshoot WIFI Mesh networking failure?

1) Check whether the SSID of 2.4G and 5G of each router is configured with password and encryption method.
2) Check the direct distance between the main router and the sub-router and keep it within 15 meters to ensure that the WIFI signal between the routers is good
3) Make sure the MESH function in the router is enabled. And the role is set to Auto. If you specify the role of each router. You can also set the corresponding Controller and Agent roles.
4) Ensure the WIFI channel interference in the Mesh networking environment. If there is channel interference from other wireless devices, please select the appropriate working channel in the WIFI configuration items of the main route and the sub-router and then re-establish the network.
5) Confirm that other devices around do not initiate a WPS connection

15 FAQ

FAQ1.What can I do if I forgot my wireless password?

The default wireless password is printed on the label of the router. If the password has been altered, please connect your computer to the router using an Ethernet cable and follow the steps below:
1.Visit http://192.168.10.1 or http://cereslogin.com
2.Go to **Wireless 2.4G/5G Wifi name and password**
3.Retrieve or reset your WIFI password

FAQ2.What can I do if I forgot my login password of the web management page?

The default password of the web management page are admin (in lowercase).This password cannot log in please try the following steps

1.When the device is running, press and hold the reset (**RST**) button on the side with a needle for 5s, release it and wait for the device to restart

FAQ3.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 login again.

1.Check physical connection

Plug the cable into the router LAN port and make sure the corresponding LAN LED is on.

Connect to the SSID corresponding to the label on the back of the router

2.Check IP information

Your device must have an IP from the ceres device to access the web management page. Most Ceres devices have DHCP turned on by default, which will assign an IP address to your device. Some devices do not have DHCP server function, in this case you need to manually set the IP address to access the management page

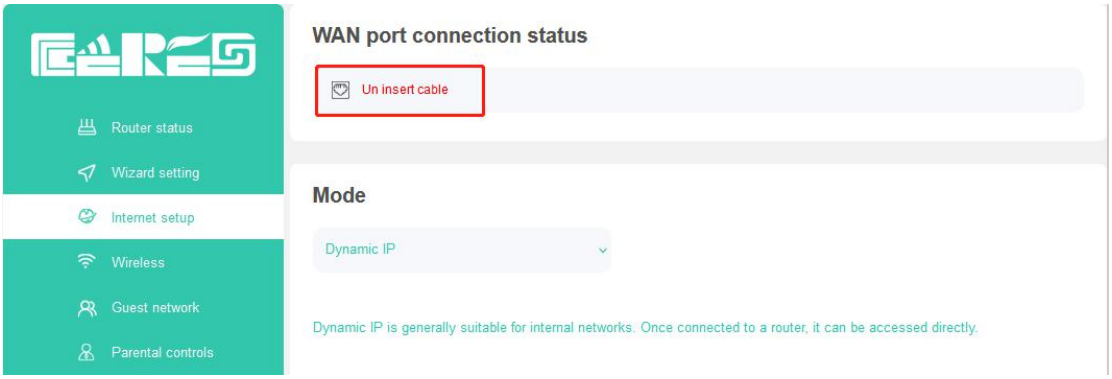
3.Firewalls and viruses

Sometimes firewalls and antivirus software on your computer can block access to the router and you need to turn them off or replace a device

FAQ4. I cannot access the Internet even though the configuration is finished, what can I do?

1.Check the physical connection of the WAN interface

If the Un insert cable message appears on the router's Internet setup page, it means that the network cable is not inserted correctly. Please insert and make sure the red message disappears



2.Restart the router or modem

3.Clone your PC's MAC address

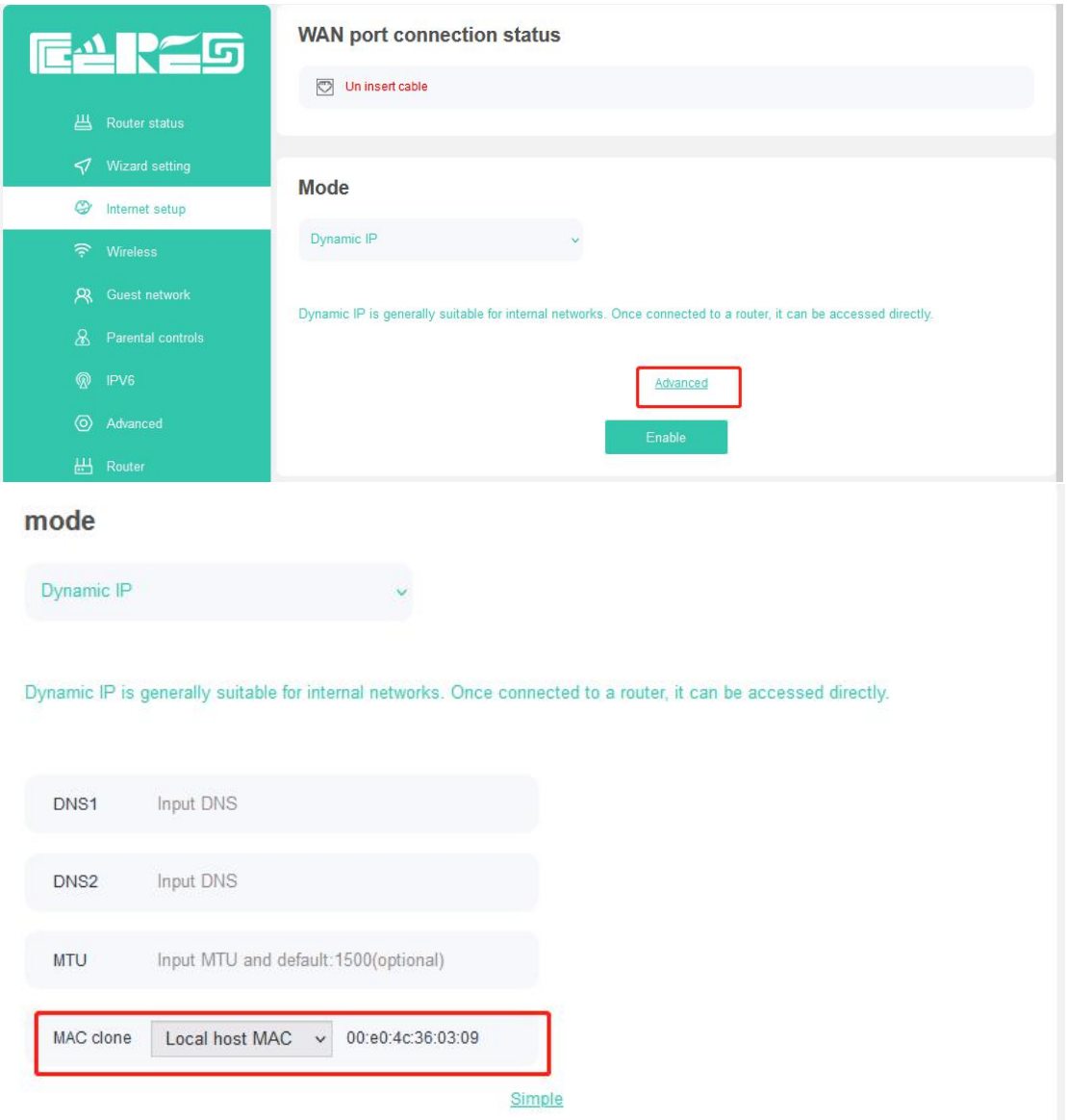
Some operators will bind your computer's MAC address when you access the Internet through

the cable modem for the first time, then we need to clone your computer's MAC address to the router

1) Visit http://192.168.10.1 or http://cereslogin.com

2) Go to **Internet setup** ->**Advanced**->**MAC clone**

3) Select Local host MAC, which clones your PC's MAC address to the router's WAN MAC address

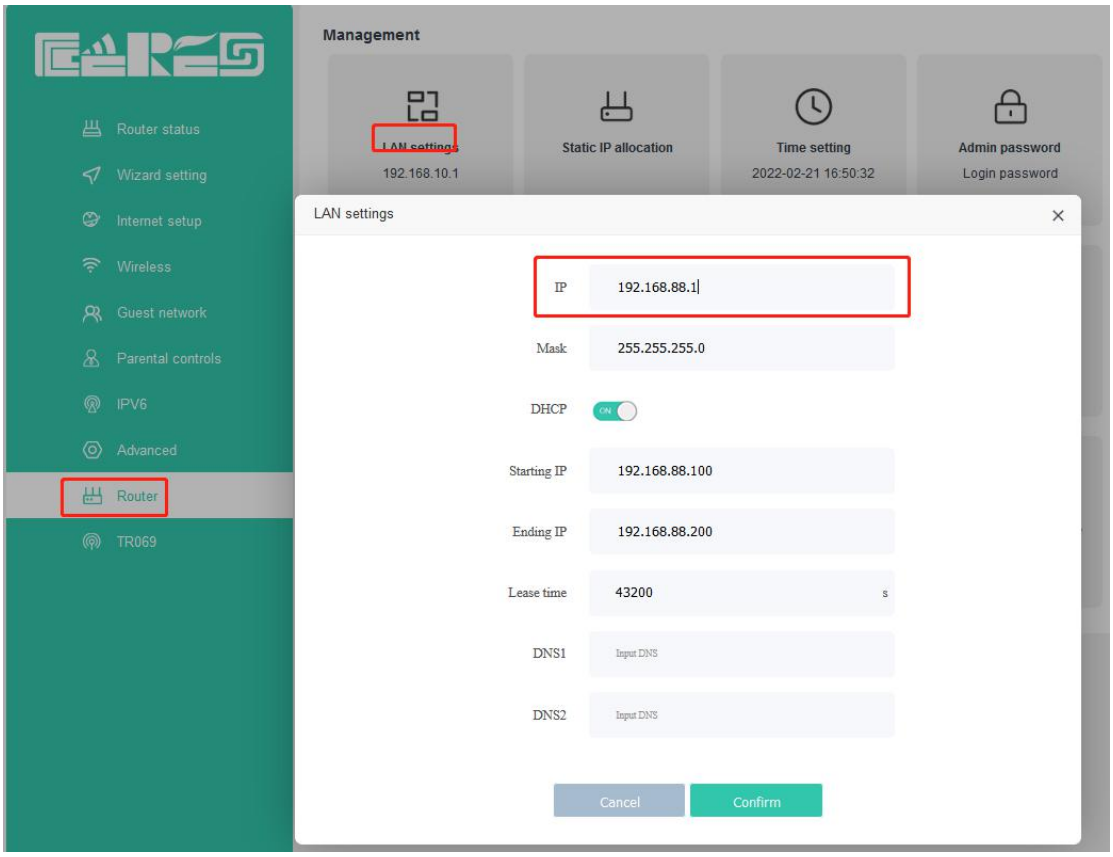


4.Change router LAN IP address

Most Ceres routers use 192.168.10.1/24 as the default LAN IP address, which may conflict with your existing modem/router IP. If so, it will cause you to not be able to access the Internet, we can change the router LAN IP to avoid IP conflict, for example 192.168.88.1

1) Visit http://192.168.10.1 or http://cereslogin.com

2) Go to **Router**->**LAN settings**



Note:After changing the LAN IP address, you need to use the new IP to access the management interface next time.

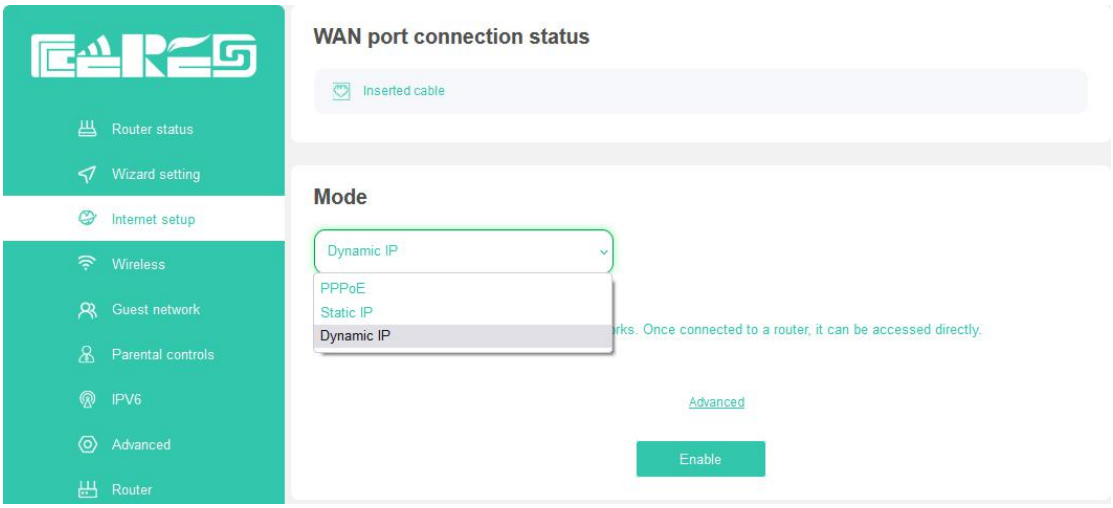
5.Double check the Internet Connection Type.

1) Confirm your Internet Connection Type, which can be learned from the ISP.

2) Visit http://192.168.10.1 or http://cereslogin.com

3) Go to **Internet setup**->**Mode**

4) Select your Internet Connection Type and fill in other parameters with the help of page tips.



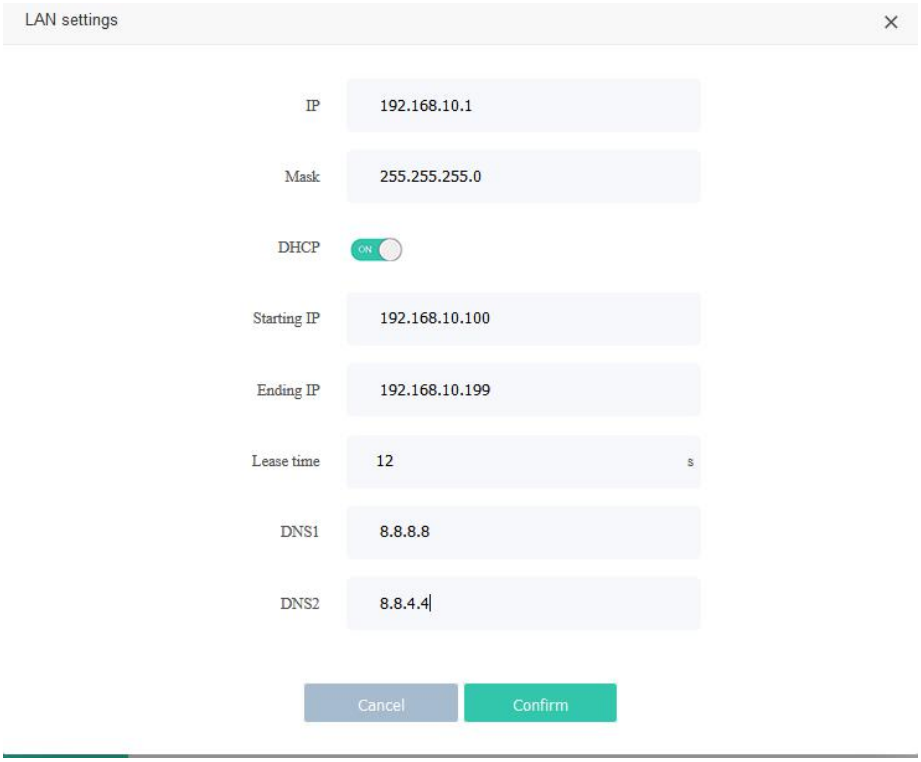
6.Your computer might not recognize any DNS server addresses, please manually configure

DNS server.

1) Visit http://192.168.10.1 or http://cereslogin.com

2) Go to **Router->LAN settings**

3) Enter **8.8.8.8** as DNS1,**8.8.4.4** as DNS2



7.Reset the router to factory default settings and reconfigure the router.

8.Upgrade the firmware of the router.

9.Check the TCP/IP settings on the particular device if all other devices can get Internet from the router.

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

FAQ5 I cannot find my wireless network or I cannot connect the wireless network

If you are using a laptop or USB wireless card with a built-in wireless adapter, make sure that your device's wireless function is enabled and the drivers are working properly.

If you can find a wireless network but can't connect, follow these steps

1.Authentication problem/password mismatch

The default wireless password is usually on the label on the back of the device. If the default password is incorrect, please try to restore the factory settings and connect again

Note:Wireless passwords are case sensitive

2.Windows cannot connect to xxx/Cannot connect to this network/Connected to this network for too long

1) Check the signal strength of the network. If it is weak, move the device closer to the router.

2) Change your router's wireless channel to 1, 6, or 11 to reduce interference from other networks.

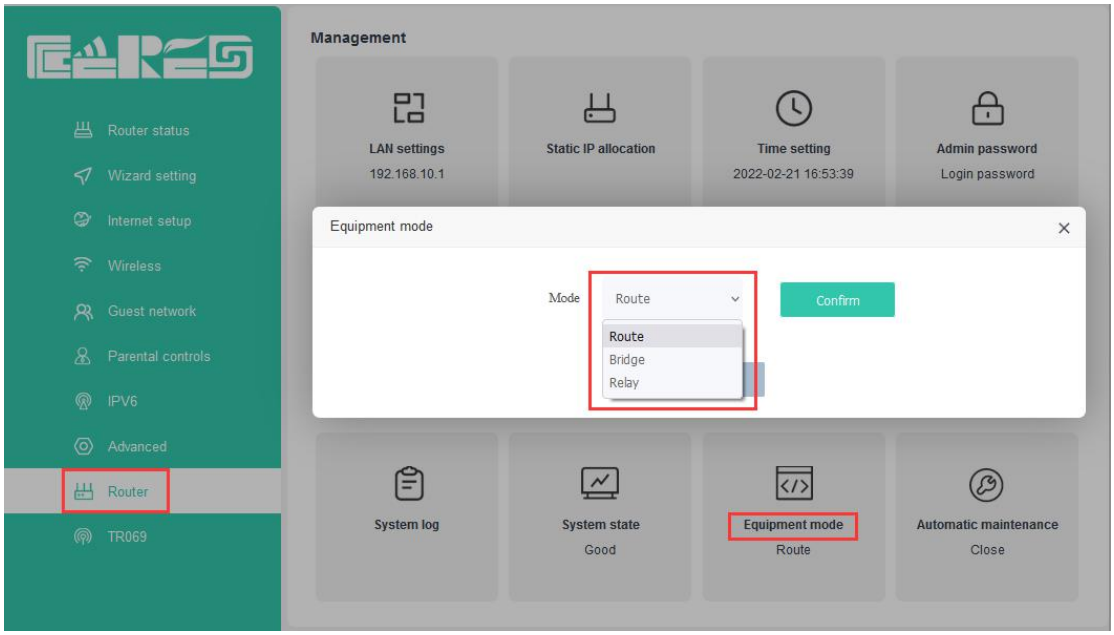
3) Reinstall or update the wireless card driver

FAQ 6 How to switch the working mode of the router?

1.Visit http://192.168.10.1 or http://ceres login.com

2.Go to **Router->Equipment mode**

3.Choose the working mode you need

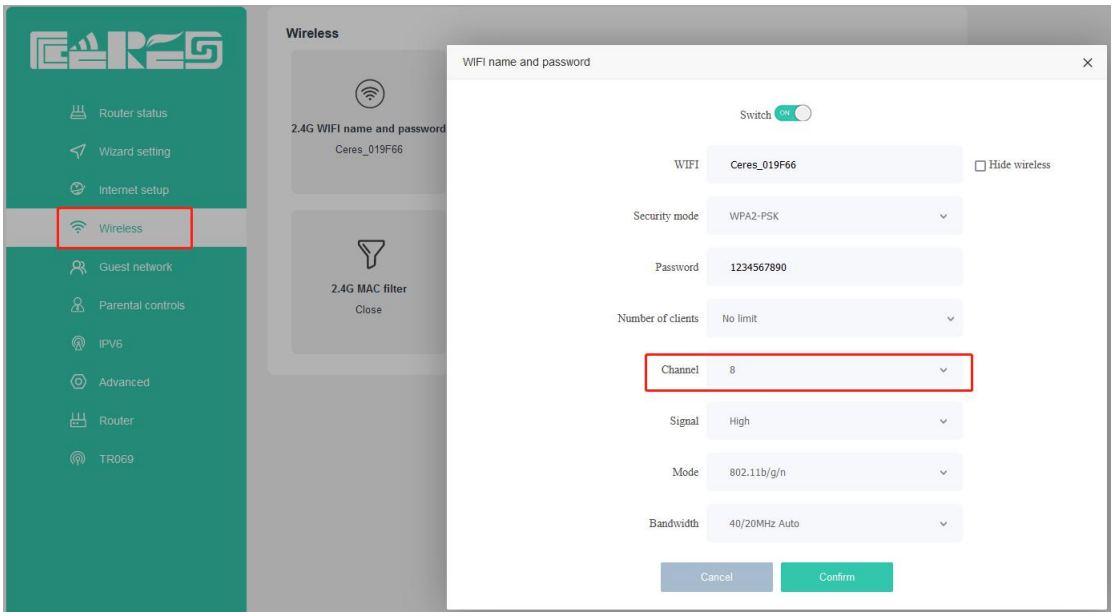


Note:In bridge and relay mode, some functions of the router cannot be used. To use the full function, please use the routing mode

FAQ 7 How to troubleshoot wireless relay failure?

Fault 1: Unable to search for the WIFI that needs to be relayed

Look for channels with low channel interference,Both the main route and the sub-route are fixed to this channel



Fault 2: Relay failed

1) Set according to **Fault 1**
2) The main route and the sub-route are too far apart
3) Confirm that the SSID and password for connecting to the main router are correct
4) Whether the upper-level router has set MAC filtering. If so, please add it.
5) Factory reset or update the latest firmware

FAQ 8 How to place routers for best signal/coverage

WIFI signal strength and range depend on factors such as frequency band, radio power output, receiver sensitivity, antenna gain, and antenna type. The environment also plays a very important role in the coverage and performance of the router. Floors, walls, obstacles and radio signal

interference can weaken the WIFI signal.

So, in many cases, the easiest and low-cost way to improve WIFI coverage is to move the router to a better location. Here, we will provide some options for your reference.

1) Put the router in the middle

2) Put the router at a certain height

Home routers generally use omnidirectional antennas, which radiate around horizontally and are weaker vertically. Place your router on a table or shelf to better utilize the transmission from the antenna.

3) Stay away from high-power appliances

High-power appliances and metal products may cause signal interference. Note that electrical appliances include microwaves, refrigerators, TVs, etc.

4) avoid obstacles

One of the materials most likely to block WIFI signals is metal. Refrigerators, walls, cabinets, furniture, or other large objects will reflect and absorb WIFI signals, creating WIFI blind spots. Adjust the position of the router so that the WIFI signal is not absorbed by metal.

5) Keep your device safe

Keep your device away from water or fire. Avoid heat and humidity to prevent device damage from affecting wireless performance.

6) Adjust the antenna

Tilt the antenna to the ground. If there are two antennas, the recommended tilt angle is between 45°-60°. If there are 3 antennas, you can place the middle antenna vertically upwards.