SLK-R680-WIFI

Industrial Wifi6 Router

User Manual

catalog

Chapter 1 login

1.1 Prepare before logging in

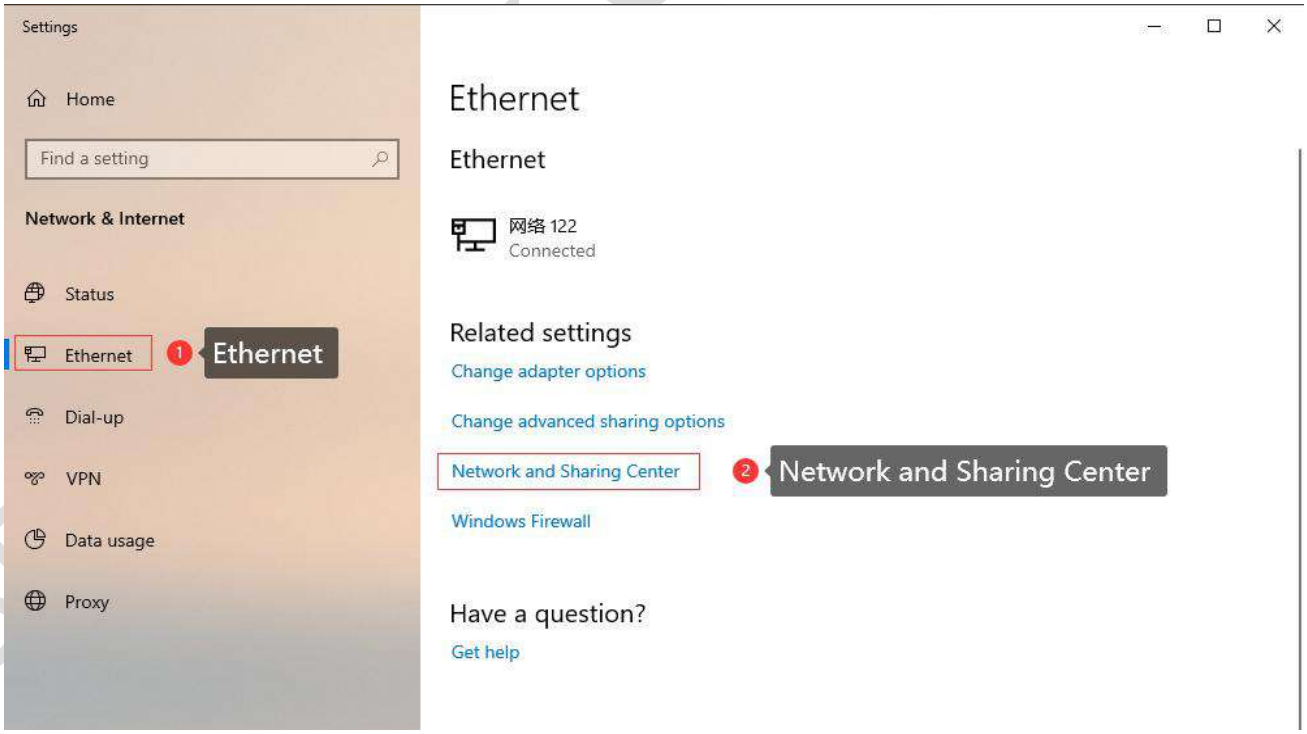
After completing the hardware installation, you will need to ensure that the management computer has an Ethernet card installed before logging into the router's web setup page. Please set the management PC to "Obtain an IP address automatically" and "Obtain DNS server address automatically" (the default configuration of the computer system), and the device will automatically assign an IP address to the management PC.

Set the IP address of the management PC (for example: 192.168.2.59) and the IP address of the device's LAN port in the same network segment (The initial IP address of the LAN port of the device is: 192.168.2.1, and the subnet mask is 255.255.255.0) The method is as follows.

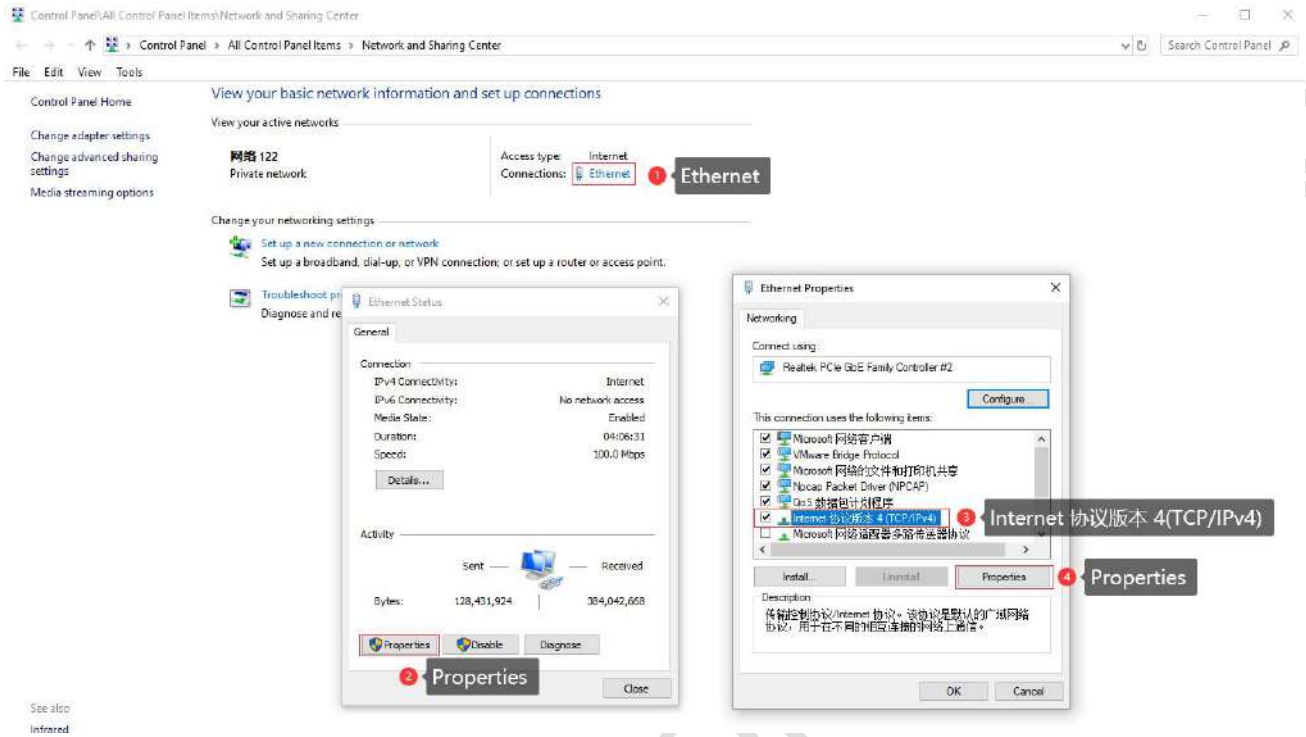
Take win10 as an example, the operation is as follows:

Step 1: Right-click the network logo in the lower right corner of the desktop (as shown in the figure), and choose to Open Network & Internet settings.

Step 2: First click on "Ethernet", then click on "Network and Sharing Center".

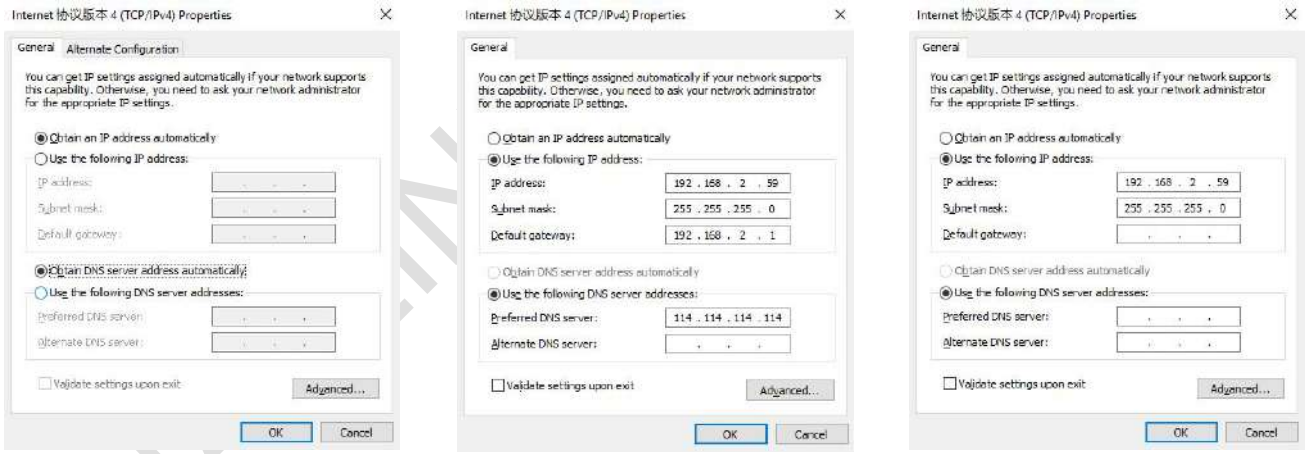


Step 3: Click Enternet with the mouse, click Properties in the pop-up box (Ethernet status), select Internet Protocol version 4 (TCP/IPv4) in the pop-up box (Ethernet properties), and click Properties



Step 4: There are three setting methods

method 1 method 2 method 3

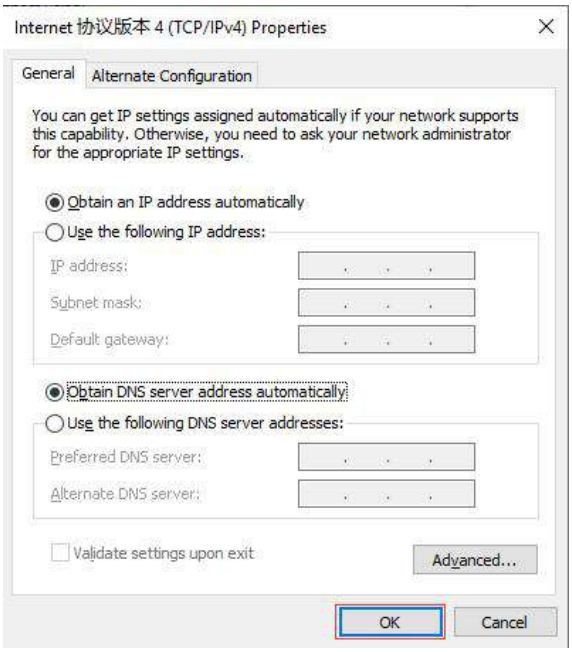


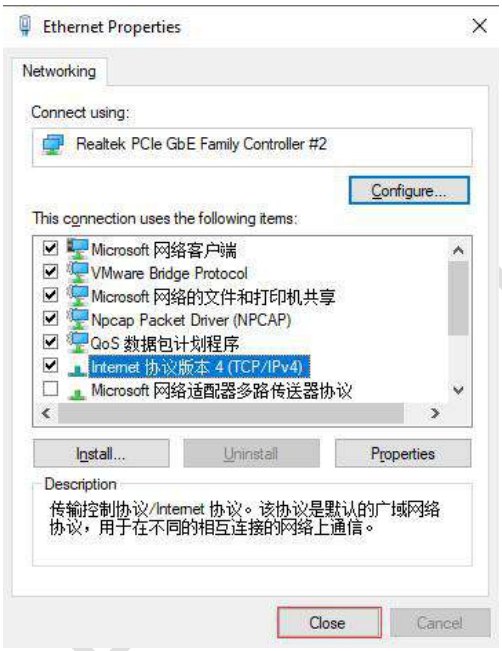
method 1: It can be used to configure the device and access the external network. It is recommended to use it (Note: If there are multiple routes with different network segments in the current environment, the IP obtained by the computer may not be able to connect to the device. In this case, method 2 can be used);

method 2: It can be used to configure the device and access the external network. The IP address is set to the device IP (the device defaults to 192.168.2.1) and the same network segment IP: 192.168.2.X (X is any number between 2 and 254, such as 192.168.2.2), the default gateway is set to device IP: 192.168.2.1, DNS can be set to 8.8.8.8 and other general DNS;

method 1: Only connect the device for configuration use, the computer cannot access the external network through the device network, and the IP address is set as in method 2;

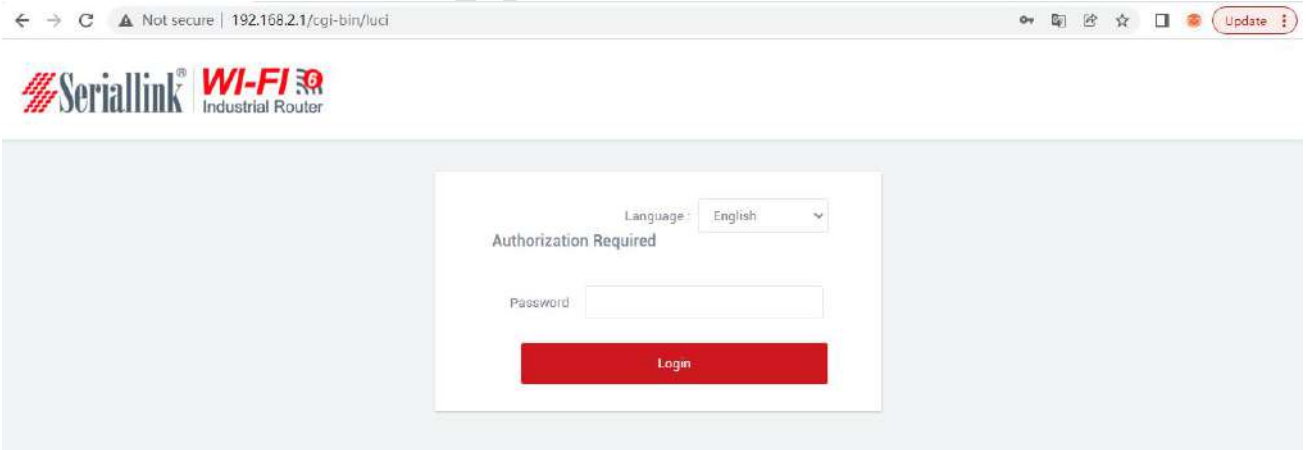
Step 5: Click OK with the mouse, and then click Close to save the changes in Steps 3 and 4;





1.2 Login configuration page

Open IE or other browsers, enter 192.168.2.1 in the address bar, after the connection is established, in the pop-up login interface, log in as the system administrator (admin), that is, enter the password in the login interface (the default password is set to admin).



The default login password is admin. If the user needs to protect the configuration interface to avoid being modified by others, he can modify the login password, click "System" - "Modify Password" in turn, then fill in the password to be modified, and then "SAVE & APPLY", please refer to Chapter 5.3 for details.

Chapter 2 Network Setting

2.1 Change the login page address

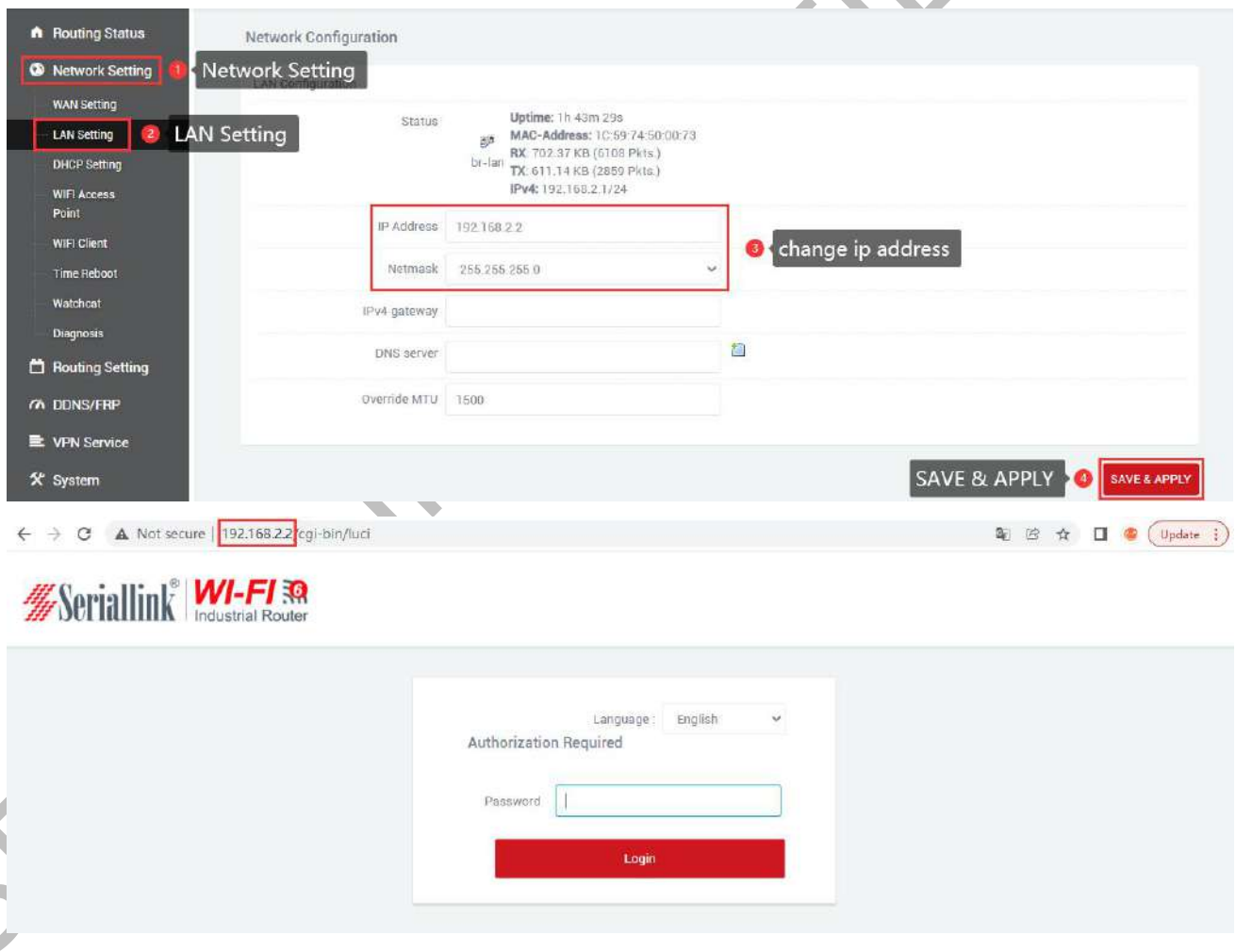
The default address of the router is 192.168.2.1. You can modify the static IP address in the navigation bar "Network Setting" - "LAN Setting". After modification, the new IP address will be used to log in to the page.

A.IP Address: Modify the ip address of the device (default is 192.168.2.1).

B.Netmask: It is generally 255.255.255.0, which can be modified as needed.

C.IPv4 gateway、DNS server、Override MTU: No special cases do not need to be set.

D.After the configuration is complete, click "SAVE & APPLY" to make it take effect. After it takes effect, you need to use a new IP address to access the configuration page of the device.



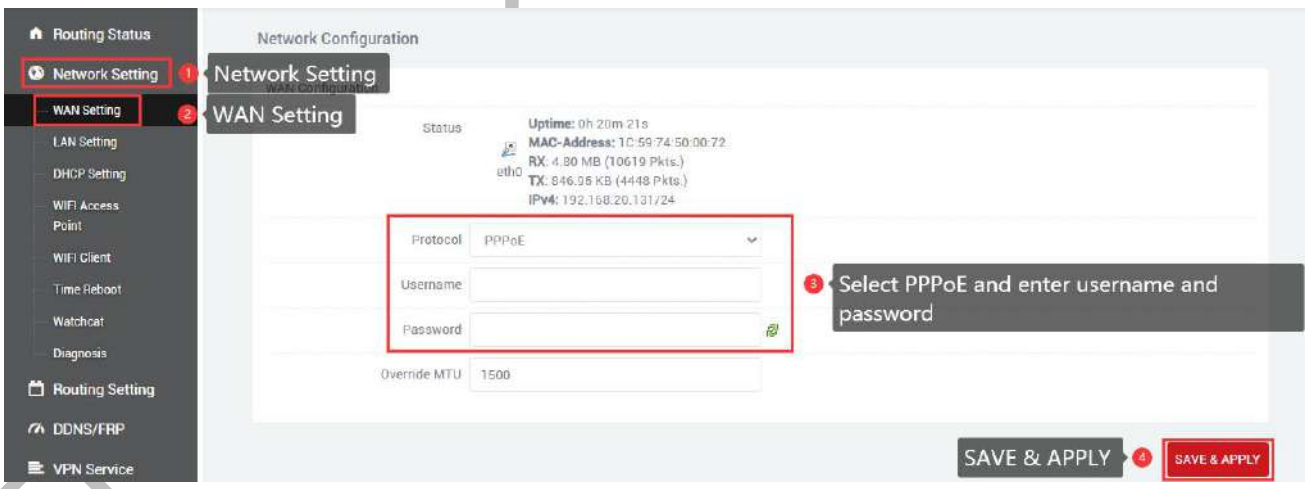
2.2 WAN Setting

2.2.1 DHCP address

Navigation bar "Network Setting" - "WAN Setting", the default protocol of WAN port is dynamic address (ie DHCP client), the upper-level device needs to be able to assign ip to the wan port,Without special cases, the value of MTU does not need to be changed (default: 1500).

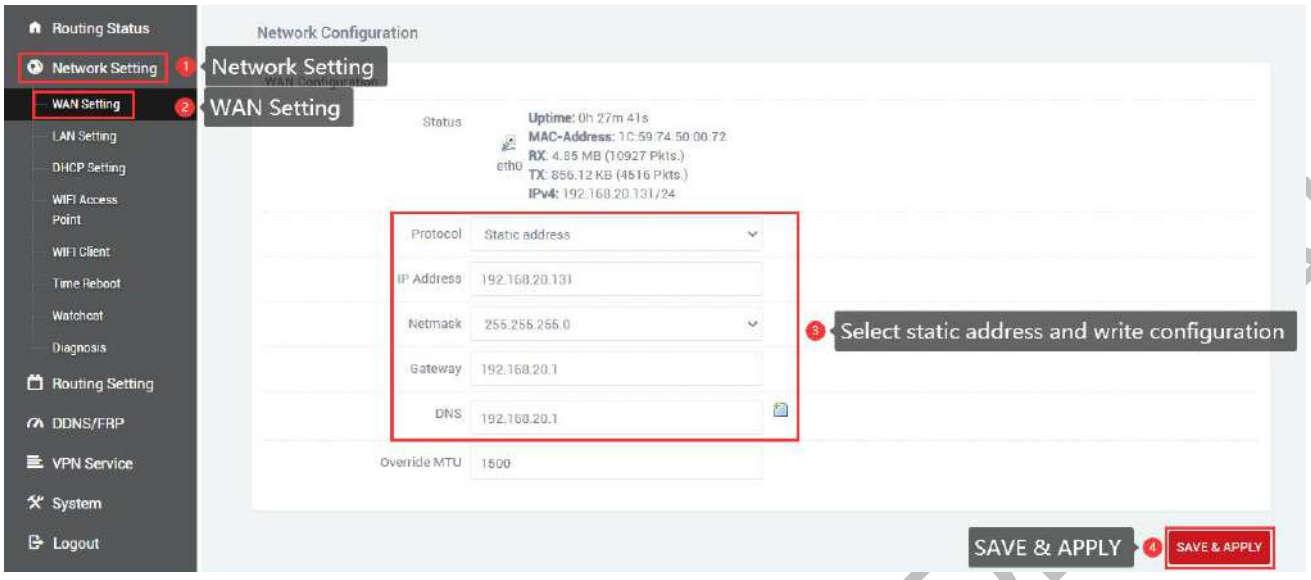
2.2.2 PPPoE

If the wan port needs to dial up to access the Internet, you need to select PPPoE, fill in the user name and password according to the actual situation, no special circumstances, the value of MTU does not need to be changed (default value: 1500).



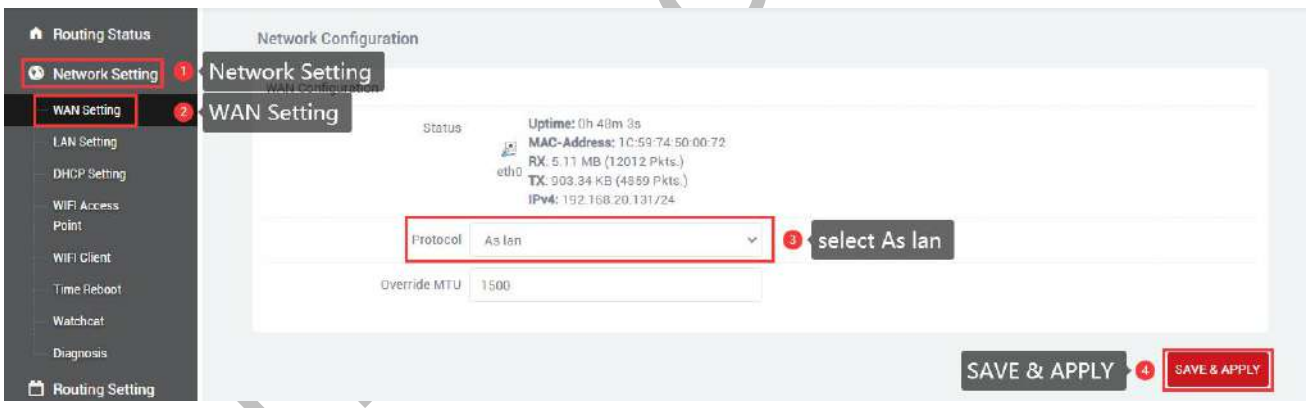
2.2.3 Static address

You can also choose to manually set the IP address for the wan port. You need to set the same IP address as the upper-level network segment, subnet mask, and gateway to fill in the IP address of the upper-level device. DNS can be the same as the gateway.Generally, there are common DNS such as 8.8.8.8. There is no special case, and the value of MTU does not need to be changed (default value: 1500).



2.2.4 As lan (convert WAN port to LAN port)

If you want to convert the WAN port into a LAN port, change the protocol of "WAN Setting" to "As lan", click "SAVE & APPLY", you can convert the wan port to a lan port(In the case of associated LAN, please be careful not to connect the WAN port and LAN port to the switch or the same computer), no special circumstances, the value of MTU does not need to be changed (default value: 1500).



2.3 DHCP Setting

DHCP adopts the client/server communication mode, the client submits a configuration application to the server, and the server returns the corresponding configuration information such as the IP address assigned to the client, so as to realize the dynamic configuration of the IP address and other information.

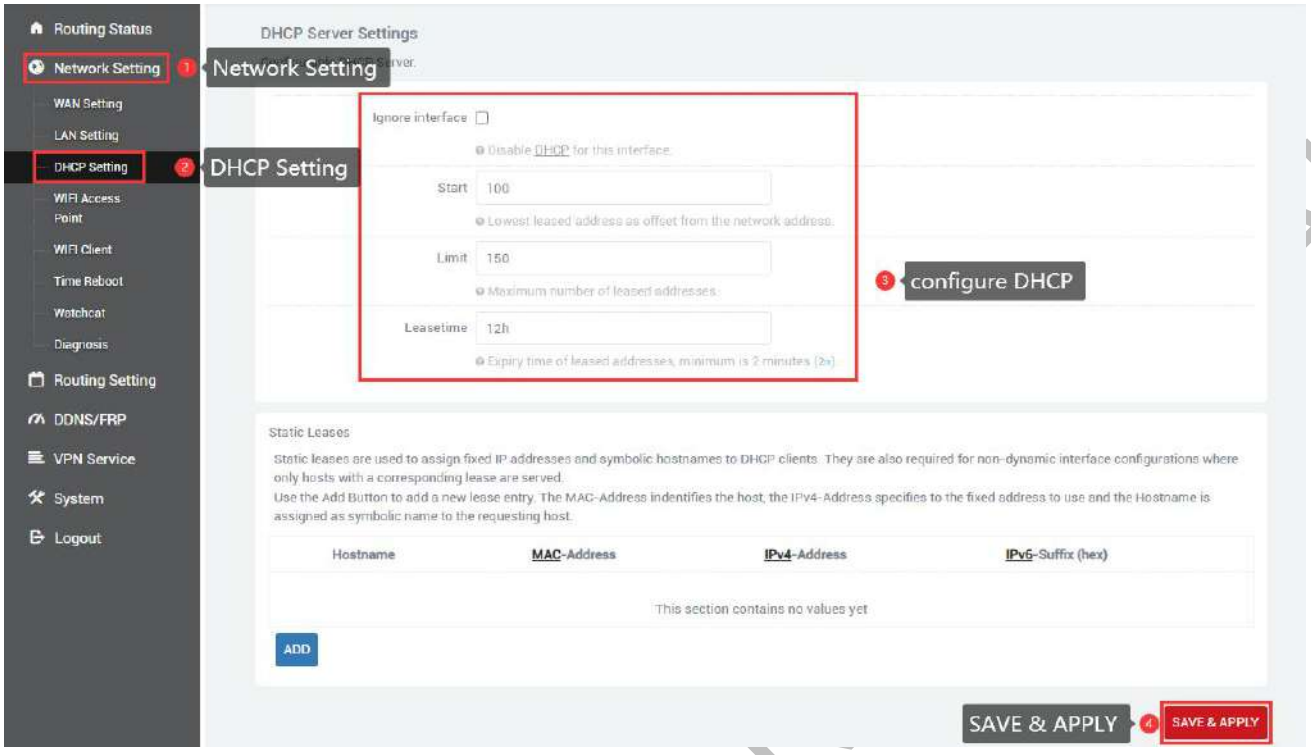
DHCP client configuration (enabled by default), select "Network Setting" - "DHCP Settings", "SAVE & APPLY".

A.Ignore interface: Checking this will turn off the DHCP server.

B.Start: The starting address of the allocated dhcp server, such as 100, means that the allocation starts from 192.168.2.100.

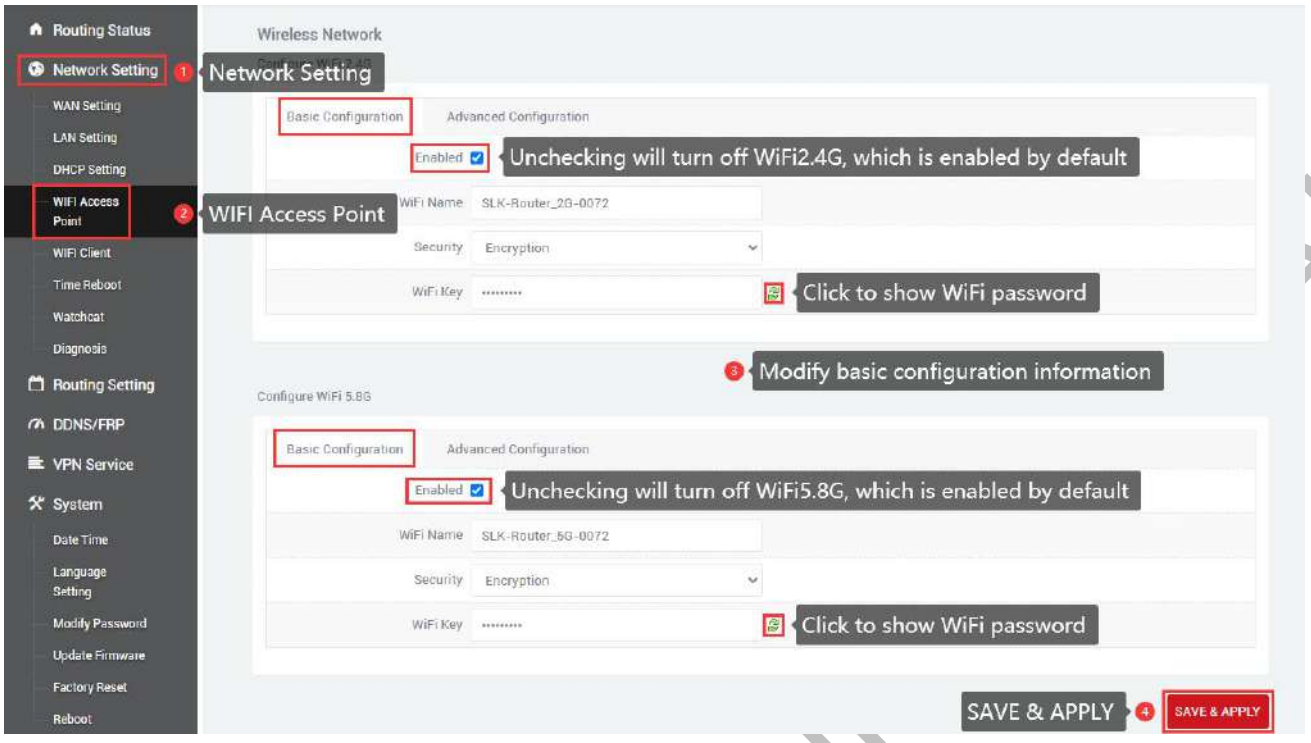
C. Limit: Maximum number of leased addresses.

D.Leasetime: Expiry time of leased addresses.



2.4 WIFI Access Point

WIFI AP supports WIFI dual-band 2.4G+5.8G, WIFI is enabled by default, wifi name: SLK-Router_2G-XXXX, SLK-Router_5G-XXXX (to avoid the same name of wifi between different devices, the "XXXX" part will be different), password : slk100200(Password needs to be 8 characters or more). Navigation bar "Network Setting" - "WIFI Access Point", you can change the basic configuration of WIFI.



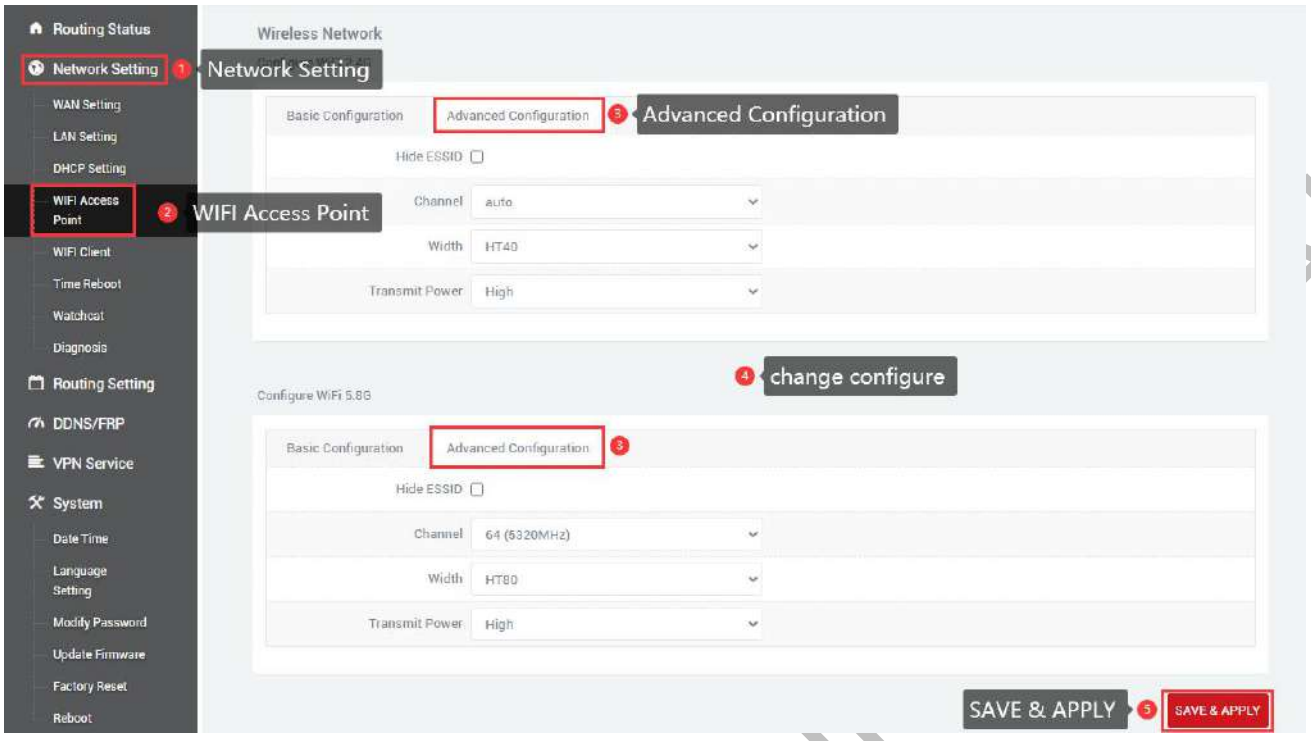
Navigation bar "Network Setting" - "WIFI Access Point" - "Advanced Configuration", under normal circumstances do not need to modify.

Hide ESSID: If checked, this WiFi will not be searched on mobile phones, computers and other devices.

Channel: If you know the channel of other wifi nearby, you can set this device to a different channel to improve wifi speed and signal.

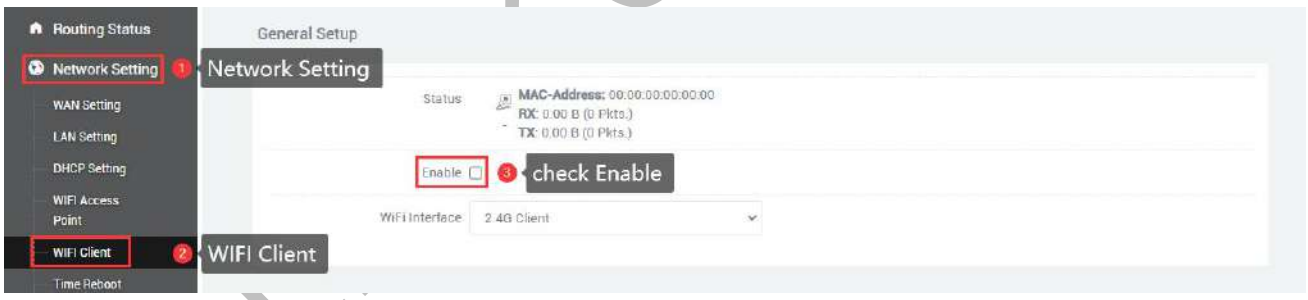
Width: WiFi speed HT80 (5.8G exclusive) > HT40 > HT20, WiFi stability HT20 > HT40 > HT80 (5.8G exclusive), affected by distance and partitions (such as walls), use large bandwidth at close range,use a small bandwidth for long distances.

Transmit Power: The higher the power, the better the wifi performance.

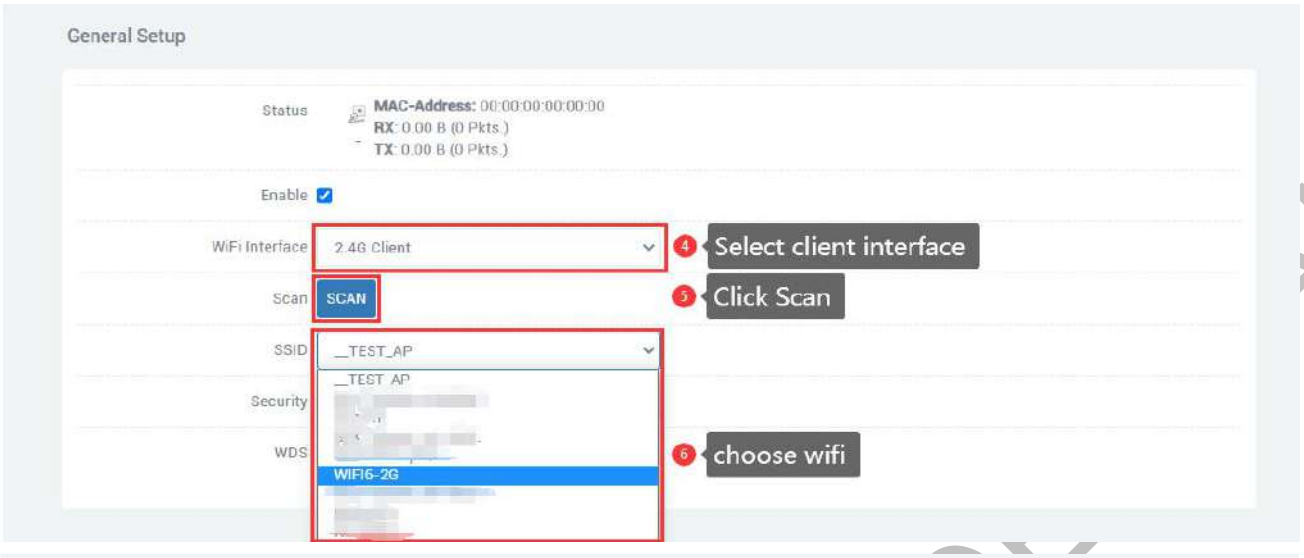


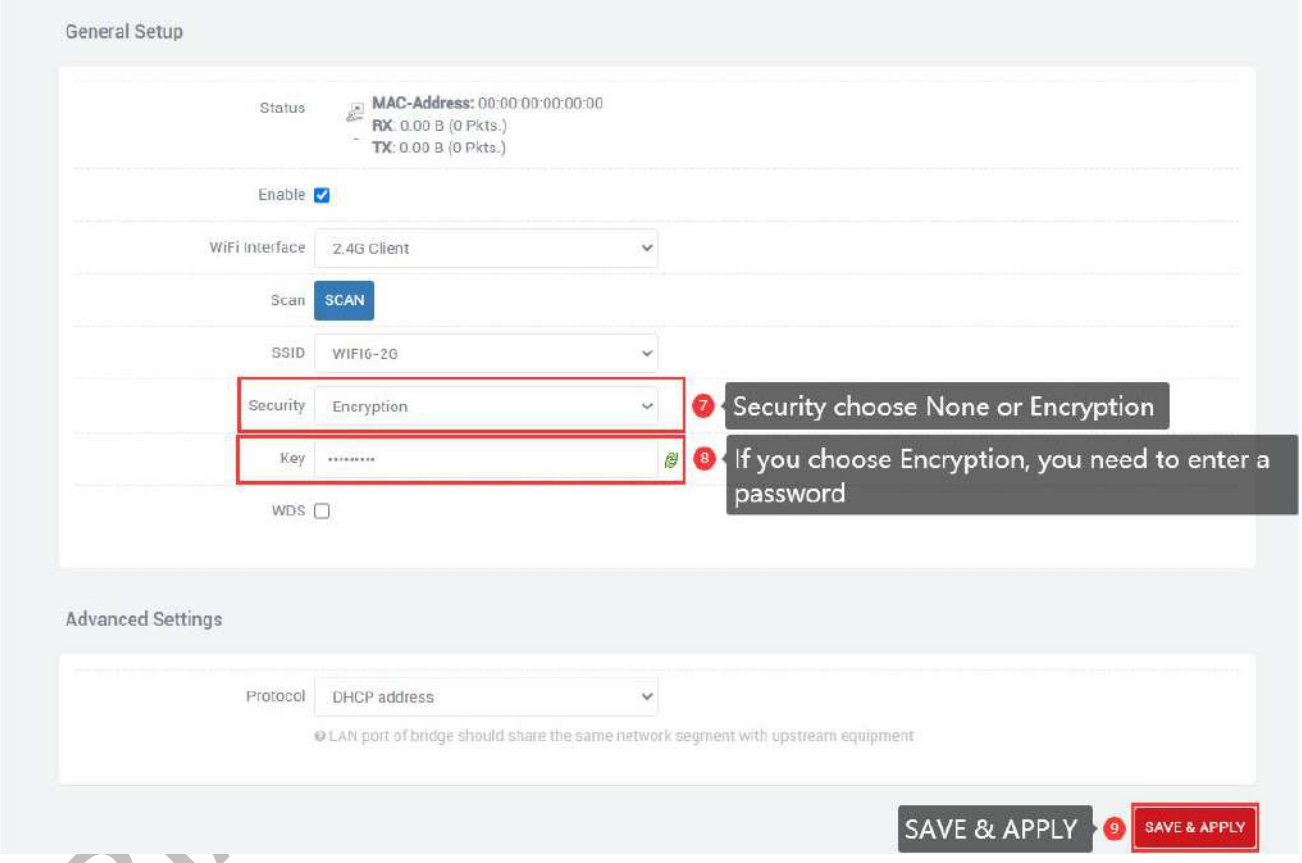
2.5 WIFI Client(Bridge)

The WIFI Client is not enabled by default, you need to check to enable it in the navigation bar "Network Setting" - "WIFI Client".

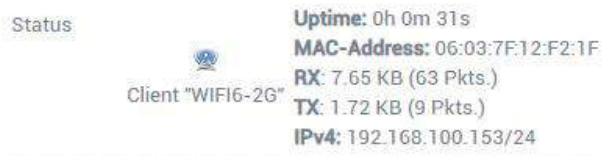


Then select the client wifi interface: 2.4G Client, 5.8G Client, search the corresponding WIFI list, select WIFI in the SSID list, change the security option according to whether there is a password, None (no password),Encryption(Encryption mixed mode Mixed WPA/WPA2-PSK), WDS is not checked by default.





After successfully connecting to WIFI, the WIFI status will be displayed.



Note: The wireless interface 2.4G client search requires WIFI wireless AP WiFi-2.4G is in the activated state, the wireless interface 5.8G client search requires WIFI wireless AP WiFi-5.8G is in the activated state,Otherwise, the search result will not be displayed（after saving the page configuration of WIFI wireless

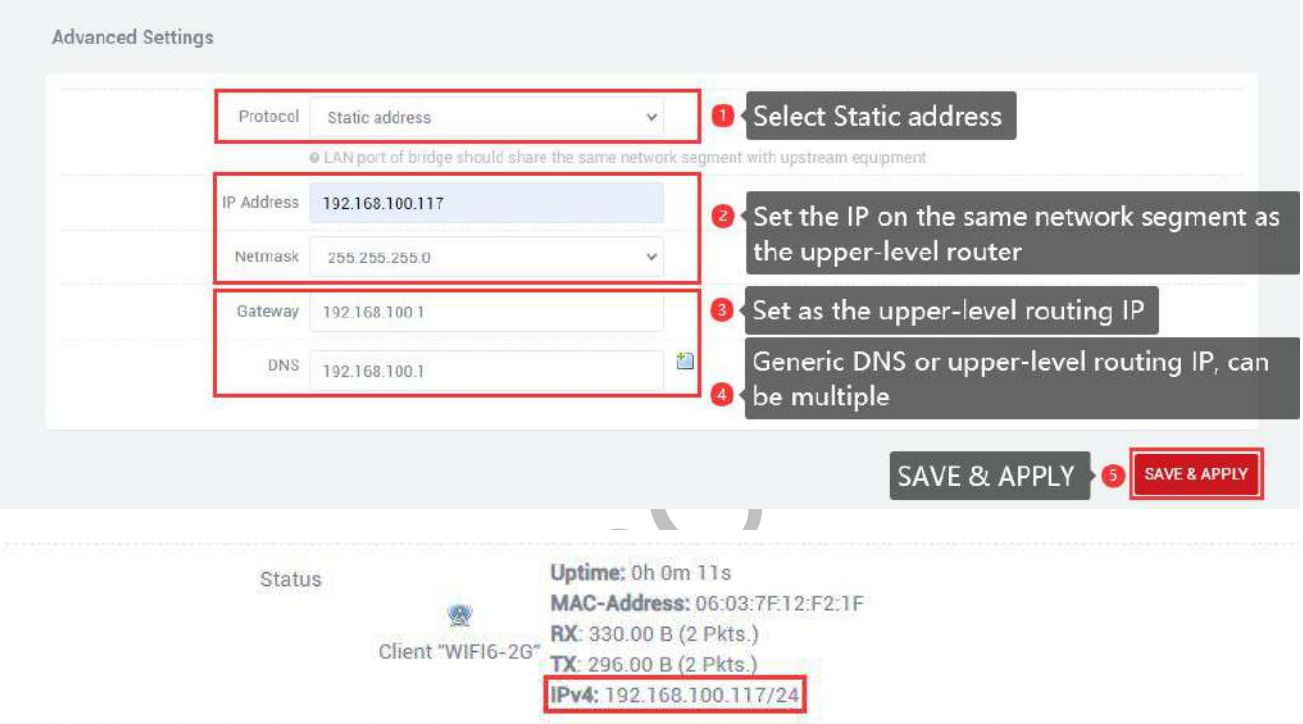
AP and WIFI wireless client, WiFi-5.8G starts slowly, please wait for a while).

WIFI wireless client advanced settings protocol selection:

A.DHCP address (default): The WiFi client automatically obtains the IP address assigned by the superior route.

B.Static address: The WiFi client uses the user-configured IP address, subnet mask, gateway, and DNS.

C.Bridge Lan: Use the LAN port configuration IP address, subnet mask, gateway, DNS, Lan port configuration reference WIFI wireless client advanced settings static address (relay mode select this item).

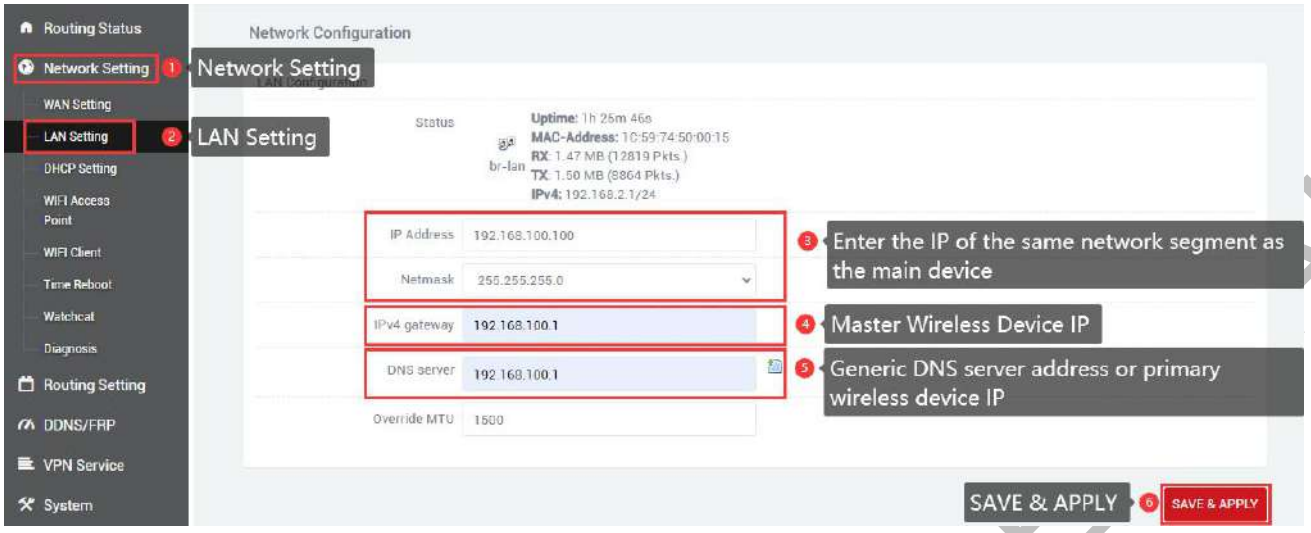


2.6 WIFI repeater

This section describes how to extend the wireless signal length by means of relays. In this configuration mode, the computer terminal connected to the SLK-R680 is in the same IP address segment as the main wireless network.

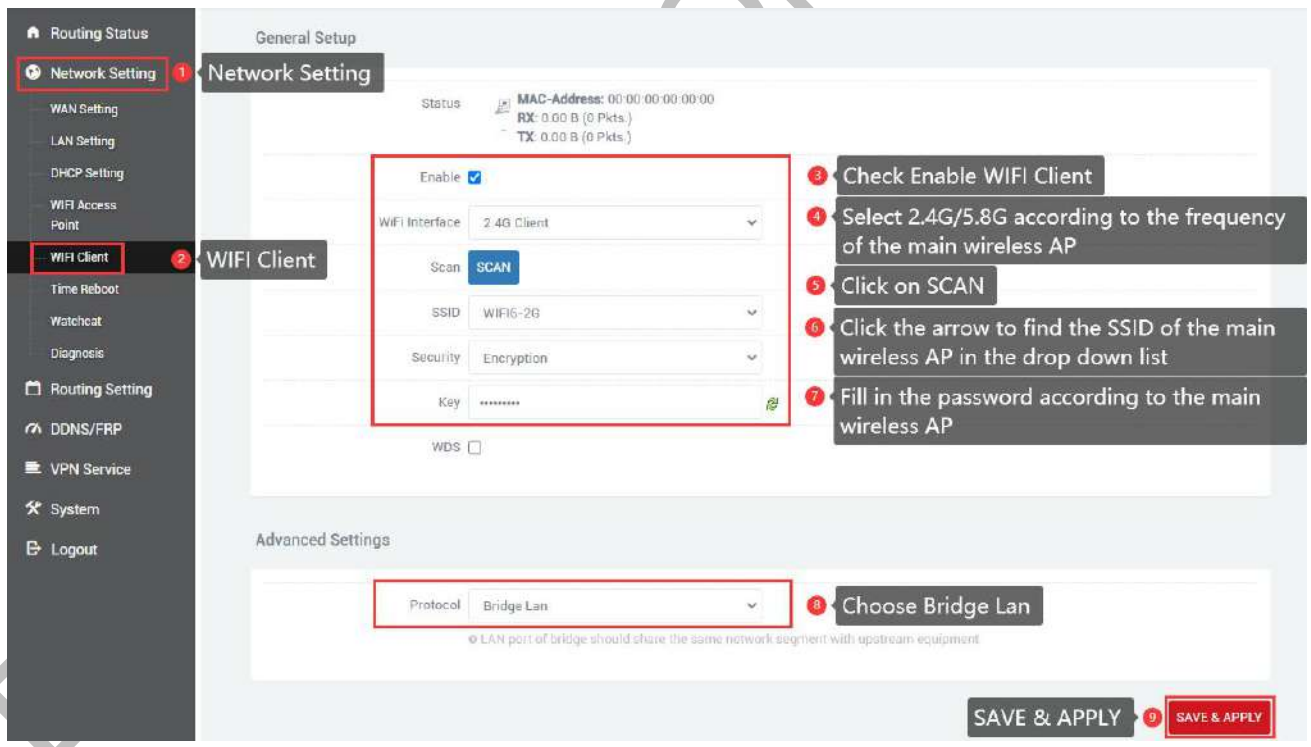
2.6.1 Change the local IP address

It is necessary to modify the local IP address of SLK-R680 to be in the same network segment as the main wireless AP. For example, the IP address of the main wireless AP to be connected is 192.168.100.1, then modify the IP address of SLK-R680 to 192.168.100.100. It should be noted that the LAN port gateway is empty by default. After using the relay mode setting, if you need to connect to the Internet through the WAN port in the future, you need to delete the gateway information in the LAN settings to avoid the situation of being unable to access the Internet.

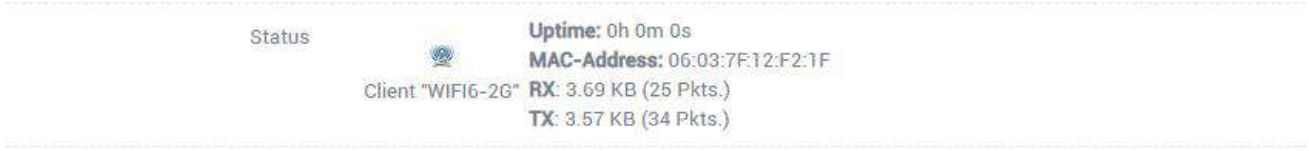


2.6.2 Connect to the main wireless AP

In the navigation bar "Network Setting" - "WIFI Client", check to enable the WIFI wireless client, and configure the connection to the main wireless AP. For example, the SSID of the main wireless AP to be connected here is WIFI6-2G, and the password is slk100200,Search and select the SSID as shown in the figure below, fill in the password, select "Bridge Lan" from "Protocol", and click "SAVE & APPLY".

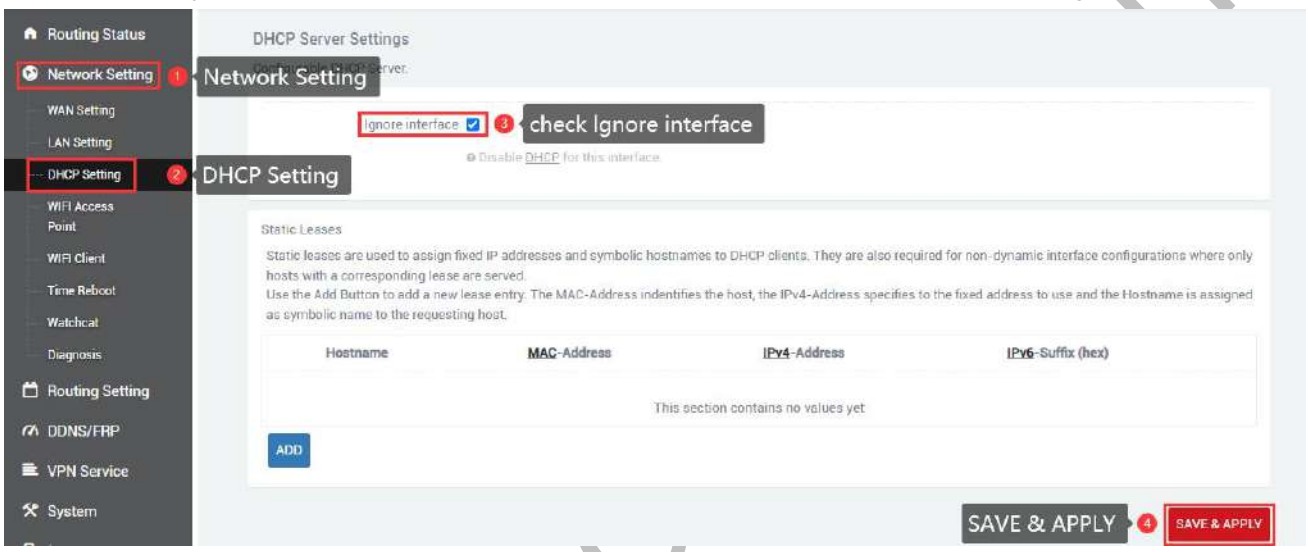


It should be noted that in this mode, the main wireless AP no longer assigns an IP address to this SLK-R680. Therefore, the obtained IP address will not be updated in "Status", and you can confirm whether the connection is successful through the icon color and MAC address. The picture below is successful.



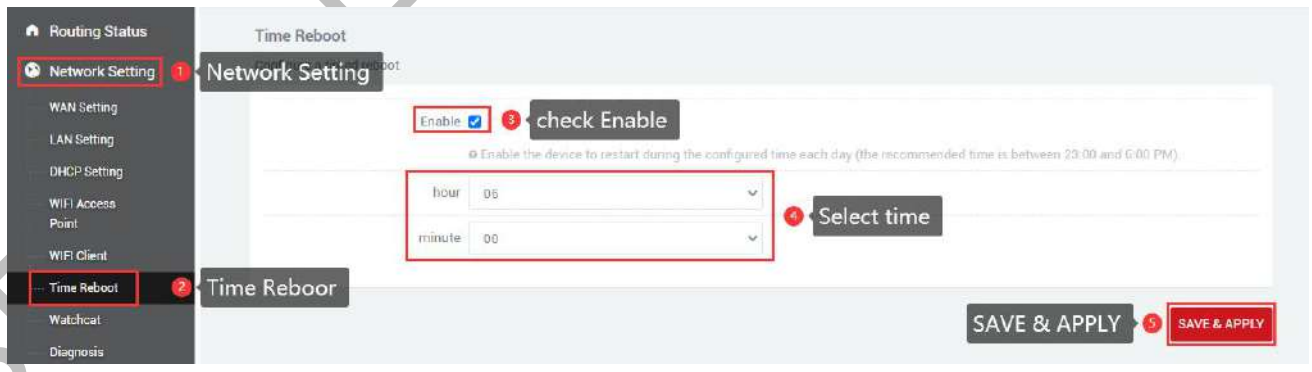
2.6.3 Disable DHCP

Disable the DHCP server function of the SLK-R680. In this way, the SLK-R680 no longer assigns IP addresses to the connected devices, and all devices connected to the local area network are assigned IP addresses by the main wireless to realize communication on the same network segment.



2.7 Time Reboot

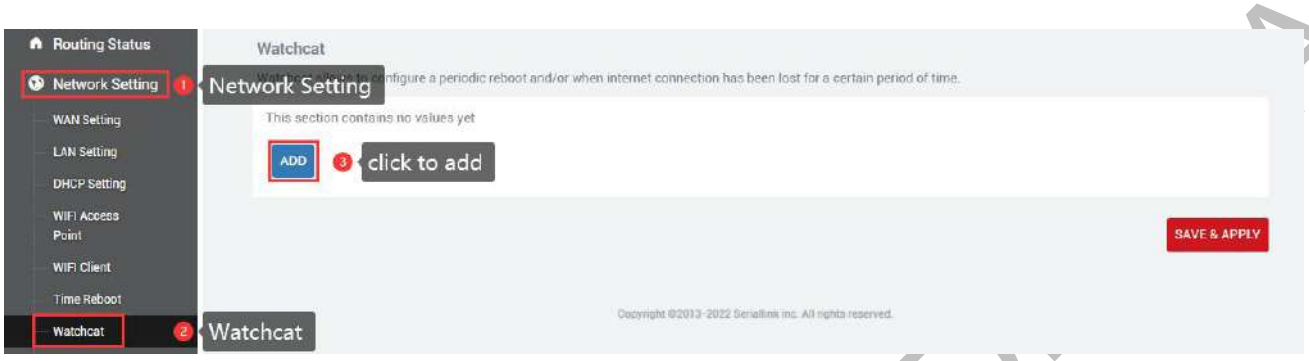
Navigation bar "Network Setting" - "Time Reboot", users can check to enable and set the time to restart every day, pay attention to check whether the device time is correct, modify the correct time: "System" - "Date Time", see chapter 5.1 for details .



2.8 Watchcat

In the navigation bar "Network Setting" - "Watchcat", the network self-check function is disabled by

default, and the network self-check allows setting periodic restarts or restarts when the network is abnormal. If you need to activate this function, click Add, enter the configuration and click "SAVE & APPLY".

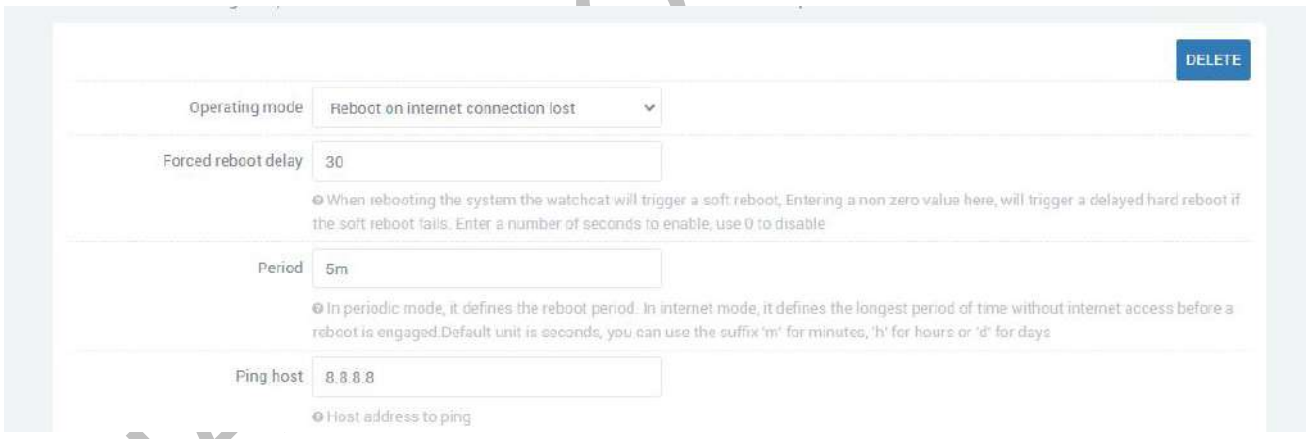


A.Forced reboot delay: When rebooting the system the watchcat will trigger a soft reboot, Entering a non zero value here, will trigger a delayed hard reboot if the soft reboot fails. Enter a number of seconds to enable, use 0 to disable

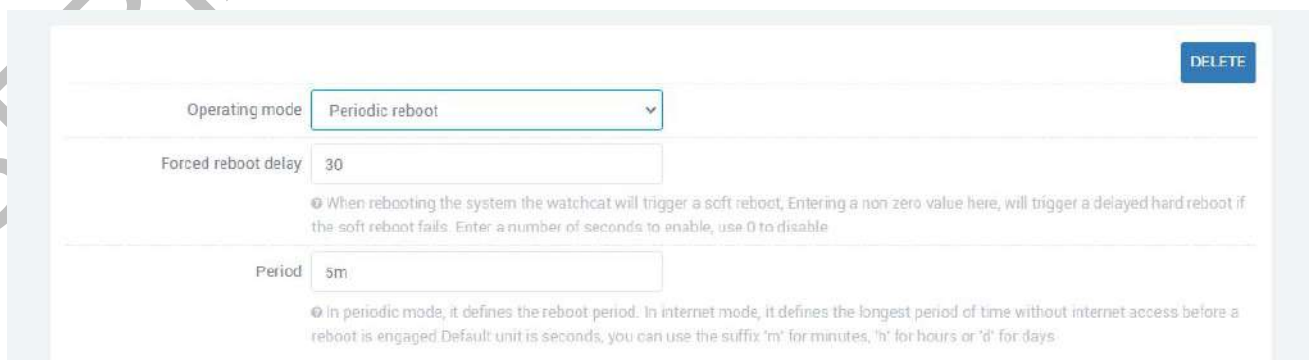
B.Period: In periodic mode, it defines the reboot period. In internet mode, it defines the longest period of time without internet access before a reboot is engaged.Default unit is seconds, you can use the suffix 'm' for minutes, 'h' for hours or 'd' for days

C.Ping host: Host address to ping

1.Reboot on internet connection lost



2.Periodic reboot



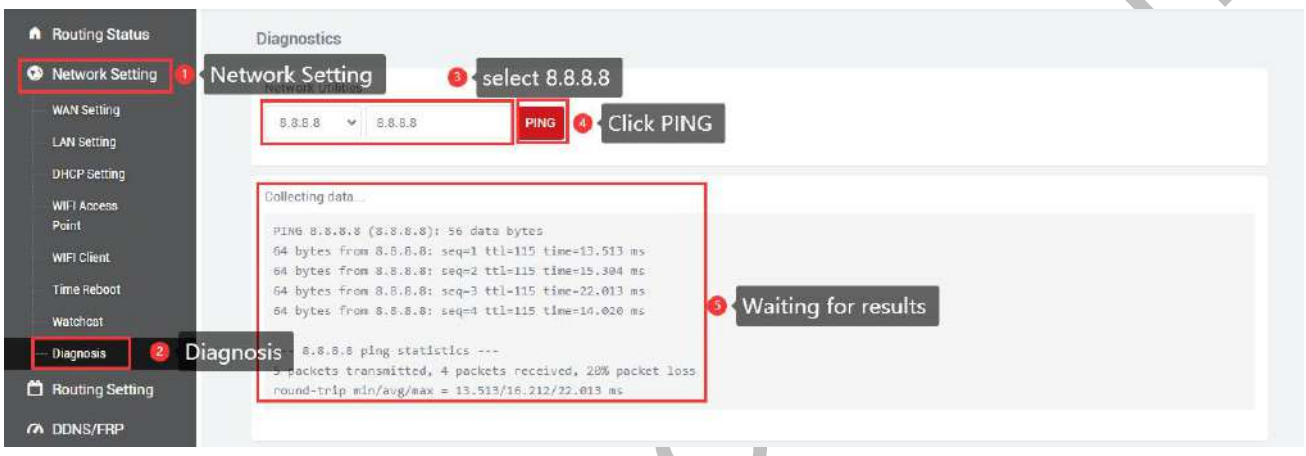
After adding and configuring, click "SAVE & APPLY" to take effect. To delete the configuration, just click the "DELETE" button in the upper right corner, and then "SAVE & APPLY".

2.9 Diagnosis

Through network diagnosis, you can determine whether the router and the connected device can communicate with each other, whether the device can access the Internet, and whether the device is successfully connected to the VPN. It can also be used to test other aspects, and you can test it according to your own needs.

Navigation bar "Network Setting" - "Diagnosis".

Baidu, seriallink, 8.8.8.8: It is generally used to test whether the device can access the Internet. If it can ping, it means the device can access the Internet. If it cannot ping, it means that the device cannot access the Internet.



Custom input box: generally used to test whether the connected device can be pinged.

Chapter 3 Firewall and Application

3.1 Firewall on and off

The firewall is enabled by default. When doing DMZ and Port Forwards, you need to disable the firewall. Steps to disable the firewall, go to the navigation bar "Routing Setting" - "Firewall", select disable the firewall, and then click "SAVE & APPLY".

3.2 DMZ

The DMZ function can map the WAN port address to a certain host on the LAN side; all packets to the WAN address will be forwarded to the specified LAN side host to achieve bidirectional communication. In fact, it is to completely expose a host in the intranet to the Internet and open all ports, which is equivalent to all port mapping. It is equivalent to using the public IP directly.

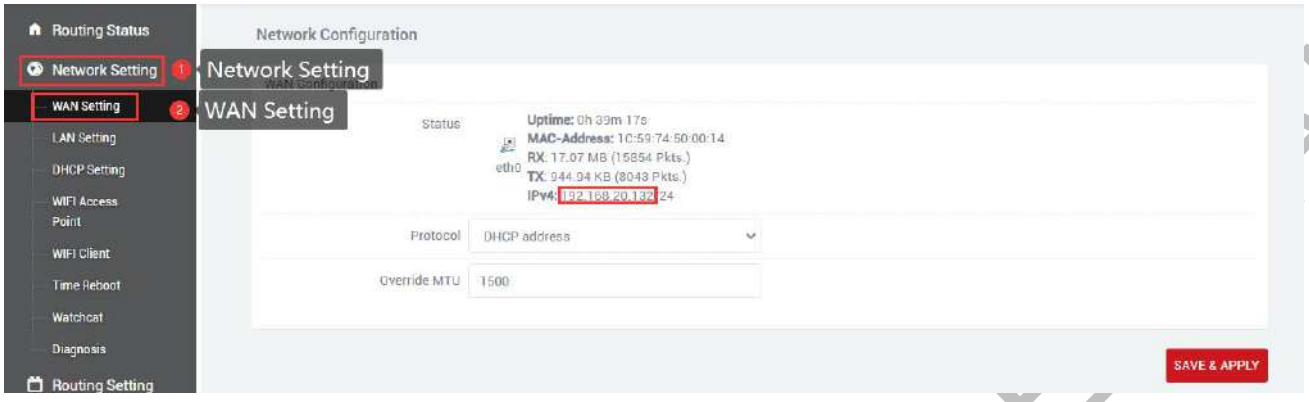
First, you need to disable the firewall, click "Routing Setting" - "DMZ" in the navigation bar, click Enable, set the IP address assigned by the lan port to the connected device, and forward all the ports of the connected device,It can be accessed directly through the IP address of the wan port.

Enable: Tick Enable.

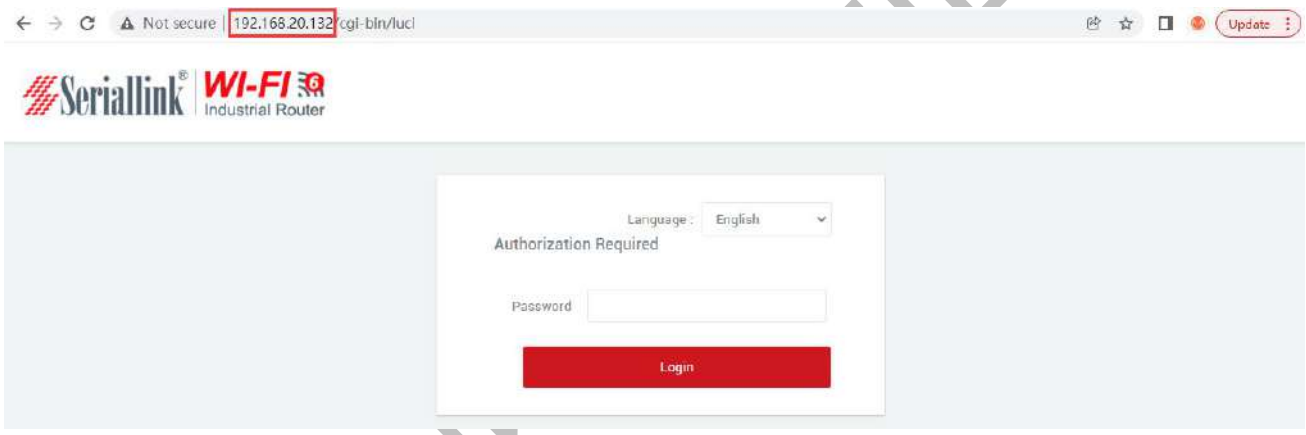
Internal IP address: The ip address of the local device or the ip assigned to the connected device through dhcp.

DMZ actually forwards all ports of the device. After the configuration is complete, click "SAVE & APPLY" to make it take effect.

Check the IP of the wan port, you can directly access the connected device through the IP of the wan port. If you can't access it, the possible reason is that the firewall of the connected device is opened, and you need to turn off the firewall of the connected device.



You can access the connected device directly through the IP of the wan port.（Note: The computer needs to be in the same local area network as the IP of the wan port before it can be accessed）



3.3 Prot Forwards

Compared with the DMZ, port forwarding is a more refined control, which can forward the data packets sent to a certain port to a certain host on the LAN side, and can realize the transfer of different ports to different hosts.

First you need to disable the firewall.

Navigation bar "Routing Setting" - "Port Forwards" setting menu, enter the "Port Forwards" interface to configure.

A.Name: Specify the name of this rule, which can be a meaningful name.

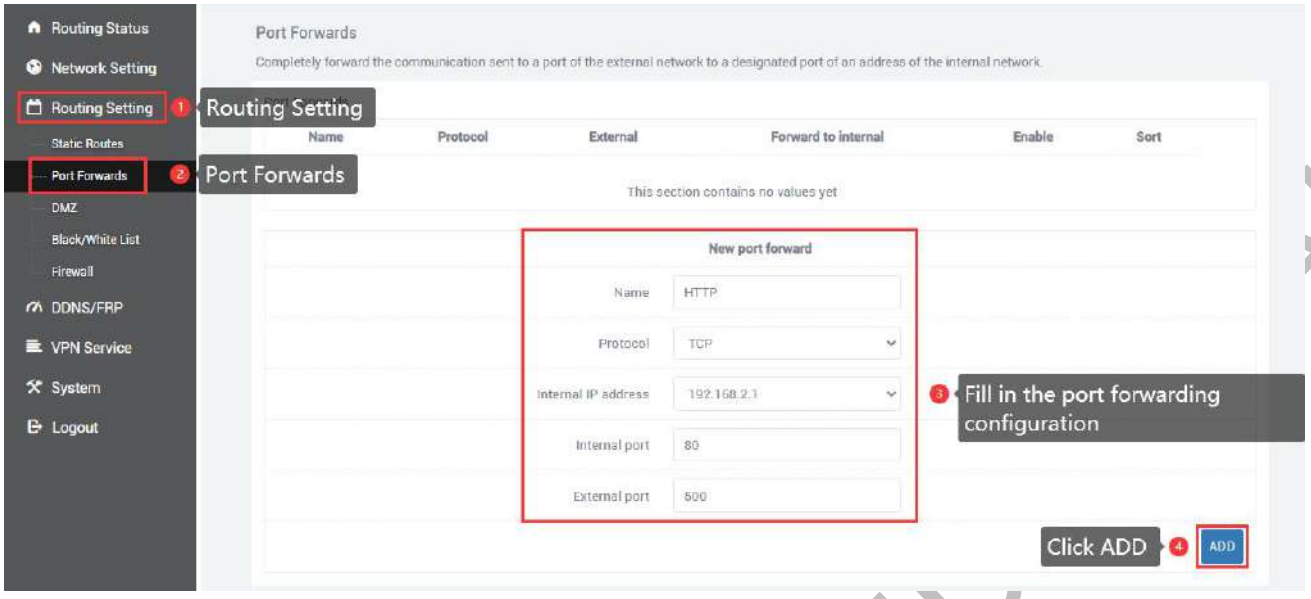
B.Protocol: Specifies the protocol to be forwarded, which can be TCP, UDP, or TCP/UDP.

C.Internal IP address: Select the IP address that needs to be forwarded to the external network.

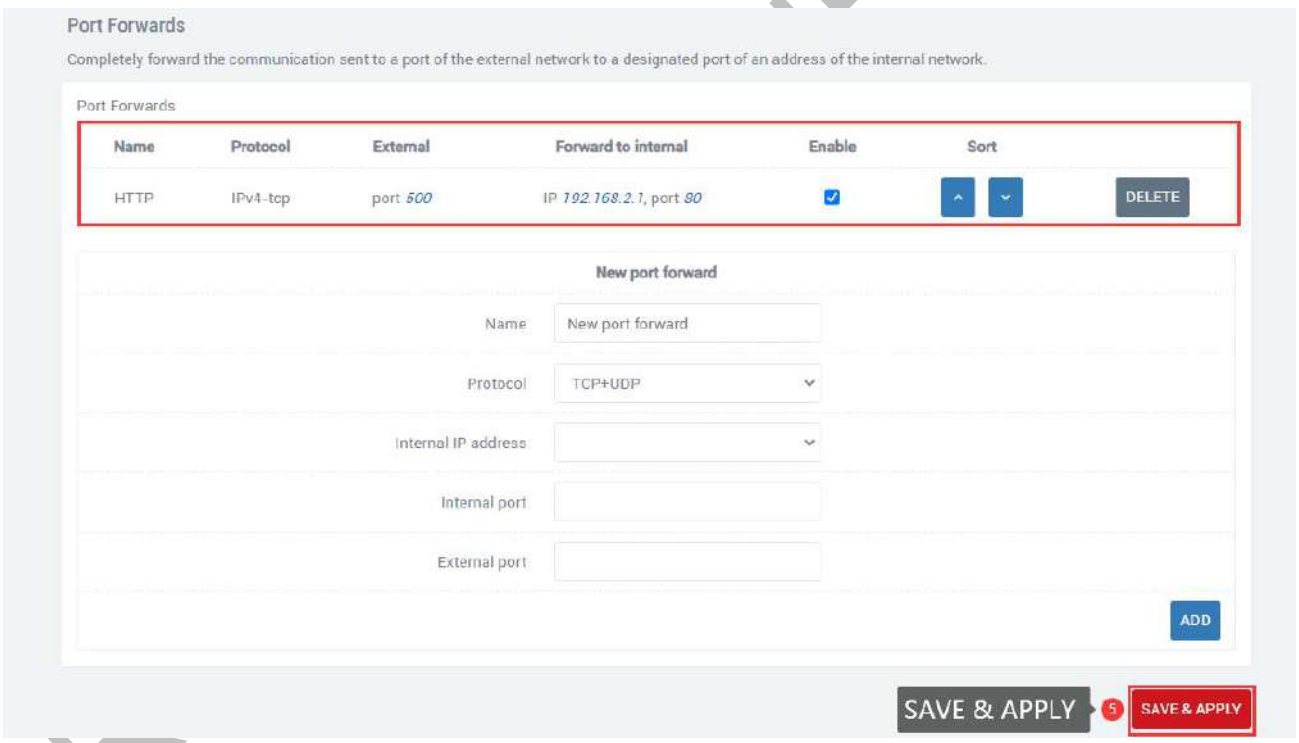
D.Internall port: The port to be forwarded by the connected device or the machine.

E.External port: Add this external port through the wan port ip to access the connected device.

D.After configuration, click the "ADD" button to add a forwarding rule. Click the "SAVE & APPLY" button to make the rule take effect.

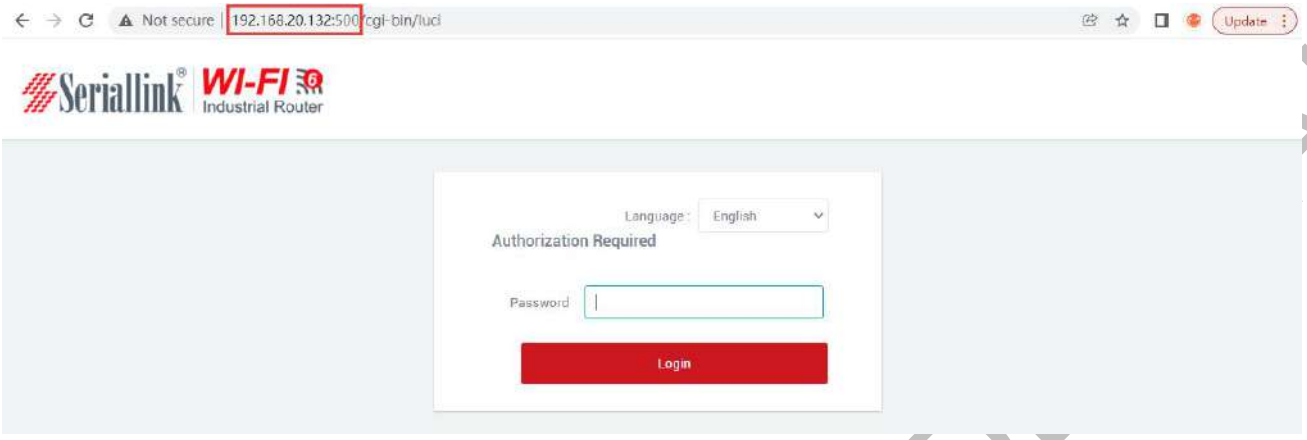


After the addition is successful, a port forwarding rule will be added. Click "SAVE & APPLY" to make the rule take effect. Multiple rules can be added.



View the wan port ip, and access the internal port of the connected device or the local device through the wan port ip and external port number.

Access the internal port of the connected device through 192.168.20.132:500.（Note: The computer needs to be in the same local area network as the IP of the wan port before it can be accessed）



3.4 Black/White List

3.4.1 White List

Restrict all non-whitelisted hosts from accessing the external network through the local device. For example, all devices cannot access the Internet, and only a certain computer can be allowed, then this computer can be added to the whitelist.

A.Name: Customize the name.

B.Protocol: All protocols are selected by default, choose according to your needs.

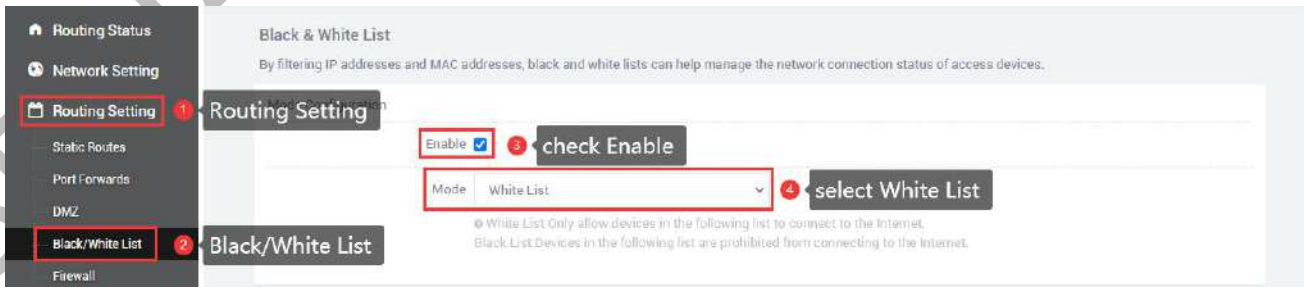
C.Match ICMP type: All types are selected by default, choose according to your needs.

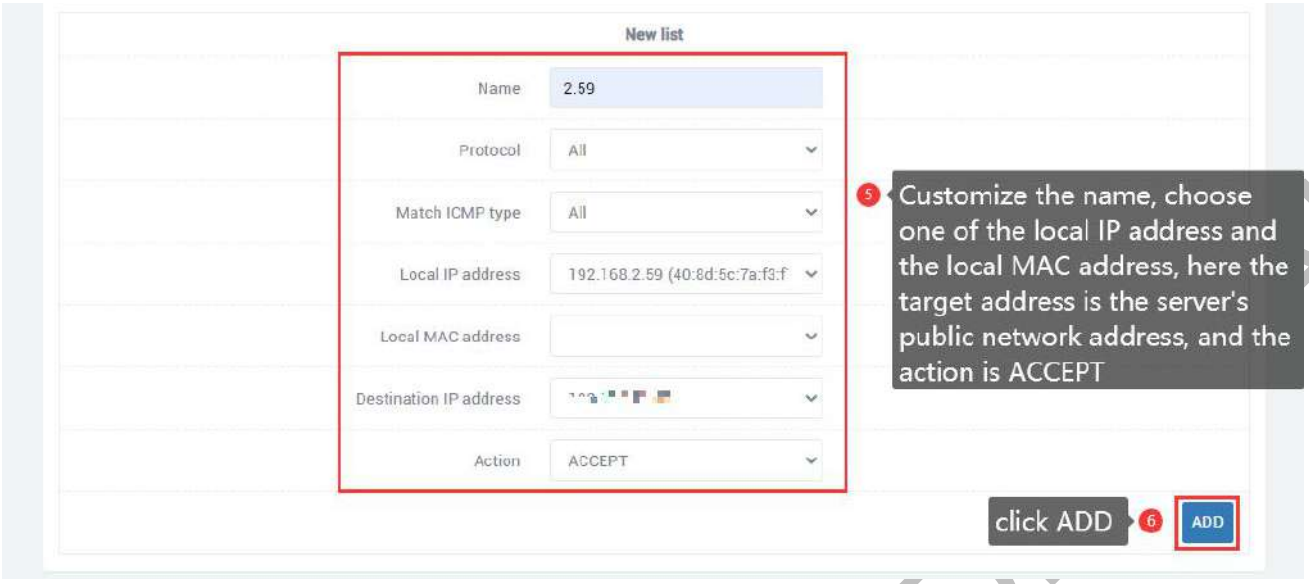
D.Local IP address: The IP address of the device added to the whitelist, the IP address change caused by man-made or other reasons, will change the device that can access the Internet.

E.Local MAC address: The MAC address of the device added to the whitelist will not be invalid even if the device IP address is changed.

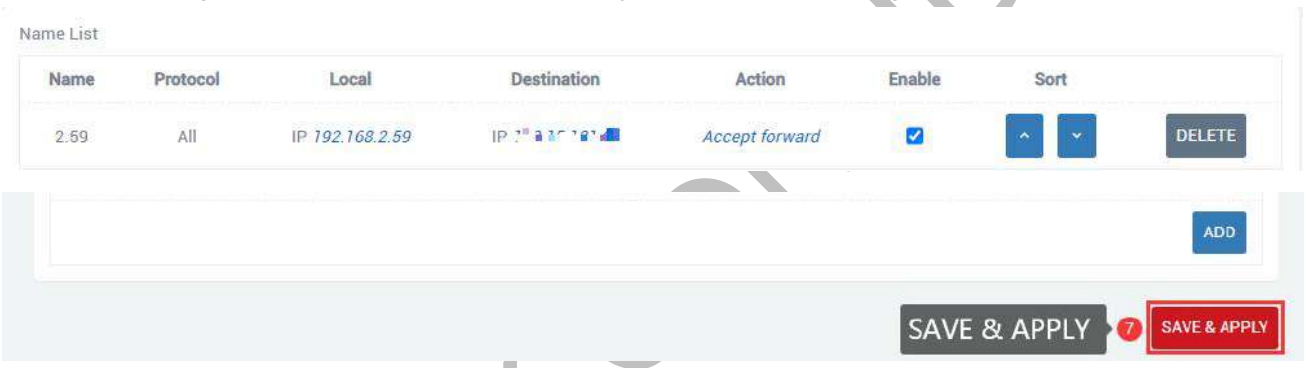
F.Destination IP address: If not selected, it means all networks. You can also enter an IP address, such as the public network server IP.

G.Action: Whitelist mode select ACCEPT.

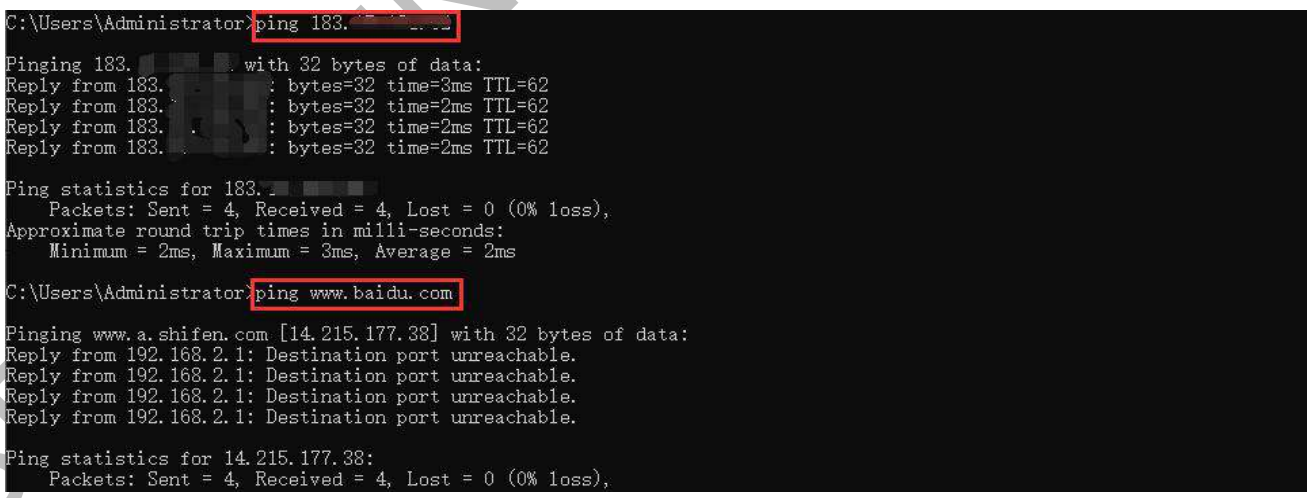




After clicking Add, a rule will be automatically refreshed in the page list, click "SAVE & APPLY".



After adding the whitelist, you can only access the public network address of the server, but cannot access the Internet. At the same time, other computers can neither access the public network address nor the Internet.



If the target address is empty, it means that the devices in the whitelist can access all networks, but other devices cannot. If you want to disable the blacklist and whitelist functions, you just need to uncheck the "SAVE & APPLY" option.

3.4.2 Black List

Restrict the host in the blacklist from accessing the external network through the local device. For example, if a computer is prohibited from accessing the Internet, the computer can be added to the blacklist.

A.Name: Customize the name.

B.Protocol: All protocols are selected by default, choose according to your needs.

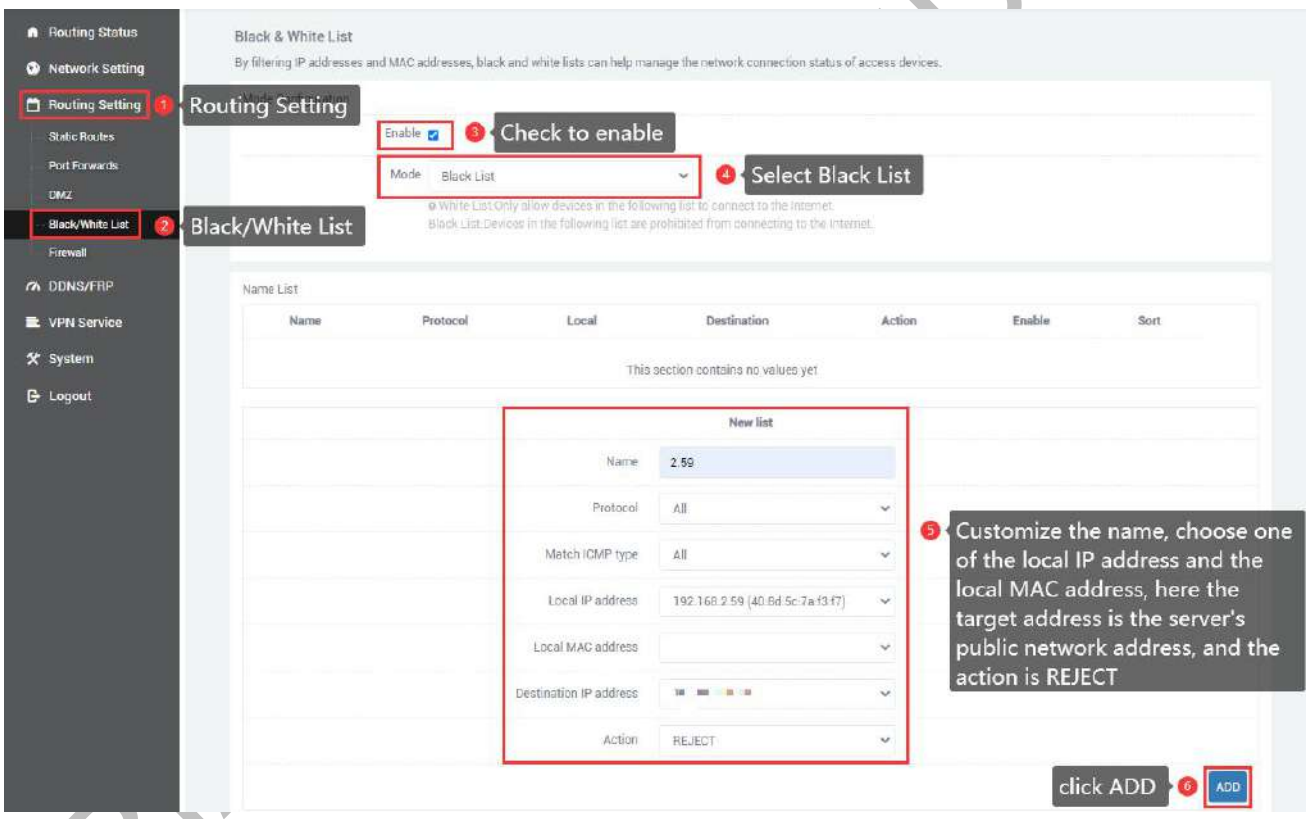
C.Match ICMP type: All types are selected by default, choose according to your needs.

D.Local IP address: The IP address of the device added to the blacklist, the IP address change caused by man-made or other reasons, will change the device that refuses to access the Internet.

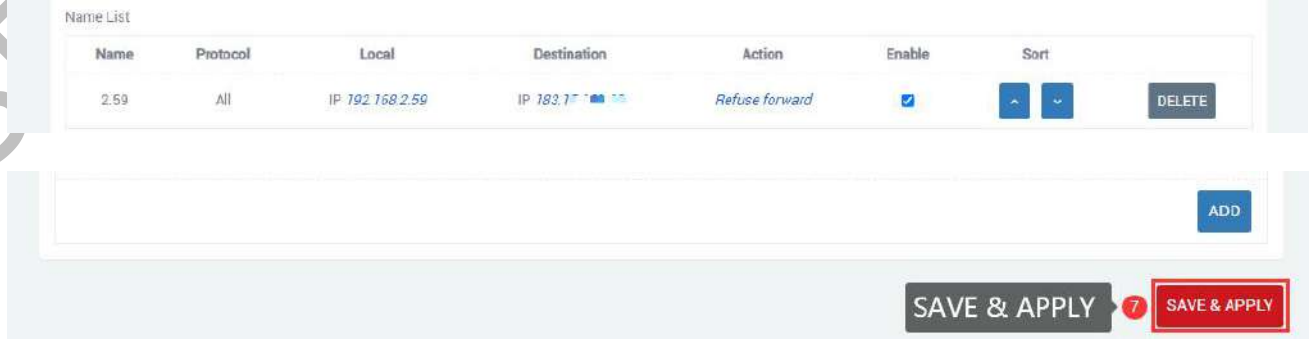
E.Local MAC address:The MAC address of the device added to the blacklist will not be invalid even if the device IP address is changed.

F.Destination IP address:If not selected, it means all networks. You can also enter an IP address, such as the public network server IP.

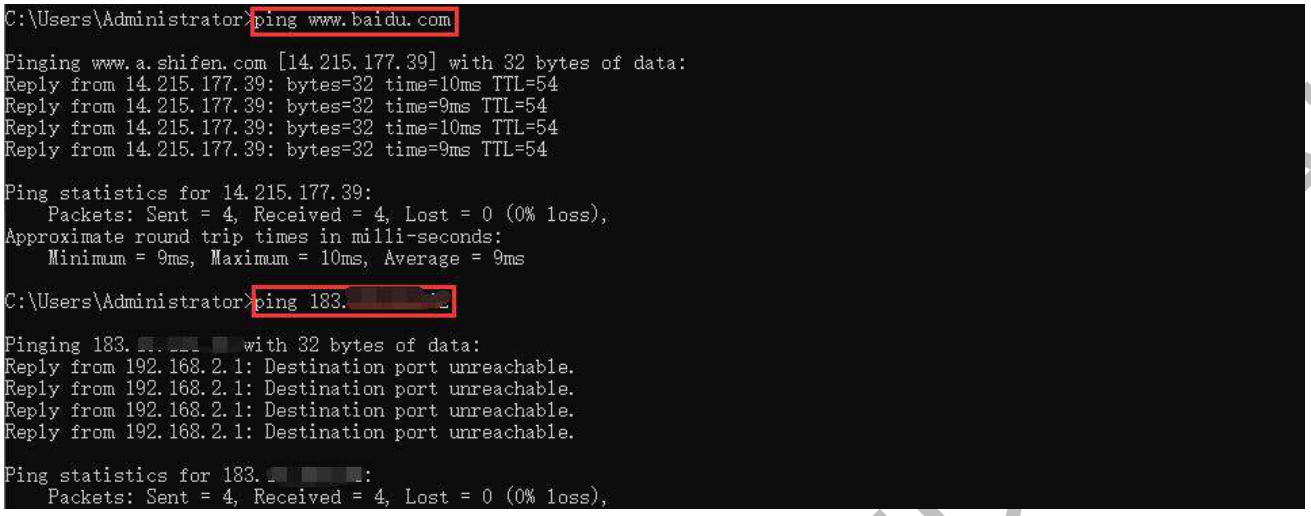
G.Action: Blacklist mode select REJECT.



After clicking Add, a rule will be automatically refreshed in the page list, click "SAVE & APPLY".



After adding the blacklist, you cannot access the public address of the server, only the Internet, and other devices are not restricted.



If the destination address is empty, it means that the devices in the blacklist cannot access all external networks. If you want to disable the blacklist and whitelist function, just uncheck the enabled option, "SAVE & APPLY".

3.5 Frp Client

Frp is to provide http or https services in multiple external network environments by using machines behind the intranet or firewall. For http, https services support domain name-based virtual hosts, and support custom domain name binding, so that multiple domain names share one port 80; Use the machine behind the intranet or firewall to provide tcp and udp services to the external network environment, such as accessing the host in the company's intranet environment through ssh at home.

The main functions of frp: the external network accesses the internal network machine through ssh; the external network accesses the port forwarded by the internal network machine through frp through the public network address plus the port number; custom binding domain name accesses the internal network web service.

The premise of configuring intranet penetration is to ensure that the router can access the Internet. If the router cannot access the Internet, the intranet penetration cannot be performed. Navigation bar "Device Management" - "Diagnosis"; and disable the firewall, navigation bar "Routing Setting" - "Firewall".

If you can ping 8.8.8.8, it means that the device can access the Internet. For details, see Chapter 2.9.

Disable the firewall. After choosing to disable the firewall, click "SAVE & APPLY".

3.5.1 Connect to Frps

Preparation before configuration:

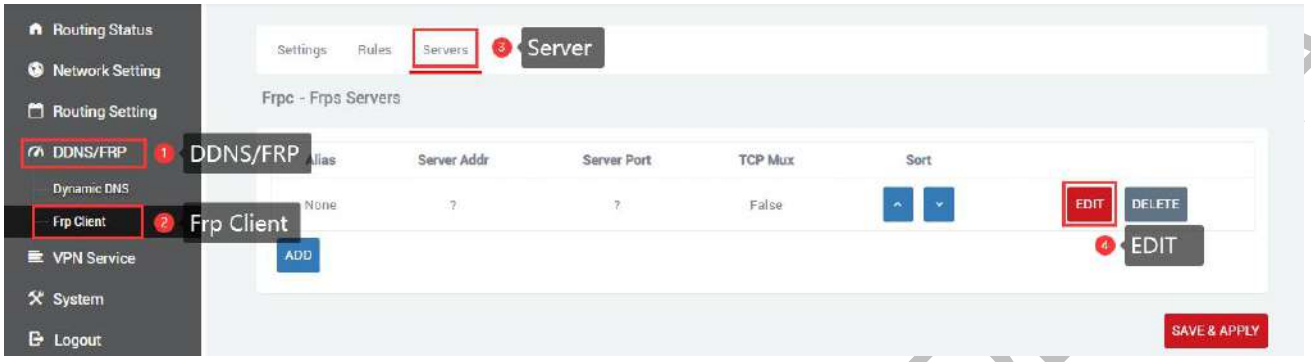
(1)One public network server.

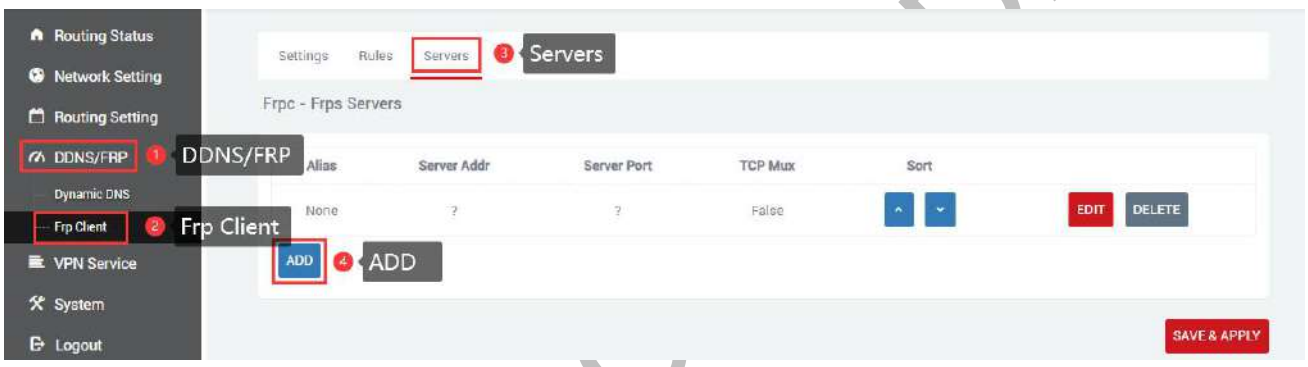
(2)One router (a router that supports frp, that is, 1 intranet server).

(3)One domain name is bound to the public network server.

The frp client configuration is as follows:

(1)The client needs to add the configuration of the server first to connect to the server, the navigation bar "DDNS/FRP" - "Frp Client", select "Servers",There is an empty server by default, you can directly click to modify it, or you can directly delete it and add one yourself.





(2)After clicking "ADD" or "EDIT", a page for editing the frps server will pop up, configure it according to the settings of the server, and click "SAVE & APPLY" after the configuration is complete.

A.Alias: To customize the name of a server, you can define a meaningful name.

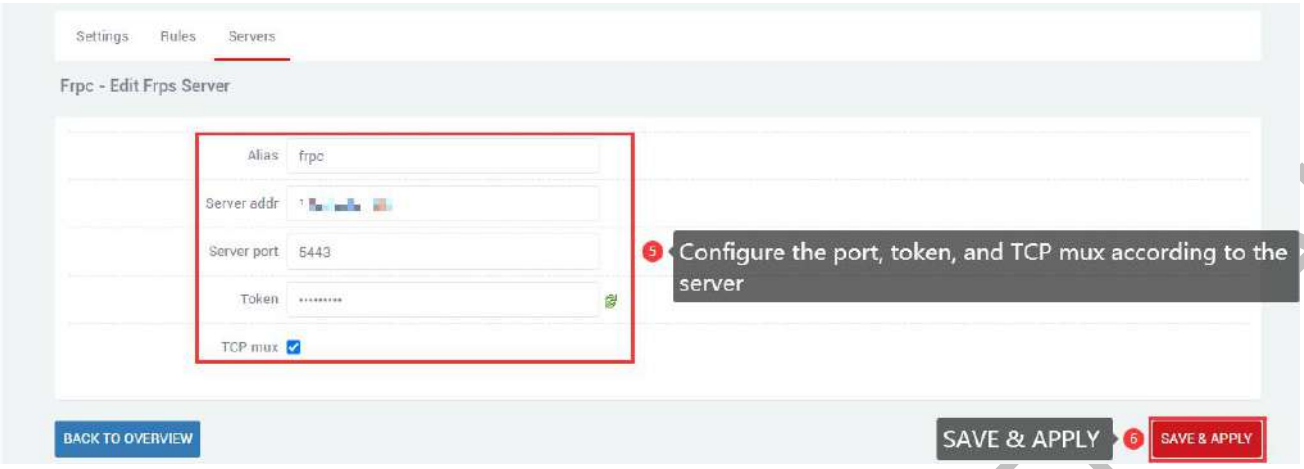
B.Server addr: The address of the server (usually the public IP address).

C.Server port: The port set by the server.

D.Token: The password set by the server.

E.TCP mux : View and view are consistent with the server side. If the server side TCP mux is true, you need to choose here, if not, you don't need to choose.

F.Click "SAVE & APPLY" after the setting is complete.



(3)After the addition is successful, there will be an additional frp server, click "SAVE & APPLY" to start the server.

(4)Next, go to the "Settings" page of "Frp Client", start the frpc client, and configure as shown below. After the configuration is complete, click "SAVE & APPLY". After the configuration is complete, "Running" will appear on the "Common Settings" page,prove that the frp client has been started.

A.Enable: Tick Enabled.

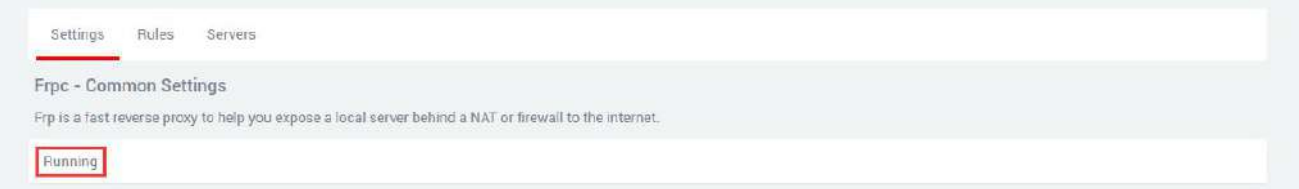
B.Server: The server alias you just customized.

C.Run daemon as user: Generally choose the default, you can modify it according to your needs.

D:Enable logging: Tick as required.

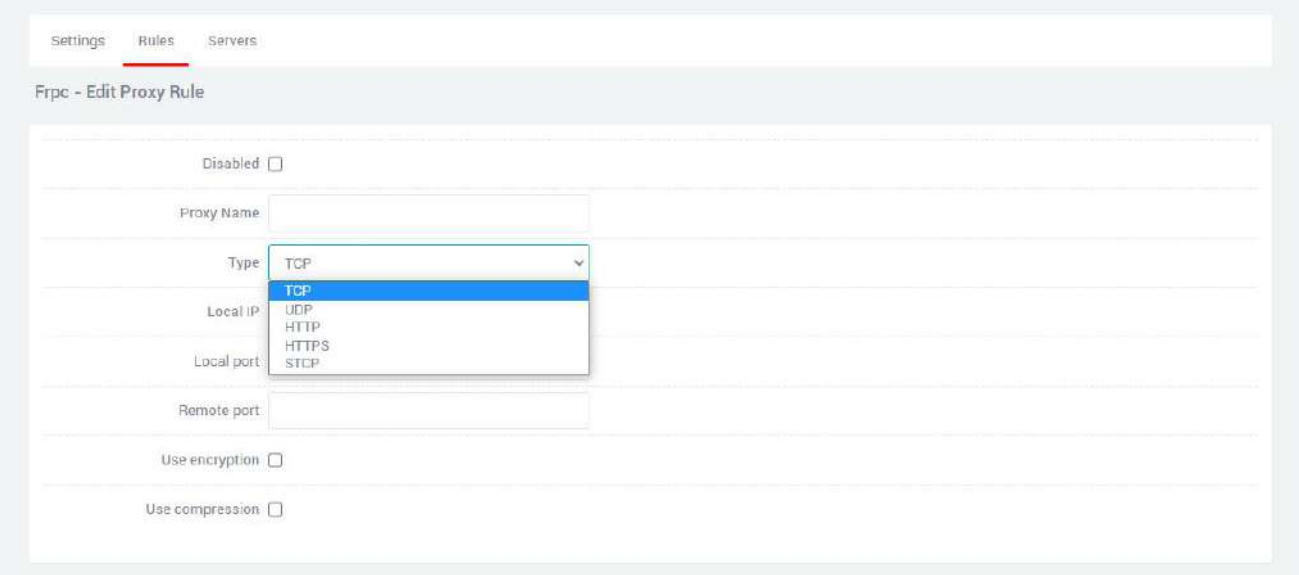
E:After the configuration is complete, click "SAVE & APPLY".

Displaying that the service is running indicates that the frp client has been successfully started.



(5)Next, go to the "Rules" page of "Frp Client", click "ADD", there is a rule by default, if you don't need this rule, you can delete this rule, keep it if you need it, and add a new rule directly.

（6）After adding, an "Edit Proxy Rule" page will pop up, there will be different protocol types, and the functions implemented by different protocol types are different.



3.5.2 Add TCP proxy protocol

The TCP protocol supports ssh connection, and also supports forwarding the page port（usually port 80）Through the public network, the remote port can access the page of the local device.

On the "Edit Proxy Rule" page, configure according to the requirements as shown in the figure below. After the configuration is completed, click "SAVE & APPLY", and you will return to the "Proxy Rules" page, and there will be an additional rule on the page,click "SAVE & APPLY" again to make the rule take effect. Finally, you can access the local port opened by the local device through the public network ip: port number（format: 106.107.108.109:5555, where 106.107.108.109 is the public network address）. You can add multiple tcp rules, just make sure that the remote ports are not the same. If the remote ports are the same as the previous ones, the latest ones will overwrite the previous ones, and the previous rules will not take effect.

A.Disabled: If checked, it means to disable this rule.

B.Proxy Name: Customize a proxy name. The proxy name cannot be repeated, otherwise it will not take effect due to name conflict.

C.Type: Select the TCP protocol.

D:Local IP: Fill in the ip of the local machine or the ip allocated by the lan port of the local machine for the connected device.（The ip address of the device that needs to be accessed through the public network）.

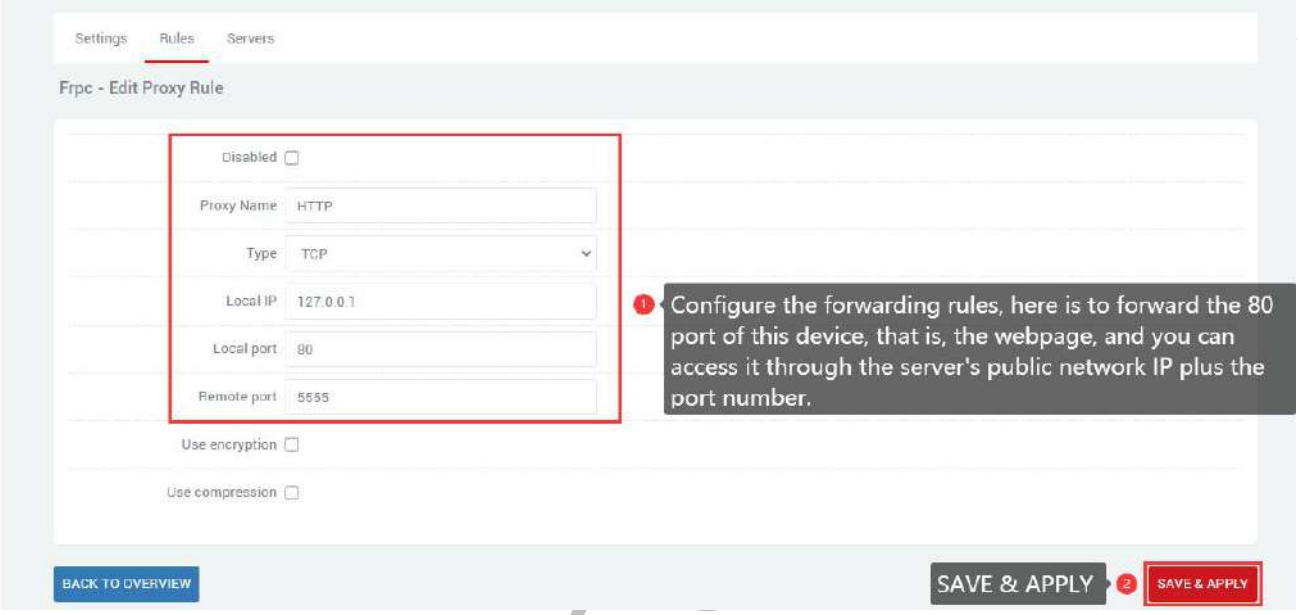
E.Local port: The selected device needs to be forwarded to the port of the public network.

F.Remote port: Add this remote port to the public network address to access the local port opened by the corresponding local device. This port number should not be the same as other rules, and do not use the occupied port, otherwise this rule will not take effect.

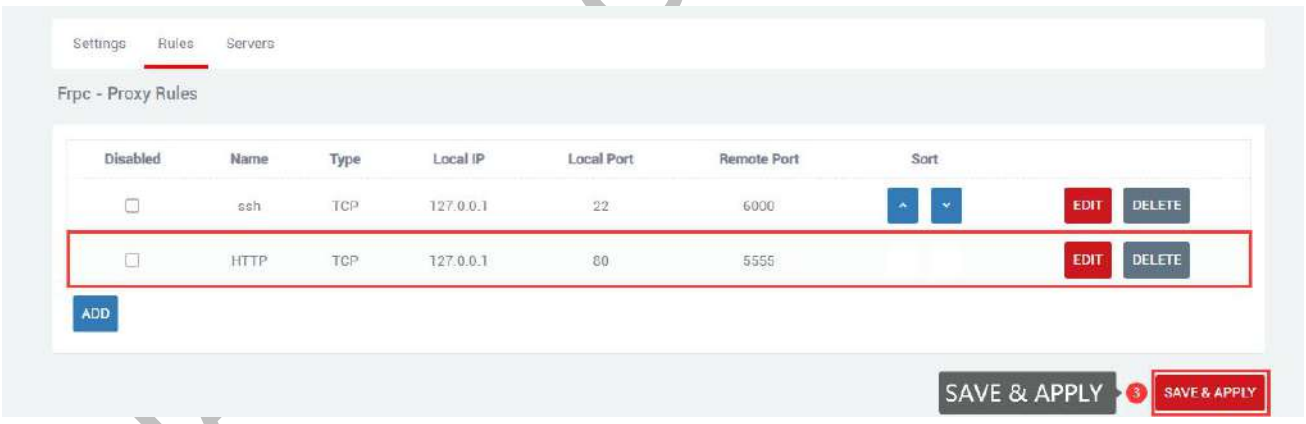
G.Use encryption, Use compression: Check these two as needed.

Multiple rules can be added, as long as the remote port numbers do not conflict.

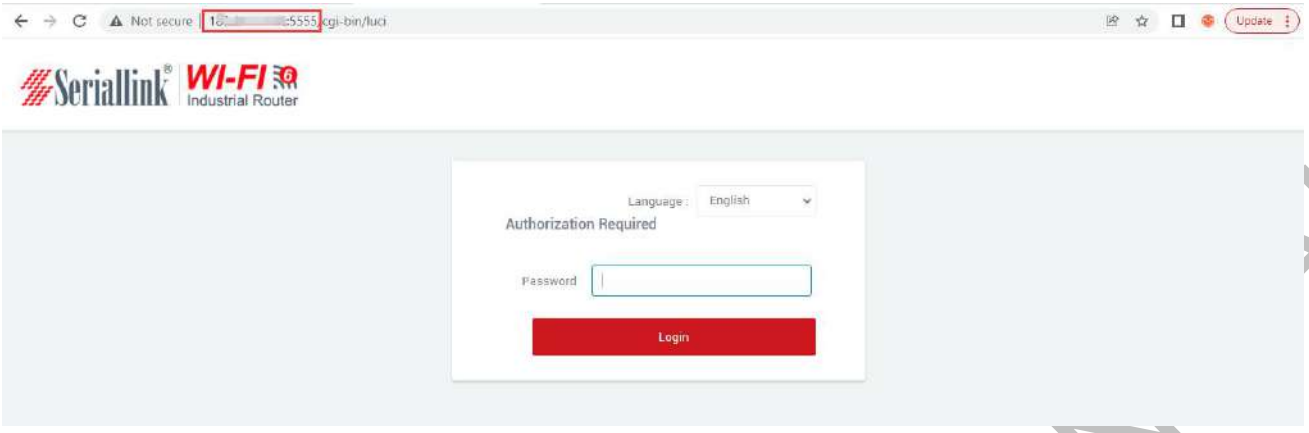
After the configuration is complete, click "SAVE & APPLY".



After generating a new rule, you need to click "SAVE & APPLY" to make the rule take effect.



Access the local port of the local device through the public network ip and port number, and 106.107.108.109:5555 to access 192.168.2.1 (default port 80).



Multiple tcp rules can be added. It is necessary to ensure that the remote port number and proxy alias are not repeated with those previously set. If they are repeated, the rule may not take effect even if it exists.

3.5.3 Add STCP Proxy Rules

(1)STCP needs to configure the client and the access terminal, of which 192.168.2.111 (the device connected to the lan port) is used as the client, and the PC is used as the access terminal. The access terminal can access the client by binding the local IP and port.

A.Disabled: Checking here will disable this rule.

B.Proxy Name: Customize a proxy name, which cannot be the same as other rules, otherwise it will not take effect due to conflict.

C.Type: Select the STCP protocol.

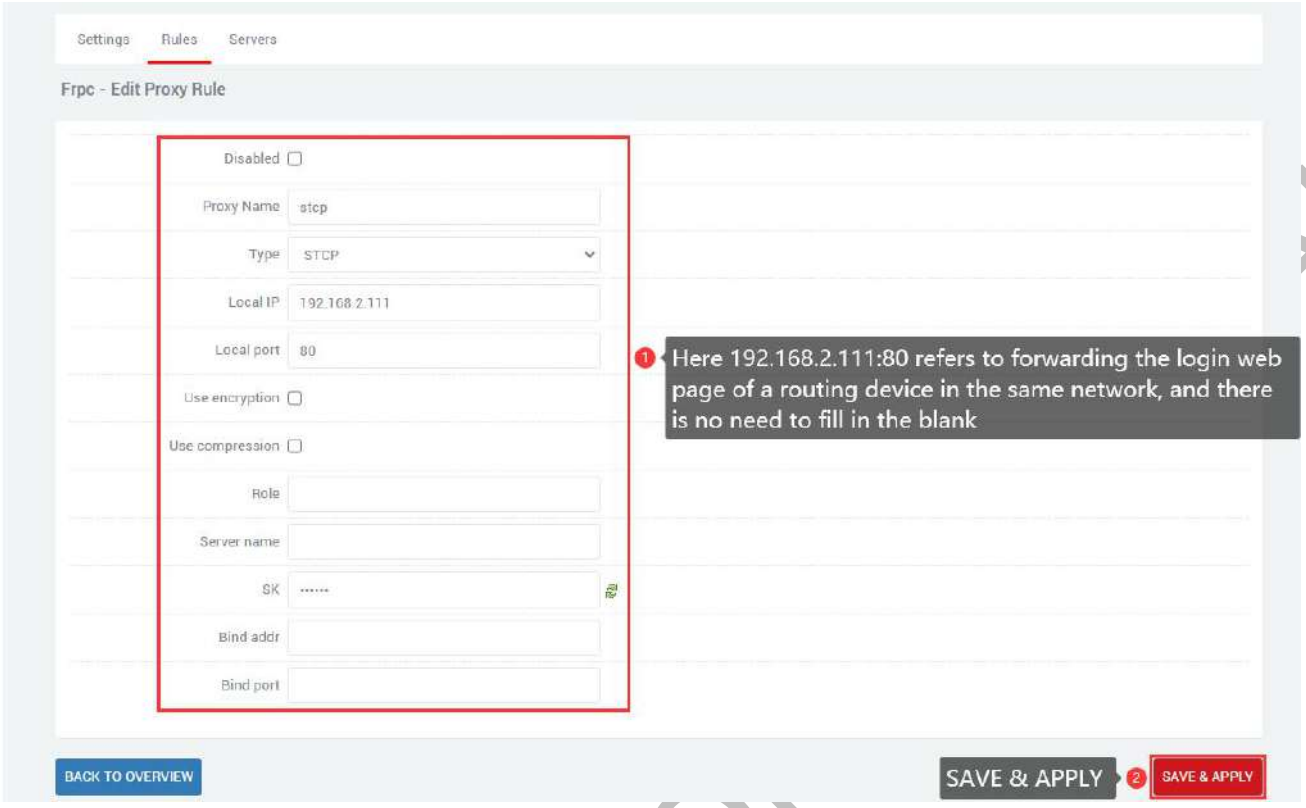
D.Local IP: The IP address assigned by the local device or the lan port to the connected device.

E.Local port: The device needs to open a port to the public network.

F.SK: Set a password, the access terminal needs to enter the SK set here when accessing the device.

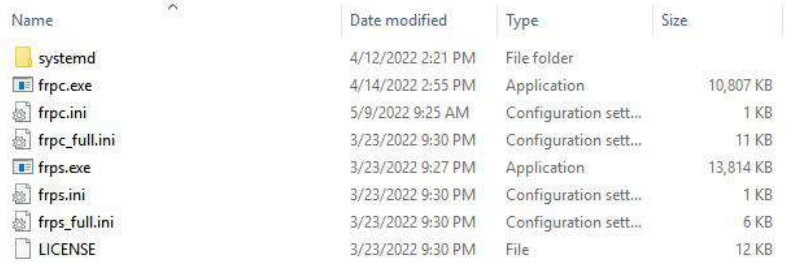
G.Use encryption,Use compression: Configure as needed.

H.Role,Server name,Bind addr,Bind port:These four as clients do not need to be set.

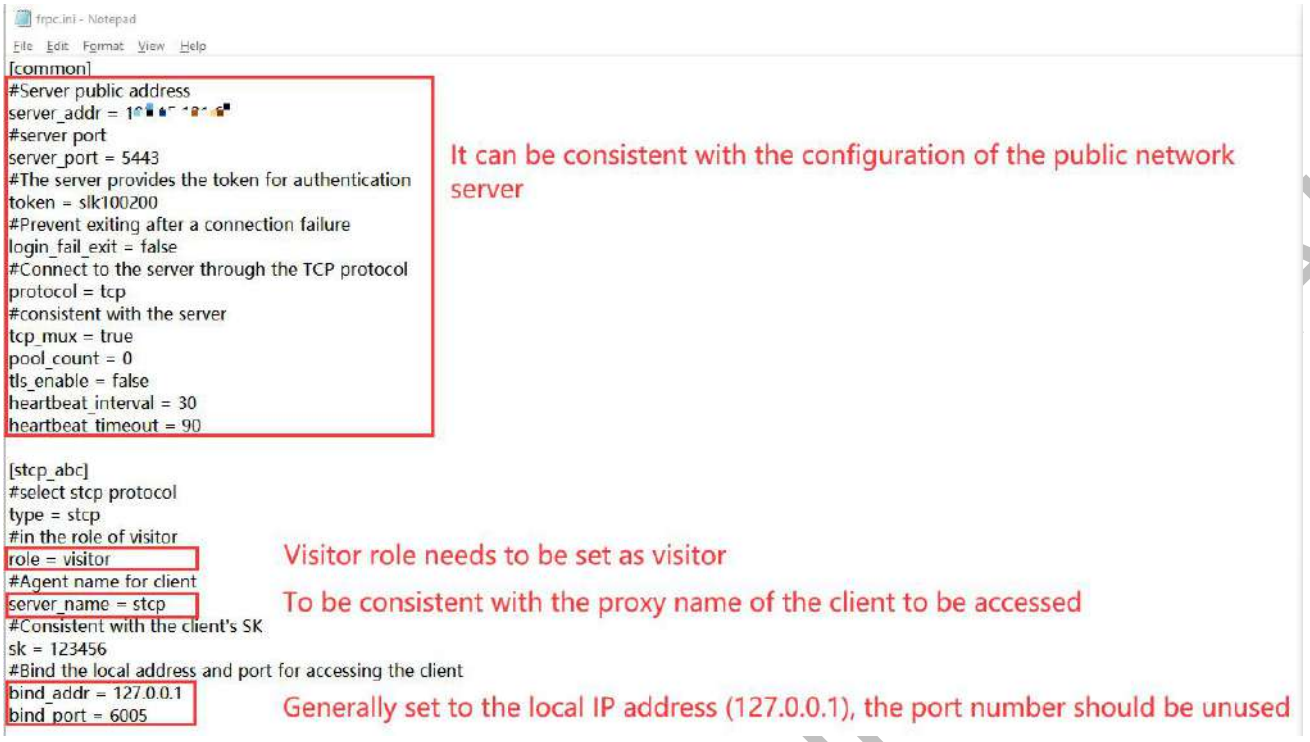


After generating a new rule, you need to click "SAVE & APPLY" to make the rule take effect.

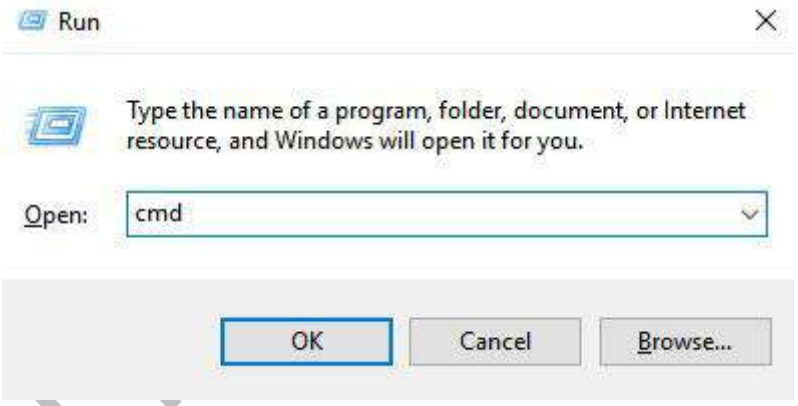
If the PC wants to access the connected device of the router as the access end, it needs to be a client of frp, and it is also the stcp protocol, but it needs to set the visitor role and bind the local address and port. The frp file for Windows can be downloaded from the company's official website. After downloading, open the frpc.ini configuration file for configuration.

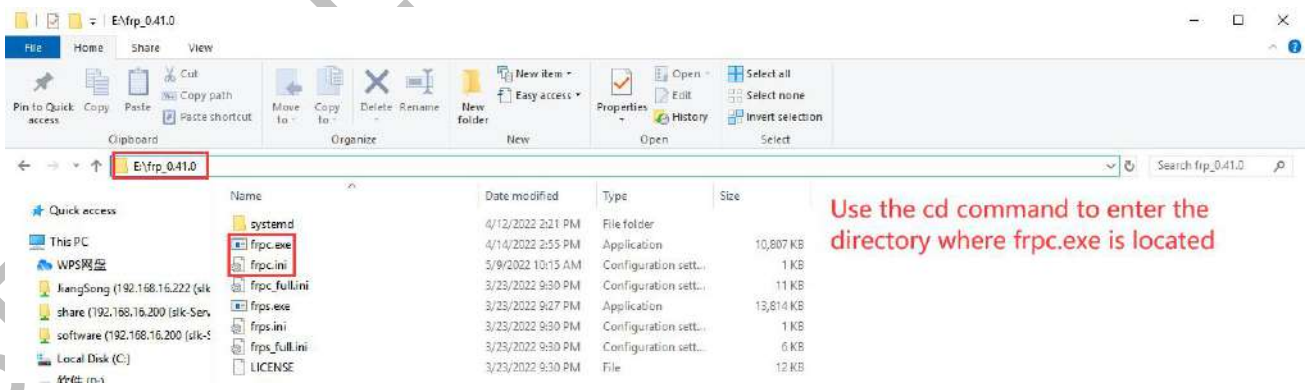


Name	Date modified	Type	Size
systemd	4/12/2022 2:21 PM	File folder	
frpc.exe	4/14/2022 2:55 PM	Application	10,807 KB
frpc.ini	5/9/2022 9:25 AM	Configuration sett...	1 KB
frpc_full.ini	3/23/2022 9:30 PM	Configuration sett...	11 KB
frps.exe	3/23/2022 9:27 PM	Application	13,814 KB
frps.ini	3/23/2022 9:30 PM	Configuration sett...	1 KB
frps_full.ini	3/23/2022 9:30 PM	Configuration sett...	6 KB
LICENSE	3/23/2022 9:30 PM	File	12 KB

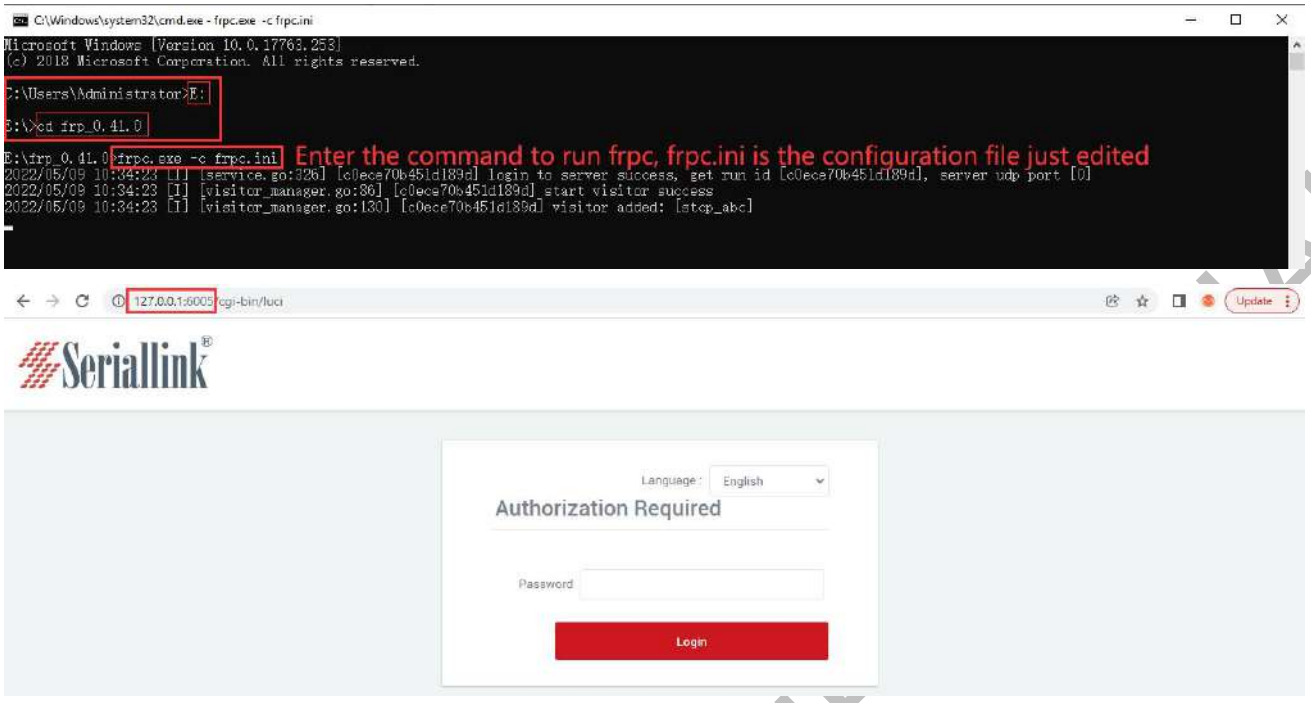


Use the shortcut key "win+R" to quickly open the cmd command window.





First enter "E:" to enter the disk where frpc.exe is located, then use "cd+file path" to enter the folder where frpc.exe is located, and use the command "frpc.exe -c frpc.ini" to run the client.



(2)If there are two routers, and one router needs to remotely access the other router or the connected device of the other router, one is the stcp access terminal, and the other is the stcp client.

The configuration is as follows:

① Configure the client (first router,IP:192.1682.1)

A.Disabled: Checking here will disable this rule.

B.Proxy Name: Customize a proxy name, which cannot be the same as other rules, otherwise it will not take effect due to conflict.

C.Type: Select the STCP protocol.

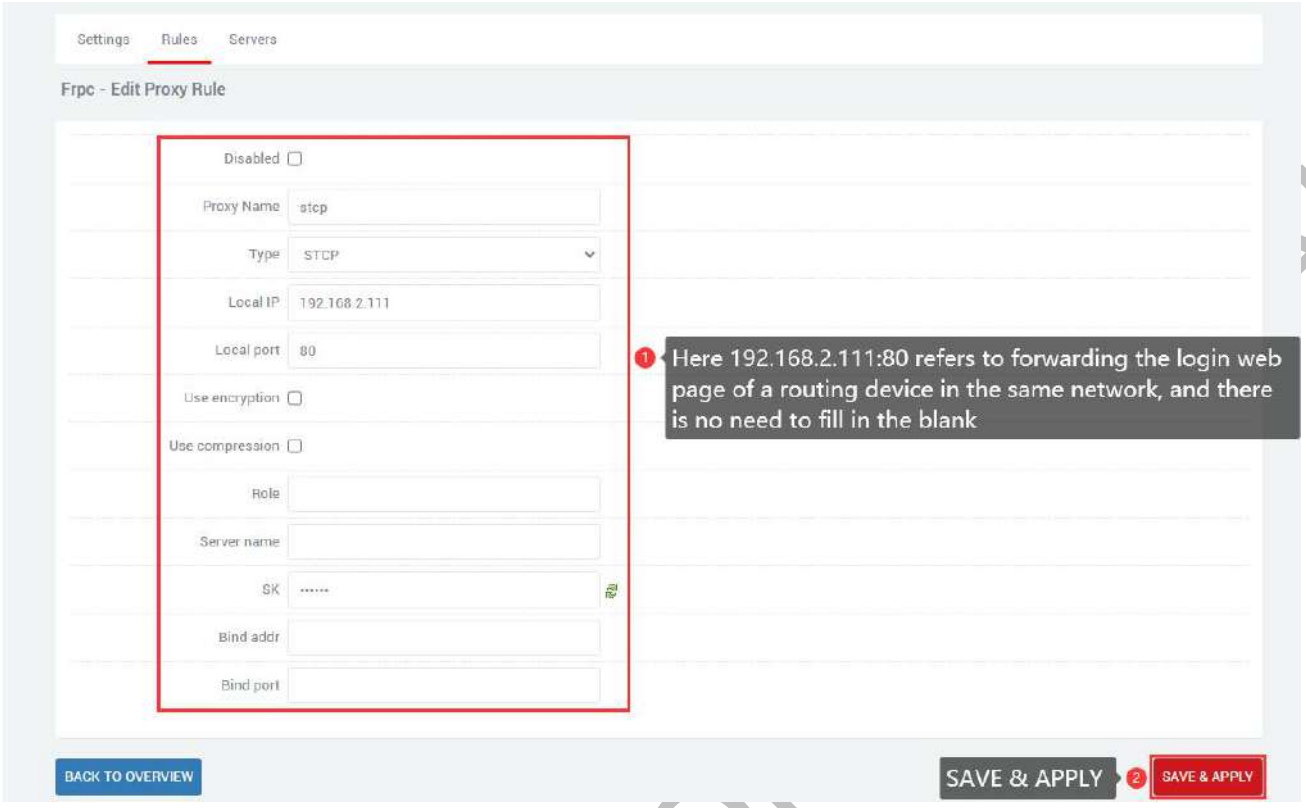
D.Local IP: The IP address assigned by the local device or the lan port to the connected device.

E.Local port: The device needs to open a port to the public network.

F.SK: Set a password, the access terminal needs to enter the SK set here when accessing the device.

G.Use encryption,Use compression: Configure as needed.

H.Role,Server name,Bind addr,Bind port:These four as clients do not need to be set.



After generating a new rule, you need to click "SAVE & APPLY" to make the rule take effect.

② Configuring the Access Side （Second Router,IP:192.168.2.2）

A.You need to connect to the frp server first. For details, please refer to chapter 2.5.1

B.Disabled: If checked here, this rule will be disabled.

C.Proxy Name: Customize a proxy name, which cannot be the same as other rules, otherwise it will not take effect due to conflict.

D.Type: Select the STCP protocol.

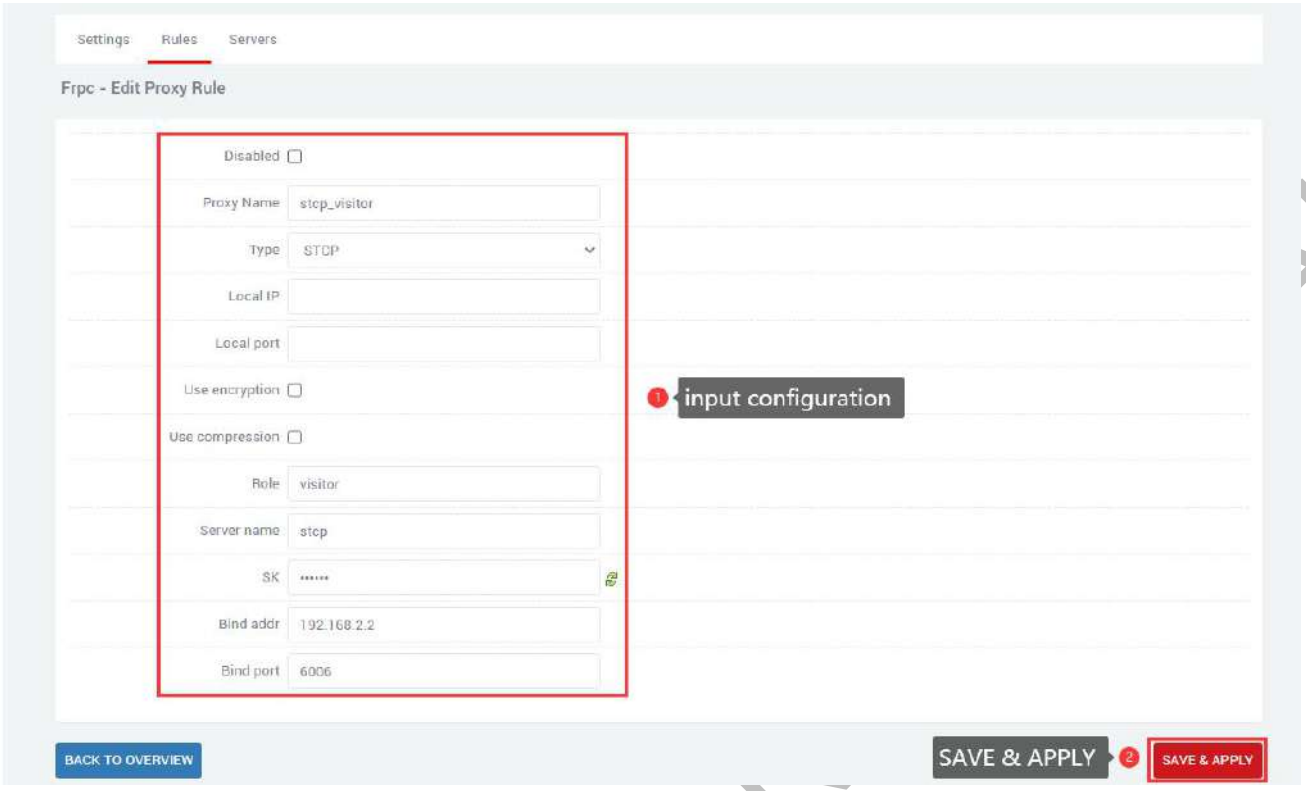
E.Local IP,Local port: These two access terminals can be left blank.

F.SK:Set a password, the access terminal needs to enter the SK set here when accessing the device. Use encryption,Use compression: Configure as needed.

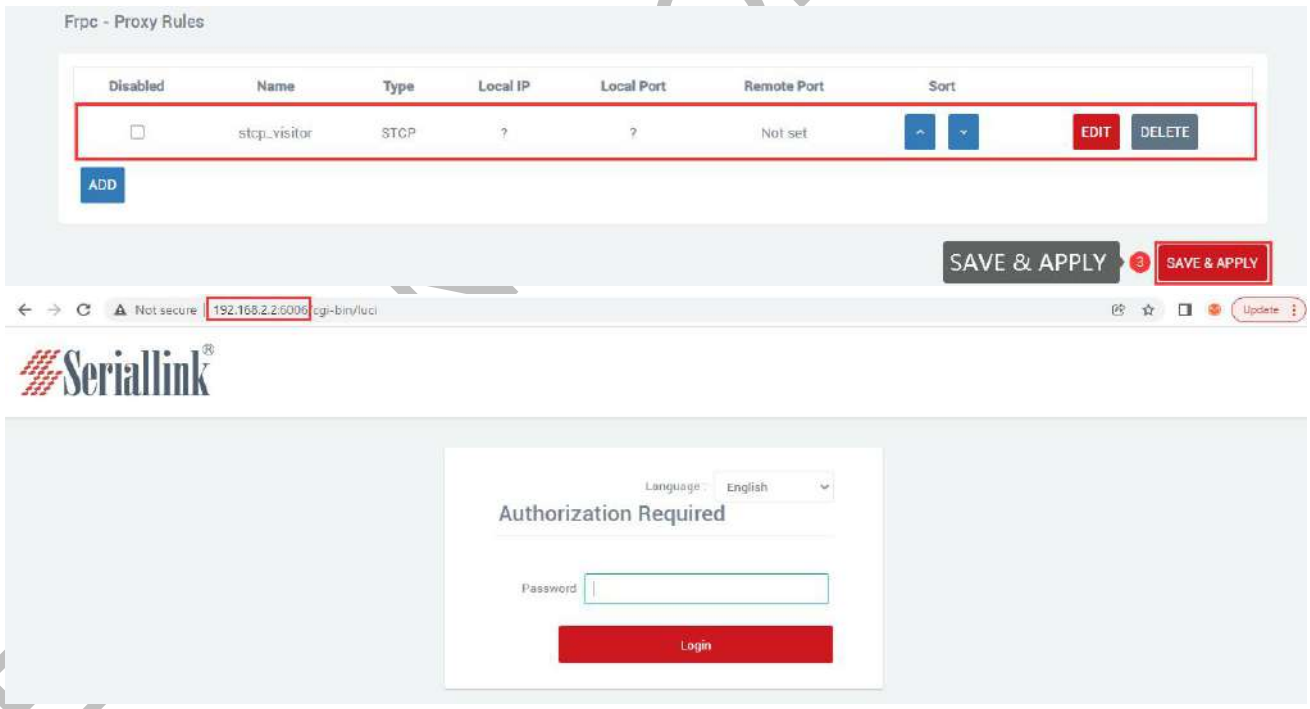
G.Role: The access terminal needs to fill in the visitor.

H.Server name: The stcp proxy name set by the first router client.

I.Bind addr,Bind port: The client can be accessed by binding the address and port. The address and port are the local machine or the connected device of the local machine.



After generating a new rule, you need to click "SAVE & APPLY" to make the rule take effect.



3.5.4 Add UDP Proxy Rules

The UDP protocol is used to transmit a large amount of data. The port of the connected device needs to support the udp protocol. If the port that supports the udp protocol is opened to the public network, data transmission can be performed through the public network and the remote port number. Multiple udp protocol rules can be configured.

A.Disabled: Checking here means to disable this rule.

B.Proxy Name: Customize a proxy name. The proxy name cannot be repeated, otherwise the rule will not take effect due to conflict.

C. Type: Select the UDP protocol.

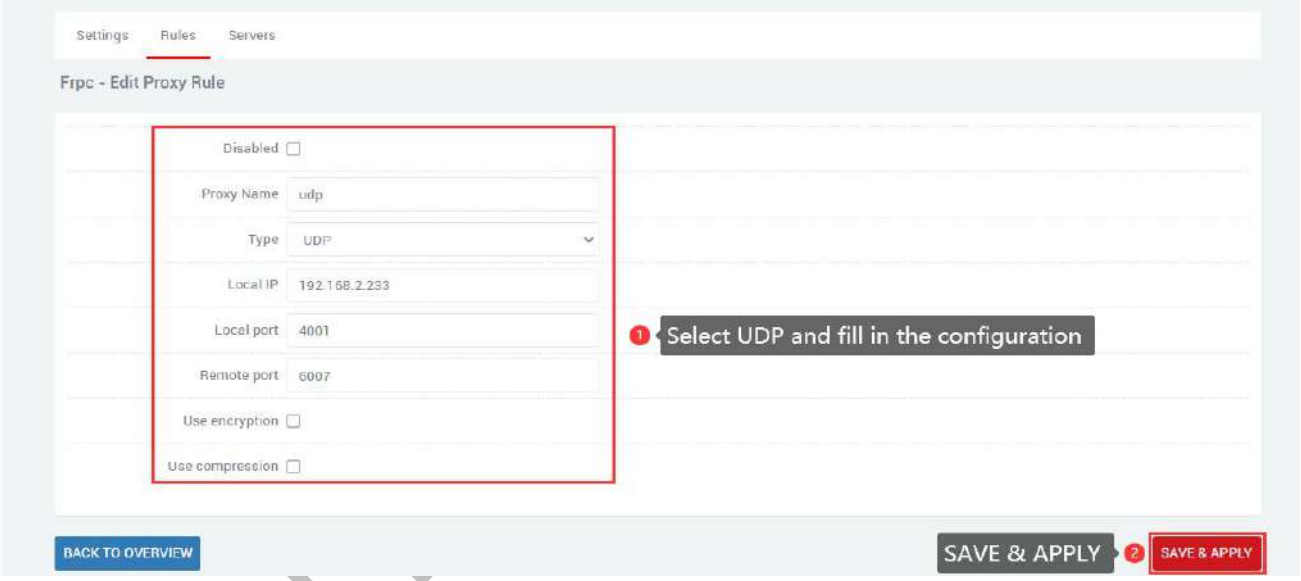
D.Local IP: Fill in the ip of the machine or the ip assigned by the lan port of the machine for the connected device (the ip address of the device that needs to be accessed through the public network).

E.Local port: The device needs to be forwarded to the port of the public network, which must be the port using the UDP protocol.

F.Remote port: Add this remote port to the public network address to access the local port opened by the corresponding local device. This port number should not be the same as other rules, and do not use the occupied port, otherwise this rule will not take effect.

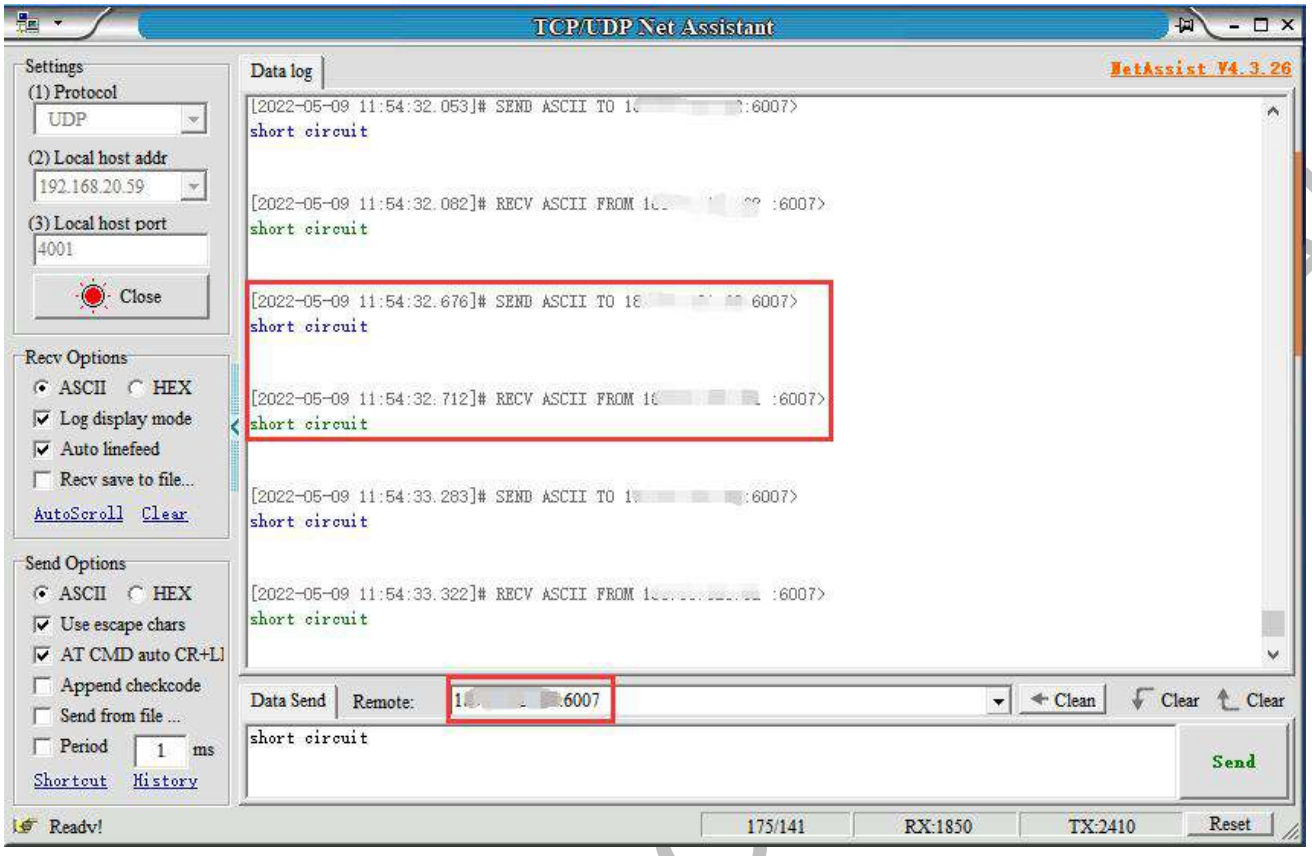
G.Use encryption, Use compression: Check these two as needed.

H.Multiple rules can be added, the remote port and proxy name should not conflict, and click "SAVE & APPLY" after the configuration is complete.



After generating a new rule, you need to click "SAVE & APPLY" to make the rule take effect.

Through the UDP protocol, use the public network address and remote port number to access the device forwarded to the public network (111.111.111.111:6007 accesses 192.168.2.233:4001).



3.5.5 Add HTTP Proxy Rules

For http and https services, domain name-based virtual hosts are supported, and custom domain name binding is supported, so that multiple domain names can share a port 80 and access intranet web pages through the custom domain name. Multiple http rules can be configured, which can be accessed directly through a custom domain name. After the configuration is complete, you can access the corresponding web page through the custom domain name plus the http penetration port (ie vhost_http_port) provided by the server.

A. Disabled: Checking here means to disable this rule.

B. Proxy Name: Customize an agent name. The agent name cannot be repeated, otherwise the rule will not take effect due to conflict.

C. Type: Select the HTTP protocol.

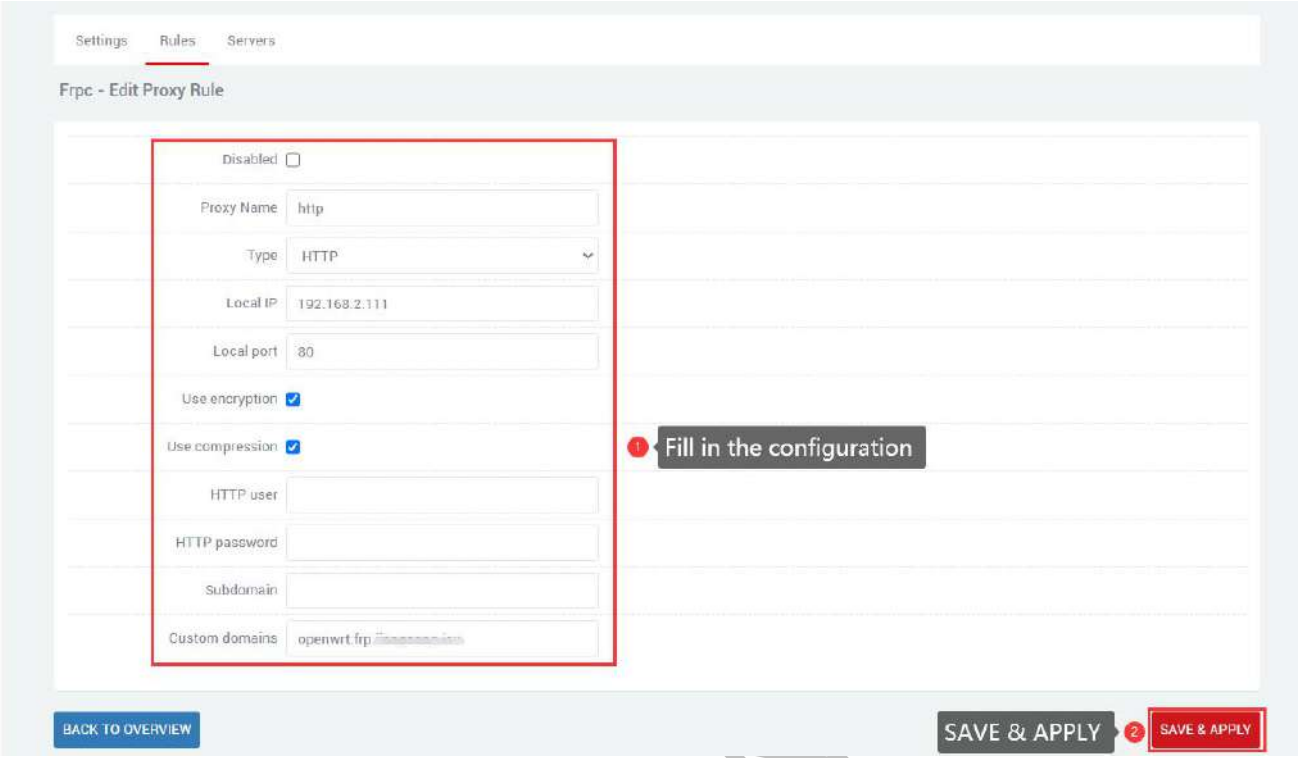
D. Local IP: Fill in the ip of the machine or the ip assigned by the lan port of the machine for the connected device (the ip address of the device that needs to be accessed through the public network).

E. Local port: The device needs to be forwarded to the port of the public network, and this port must be the port number of the internal page.

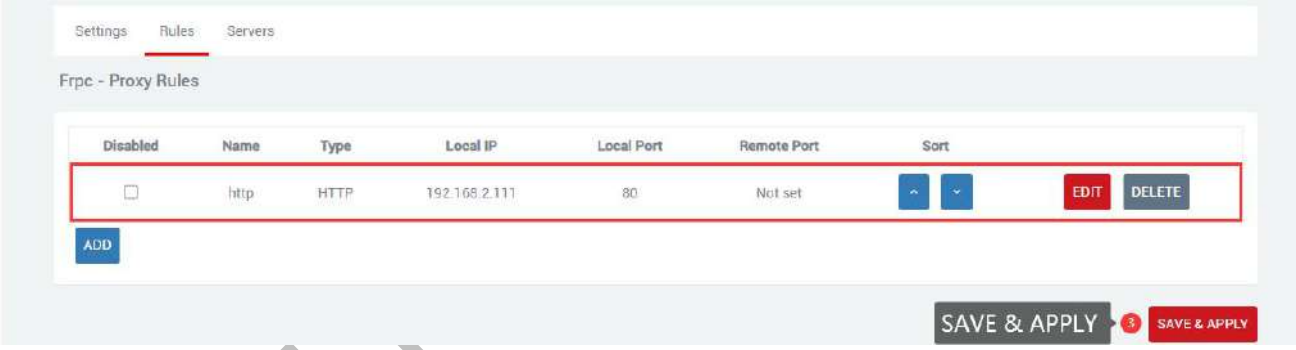
F. Use encryption,Use compression,HTTP user,HTTP password: These four are selected as needed.

G. Subdomain: Write it if you have it, or leave it out if you don't have it.

H. Custom domains: xxx. The domain name bound to the public network, xxx is defined by itself, but the latter must be the domain name bound to the public network.

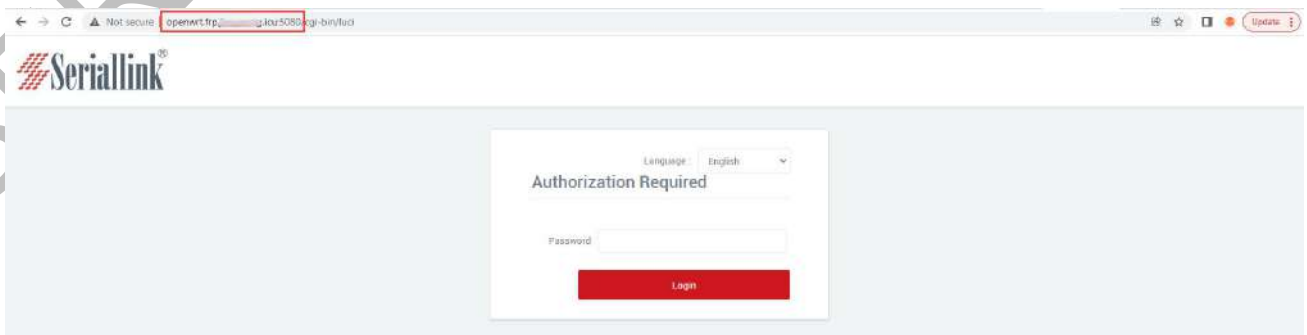


After generating a new rule, you need to click "SAVE & APPLY" to make the rule take effect.



The browser can log in to openwrt.frp.****.***:5080 to enter the client routing management page. Among them, openwrt is a custom part, and you need to add a record on the domain name application website to resolve the subdomain name;frp.****.*** is the value of subdomain_host of the frpc server; port 5080 is the intranet penetration port provided by the server, and the value of vhost_http_port;

You can configure multiple http rules in this way, and the custom domain name does not need to be the same.



Chapter 4 VPN Service

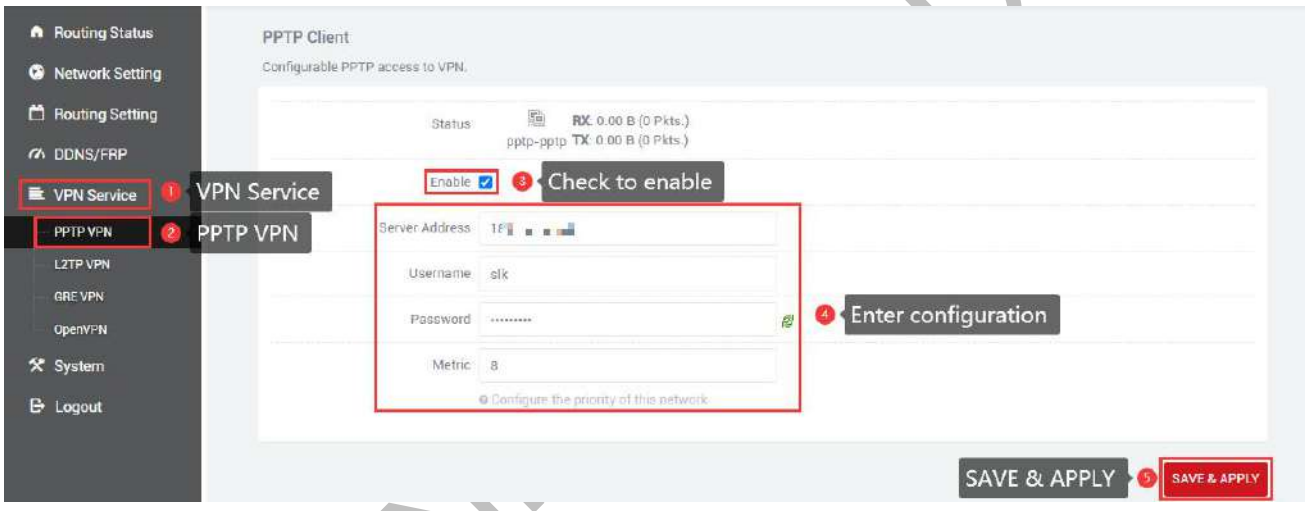
4.1 PPTP VPN

Navigation bar "VPN Service" - "PPTP VPN", select Enable, fill in the server address, fill in the user name and password according to the server settings, click "SAVE & APPLY".

A.Enable: To use PPTP VPN, you need to check it, and you can just uncheck it when you don't use it.

B.Server Address: The server IP address, usually the public IP.

C.Username,Password: Fill in the username and password set by the server.



After the connection is successful, the address assigned by the server will appear in the status bar. If pptp is not used, uncheck it and click "SAVE & APPLY".

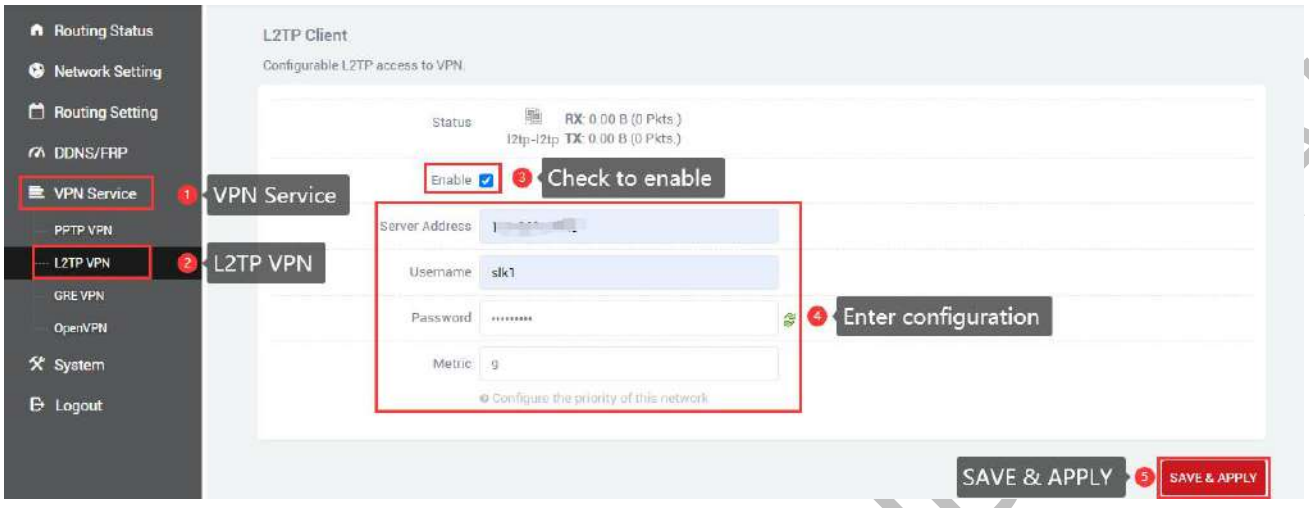
4.2 L2TP VPN

Navigation bar "VPN Service" - "L2TP VPN", select Enable, fill in the user name and password according to the server settings, click "SAVE & APPLY".

A.Enable: To use L2TP VPN, you need to check it, and you can just uncheck it when you don't use it.

B.Server Address: The server IP address, usually the public IP.

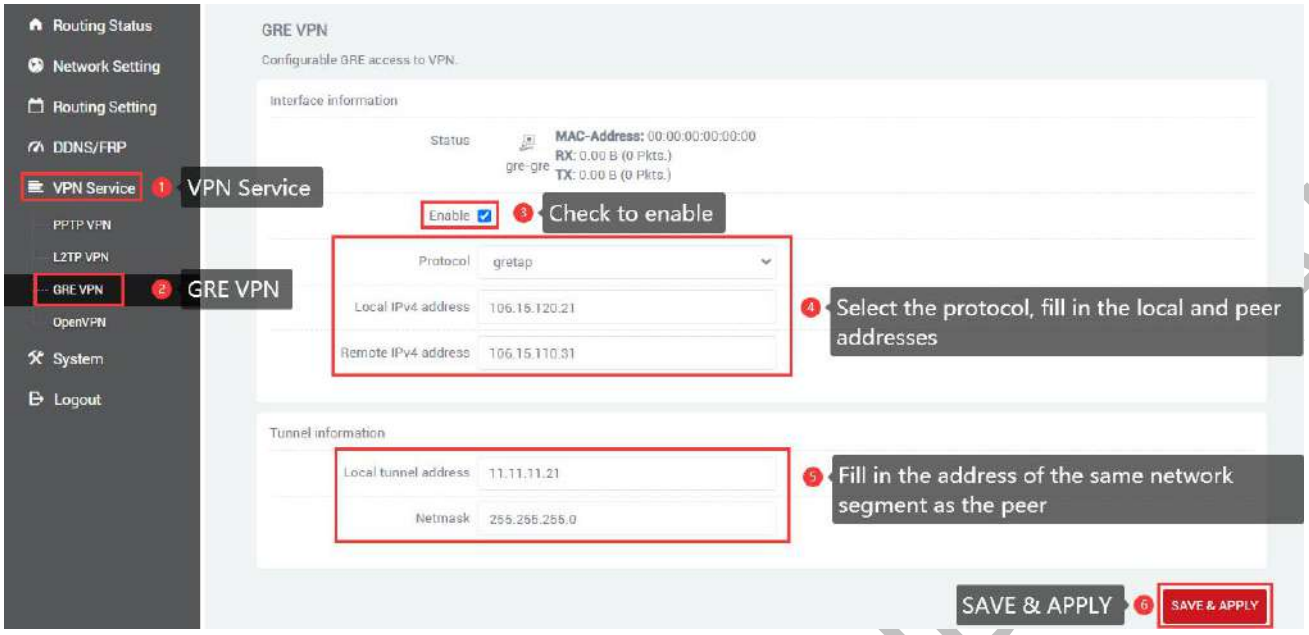
C.Username,Password: Enter the username and password set by the server.



After the connection is successful, the address assigned by the server will appear in the status bar. If l2tp is not used, uncheck it and click "SAVE & APPLY".

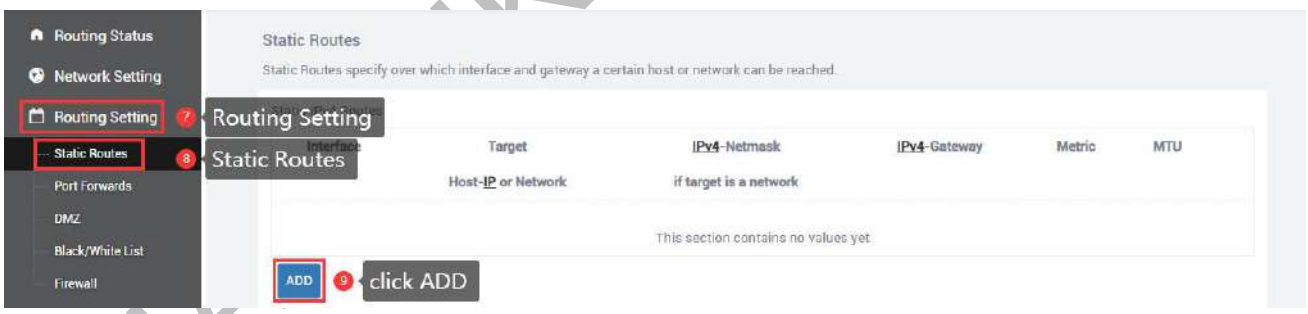
4.3 GRE VPN

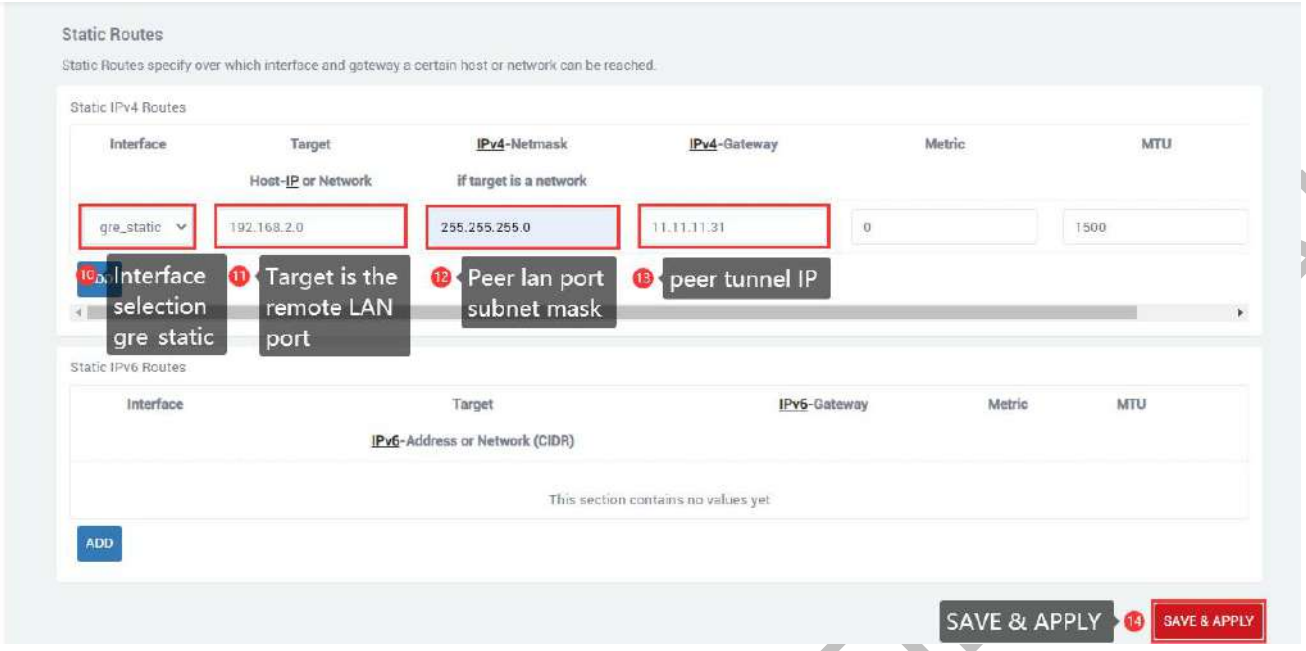
Navigation bar "VPN Service" - "GRE VPN", select Enable, select gretap or gre according to the protocol of the opposite end (keep the protocol at both ends the same). The local IPv4 address and remote IPv4 address are filled in according to the local wan port (public network) address and the peer wan port (public network) address, and the local tunnel address and the peer tunnel address are in the same network segment.



Refresh status information after "SAVE & APPLY".

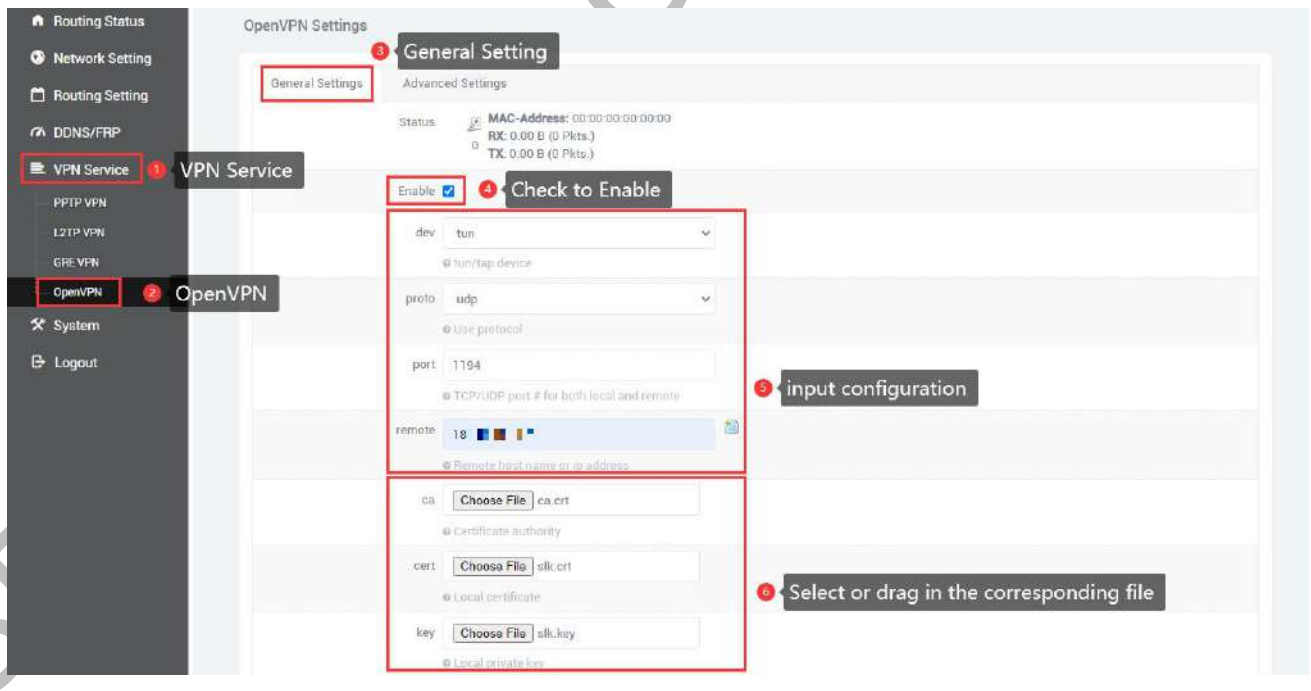
Then add routing table rules, you can successfully access the peer Lan port device.



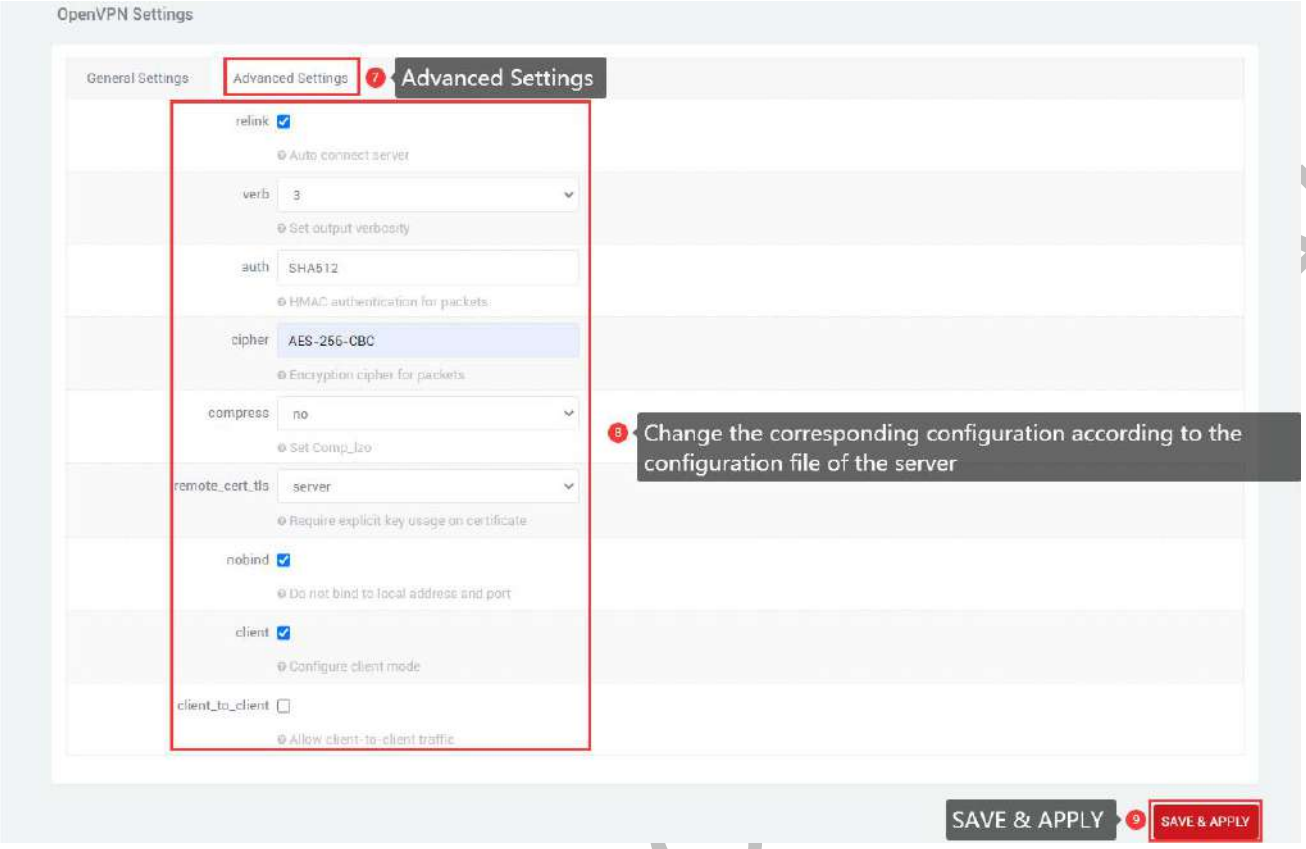


4.4 OpenVPN

Navigation bar "Virtual Private Network" - "OpenVPN", click "SAVE & APPLY" after all configurations are consistent with the server, the three certificates are provided by the server.



The advanced settings page is modified according to the server. If relink is checked, it means that openvpn can automatically reconnect. If you need to automatically reconnect, you can check it. If you don't need it, leave it unchecked. After all configurations are completed, click "SAVE & APPLY".



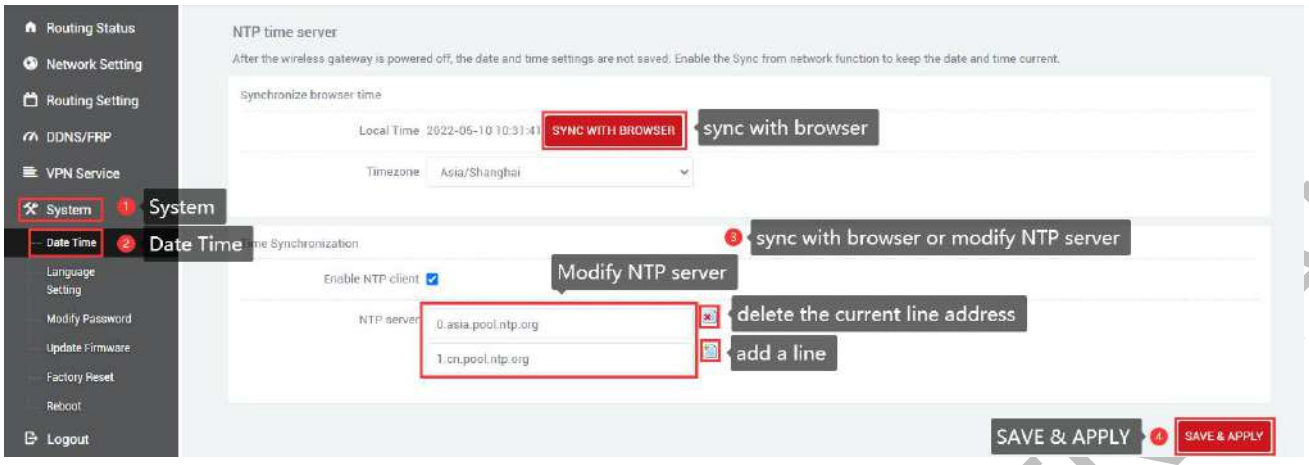
After the connection is successful, the status bar will refresh the address. If openvpn is not used, uncheck it and click "SAVE & APPLY".

Chapter 5 System

5.1 Date Time

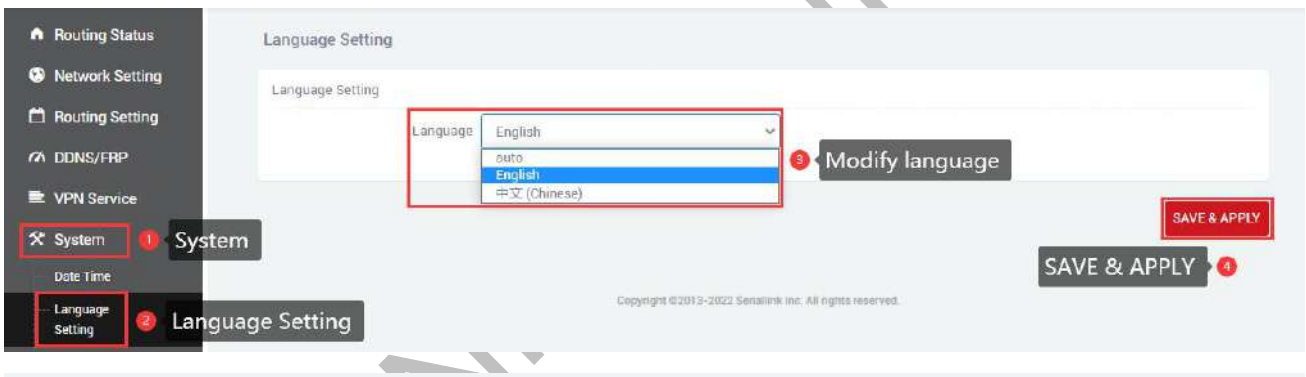
Time synchronization is enabled by default. If necessary, you can change the NTP server to synchronize the time of the server.

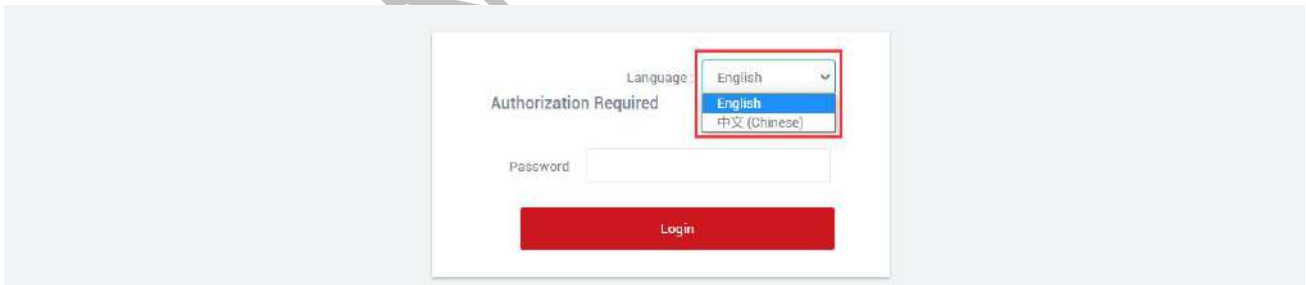
Navigation bar "System" - "Date Time", click "SAVE & APPLY" after setting.



5.2 Language Setting

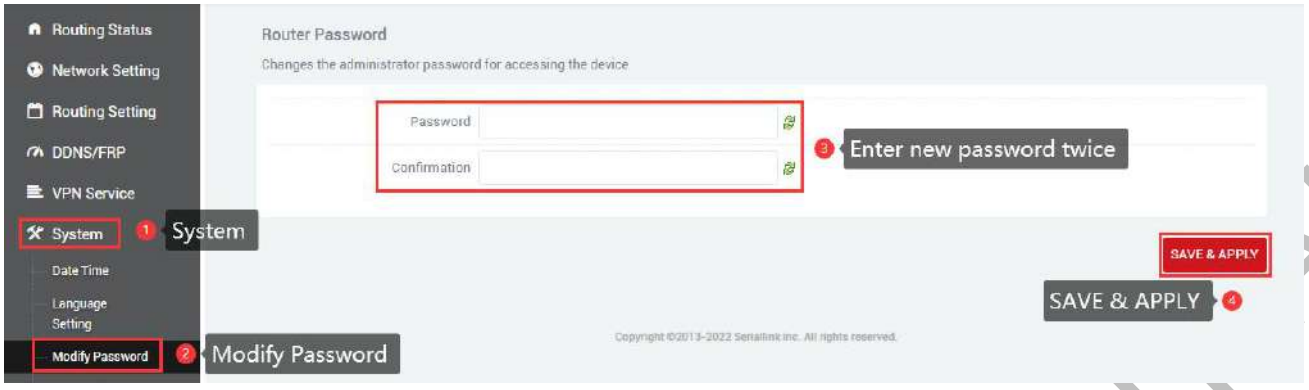
Change the language displayed on the page according to your own needs, you can choose English or Chinese, change it in the navigation bar "System" - "Language Setting", or change the language in the login interface.



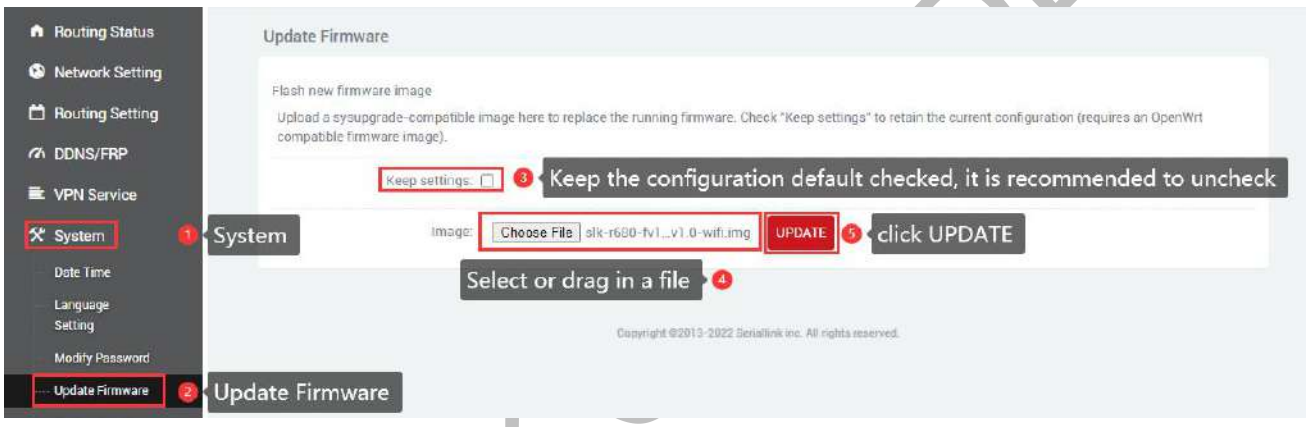


5.3 Modify Password

The default password for login is admin. If the user needs to protect the configuration interface to avoid being modified by others, he can modify the login password, click "System" - "Modify Password" in turn, then fill in the password to be modified, and then SAVE & APPLY, as follows.



5.4 Update Firmware

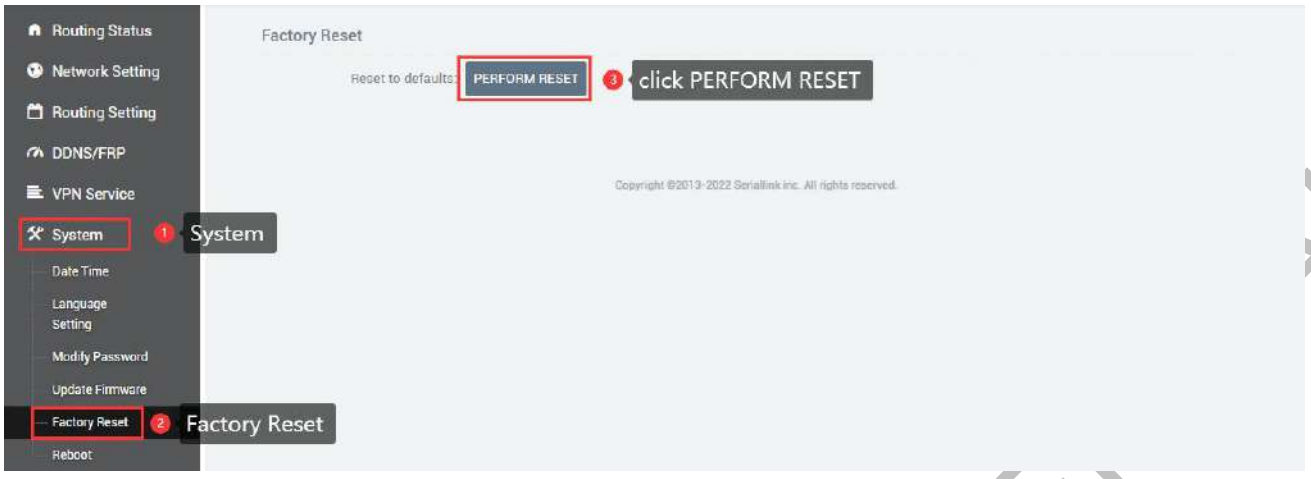


Navigation bar "System" - "Update Firmware", select the file and click "UPDATE", the MD5 check code page will appear after uploading, click "PROCEED" to upgrade, the upgrade will take a certain time,it takes about 1~2 minutes, after the upgrade is complete, log in again through "192.168.2.1".

When upgrading the firmware, you need to uncheck the "Keep settings" option.

5.5 Factory Reset

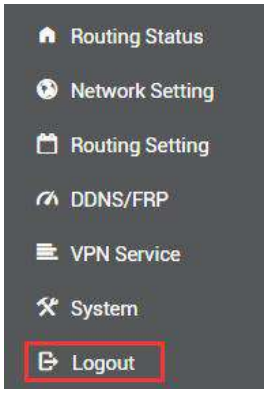
Factory reset is generally when the device fails to enter the device page, or there are many function settings, and you want to reset it,you can restore the factory default settings, the navigation bar "System" - "Factory Reset", click "Execute reset", you can restore the device to the factory default.



5.6 Reboot

Immediately restart, the device can be restarted through the page, the navigation bar "System" - "Reboot", click "Execute restart" to restart the device.

5.7 page log out



Click "Logout" to exit to the login interface.

FCC Statement:

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

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. For indoor use only in bands 5150-5250MHz.

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

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

Thank you for your support of SERIALLINK products.

If you have any questions, please email: info@seriallink.net or www.seriallink.net