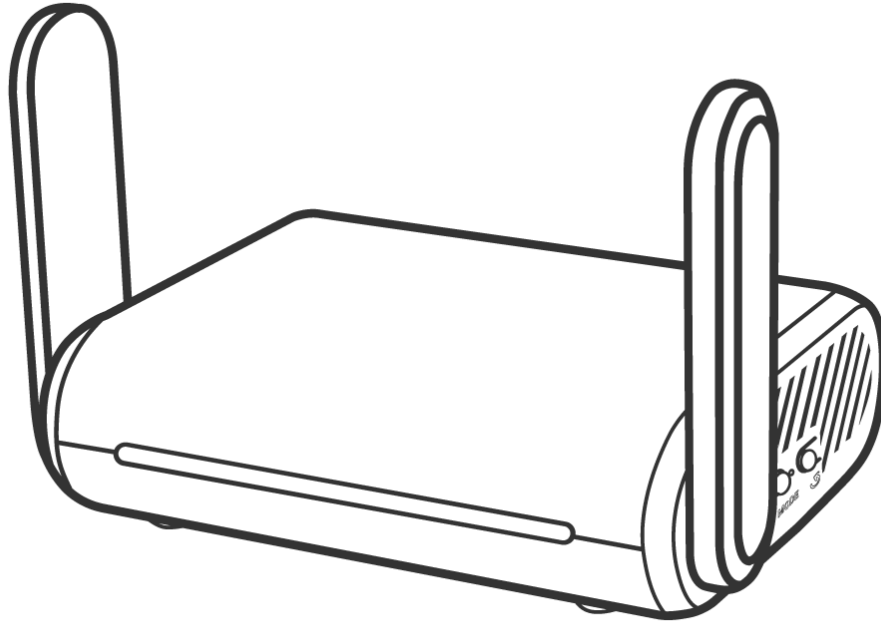


GL·iNet



Opal

(GL-SFT1200)
USER MANUAL

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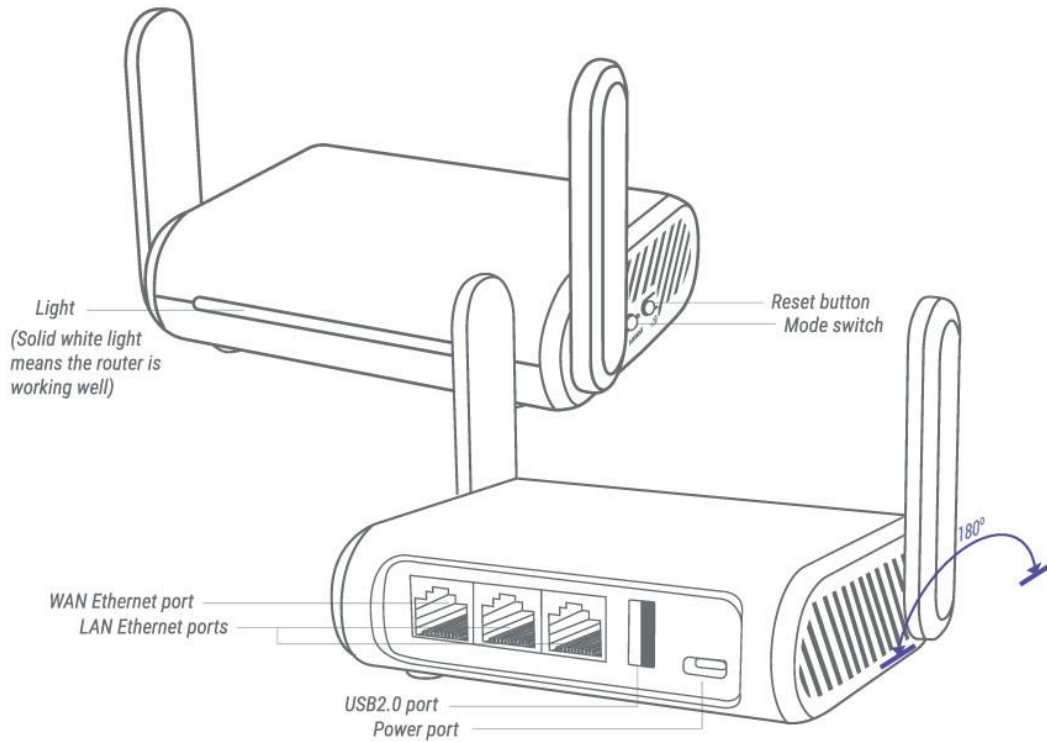
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1. Getting Started with GL.iNet Opal

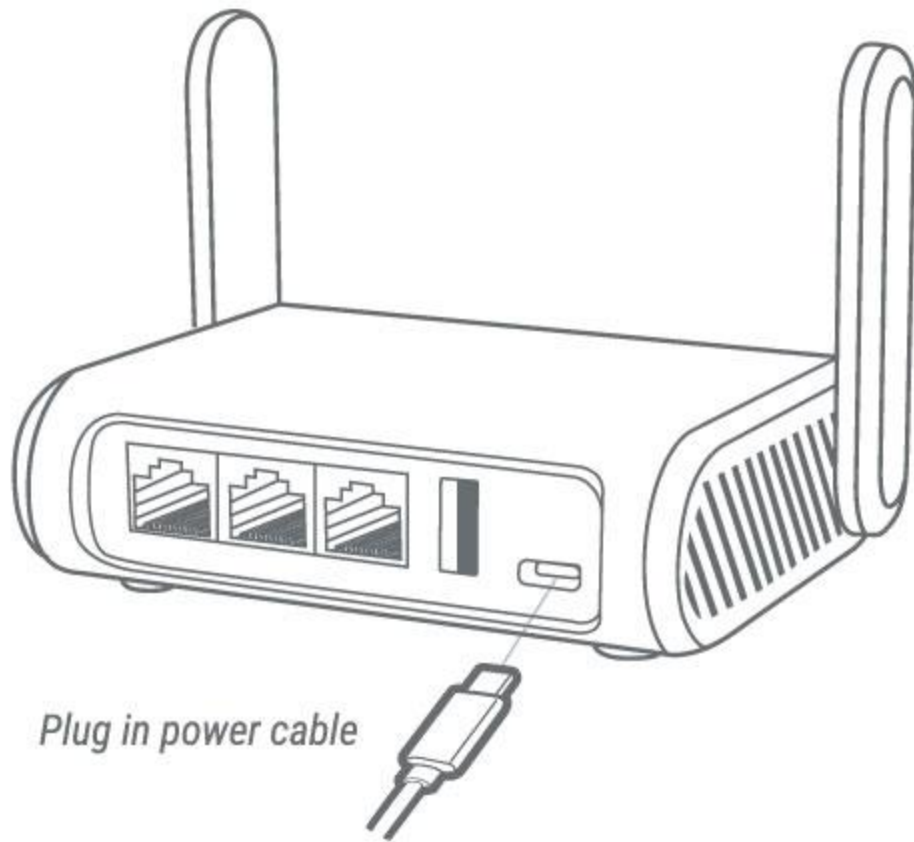
Model:

GL-SFT1200



1.1. Power on

Plug the Micro USB power cable into the power port of the router. Make sure you are using a standard **5V/3A** power adapter. Otherwise, it may cause malfunction.



*Note: Hot plug for TF card is **not** supported. If you want to use TF card, please insert before powering on the router.*

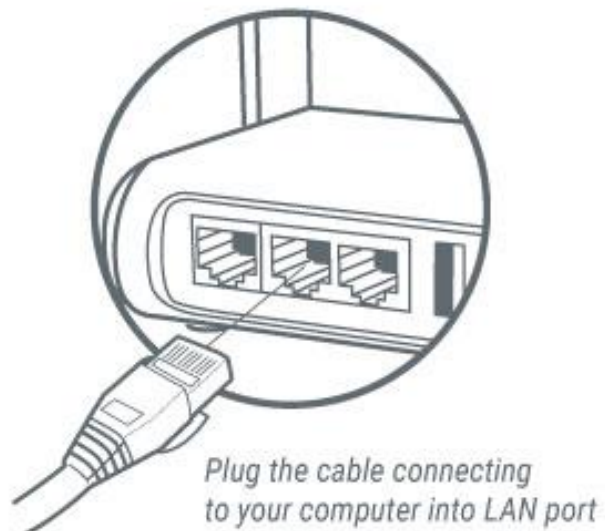
1.2. Connect

You can connect to the router via Ethernet cable or Wi-Fi.

Note: This step only connects your devices to the local area network (LAN) of the router. You cannot access the Internet currently. In order to connect to the Internet, please finish the setup procedures below and then follow Internet to set up an Internet connection.

(1) Connect via LAN

Connect your device to the LAN port of the router via Ethernet cable.



(2) Connect via Wi-Fi

Search for the SSID of the router in your device and input the default password: *goodlife*.

Note: The SSID was printed on the bottom label of the router with the following formats:

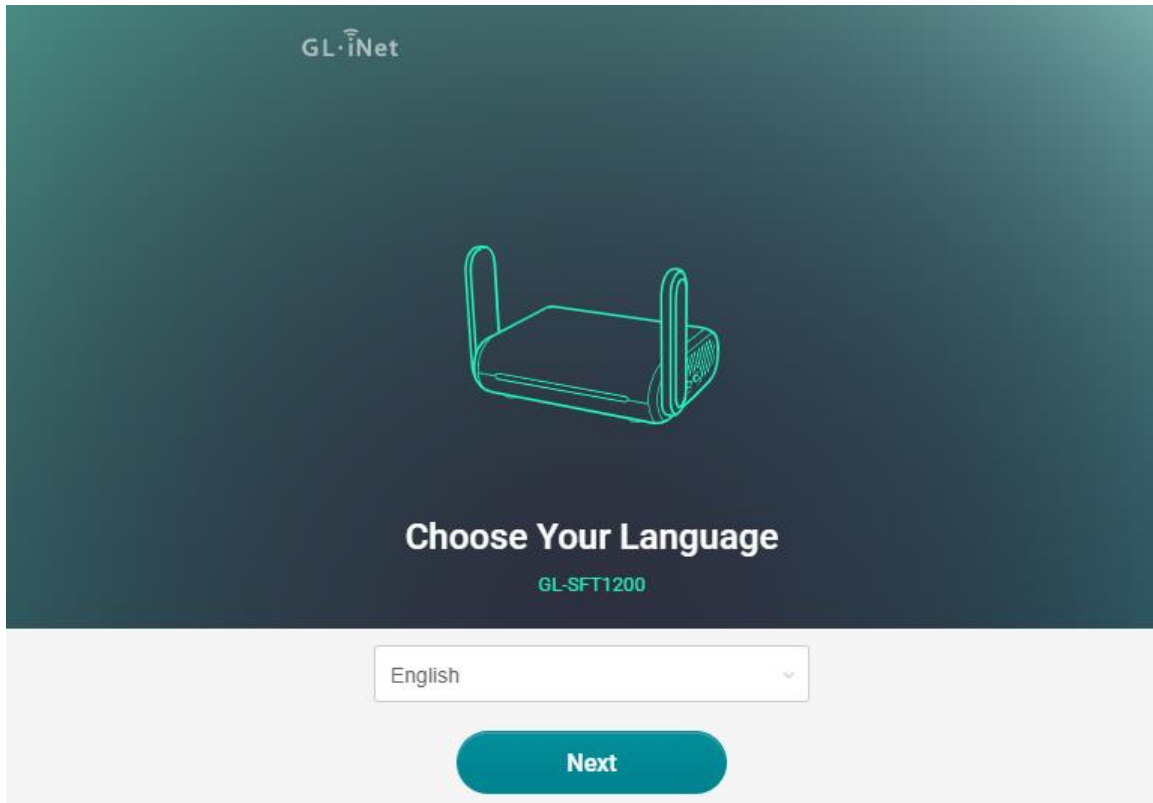
- **GL-SFT1200-XXX**
- **GL-SFT1200-XXX-5G**

1.3. Access the Web Admin Panel

Open a web browser (we recommend Chrome, firefox) and visit <http://192.168.8.1>. You will be directed to the initial setup of the web Admin Panel.

(1) Language Setting

You need to choose the display language of the Admin Panel. Currently, our routers support English, 简体中文, 繁體中文, Deutsch, Français, Español and 日本語, 한국어, русский .



GL.iNet

Choose Your Language

GL-SFT1200

English

Next

Note: If your browser always redirects to Luci (<http://192.168.8.1/cgi-bin/luci>), you can visit: <http://192.168.8.1/index.html> instead of <http://192.168.8.1>.

(2) Admin Password Setting

There is no default password for the Admin Panel. You have to set your own password, which must be at least 5 characters long. Then, click Submit to proceed.

Set Up Your Admin Password

New Password

5-32 characters

Confirm Password

Must be identical to above

Your admin password will be used for configuring everything on the Admin Panel of your router. It is EXTREMELY important to keep it safe.

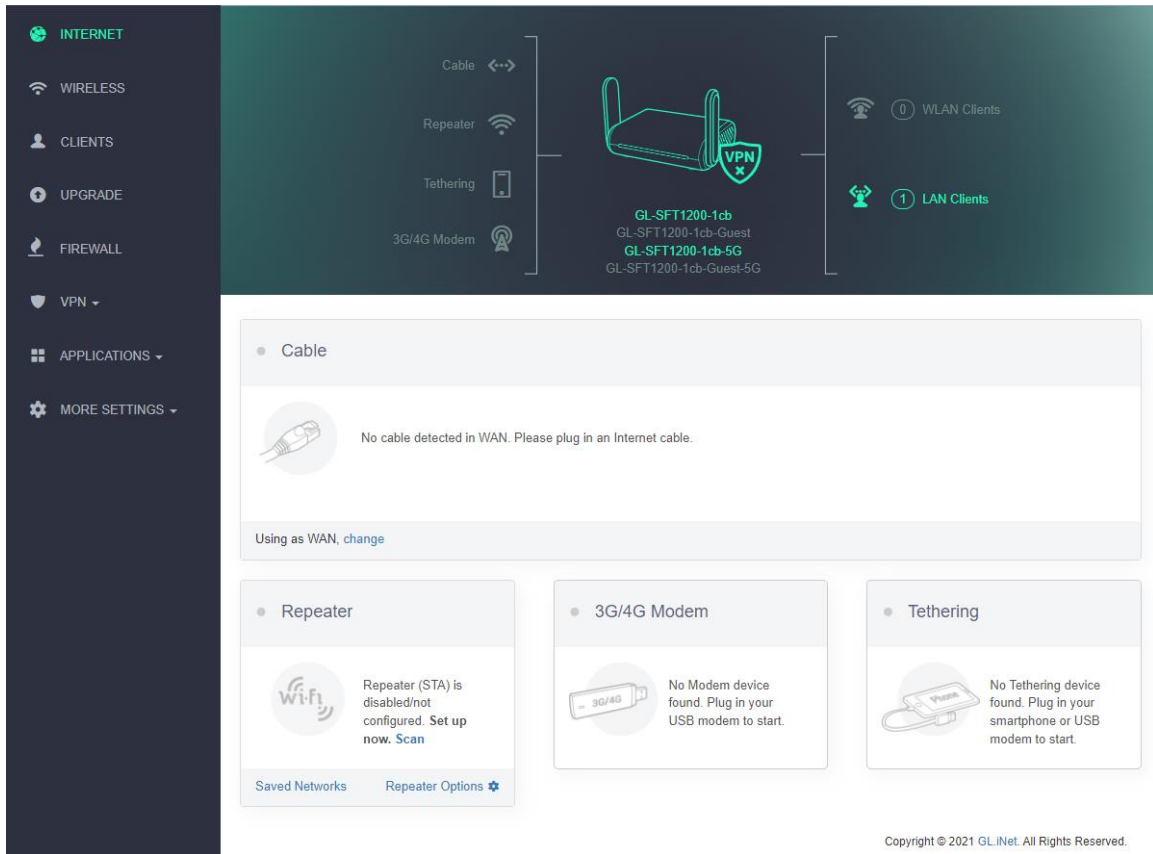
Back

Submit

Note: This password is for this web Admin Panel and the embedded Linux system. It will not change your Wi-Fi password.

(3) Admin Panel

After the initial setup, you will enter the web Admin Panel of the router. It allows you to check the status and manage the settings of the router.



INTERNET

WIRELESS

CLIENTS

UPGRADE

FIREWALL

VPN

APPLICATIONS

MORE SETTINGS

Cable ↔

Repeater

Tethering

3G/4G Modem

GL-SFT1200-1cb
GL-SFT1200-1cb-Guest
GL-SFT1200-1cb-5G
GL-SFT1200-1cb-Guest-5G

0 WLAN Clients

1 LAN Clients

Cable

No cable detected in WAN. Please plug in an Internet cable.

Using as WAN, change

Repeater

Repeater (STA) is disabled/not configured. Set up now. Scan

Saved Networks Repeater Options

3G/4G Modem

No Modem device found. Plug in your USB modem to start.

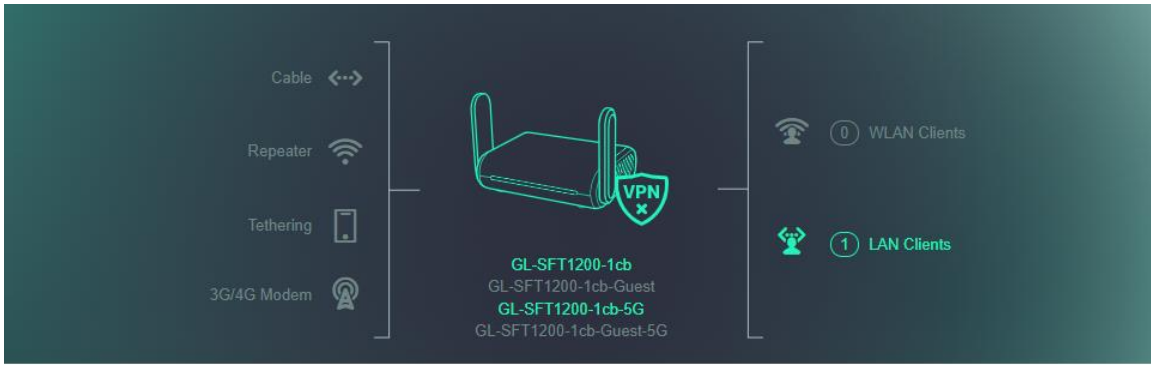
Tethering

No Tethering device found. Plug in your smartphone or USB modem to start.

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2. INTERNET

There are total 4 types of connection method that you can use to access the Internet: **Cable**, **Repeater**, **3G/4G Modem** and **Tethering**.



Cable

No cable detected in WAN. Please plug in an Internet cable.

Using as WAN, change

Repeater

Repeater (STA) is disabled/not configured. **Set up now. Scan**

Saved Networks Repeater Options ⚙

3G/4G Modem

No Modem device found. Plug in your USB modem to start.

Tethering

No Tethering device found. Plug in your smartphone or USB modem to start.



1 Cable



2 Repeater



3 USB Modem



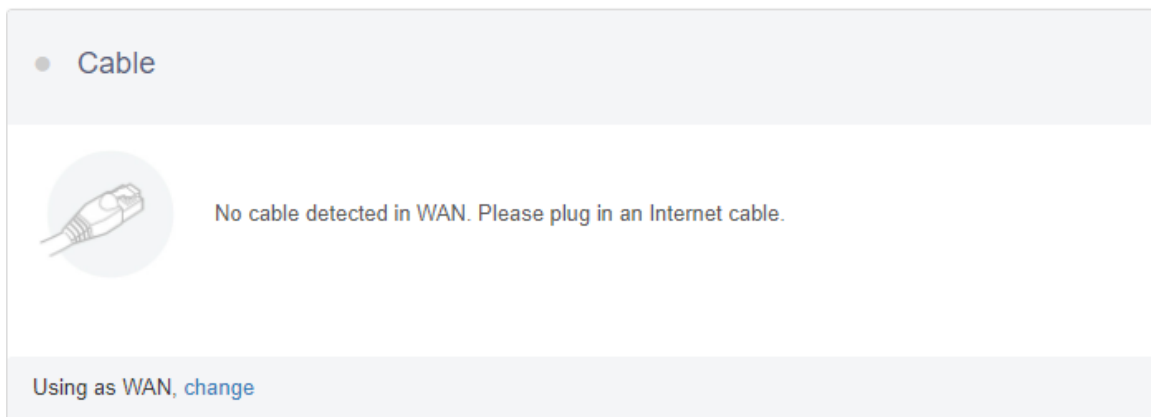
4 Tethering

Click INTERNET to create an Internet connection.

2.1. Cable

Connect the router to the modem or main router via Ethernet cable to access the Internet.

Before plugging the Ethernet cable into the WAN port of the router, you can click Use as LAN to set the WAN port as a LAN port. That is useful when you are using the router as a [repeater](#). As a result, you can have one more LAN port.




Plug the Ethernet cable into the WAN port of the router. The information of your connection will be shown on the Cable section. DHCP is the default protocol. You can click Modify to change the protocol.

● Cable

Protocol	DHCP
IP Address	192.168.51.197
Netmask	255.255.255.0
Gateway	192.168.51.1
DNS Server	192.168.51.1

[Modify](#)




(1) DHCP

DHCP is the default and most common protocol. It doesn't require any manual configuration.

● Cable

Protocol

[Cancel](#) [Apply](#) Using as WAN, change



(2) Static


Static is required if your Internet Service Provider (ISP) has provided a fixed IP address for you or you want to configure the network information such as IP address, Gateway, Netmask manually.

The current settings will be automatically filled once you choose Static. Change it according to your needs and then click Apply.

● Cable

Protocol	Static
IP Address	192.168.51.197
Netmask	255.255.255.0
Gateway	192.168.51.1
DNS Server1	192.168.51.1
DNS Server2	

Using as WAN, [change](#)




(3) PPPoE


PPPoE is required by many Internet Service Providers (ISP). Generally, your ISP will give you a modem and provide you a username & password that you needed when you are creating the Internet connection.

Under PPPoE protocol, enter your username and password, then click Apply.

● Cable

Protocol	PPPoE
User Name	Required
Password	Required 

Using as WAN, [change](#)

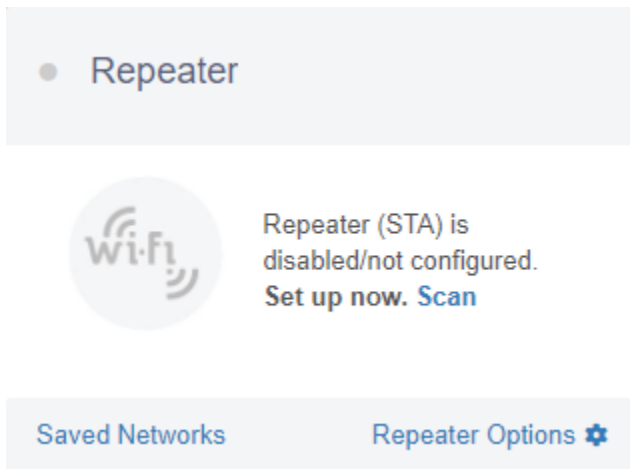


2.2. Repeater

Using Repeater means connecting the router to another existing wireless network, e.g. when you are using free Wi-Fi in a hotel or cafe.

It works in WISP (Wireless Internet Service Provider) mode by default, which means that the router will create its own subnet and act as a firewall to protect you from the public network.

In Repeater section, click Scan to search for the available wireless networks nearby.



Choose a SSID from the drop-down list and enter its password. You can also enable the **Remember** button to save the current chose wireless network. Finally, click Join.

● Wi-Fi Scan

SSID GL-Office

Password ●●●●●●

Remember

Join

2.3. USB 3G/4G Modem

You can connect to the Internet using a USB 3G/4G modem. Insert your SIM card into the USB modem Plug the USB modem into the USB port of the router. Once it has been detected, the 3G/4G modem section will be activated and you will be able to set up your USB modem.

Be aware that some modems work in host-less mode, which will be configured through [Tethering](#) but not 3G/4G modem.

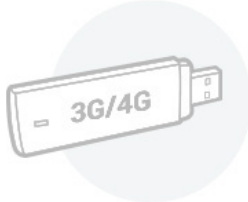
In General, you can set up your 3G/4G modem by the three basic parameters below. Click Apply to connect.

● CSL

Modem Name -

IMEI -

Auto Setup Manual Setup



[AT Command](#) [Modem Reset](#) [Cells Info](#)

- **Device:** Choose `/dev/cdc-wdm0` if your modem supports QMI, otherwise you need to choose `/dev/ttyUSB`, which may include several `ttyUSB` from 0 to 3.

You need to choose the correct one based on the modem spec. We suggest you to try **ttyUSB0** first.

- **Service Type:** Indicate the service type of your SIM card.
- **APN:** Confirm with your SIM card carrier.

Advanced Settings:

- **Dial Number:** Generally, it is a default value and you don't need to set it manually. However, if you have this info, please input it.
- **Pincode, Username and Password:** Generally, these are not necessary for an unlocked SIM card. However, if you have a locked SIM card, please consult your service provider.

Pincode	<input type="text"/>
Dial number	<input type="text"/>
User Name	<input type="text"/>
Password	<input type="password"/>

[Apply](#)

It is connected when the IP address of your SIM card shows up.

● 3G/4G Modem


Device

Service

APN

[Advanced](#) [Modem Reset](#)

Abort



Compatible Modems

Here is a list of supported modems that we had tested before.

Model	3G/4G	Tested	Tested by	Comments*
Quectel EC20-E, EC20-A, EC20-C	4G	Yes	GL.iNet	
Quectel EC25-E, EC25-A, EC25-V, EC25-C	4G	Yes	GL.iNet	
Quectel UC20-E	3G	Yes	GL.iNet	
ZTE ME909s-821	4G	Yes	GL.iNet	
Huawei E1550	3G	Yes	GL.iNet	
Huawei E3276	4G	Yes	GL.iNet	
TP-Link MA260	3G	Yes	GL.iNet	
ZTE M823	4G	Yes	Arnas Risqianto	
ZTE MF190	3G	Yes	Arnas Risqianto	
Huawei E3372	4G	Yes	anonymous	
Pantech UML290VW (Verizon)	4G	Yes	GL.iNet/steven	QMI
Pantech UML295 (Verizon)	4G	Yes	GL.iNet/steven	Host-less
Novatel USB551L (Verizon)	4G	Yes	GL.iNet/steven	QMI
Verizon U620L (Verizon)	4G	Yes		Host-less

*QMI: This modem supports QMI mode. Please choose **/dev/cdc-wdm0** in the **Device** list.

*Host-less: This modem supports tethering mode, please set up by using Tethering but not 3G/4G modem.

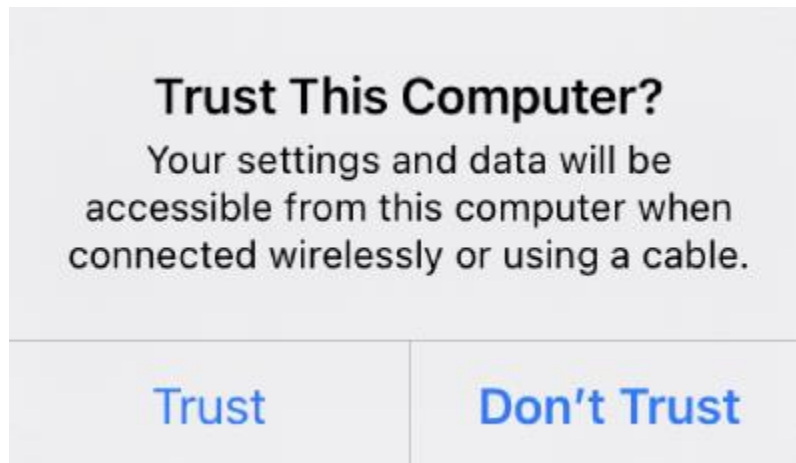
You can also refer to <http://ofmodemsandmen.com/modems.html> for a well-supported modem list.

2.4. Tethering

Using USB cable to share network from your smartphone to the router is called Tethering. Host-less modem works in Tethering during the setup of the modem as well.

For host-less modem tethering, plug it into the USB port of the router.

For smartphone tethering, connect it to the USB port of the router and click **Trust** to continue when the message pops up in your smartphone.



After plugging in your device, the Tethering section will update and your device will be shown on the device list. The device name will begin with **eth** or **usb** such as **eth2**, **usb0**. Choose your device and click Connect.

Settings Personal Hotspot

Personal Hotspot on your iPhone can provide Internet access to other devices signed into your iCloud account without requiring you to enter the password.

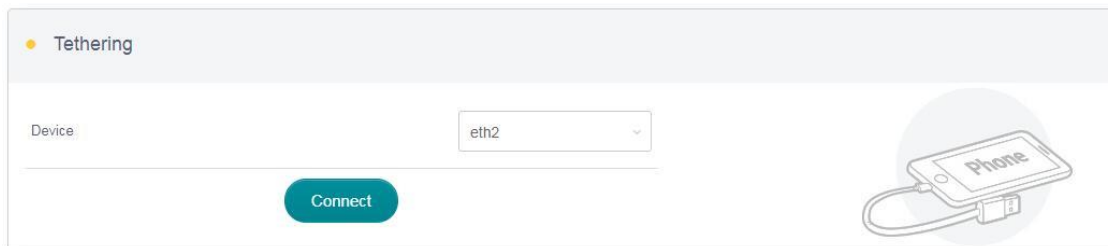
Allow Others to Join



Wi-Fi Password

hftiget&: >

Go to web Admin Panel, on the left side bar, choose "INTERNET" and click "Connect" in the middle of the page.



It will show connected information on the top of your phone screen and the web Admin Panel once you connect successfully.

Settings Personal Hotspot

Personal Hotspot on your iPhone can provide Internet access to other devices signed into your iCloud account without requiring you to enter the password.

Allow Others to Join



Wi-Fi Password

hftigeth&: >

EasyTether

Some carriers prohibit the sharing of the data so that you may not be able to use tethering. However, you can try [easytethering](#).

Note: Easytether is not a free service and we have no affiliation with them.

3. WIRELESS

In WIRELESS, you can check the current status and change the settings of the wireless network created by the router. The wireless network can be turned on or off by switching the ON/OFF button. Also you can enable Guest Wi-Fi(disable default) to provide internet services to your visitors.

Wi-Fi Name (SSID): The name of the Wi-Fi. It is not suggested to use unicode characters such as Chinese.

Wi-Fi Security: The encryption method of the Wi-Fi.

Wi-Fi Key: The password of the Wi-Fi, which must be at least 6 characters long. We suggest you to change it when you receive the router.

SSID Visibility: Show/hide the Wi-Fi SSID.

Wi-Fi Mode: The protocol of the Wi-Fi. It is suggested to use default settings (2.4GHz is b/g/n, 5GHz is a/n/ac).

Bandwidth: The channel frequency coverage range of the Wi-Fi. It is suggested to use default parameter.

Channel: The router will not choose the best channel itself. You need to choose a channel manually. If your router is used as a Wi-Fi repeater, the channel will be fixed according to the connected wireless network.

TX Power (dBm): It specifies the signal strength.

Channel Optimization: It will optimize your Wi-Fi signal and channel according to the Wi-Fi environment.

● 2.4G WiFi

● 2.4G Guest WiFi

● GL-SFT1200-1cb



Wi-Fi Name (SSID)

GL-SFT1200-1cb

Wi-Fi Security

WPA2-PSK

Wi-Fi Key ⓘ

.....

SSID Visibility

Shown

Wi-Fi Mode

802.11b/g/n

Bandwidth

20/40 MHz

Channel

auto

TX Power (dBm) ⓘ

Max

Modify

Channel Optimization

● 5G WiFi

● 5G Guest WiFi

● GL-SFT1200-1cb-5G 5G
ON

Wi-Fi Name (SSID)	GL-SFT1200-1cb-5G
Wi-Fi Security	WPA2-PSK ▼
Wi-Fi Key ❗	<div style="border: 1px solid #ccc; padding: 2px 10px; display: flex; align-items: center;"> •••••• 👁️ </div>
SSID Visibility	Shown ▼
Wi-Fi Mode	802.11a/n/ac ▼
Bandwidth	20/40/80 MHz ▼
Channel	36 ▼
TX Power (dBm) ❗	Max ▼

Modify

Channel Optimization

Click Modify to change the settings of the wireless network.

Guest WiFi:

You can switch on/off Guest WiFi in Wireless, the Guest WiFi will create a different subnet to your visitors to prevent any un-authority visiting to your other devices in the network.

● 2.4G WiFi ● 2.4G Guest WiFi

● GL-SFT1200-1cb-Guest OFF

Wi-Fi Name (SSID) GL-SFT1200-1cb-G...

Wi-Fi Security WPA2-PSK

Wi-Fi Key **i**

Modify

● 5G WiFi ● 5G Guest WiFi

● GL-SFT1200-1cb-Guest-5G 5G OFF

Wi-Fi Name (SSID) GL-SFT1200-1cb-G...

Wi-Fi Security WPA2-PSK

Wi-Fi Key **i**

Modify

4. CLIENTS

You can manage all connected clients in CLIENTS.

You can see their name, IP, MAC address and connection type.

Click the button on the right to block any unwanted client.

● CLIENTS

Enable real-time speed and traffic statistics. This requires higher CPU load. OFF

Brand	Name	IP	MAC	Block
Wired Device				
	DESKTOP-5PTHICI	192.168.51.217	84:A9:3E:82:99:B5	<input checked="" type="checkbox"/>
5G Wireless Device				
	Leo-Phone	192.168.51.118	14:16:9E:40:A1:F5	<input type="checkbox"/>
Offline Device				<input type="button" value="Delete All"/>
	GL-MV1000-...	192.168.51.220	94:83:C4:02:08:23	<input type="checkbox"/>
	GL-MT300N-...	192.168.51.194	E4:95:6E:48:F5:90	<input type="checkbox"/>

After you turn on Enable real-time speed and traffic statistics.

You can see all devices' traffic and speed information, click the button on the right to block any unwanted clients.

● CLIENTS

Enable real-time speed and traffic statistics. This requires higher CPU load. ON

Brand	Name	IP + MAC	Speed	Traffic	QoS	Block
Wired Device						
?	DESKTOP-5PTHICI	192.168.51.217 84:A9:3E:82:99:B5	↑ 14.5 KB/s ↓ 8.6 KB/s	↑ 5.2 MB ↓ 42.0 MB	Set	<input type="checkbox"/>
5G Wireless Device						
?	Leo-Phone	192.168.51.118 14:16:9E:40:A1:F5	↑ 237.0 B/s ↓ 1.1 KB/s	↑ 70.2 KB ↓ 276.5 KB	Set	<input type="checkbox"/>
Offline Device						Delete All
G	GL-MV1000-...	192.168.51.220 94:83:C4:02:08:23	↑ 0 B/s ↓ 0 B/s	↑ 0 B ↓ 0 B	Set	<input type="checkbox"/>
G	GL-MT300N-...	192.168.51.194 E4:95:6E:48:F5:90	↑ 0 B/s ↓ 0 B/s	↑ 0 B ↓ 0 B	Set	<input type="checkbox"/>

You can set tech QoS for certain clients by click **Set**,

QoS Speed limit range (1KB/s-1GB/s)

↑ Upload Speed Limit KB/s

↓ Download Speed Limit KB/s

a speed limitation range window will pop-up, set the speed and click **Apply**.

● CLIENTS

Enable real-time speed and traffic statistics. This requires higher CPU load. ON

Brand	Name	IP + MAC	Speed	Traffic	QoS	Block
Wired Device						
?	DESKTOP-5PTHICI	192.168.51.217 84:A9:3E:82:99:B5	↑ 36.6 KB/s ↓ 60.0 KB/s	↑ 10.7 MB ↓ 87.4 MB	Set	<input type="checkbox"/>
5G Wireless Device						
?	Leo-Phone	192.168.51.118 14:16:9E:40:A1:F5	↑ 0 B/s ↓ 0 B/s	↑ 830.1 KB ↓ 597.6 KB	Set Reset	<input type="checkbox"/>

There is an yellow "exclamation mark" besides speed limited client.

5. UPGRADE

Click UPGRADE to check any available update and upgrade the firmware.

5.1. Online Upgrade

You can find the current firmware version here. If your router is connected to the Internet, it will check for the newer firmware version available for download.

INTERNET

WIRELESS

CLIENTS

UPGRADE

FIREWALL

VPN

APPLICATIONS

MORE SETTINGS

Admin Password

Upgrade

Online Upgrade Local Upgrade Auto Upgrade

Current Version	3.201
Compile Time	2021-04-02 20:15:29
Last Update	3.203

Available Update (3.203) [Download](#)

OpenWrt Distribution:
Based on OpenWrt 19.07.7 (AR150,MIFI,AR300M,USB150,N300,AR750,AR750S,X750,E750
Based on QSDK11 (B1300,S1300,AP1300)

Security:
1. Fixed wolfSSL heap buffer overflow in RsaPad PSS (CVE-2020-36177)

*Note: It is suggested to uncheck **Keep setting**. If you keep the settings and encounter problems after the upgrade, please reset the router.*

5.2. Upload Firmware

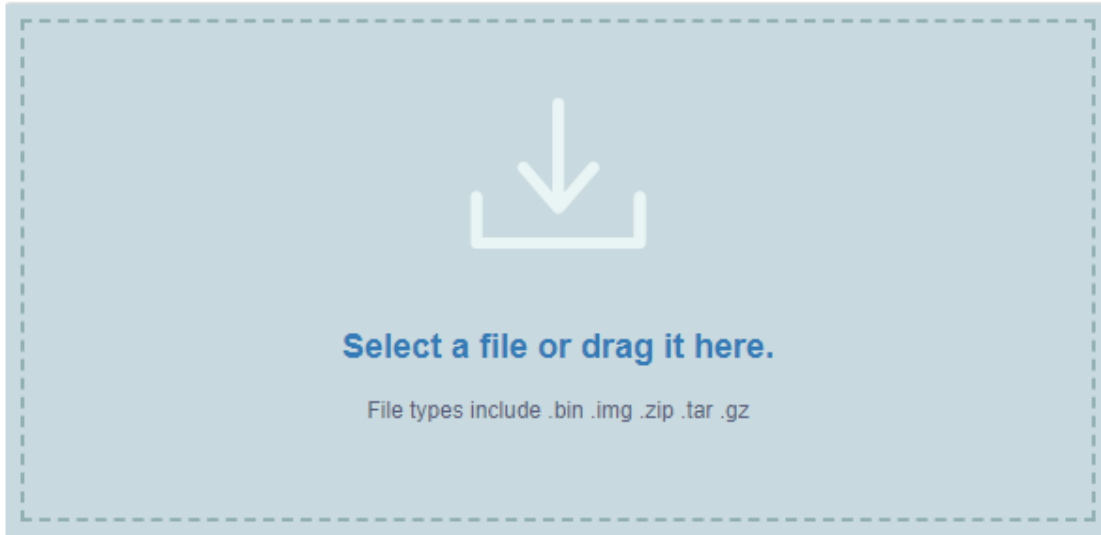
Click Local Upgrade to upload a firmware file to the router. Simply drag and drop your firmware file to the area indicated.

● Upgrade

Online Upgrade

Local Upgrade

Auto Upgrade



(1) Official OpenWrt/LEDE firmware

You can download the official firmware from our [website](#).

- GL-MT1300(Beryl): <https://dl.gl-inet.com/firmware/mt1300/>

Find the available firmwares from the folder according to your device model, and they are located in different sub-folders:

V1/Release: Official GL.iNet OpenWrt/LEDE firmware.

testing: Beta version of GL.iNet OpenWrt/LEDE firmware.

Snapshots: Testing firmware with special functions.

Note: You have to upload the .tar .bin file. The .img file can only be flashed to the router through Uboot.

(2) Compile your own firmware

You can compile your own firmware and flash to the router. Please refer to

<https://github.com/gl-inet/openwrt>

<https://github.com/gl-inet/imagebuilder>

(3) Third party firmware

You may also try other firmwares such as DDWRT.

Note: If you uploaded an incompatible firmware thus bricked the router, please use Uboot to re-install the correct firmware.

5.3. Auto Upgrade

You can enable auto upgrade. The router will search for available update and upgrade automatically according to the time that you set.

- Upgrade

Online Upgrade Local Upgrade Auto Upgrade

Router Time Fri Sep 3 03:59:56 UTC 2021

Enable Auto Upgrade

Auto Upgrade Time

6. FIREWALL

In FIREWALL, you can set up firewall rules like **port forwarding**, **open port** and **DMZ**.

6.1. Port Forwards

Port Forwarding allows remote computers to connect to a specific computer or service behind the firewall in the local LAN (such as web servers, FTP servers, etc).

To set up port forwarding, click Port Forwards and input the required parameters or click Add a New One.

Name: The name of the rule which can be specified by the user.

Internal IP: The IP address assigned by the router to the device which needs to be accessed remotely.

External Ports: The numbers of external ports. You can enter a specific port number or a range of service ports (E.g **100-300**).

Internal Ports: The internal port number of the device. You can enter a specific port number. Leave it blank if it is same as the external port.

Protocol: The protocol used, you can choose TCP, UDP, or both TCP and UDP.

Status: Activate of Deactivate the rule.

6.2. Open Ports on Router

The router's services, such as web, FTP and so on, require their respective ports to be opened on the router in order to be publicly reachable.

To open a port, click Open Ports on Router and input the required parameters or click Add a New One.

● Firewall

Port Forwards Open Ports on Router DMZ

The router's services, such as web, FTP and so on, require their respective ports to be opened on the router in order to be publicly reachable.

Name	Port	Protocol	Status	Action
<input type="text" value="Required"/>	<input type="text" value="Required"/>	<input type="text" value="TCP/UDP"/>	<input type="text" value="Enabled"/>	<input type="button" value="Add"/>

Name: The name of the rule which can be specified by the user.

Port: The port number that you want to open.

Protocol: The protocol used, you can choose TCP, UDP, or both TCP and UDP.

Status: Activate of Deactivate the rule.

6.3. DMZ

DMZ allows you to expose one computer to the Internet, so that all the inbounds packets will be redirected to the computer you set.

Click DMZ and enable Open DMZ. Input the internal IP address (E.g. 192.168.8.100) of your device which is going to receive all the inbound packets.

● Firewall

Port Forwards

Open Ports on Router

DMZ

DMZ allows you to expose one computer to the Internet, so that all the inbounds packets will be redirected to the computer you set.

❗ If you enable DMZ, your port forward and port open rules will not take effect.

Open DMZ



DMZ Host IP

Apply

7. VPN

GL.iNet routers have pre-installed VPN server and client in OpenVPN and WireGuard.

7.1. OpenVPN

GL.iNet routers have pre-installed OpenVPN server and client.

7.1.1. OpenVPN Client

OpenVPN client requires OpenVPN configuration file (.ovpn) to create the OpenVPN connection. If you have your own VPN service provider but you don't know how to get the configuration file, please refer to [Get your configuration file](#).

Click + Add a New VPN Configuration to upload the configuration file.

● OpenVPN Client

OpenVPN (Virtual Private Network) client is often used to connect to a OpenVPN server to access private resources securely over a public network.

Please find out the compatible OpenVPN Service Provider and instructions from [VPN on Router](#).

From follow the guide and download the ovpn configurations and import to the router by clicking the button below.

[+ Add a New OpenVPN Configuration](#)

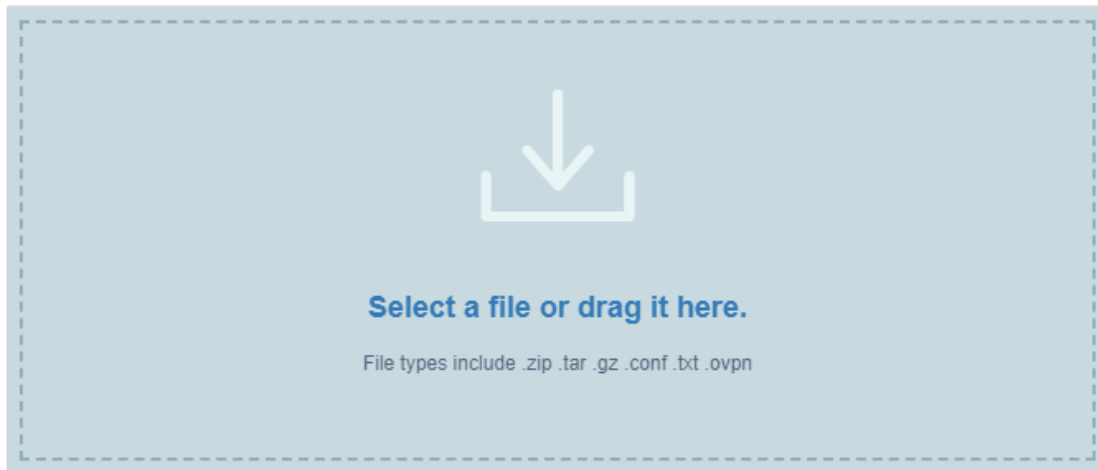
You can also download our [smartphone app](#) to simplify the setup process.

(1) Upload your OpenVPN configuration file

Simply drag and drop your file to the pop up windows. It can be a single .ovpn file or a zip/tar.gz file which contains multiple .ovpn files.

Be careful that some .ovpn files use separated ca, cert, crl files. These files must be zipped together with the .ovpn file before upload.

Add a New OpenVPN Configuration



Config Count

0

Cancel

Submit

(2) Enter Description, Username and Password

Enter a description for your OpenVPN configuration file and then click Submit to finish the upload process. In some cases, it will ask you to enter your username and password.

Add a New OpenVPN Configuration

You need to subscribe VPN service first and then the service provider will give you the username, password or passphrase.

Learn more: <https://www.gl-inet.com/solutions/vpn/>



Config Count	1
Description	<input type="text" value="nordvpn-hk"/>
User Name	<input type="text" value="Required"/>
Password ⓘ	<input type="text" value="Required"/> <input type="button" value="👁"/>

(3) Connect to the OpenVPN server

You can now click Connect to start the OpenVPN connection.

● OpenVPN Client

❗ If you enabled VPN but the VPN cannot connect to its server, there will be NO Internet.
When you change server while VPN is connected, VPN will not be leaked.

Status Management

Access Local Network ⓘ

Current OpenVPN Configuration nordvpn-hk ▾

Server hk272.nordvpn.com.udp.ovpn ⚙

[Connect](#)

If your configuration file is an archive file, like .zip, you can switch server at the cog icon.

● OpenVPN Client

❗ If you enabled VPN but the VPN cannot connect to its server, there will be NO Internet.
When you change server while VPN is connected, VPN will not be leaked.

Status	Management
Access Local Network ⓘ	<input type="checkbox"/>
Current OpenVPN Configuration	nordvpn-hk-zip ▾
Server	hk272.nordvpn.com.tcp.ovpn ⚙

[Connect](#)

Once connected, you should find your IP address, data received/sent.

● OpenVPN Client

❗ If you enabled VPN but the VPN cannot connect to its server, there will be NO Internet.
When you change server while VPN is connected, VPN will not be leaked.

Status Management

Access Local Network ❗

Current OpenVPN Configuration nordvpn-hk

Server hk272.nordvpn.com.udp.ovpn ⚙️

IP Address	10.8.1.5
Data Received / Sent	31KB / 20KB

Disconnect

Note: It can't running VPN Client and Server at the same time, and also can't running OpenVPN Client and WireGuard Client at the same time.

(4) Manage configuration files

Click Management to check the list of configuration files. You can modify the **Description, User name** or **Password** of each configuration file. You can also add, delete a configuration file or even purge all your uploaded configuration files.

If your configuration file is a zip/tar.gz file which includes multiple ovpn files, you can choose an individual .ovpn file that you would like to connect in **Server**.

● OpenVPN Client

! If you enabled VPN but the VPN cannot connect to its server, there will be NO Internet.
When you change server while VPN is connected, VPN will not be leaked.

Status

Management

OpenVPN Configurations

2

● nordvpn-hk

▼

Type

OpenVPN

Config Count

1

Server

hk272.nordvpn.com.udp.ovpn 

Description

nordvpn-hk

User Name

.....

Password

.....



Remove

Apply

Get your configuration file

We have tested different VPN service providers. Therefore, if you don't know how to get the configuration file, you can follow the instruction below. However, you have to contact your service provider for the configuration file if they are not listed below.

[Get your configuration file](#)

If you have any problem in the setup of OpenVPN, please contact support@gl-inet.com

7.1.2. OpenVPN Server

You can set up an OpenVPN server on GL.iNet router. Click + Generate a configuration file.

● OpenVPN Server

OpenVPN is an open-source software application that implements virtual private network (OpenVPN) techniques for creating secure point-to-point or site-to-site connections in routed or bridged configurations and remote access facilities., please follow the steps below

1. Add a new certificate
2. Modify the default configuration, then save.
3. Export the configuration file.
4. Start

You don't have any OpenVPN configuration files yet, please get started by generating a new one.

[+ Generate a Configuration File](#)

(1) Server configuration

There are preset OpenVPN server configurations. You can also click Modify to change them manually. Click Apply when you finish.

● OpenVPN Server

Access Local Network ⓘ	<input type="checkbox"/>
Type	Router
IP Address	10.8.0.0
IPv6 Address	fd00:db8:0:123::0 ⓘ
Netmask	255.255.255.0
Port	1194
Encryption	AES-256-GCM
Authentication	SHA256
Protocol	UDP

[Modify](#) [Start](#) [Export Config](#)

Allow Access Local Network: Enable this will allow every client that connect to this OpenVPN Server be able to access your LAN. Please use with caution.

Note that you can't running VPN Client and Server at the same time, and also can't running OpenVPN Client and WireGuard Client at the same time.

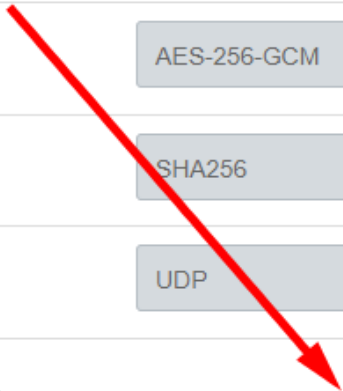
(2) Export OpenVPN configuration file

Click Export Config to download the OpenVPN configuration file which you need to upload when you are configuring your OpenVPN client.

● OpenVPN Server

Access Local Network ⓘ	<input type="checkbox"/>
Type	Router
IP Address	10.8.0.0
IPv6 Address	fd00:db8:0:123::0 ⓘ
Netmask	255.255.255.0
Port	1194
Encryption	AES-256-GCM
Authentication	SHA256
Protocol	UDP

[Modify](#) [Start](#) [Export Config](#)



(3) Start the OpenVPN server

Click Start to start your OpenVPN server. Otherwise, you will not be able to connect to the OpenVPN server by using its configuration file.

• OpenVPN Server

Access Local Network ⓘ



Type

Router

IP Address

10.8.0.0

IPv6 Address

fd00:db8:0:123::0 ⓘ

Netmask

255.255.255.0

Port

1194

Encryption

AES-256-GCM

Authentication

SHA256

Protocol

UDP

Modify

Start

[Export Config](#)

It started.

● OpenVPN Server

Access Local Network ⓘ



IP	Sent / Received
10.8.0.1	0KB/0KB

[Stop](#) [Export Config](#)

7.2. WireGuard

WireGuard is an extremely simple yet fast and modern VPN that utilizes **state-of-the-art cryptography**. It aims to be **faster, simpler**, leaner, and more useful than IPSec, while avoiding the massive headache. It intends to be considerably more performant than OpenVPN.

GL.iNet routers have pre-installed WireGuard server and client.

7.2.1. WireGuard Client

To set up a WireGuard client, please click + Add New Profiles.

● WireGuard® Client

WireGuard® is an extremely simple yet fast and modern VPN that utilizes state-of-the-art cryptography.

To use WireGuard, you need either subscribe to a commercial VPN service or set up your own WireGuard Server.

Here is a list of commercial WireGuard Services that you can set up directly on the router:

azirevpn	▼	Now set Up ->
----------	---	---------------

To find more supported commercial WireGuard Service providers, please go to [VPN on Router](#).

You can also set up your WireGuard manually.

[+ Set up WireGuard Manually](#)

You can also download our [smartphone app](#) to simplify the setup process.

(1) Specify the name of your server

Specify the name and then click Next.

Add a New WireGuard® Client

Providers	Configuration	Manual Input
Provider	azirevpn ▼	Setup guide
User Name	<input type="text"/>	
Password	<input type="password"/>	<input type="checkbox"/>

[Cancel](#) [Next](#)

(2) Input the configurations!

There are different methods to input the configurations.

Add a New WireGuard® Client

Providers Configuration Manual Input

Provider mullvad [Setup guide](#)

Account Number

[Cancel](#) [Next](#)

You can copy the JSON or Plain Text configurations from your server to Configuration or input the settings manually.

GL.iNet ADMIN PANEL Reboot

- INTERNET
- WIRELESS
- CLIENTS
- UPGRADE
- FIREWALL
- VPN**
 - OpenVPN Client
 - OpenVPN Server
 - WireGuard Client**
 - WireGuard Server
 - Internet Kill Switch

WireGuard® Client

WireGuard® is an extremely simple yet fast and modern VPN that utilizes state-of-the-art cryptography.

To use WireGuard, you need either subscribe to a commercial VPN service or set up your own WireGuard Server.

Here is a list of commercial WireGuard Services that you can set up directly on the router:

[Now set Up ->](#)

To find more supported commercial WireGuard Service providers, please go to [VPN on Router](#).

You can also set up your Wireguard manually.

You can also download our [smartphone app](#) to simplify the setup process.

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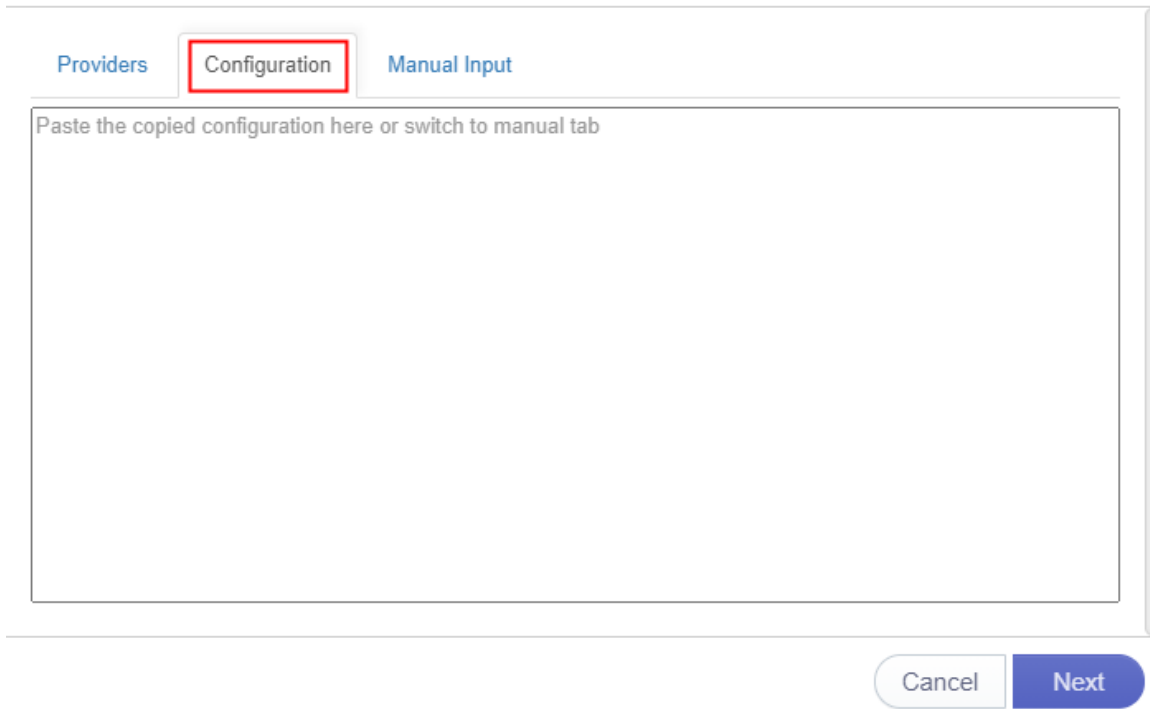
After copy the JSON or Plain Text from your server, you can paste it in the Configuration and then click **Add** to finish the WireGuard Client setup.

Add a New WireGuard® Client

Providers Configuration Manual Input

Paste the copied configuration here or switch to manual tab

Cancel Next



7.2.2. WireGuard Providers

If you are using **AzureVPN** or **Mullvad**, you can click Others and use your **AzureVPN** or **Mullvad** account to set up WireGuard client directly.

AzureVPN: Select **AzureVPN** as the provider, enter your User Name and Password and then click "Add" finish the WireGuard Client setup

Add a New WireGuard® Client

Providers Configuration Manual Input

```
[Interface]
PrivateKey = yGkRi0pQd
Address = 100.83.7.179/32
DNS = 100.83.0.1

[Peer]
PublicKey = 8Gje0HyZrOXF2zkELuxYm4IEGJj6JnmpfhcZdbZsXAc=
AllowedIPs = 0.0.0.0/0
Endpoint = us3.wg.azurevpn.net:51820
```

Cancel Next

Mullvad: Select Mullvad as the provider, enter your Account Number and then click "Add" to finish the WireGuard Client setup.

Waiting for the adding.

Add a New WireGuard® Client

Name

Cancel Add

⌛ Adding, please wait...

● WireGuard® Client

WireGuard® is an extremely simple yet fast and modern VPN that utilizes state-of-the-art cryptography. Please follow the steps below

1. Add a New WireGuard® Configuration.
2. Paste or Enter WireGuard® Information Manually.
3. Select a configuration.
4. Click the Connect button.

You have not set up any WireGuard® configurations yet. Get started by adding a WireGuard® configuration.

Wireguard is functional in GL.iNet products, however, until the upstream project publishes a stable 1.0 version, Wireguard will remain a beta feature.

+ Add New Profiles ⌛

Other recommended WireGuard provider, please click [this link](#).

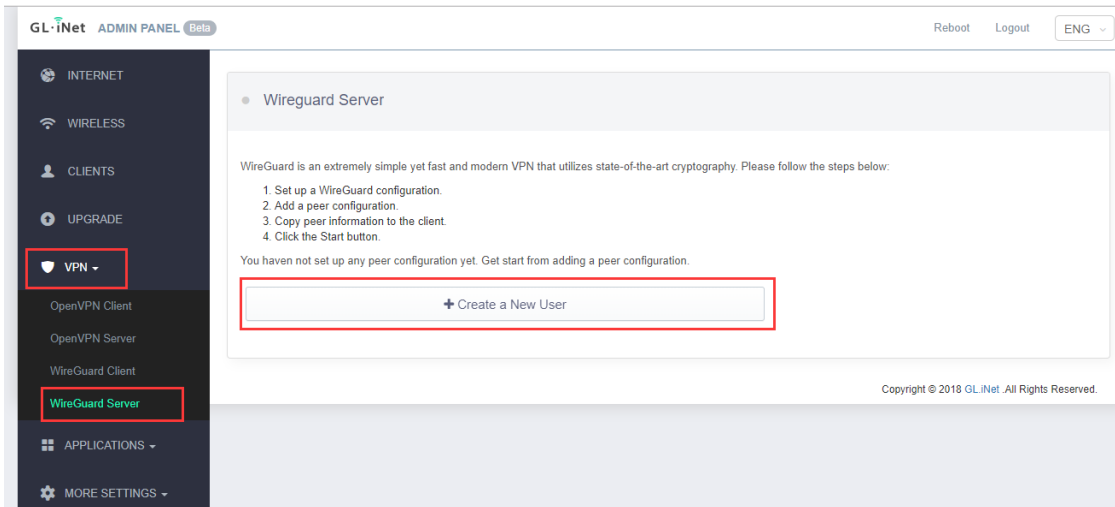
(3) Connect to the WireGuard server

Click Connect. You will see the upload and download traffic when it is connected successfully.

The screenshot shows the WireGuard Client management interface. At the top right, there are links for 'Reboot', 'Logout', and a language dropdown set to 'ENG'. A green notification box at the top center displays a checkmark and the word 'SUCCESS!'. Below this, the 'Wireguard Client' section is visible, with tabs for 'Status' and 'Management'. Under the 'Management' tab, there is a 'Server' dropdown menu currently set to 'MyWG-Client1'. A red box highlights the 'Connect' button. At the bottom right of the interface, the text 'Copyright © 2018 GL.iNet. All Rights Reserved.' is displayed.

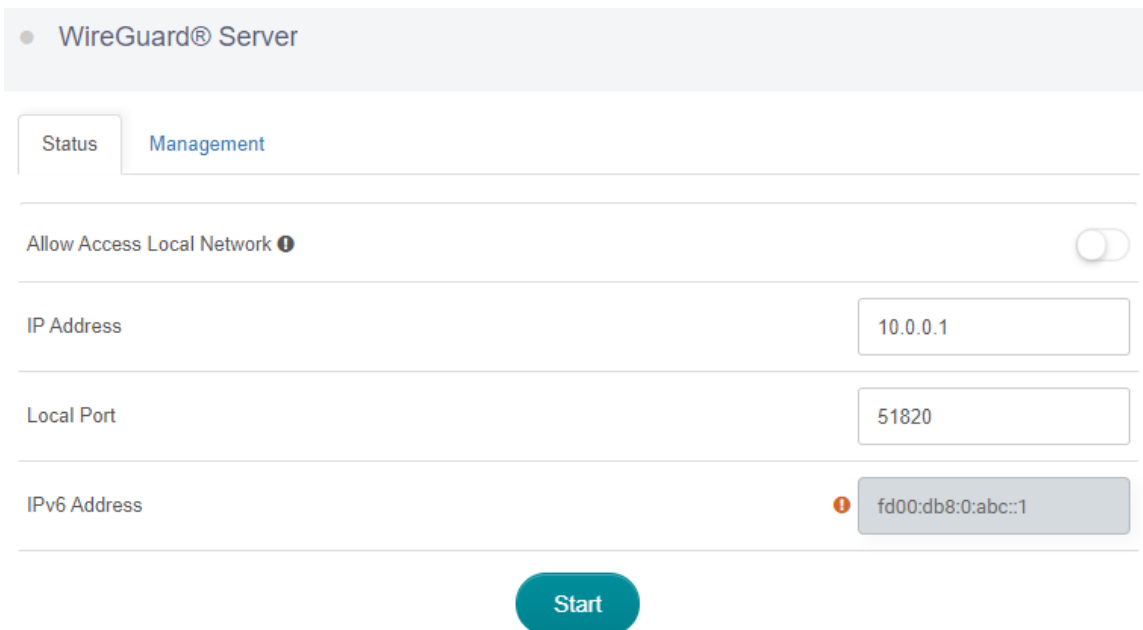
7.2.3. WireGuard Server

You can set up a WireGuard server on GL.iNet router with firmware 3.0. Click + Create a New User.



(1) Start a WireGuard Server

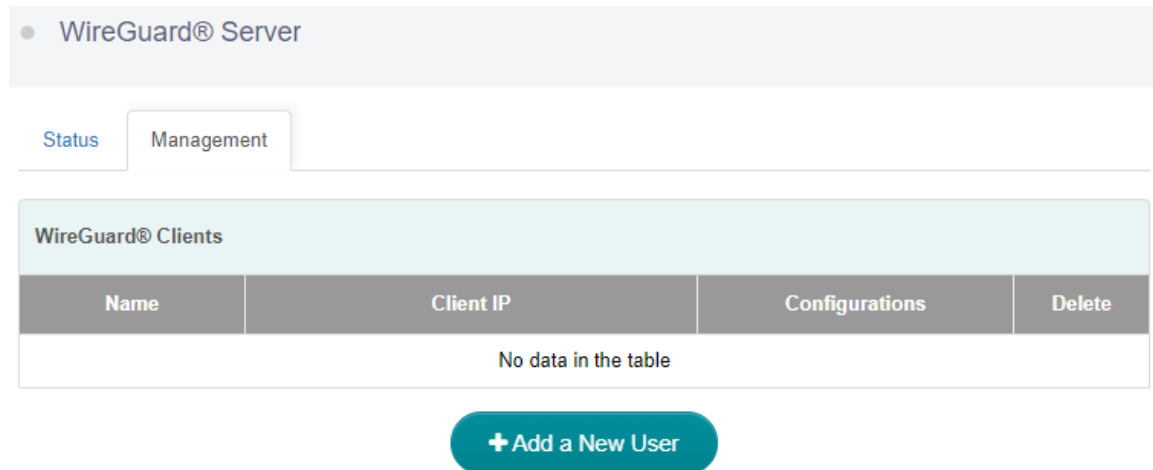
You can simply use the default parameters of **Local IP** and **Local Port**, or you can set your own value. Then click Start to start your own WireGuard server.



(2) Add a new client

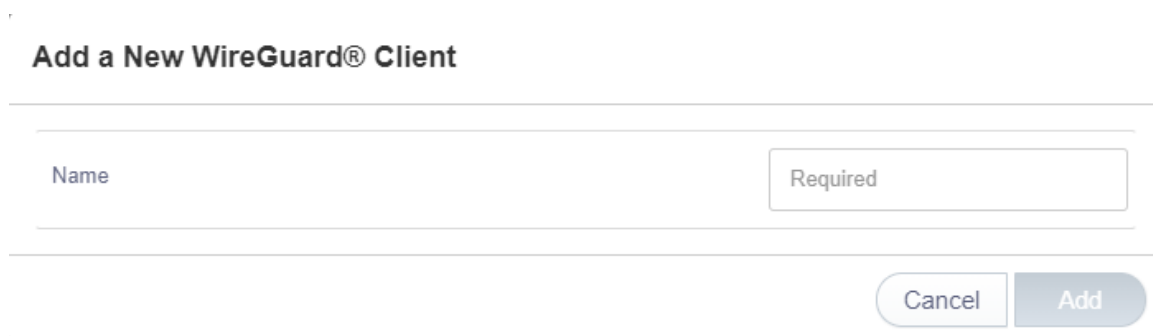
You have to add a new user and apply the configurations when you are connecting to this WireGuard server.

Click Management tab and then Create a New User.



The screenshot shows the 'WireGuard® Server' management interface. At the top, there are two tabs: 'Status' and 'Management', with 'Management' selected. Below the tabs is a table titled 'WireGuard® Clients'. The table has four columns: 'Name', 'Client IP', 'Configurations', and 'Delete'. The table is currently empty, displaying the message 'No data in the table'. Below the table is a teal button with a white plus sign and the text '+ Add a New User'.

Specify the **Name** of the new client and then click Add.



The screenshot shows the 'Add a New WireGuard® Client' form. The title is 'Add a New WireGuard® Client'. Below the title is a text input field with the label 'Name' and a 'Required' indicator. At the bottom right of the form are two buttons: 'Cancel' and 'Add'.

(3) Get the configuration details for your client

You can now check the list of the clients you added. You can Delete any unwanted client. Please click Configurations to find the configuration details which you need to use when you are setting up WireGuard client. We provide QRcode, Plain Text and JSON configurations currently.

- Please refer to WireGuard Official Website:
<https://www.wireguard.com/install/>

7.2.5. Visit Client's LAN Subnet

Visit Client's LAN Subnet from WireGuard Server LAN Subnet

- 1) Change WireGuard clients LAN IP to avoid IP confliction with Server
- 2) Modify Wireguard_Server Configuration

WinSCP or SSH into your the WireGuard Server (router) find and modify the file

`/etc/config/wireguard_server`

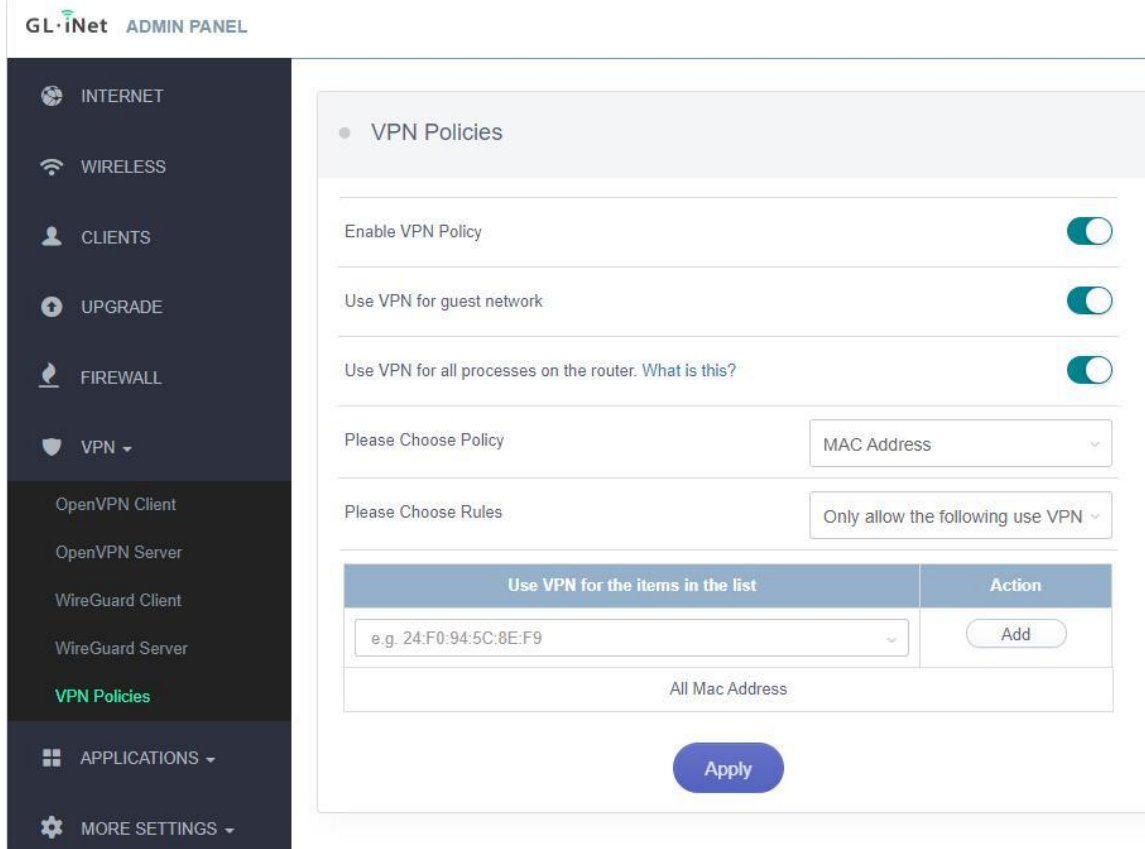
Add a line to the end of the config file of clients you want to visit.

```
list subnet '192.168.xxx.0/24'
```

Save and Exit

7.3. VPN Policies

Starting from firmware version 3.022, users can define VPN routing policies. For example, it is possible to use VPN for a specific website/IP while maintaining a normal Internet traffic without VPN for others.



7.3.1. Settings

Enable VPN Policy: Turn on/off VPN policies.

Use VPN for guest network: Turn on/off use VPN for guest network.

Use VPN for all process on the router: Generally, the traffic of all processes running on the router such as GoodCloud will be routed through VPN if there is a connected VPN client (e.g. WireGuard, OpenVPN, Shadowsocks). In this case, these processes will lose Internet if VPN is disconnected. In order to ensure a proper operation of these processes, you can disable this option. As a result, they will not use VPN.

Please Choose Policy: The item can be either **Domain/IP** (e.g. gl-inet.com / 192.168.1.1 / 192.168.1.0/24) or **Mac address** (24:F0:94:5C:8E:F9).

Enable VPN Policy

Use VPN for all processes on the router. What is this?

Please Choose Policy Domain/IP Based

7.3.2. Add VPN policy

You can only configure either **Only allow the following use VPN** or **Do not use VPN for the following**. Click the drop box to switch among **Only allow the following use VPN** and **Do not use VPN for the following**. To add a policy, enter the domain/IP or Mac address into the box and then click *Add*. Finally, click *Apply* to activate the policy.

For example, if we want to route only the traffic of *netflix.com* through VPN, we need to choose Policy **Domain/IP**, choose Rule **Only allow the following use VPN**, input *netflix.com* and click *Apply*.

Please Choose Policy Domain/IP

Please Choose Rules Only allow the following use VPN

Use VPN for the items in the list	Action
e.g. google.com 192.168.1.1 192.168.1.0/24	<input type="button" value="Add"/>
netflix.com	<input type="button" value="Delete"/>

If you want your Domain-based policy take effect immediatelly, you need to clear your DNS cache. [Help?](#)

However, if we want to route all traffic through VPN except *gl-inet.com*, we need to add *gl-inet.com* under **Do not use VPN for**.

Please Choose Policy Domain/IP ▾

Please Choose Rules Do not use VPN for the following ▾

Do not use VPN for the items in the list	Action
e.g. google.com 192.168.1.1 192.168.1.0/24	<input type="button" value="Add"/>
netflix.com	<input type="button" value="Delete"/>

If you want your Domain-based policy take effect immediately, you need to clear your DNS cache. [Help?](#)

7.3.3. Clear DNS cache

If you are using domain-based policy, it may not work unless you clear your DNS cache. Please follow the instructions below to clear your DNS cache.

Windows: Press **Win + R** and run **cmd**. Execute command `ipconfig /flushdns`.

MacOS: Open **Terminal** and execute command `sudo killall -HUP mDNSResponder`.

Ubuntu: Open **Terminal** and execute command `sudo service network-manager restart`.

You may also need to clear DNS cache in your browser.

Chrome: Visit <chrome://net-internals/#dns>. Click Clear host cache.

Firefox: Open Firefox and press **Ctrl + Shift + Delete**. Select **Time range** to **Everything** and check only **Cache**. Finally, click Clear Now.

8. APPLICATIONS

8.1. Plug-ins

Plug-ins allows you to manage OpenWrt packages. You can install or remove any package.

Remember to click Update whenever you access this packages repository.

● Plug-ins Update

Filter

A B C D E F G H I J K L M N O P Q R S T U V W X Y
Z

Name	Version	Action
464xlat	11	Install
6in4	25-1	Install
6rd	9-4	Install
6to4	12-2	Install
AdGuardHome	0.104.3-1	Install
ChinaDNS	1.3.2-8	Install
acl	20180121-1	Install
acme	2.7.8-3	Install

Free space: 69% (87 MB)

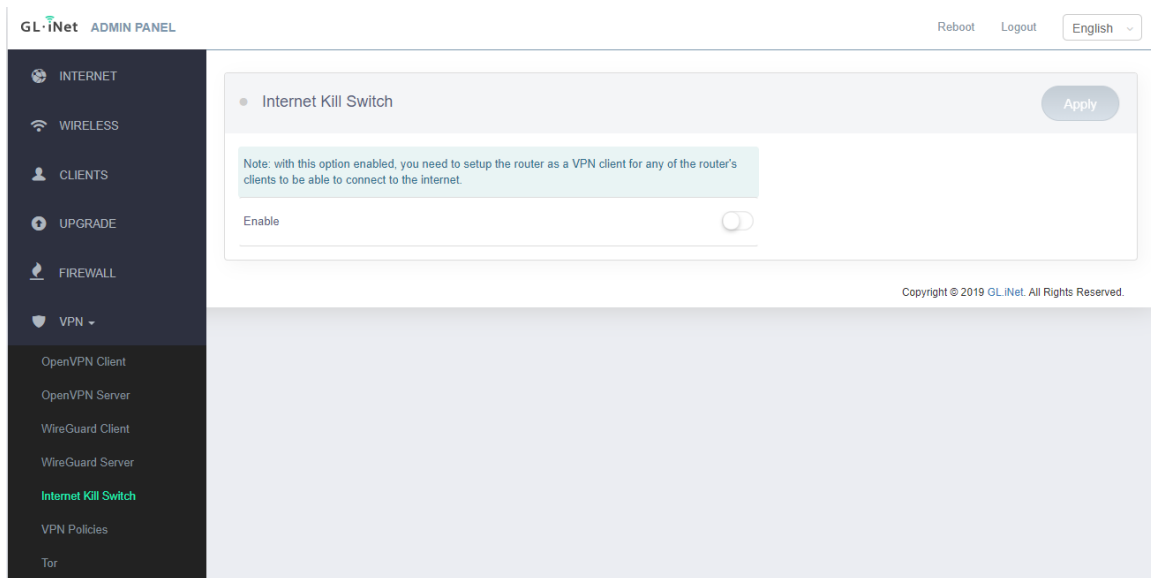
← 1 2 3 ... 660 661 →

8.2. Internet Kill Switch

Internet Kill Switch feature is built-in from firmware version 3.100, please upgrade.

Note: With this option enabled, you need to set up the router as a VPN client for any of the router's clients to be able to connect to the internet.

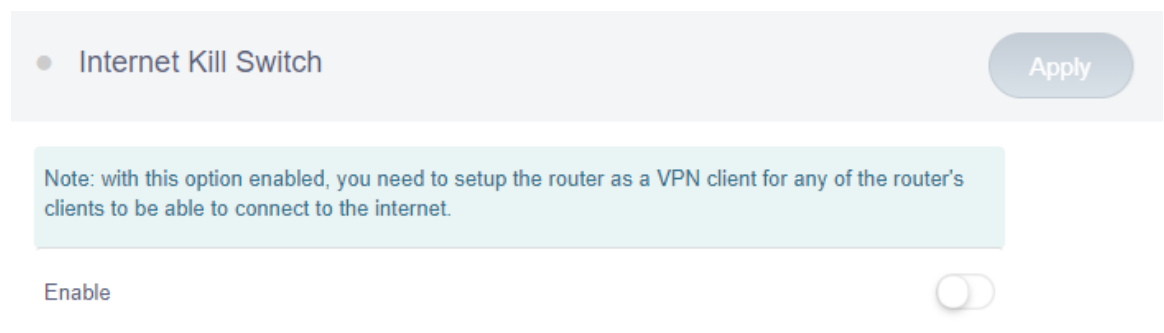
After this setting is on, the router needs to run the VPN client all the time, if the VPN client is not running, the clients are **Not Allowed** to access the Internet.



Setup

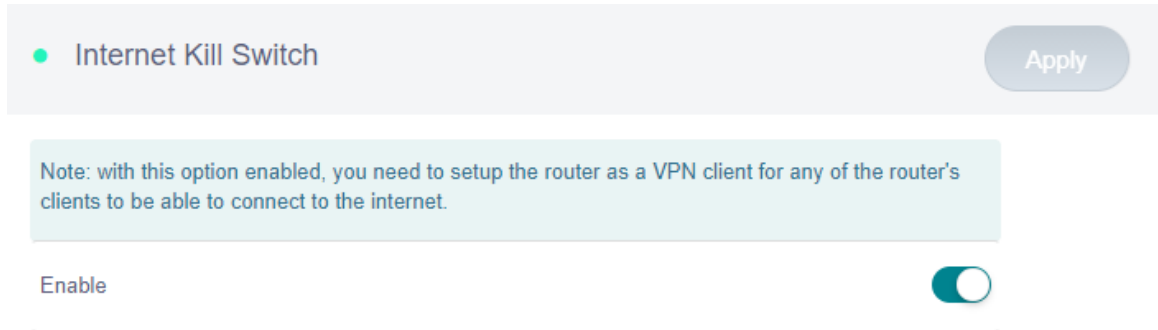
1) Choose "Internet Kill Switch".

Choose "Internet Kill Switch" from "VPN".



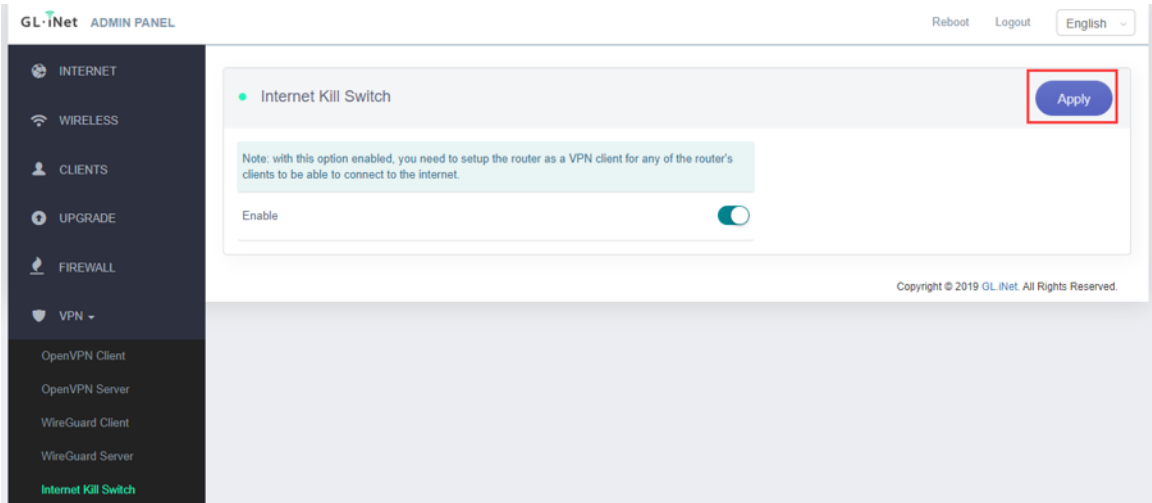
2) Enable "Internet Kill Switch".

Switch on the "Enable" button in the middle of the page.



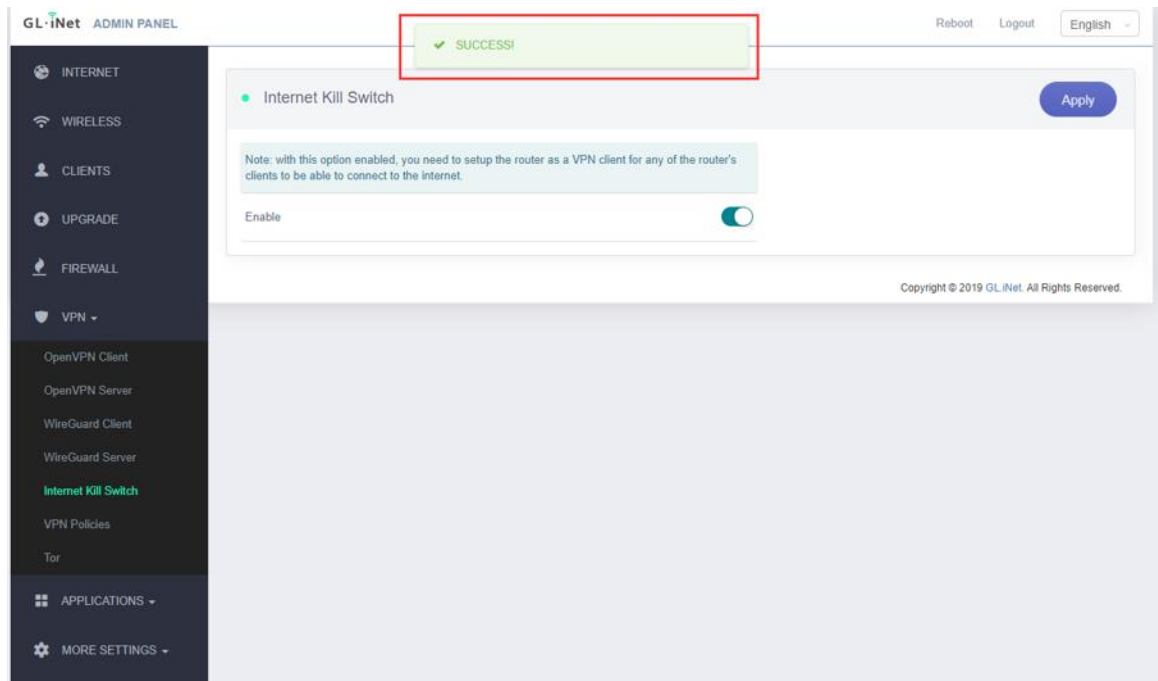
3) Apply "Internet Kill Switch".

Click "Apply" in the upper right corner.



4) Wait for the "Success" notice

The "SUCCESS!" Message will pop-up if the Internet Kill Switch turn on correctly.



8.3. File Sharing

You can use GL.iNet routers with external storage device such as USB stick, MicroSD card, etc, thus the contents can be shared among all your connected clients. You can easily read or modify its contents.

File Sharing

Share via LAN ⓘ

Share via WAN ⓘ

Writable ⓘ

Current Directory

Apply

8.3.1. Router settings

The contents of the external storage device are shared to LAN but not WAN and they are unwritable by default. Please click on your router model below to check how to change the file sharing settings of the router.

Multimedia File Sharing

You can enable this feature for multimedia file sharing.

Share via DLNA

Name

Current Directory

Apply

Supported external storage models

Router Model	USB Stick	USB Hard Drive	MicroSD Card	Internal Storage
GL-MT3000 (Beryl AX)	✓	✓	–	–
GL-AXT1800 (Slate AX)	✓	✓	✓	–
GL-A1300 (Slate Plus)	✓	✓	–	–
GL-MT2500/GL-MT2500A (Brume 2)	✓	✓	–	–
GL-SFT1200	✓	✓	–	–
GL-MT300N-V2 (Mango)	✓	✓	–	–
GL-AR150 Series	✓	✓	–	–
GL-AR300M Series	✓	✓	–	–
GL-USB150	–	–	–	–
GL-MiFi	✓	✓	✓	–
GL-AR750 (Creta)	✓	✓	✓	–

Router Model	USB Stick	USB Hard Drive	MicroSD Card	Internal Storage
GL-AR750S-EXT (Slate)	✓	✓	✓	–
GL-B1300 (Convexa-B)	✓	✓	–	–
GL-S1300 (Convexa-S)	✓	✓	–	–
GL-X750 (Spitz)	✓	✓	✓	–
GL-X1200 (Amarok)	✓	✓	✓	–
GL-E750 (Mudi)	✓	✓	✓	–
GL-MV1000 (Brume)	✓	✓	✓	–
GL-MV1000W (Brume-W)	✓	✓	✓	–
GL-MT1300 (Beryl)	✓	✓	✓	–
GL-XE300 (Puli)	✓	✓	✓	–
GL-AX1800 (Flint)	✓	✓	–	–
GL-AP1300 (Cirrus)	–	–	–	–
GL-B2200 (Velica)	–	–	–	✓

Router Model	USB Stick	USB Hard Drive	MicroSD Card	Internal Storage
GL-X300B (Collie)	-	-	-	-
GL-SF1200	-	-	-	-
microuter-N300	-	-	-	-
VIXMINI	-	-	-	-

Note: The power consumption of USB hard drive is quite high. You should use it with an external power supply. Otherwise, it may cause malfunction.

8.3.2. Access the storage device

You can access the contents of the external storage device from your computer or smart phone. Please check the following guidance for the using of file sharing among different operating systems.

General Notes

You may be able to access the share via `\\192.168.8.1\` or `smb://192.168.8.1/` or with GL-Samba instead of 192.168.8.1 (eg `\\GL-MT1300\GL-Samba\`) in your system's file explorer. Since sharing is enabled to the LAN by default (this includes both wired AND wireless clients) and maps a "bad user" to Guest, then even if they don't supply a username and password or an invalid one, ANYONE connected to your router can access the files in the share in Read-Only mode. If you enable Writable mode this applies to both Guests AND the default `root` user. If you enable write access, anybody can create or delete files and folders, if you disable write access, not even the `root` user can delete them via SMB (they can through the CLI though). We can hope that in a future revision there is a simple user management and that a named user (or `root`) can read and/or write while Guests

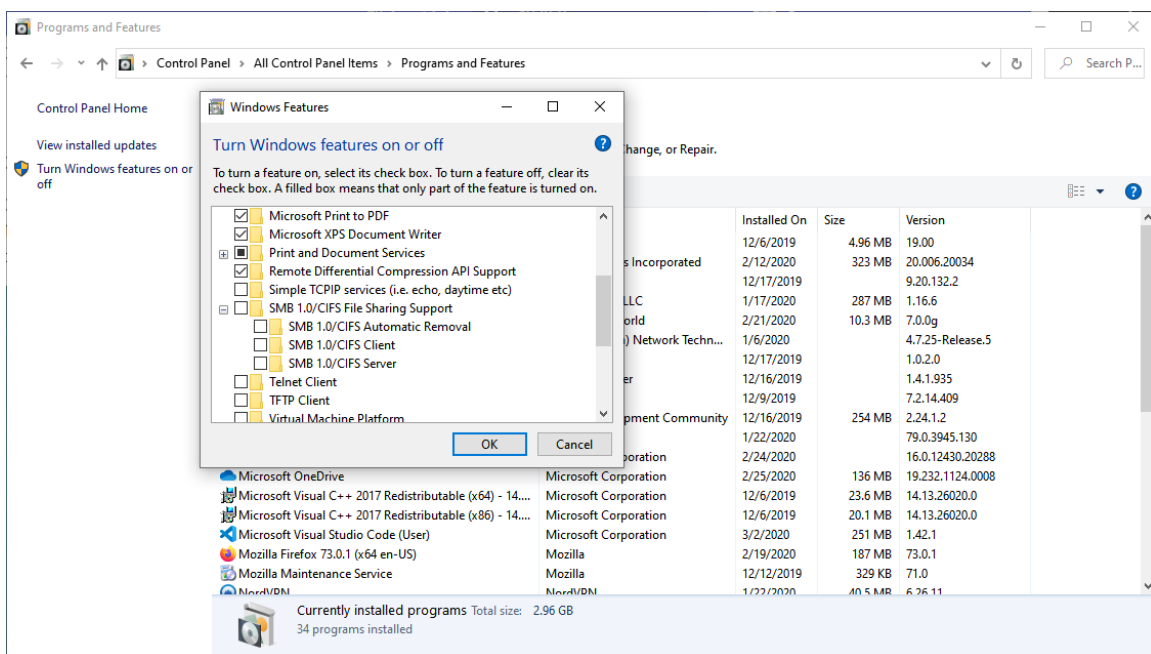
are limited by the Writable or a Public Write flag on a share (and having multiple shares would be great as well).

Windows

Method 1: Samba 2.0 (SMB2.0) Support

We suggest Samba 2.0 support for Windows 10 users.

Due to the security vulnerability of the Samba1.0 protocol, Samba1.0 is not enabled by default in Window 10. You may modify the router Samba configuration.



1). SSH into your router, you can gain control of both the router and the network that the router is controlling. You can refer to the following link: <https://docs.glinet.com/en/3/app/ssh/>

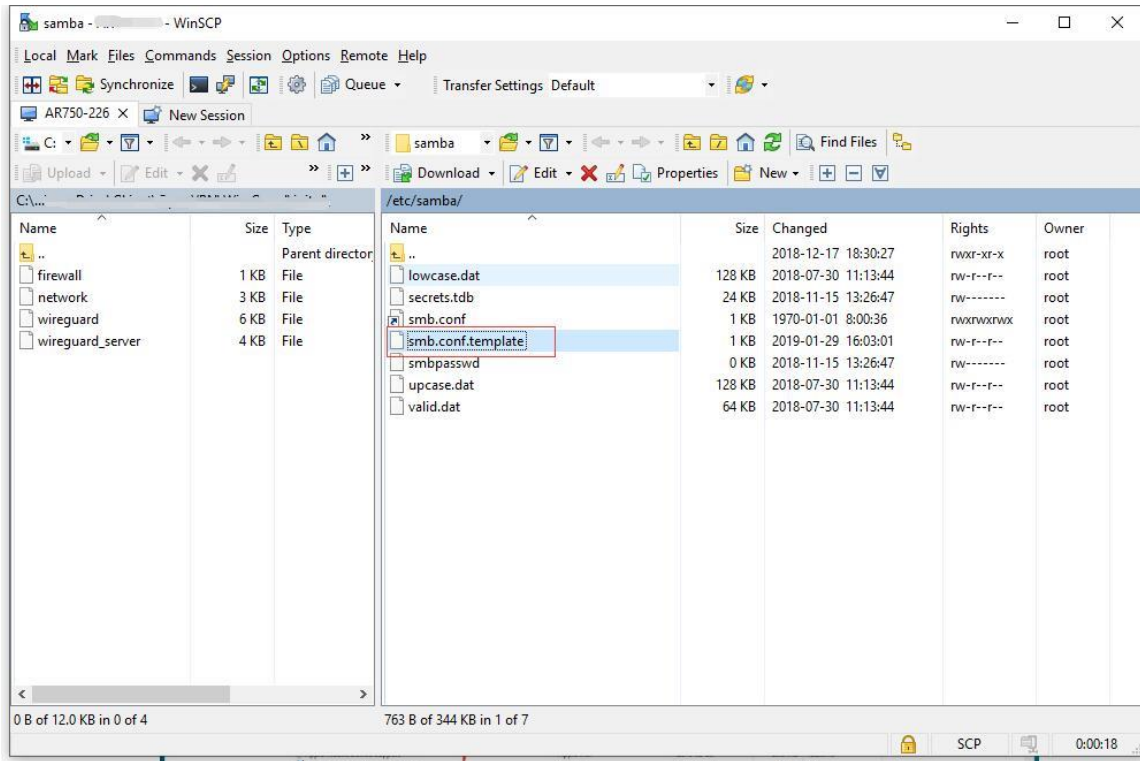
2). Modify the Samba configuration file, type the following command:

```
sed -i 's/security = share/security = user/' /etc/samba/smb.conf.template
```

3). Restart the Samba service, type the following command:

```
/etc/init.d/samba restart
```


3.0 firmware supports SMB2, and if you need SMB3, use [WinSCP to router](#), edit `/etc/samba/smb.conf.template`.



Change the "max protocol = SMB2" to

"min protocol = SMB1"

"max protocol = SMB3", then **save** and **exit** WinSCP.

```
[global]
2. Save
netbios name = |NAME|
display charset = |CHARSET|
interfaces = |INTERFACES|
server string = |DESCRIPTION|
unix charset = |CHARSET|
workgroup = |WORKGROUP|
browseable = yes
deadtime = 30
domain master = yes
encrypt passwords = true
enable core files = no
guest account = nobody
guest ok = yes
invalid users = root
local master = yes
load printers = no
map to guest = Bad User

max protocol = SMB2
min receivefile size = 16384
null passwords = yes
obey pam restrictions = yes
os level = 20
passdb backend = smbpasswd
preferred master = yes
printable = no
security = share
smb encrypt = disabled
smb passwd file = /etc/samba/smbpasswd
socket options = TCP_NODELAY IPTOS_LOWDELAY
syslog = 2
use sendfile = yes
writeable = yes

1. Change max protocol = SMB2 to:
min protocol = SMB1
max protocol = SMB3
```

Line: 20/34 Column: 28 Encoding: 65001 (UTF-8) Modified

If you are using Windows 10, you also need to enable SMB 1.0.

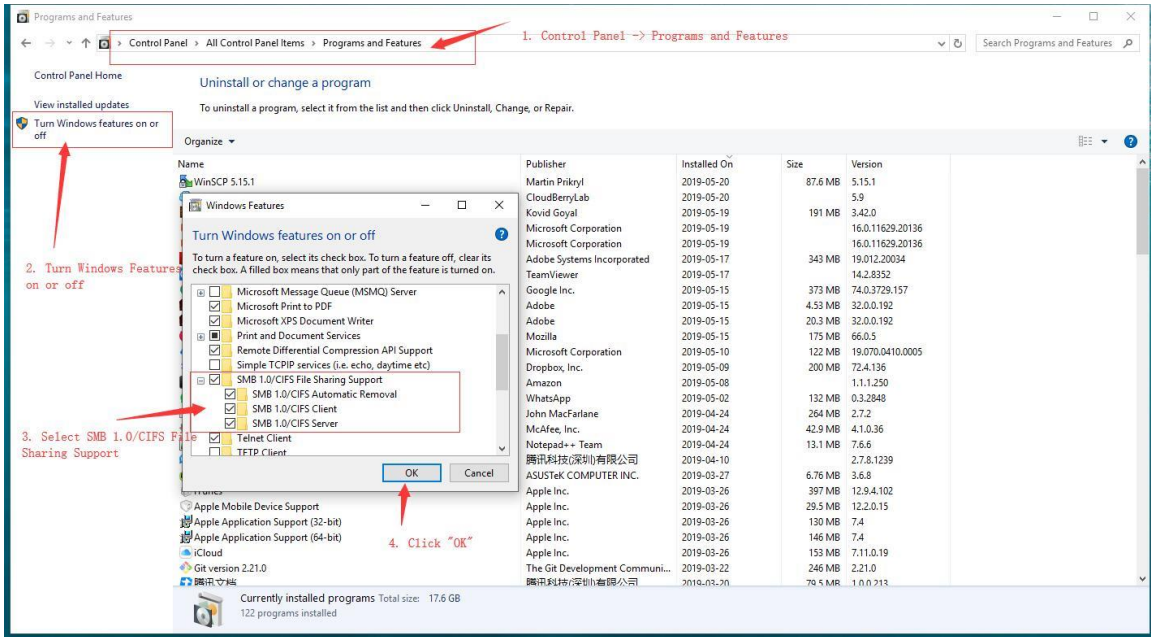
- Windows 7

Go to Control panel -> Network and Internet -> Network and Sharing Center. Find if your active network is **Home network**. If not, click it and change it to **Home network**.

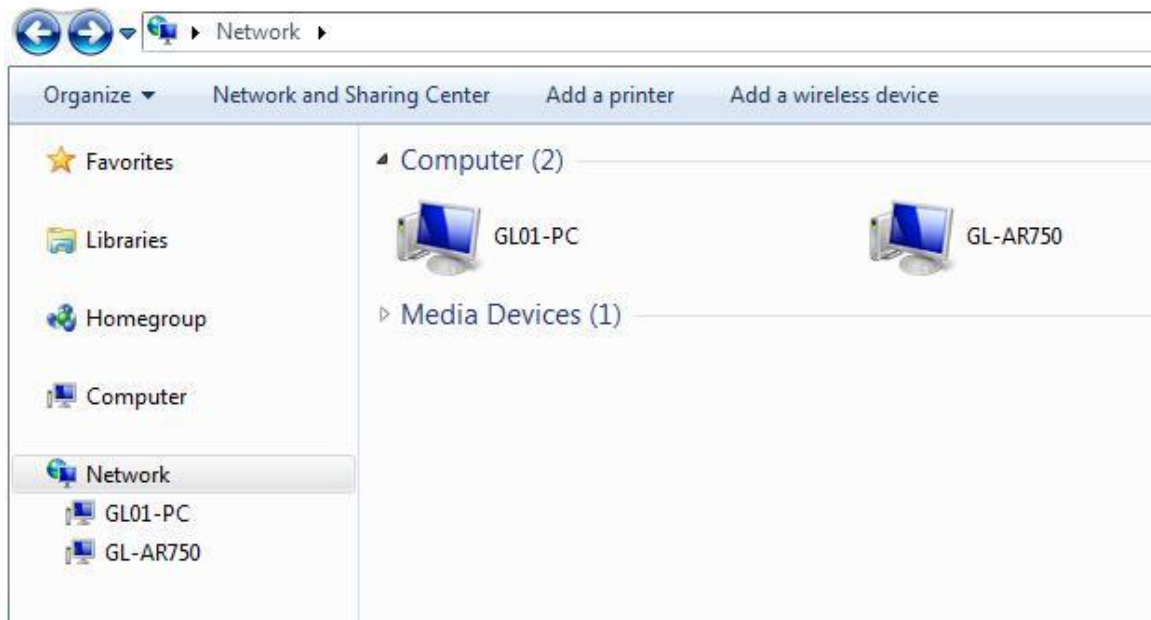
- Windows 10

Change your network to private by this [tutorial](#).

Go to Control Panel -> Programs and Features -> Turn Windows features on or off -> Find SMB 1.0/CIFS file sharing support, check all SMB1 related items, click apply and restart your computer.



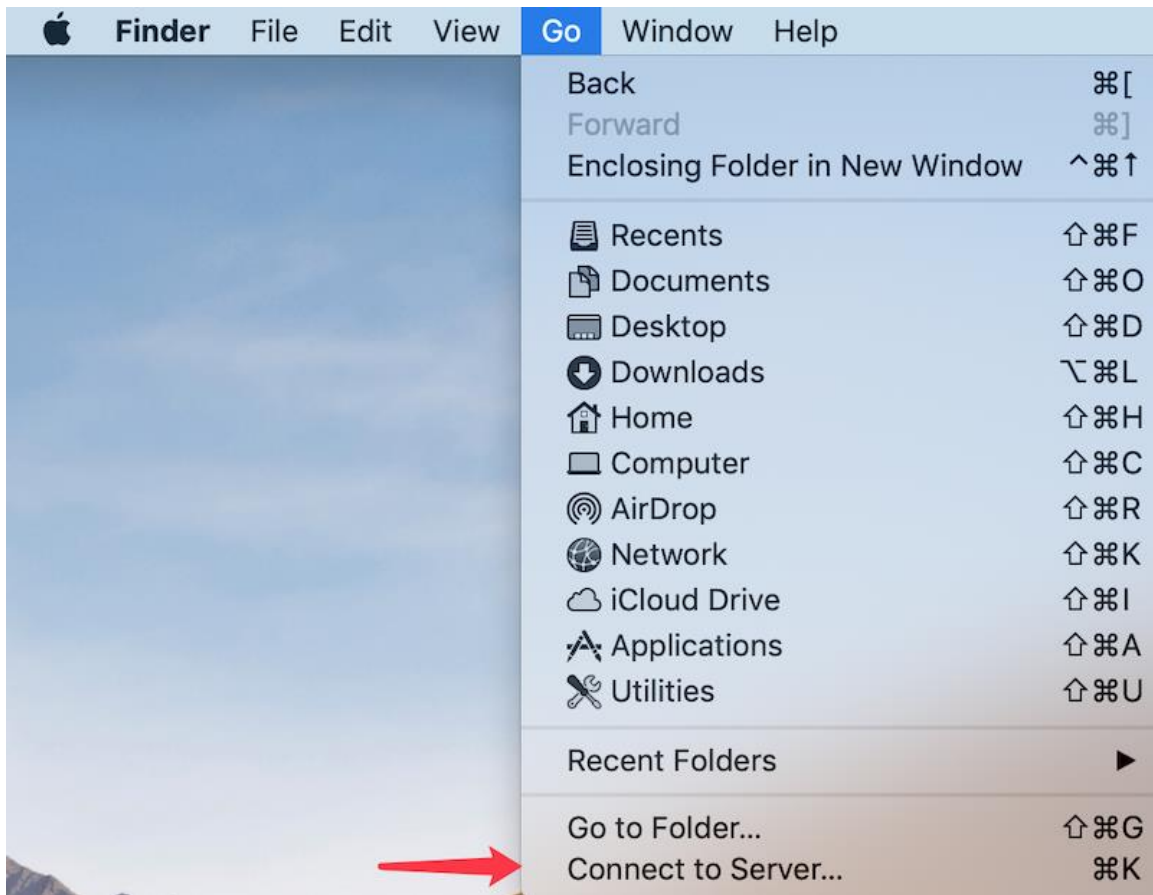
2) Open a Windows explorer, you can find **Network** in the folder directory. Double click your router to access its contents.



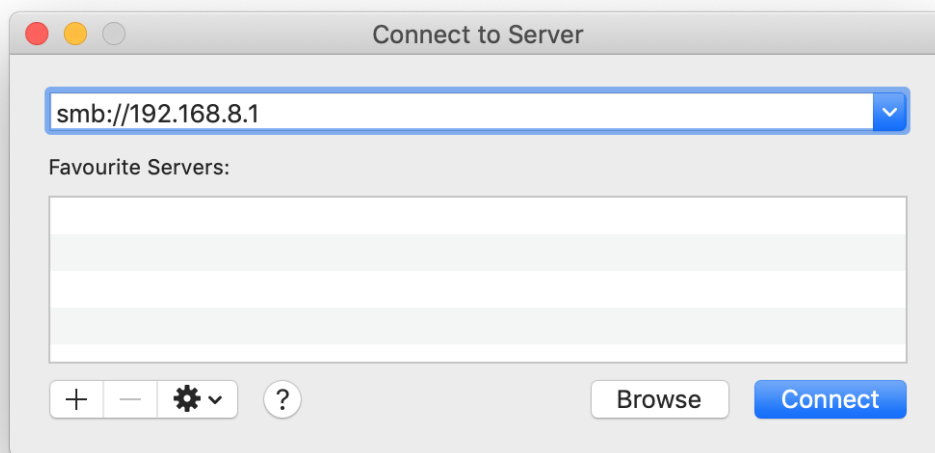
Mac OS

Method 1

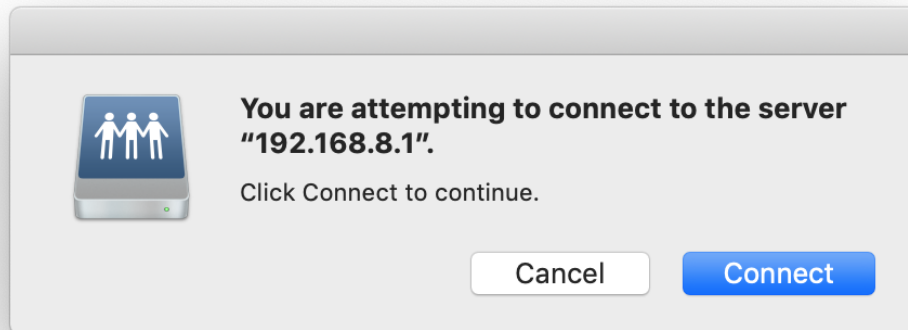
1) Open Finder, Menu -> Go -> Connect to Server...



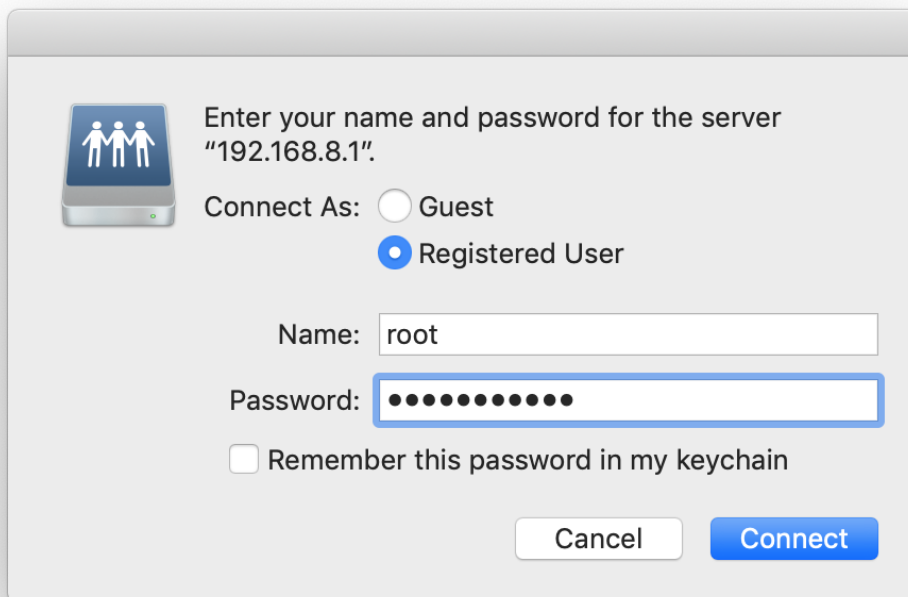
2) Input `smb://192.168.8.1`, you need to change this if your router IP address is not 192.168.8.1



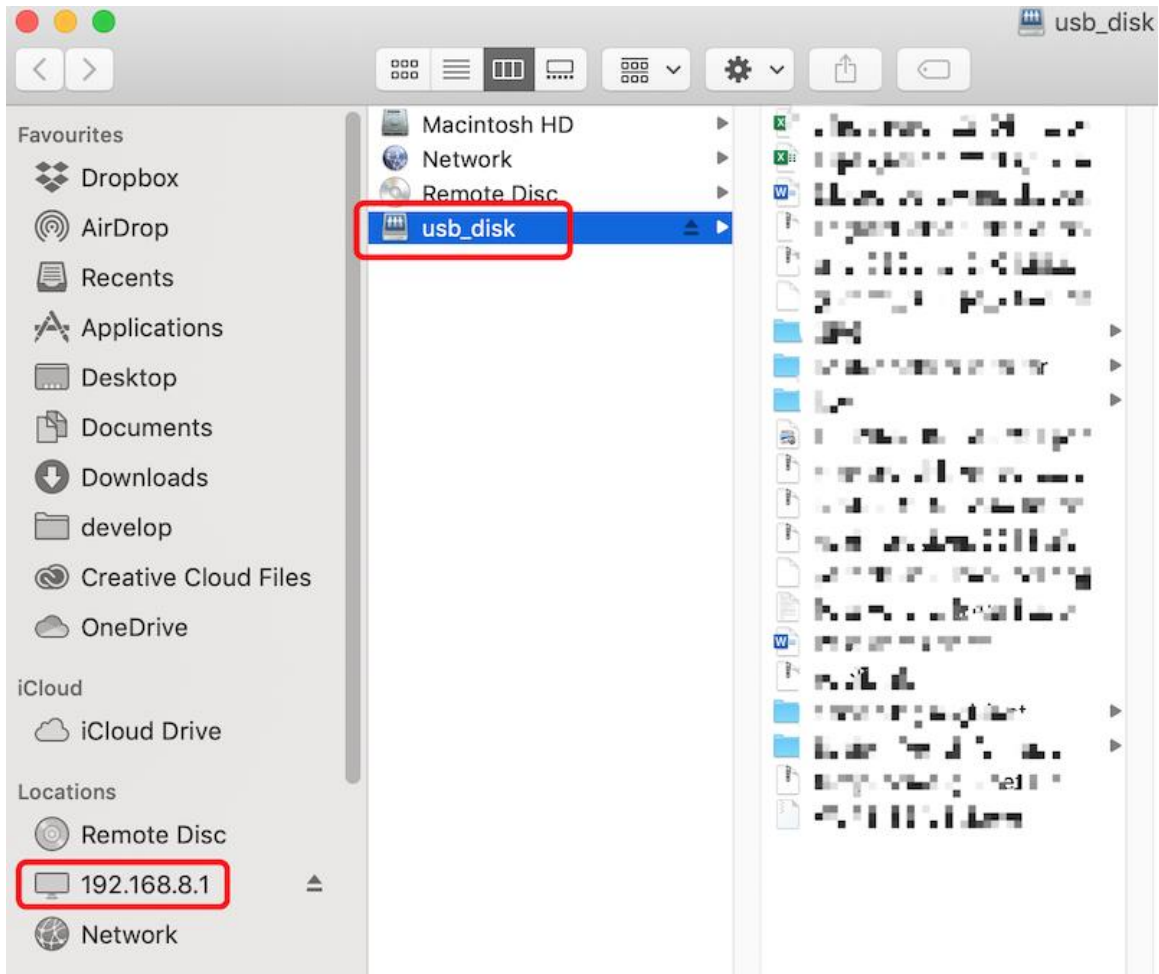
3) Click Connect.



4) Input username and password, they are the same when you login Web Admin Panel.



5) Then Finder will display files of USB disk.



Method 2

1) Go to System Preferences -> Sharing -> File sharing. Click Options and then enable SMB.

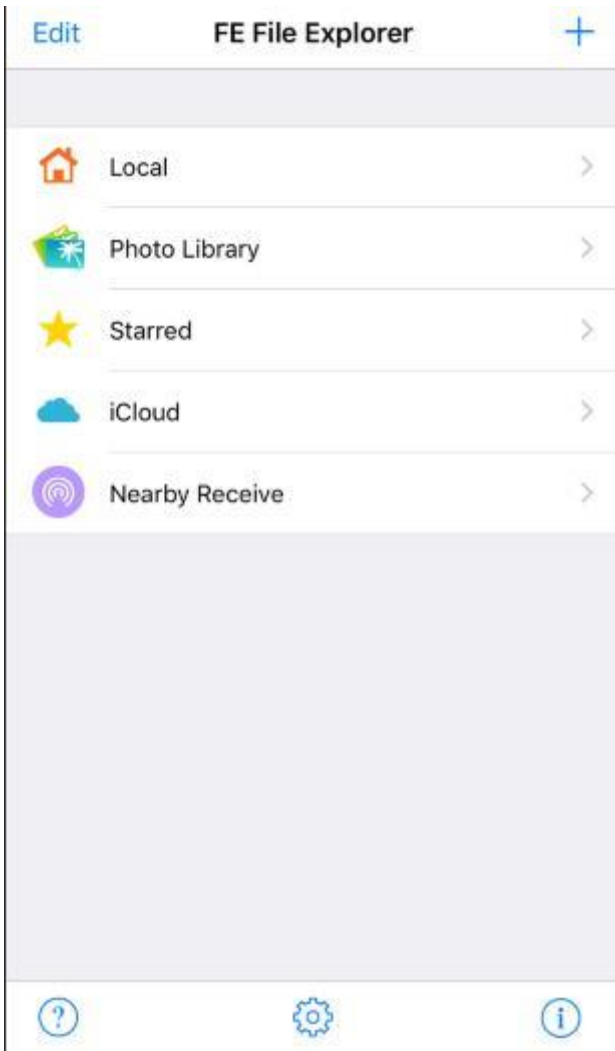
2) Open Finder. You should be able to find your router under Shared.

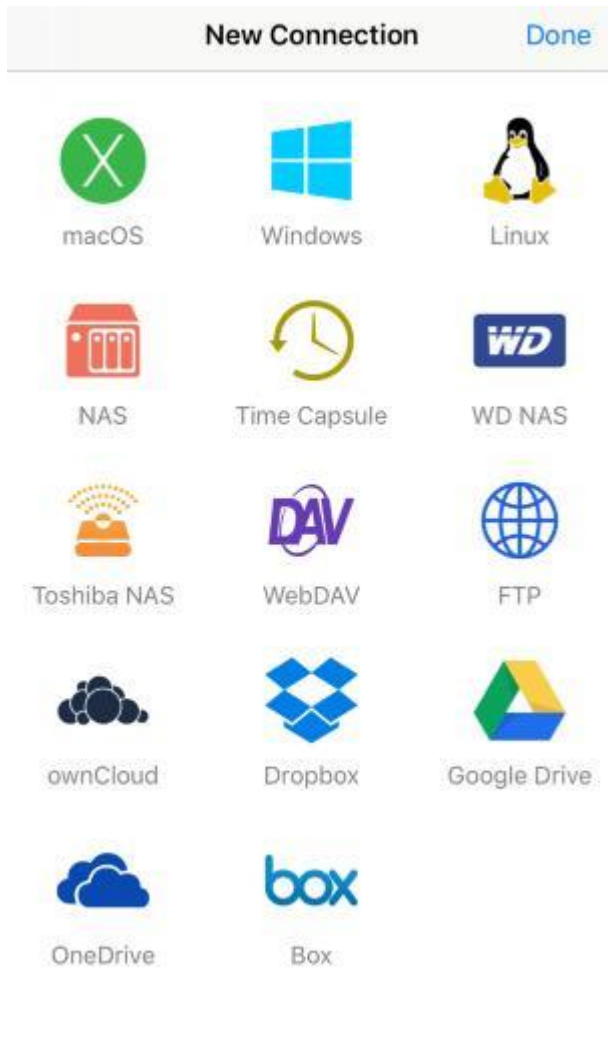
iOS

You have to use file manage app to access the contents of your external storage device.

You may use **FE File Explorer**:

1) Click + to create a Windows connection.





2) Enter the **IP address** of your router (192.168.8.1). The **User Name** is root and the **Password** is the one that you use to login the web Admin Panel. Finally, click Save.

[← New Connection](#)
[Save](#)

CONNECTION

Display Name Optional

Host Name/IP 192.168.8.1

DNS Domain Optional

Path Optional

Port 445

Show Hidden Files

Show Admin Shares

Support DFS

CONNECT AS

User Name root

Password ●●●●●●

If you try to access network share in domain, please input 'Domain\User' or 'User@Domain' in User Name

3) Click your newly created connection to access the contents.



Linux

If you are using Linux you are probably comfortable with connecting to servers, and how to do this can vary greatly from distribution to distribution and largely depends on your window manager/display environment. Most systems come with Gnome and it is the default on the very popular Ubuntu distribution, so we'll give an example using the Files tool (also called Nautilus). If you open the app you should have a "Connect to server" option, there you can enter either the `\\servername\share` or `smb://servername/share` format.

ChromeOS or ChromiumOS (Neverware CloudReady and others)

There is a built in Samba/SMB client in the Files app, but it doesn't really seem to work very well. Instead the most useful ChromeOS app to allow mounting Samba shares even though it doesn't have high ratings is "File System for Windows". It is open source and works far better than the built in version.

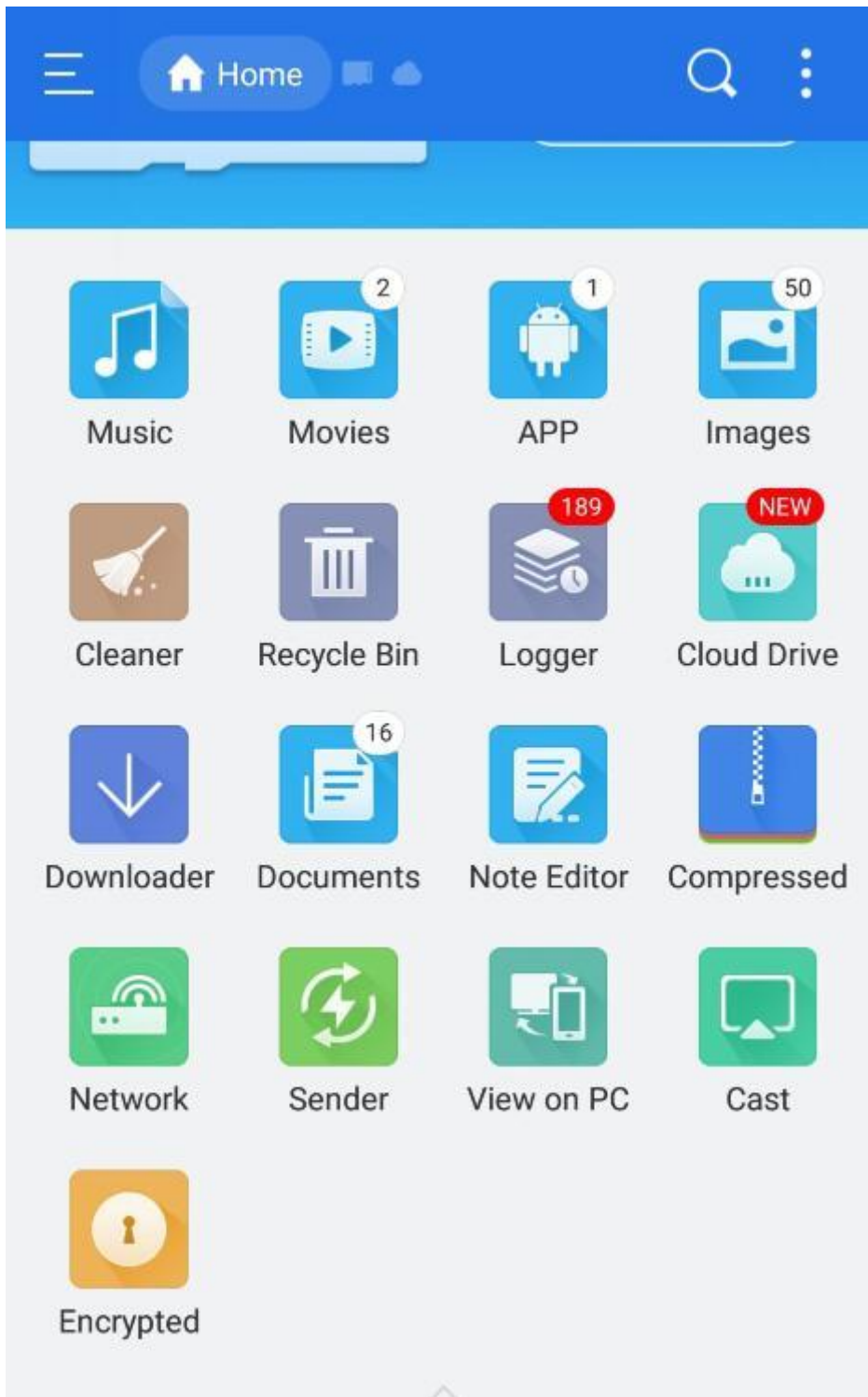
<https://chrome.google.com/webstore/detail/file-system-for-windows/mfhnnfciefdpolbelmfkpmhhmlkehbd/related?hl=en>

Once you have installed the app you can launch it from that page, and if you want to access it again in the future, in the Files app if you go to the 3 dot menu at the top right and "Add new service" you then select "File System for Windows" from the list and it will give you the dialog to fill out with the server name and some other details, but only the server name/IP and share name are required. You can click the gear icon to enable saving the password for a share indefinitely, and you can click the "Keep" button to save the share to easily mount again in the future.

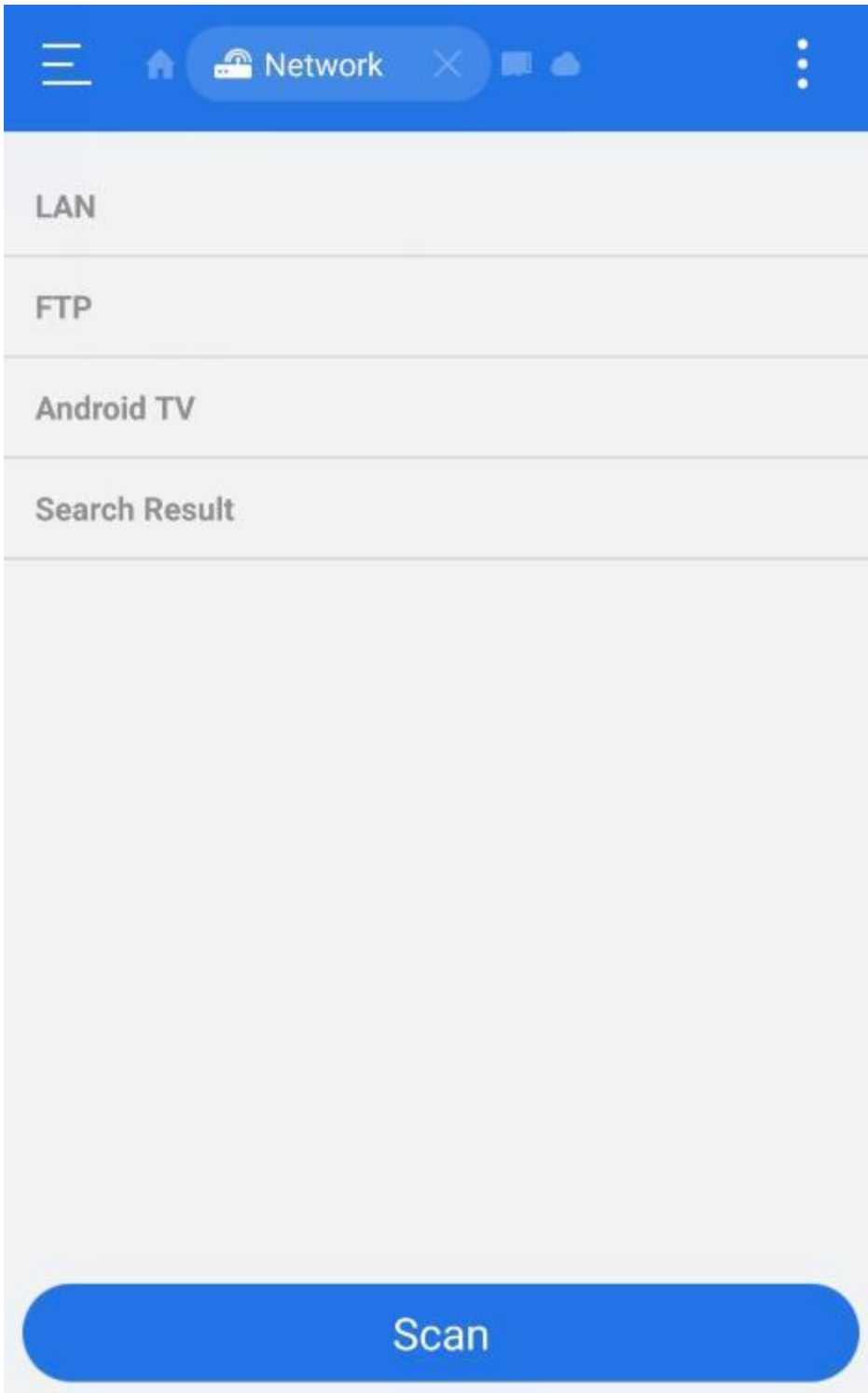
Android

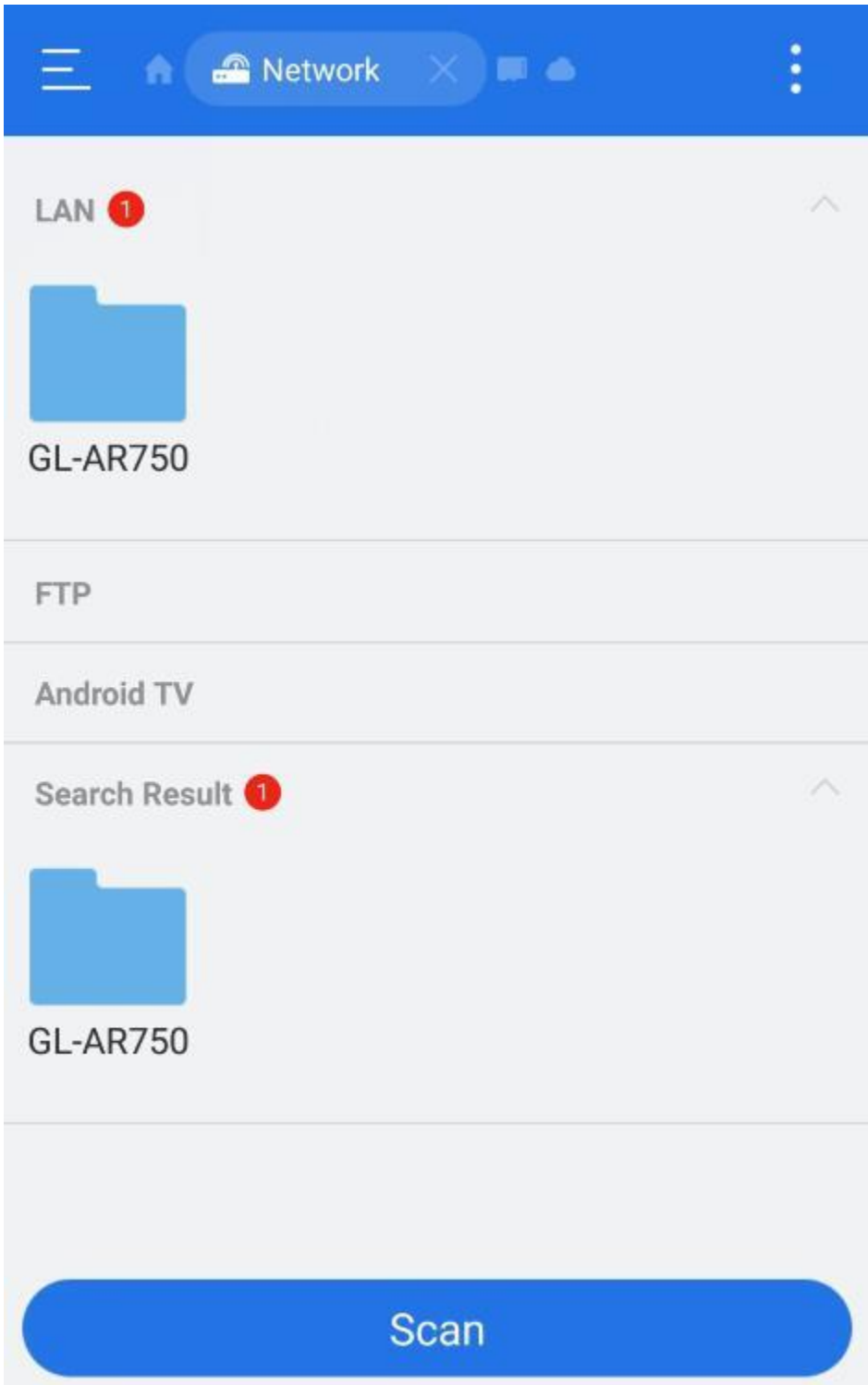
Most Android devices have file manager which you can use to access the contents of your external storage device. Or you can use **ES file explorer**:

- 1) Open the app and then click `Network`.



2) Click Scan to find your network storage device.





8.4. DLNA Server

Some of GL.iNet routers support DLNA Server, but this is not a default function. You need to install a little plug-ins to make it workable.

Supporting List: GL-AR750S-Ext, GL-AR750, GL-MT1300, GL-MT300N-V2, GL-AR300M series, GL-AR150 series, GL-MiFi and GL-X750

8.4.1. Install Plug-ins

Go to **APPLICATIONS**, then **Plug-ins**. Install two apps:

1. luci-app-minidlna
2. miniDLNA

The screenshot shows the GL.iNet Admin Panel interface. The sidebar on the left has 'APPLICATIONS' expanded, with 'Plug-ins' selected. The main content area shows a search filter with 'minidlna' entered. Below the filter is a table of available packages. The first package, 'luci-app-minidlna', is highlighted, and its 'Install' button is also highlighted. Red arrows and text annotations provide step-by-step instructions: '1. Go to Applications -> Plug-ins' points to the sidebar, '2. Click "Update"' points to an 'Update' button, '3. Input minidlna' points to the search filter, and '4. Install the package' points to the 'Install' button of the selected package.

Name	Version	Description	Action
luci-app-minidlna	git-18.196.56128-911219...	LuCI Support for miniDLNA	Install
luci-i18n-minidlna-ca	git-18.196.56128-911219...	Translation for luci-app-minidlna Català (Catalan)	Install
luci-i18n-minidlna-cs	git-18.196.56128-911219...	Translation for luci-app-minidlna Čeština (Czech)	Install
luci-i18n-minidlna-de	git-18.196.56128-911219...	Translation for luci-app-minidlna Deutsch (German)	Install
luci-i18n-minidlna-el	git-18.196.56128-911219...	Translation for luci-app-minidlna Ελληνικά (Greek)	Install
luci-i18n-minidlna-en	git-18.196.56128-911219...	Translation for luci-app-minidlna English	Install
luci-i18n-minidlna-es	git-18.196.56128-911219...	Translation for luci-app-minidlna Español (Spanish)	Install
luci-i18n-minidlna-fr	git-18.196.56128-911219...	Translation for luci-app-minidlna Français (French)	Install

GL.iNet ADMIN PANEL Reboot Logout English

- INTERNET
- WIRELESS
- CLIENTS
- UPGRADE
- FIREWALL
- VPN
- APPLICATIONS
- Plug-ins
- File Sharing
- Remote Access
- Portal
- MORE SETTINGS

Plug-ins
Update

Filter

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z

Name	Version	Description	Action
luci-18n-minidlna-zh-cn	git-18.196.56128-911219...	Translation for luci-app-minidlna 中文 (Chinese)	Install
luci-18n-minidlna-zh-tw	git-18.196.56128-911219...	Translation for luci-app-minidlna 臺灣華語 (Taiwanese)	Install
minidlna	1.2.1-3	MiniDLNA (aka ReadyDLNA) is server software with the aim of being fully com...	Install

←
1
2
4
→
Go

Go to last page and install minidlna

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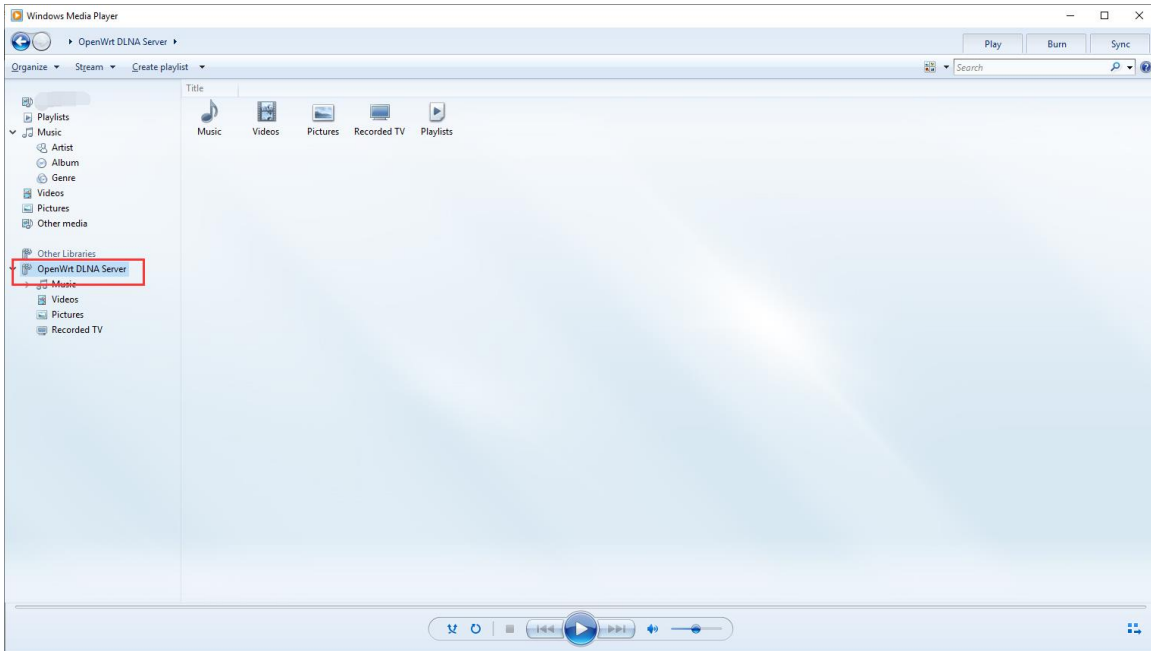
8.4.2. Use the DLNA server in GL.iNet Routers

After Installation of two applications, you can now use your GL.iNet router as as DLNA server.

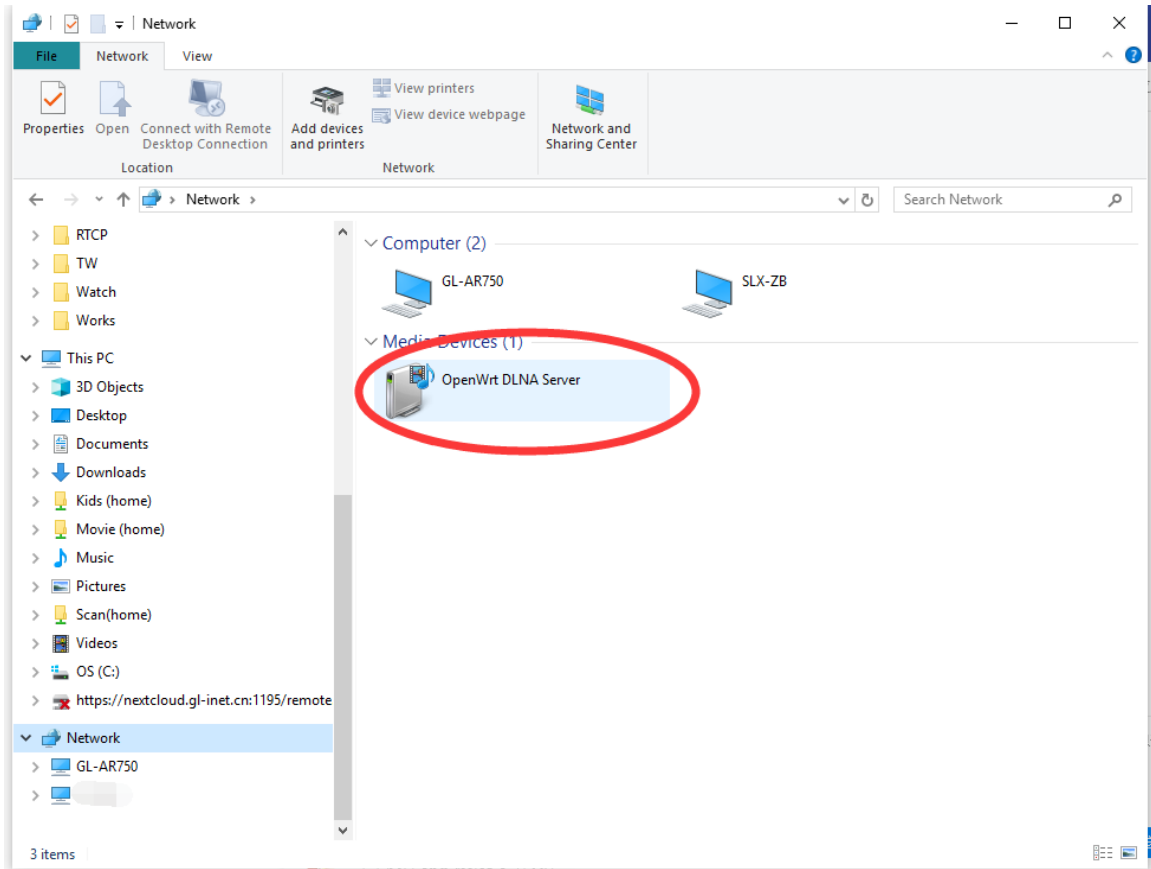
1. Make suer you already has a TF card inserted into the card slot before you power up your router. *Hot-plug* is not supported on GL.iNET routers.
2. Or you can insert an USB drive into the USB port.
3. Connnet your PC, Laptop, tablet, smart TV or Smartphone to GL.iNET router's WiFi(SSID). Here is the sample: GL-MT1300-xxx
4. Then you can find the **OpenWrt DLNA Server** in your devices.

Take Windows as example:

In Windows Media
Player:

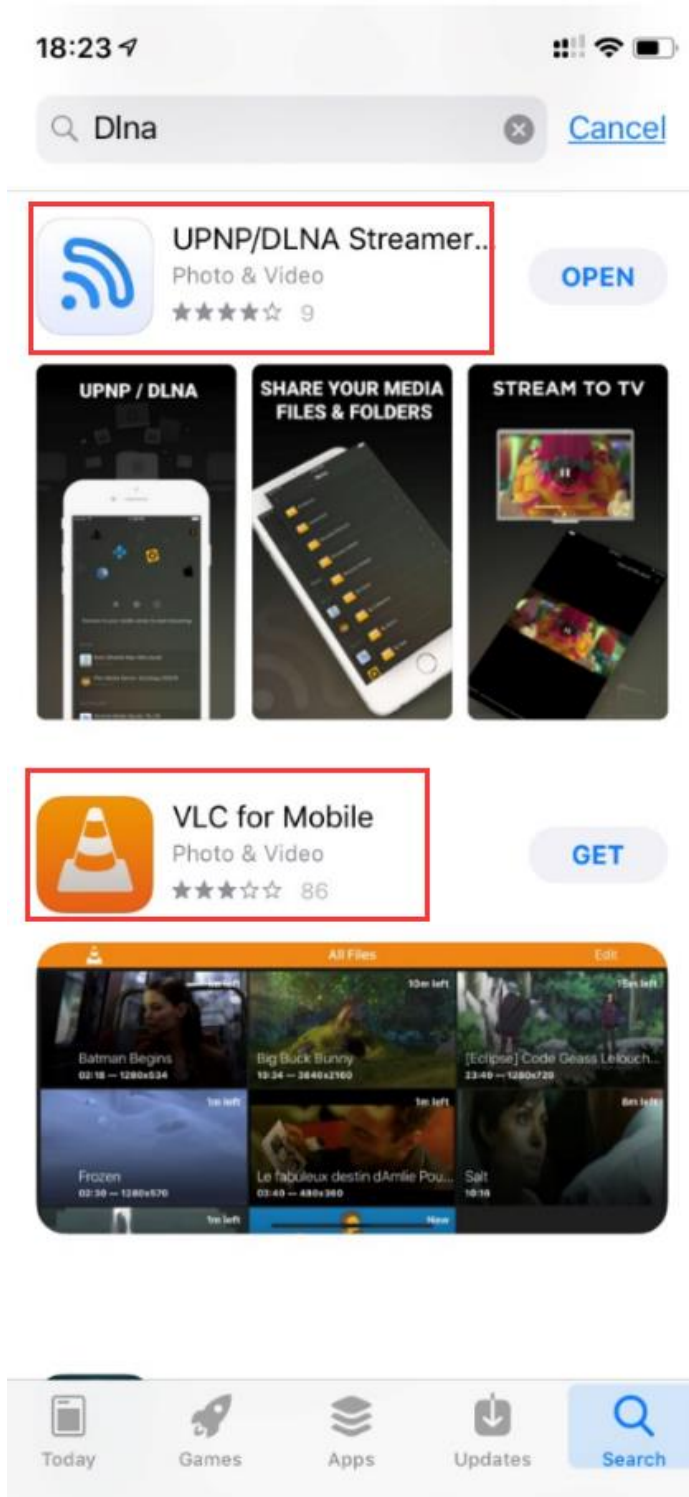


In Windows File Explorer ->
Network



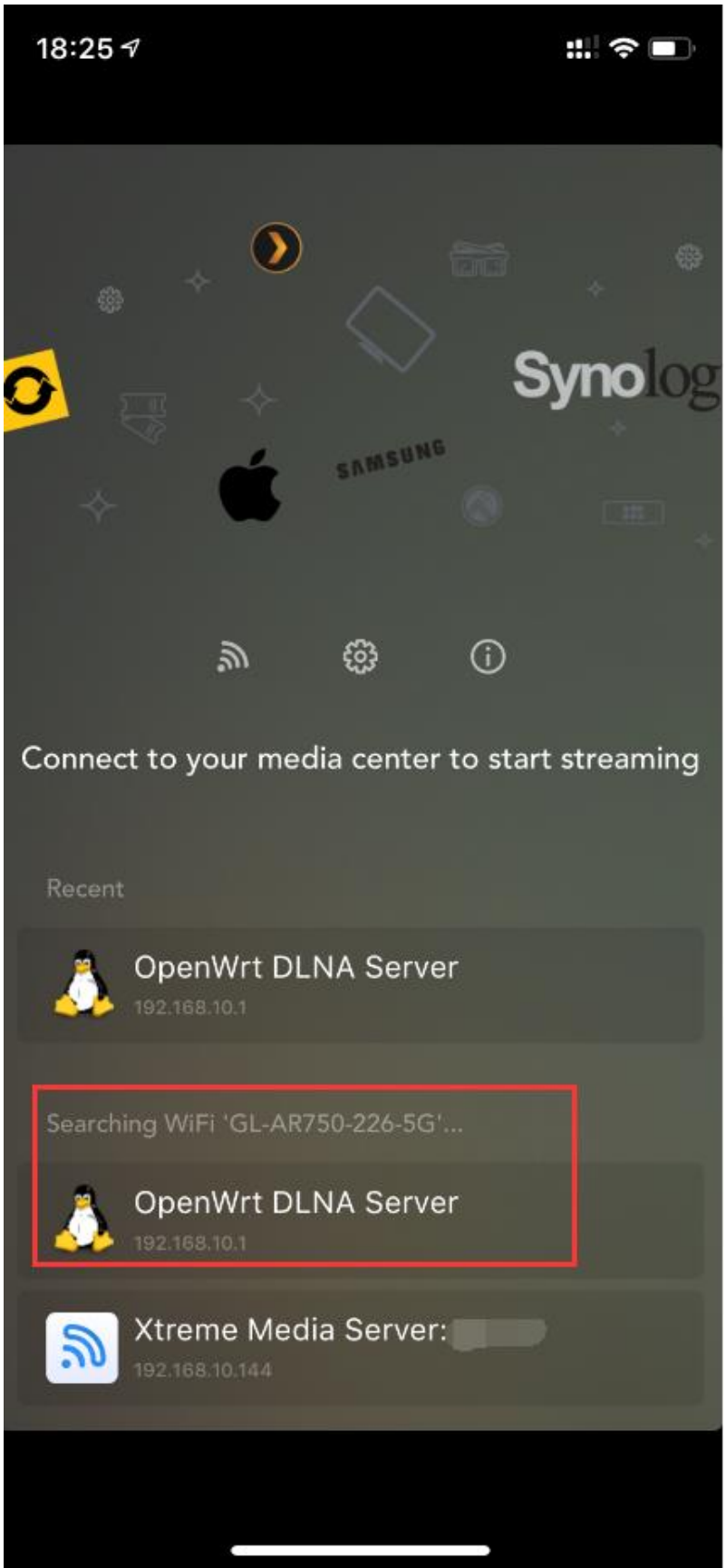
IOS: Install VLC or UPNP Extreme in App Store:

You can easily find the OpenWrt DLNA Sever in UPNP: UPNP Extreme and VLC Installation | UPNP Setup:

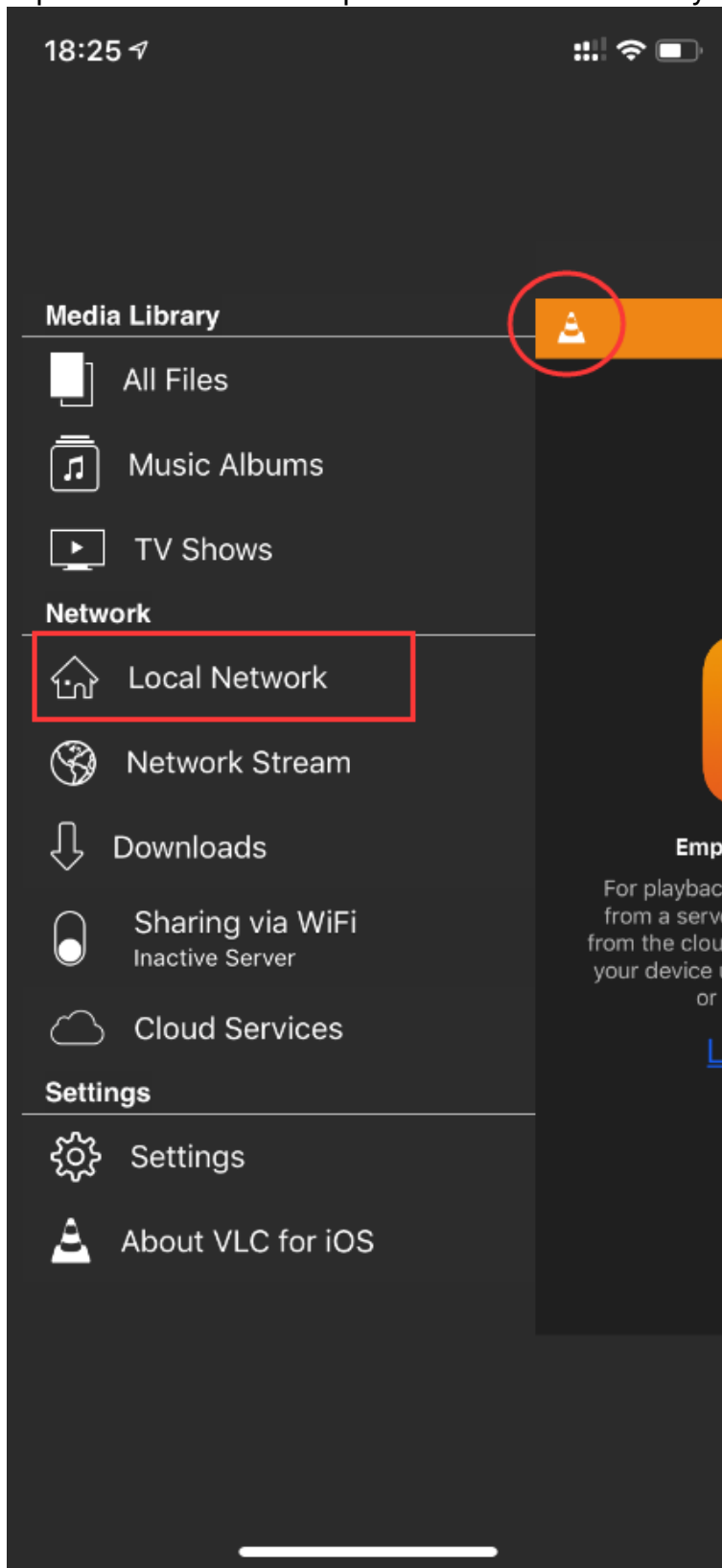


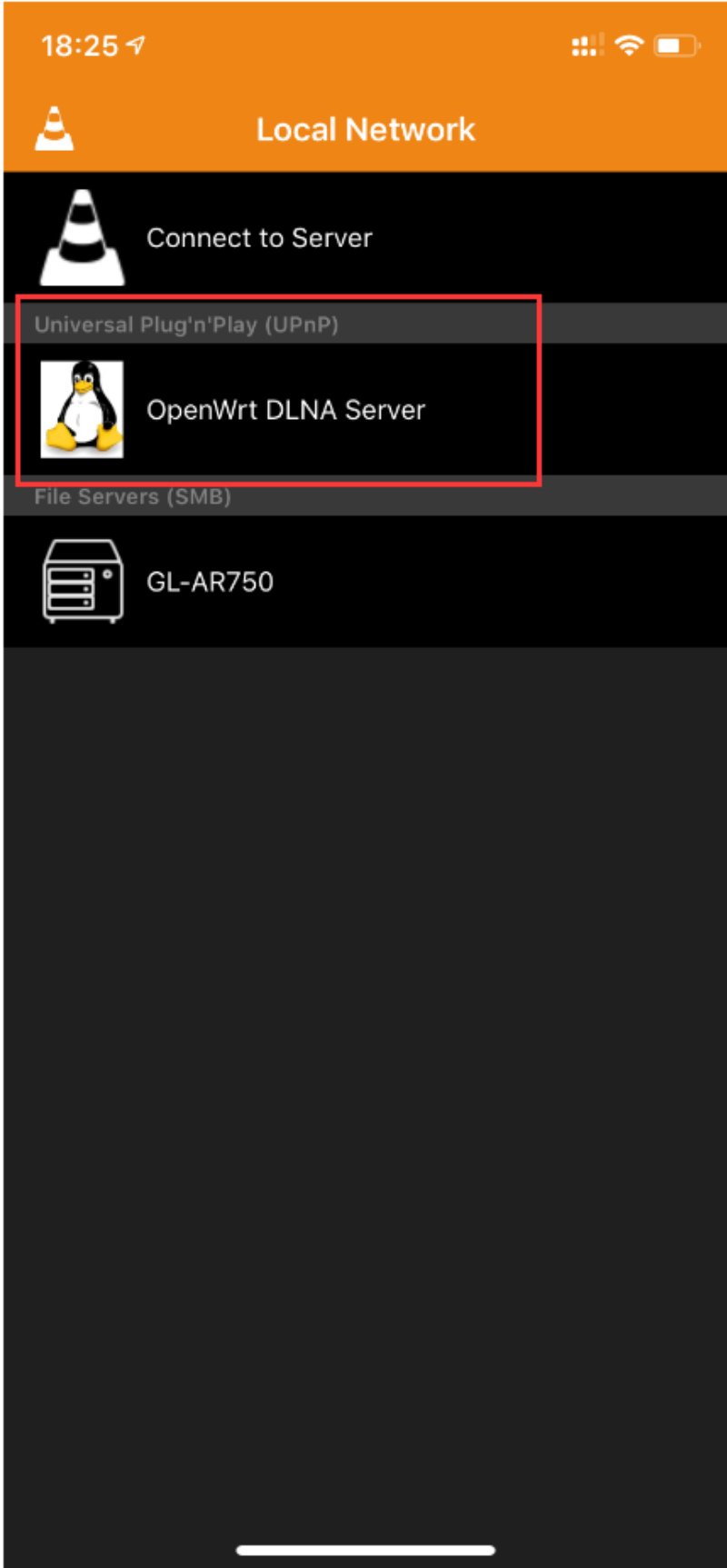
VLC Setup:

Step 1: Click the **Traffic Cones** Logo on the left top, select Local Network



Step 2: You can find the OpenWrt DLNA Server easily in Local Network.





Also other devices can easily find the OpenWrt DLNA Server easily.

Enjoy your media DLNA Server by GL.iNET routers.

8.5. DDNS

Dynamic Domain Name Service (DDNS) is a service used to map a domain name to the dynamic IP address of a network device.

Setup

DDNS requires firmware v3.010 or higher.

Download firmware file

Open this website to download the latest firmware https://docs.gl-inet.com/en/3/release_notes/

Local upgrade

Open a web browser (we recommend Chrome) to access router Web Admin Panel(default url is <http://192.168.8.1>).

At the left side, UPGRADE -> Local Upgrade, select the firmware file you have downloaded, you can turn off "Keep Settings" for a clean install and more stable, click "Install" button. It takes several minutes to install.

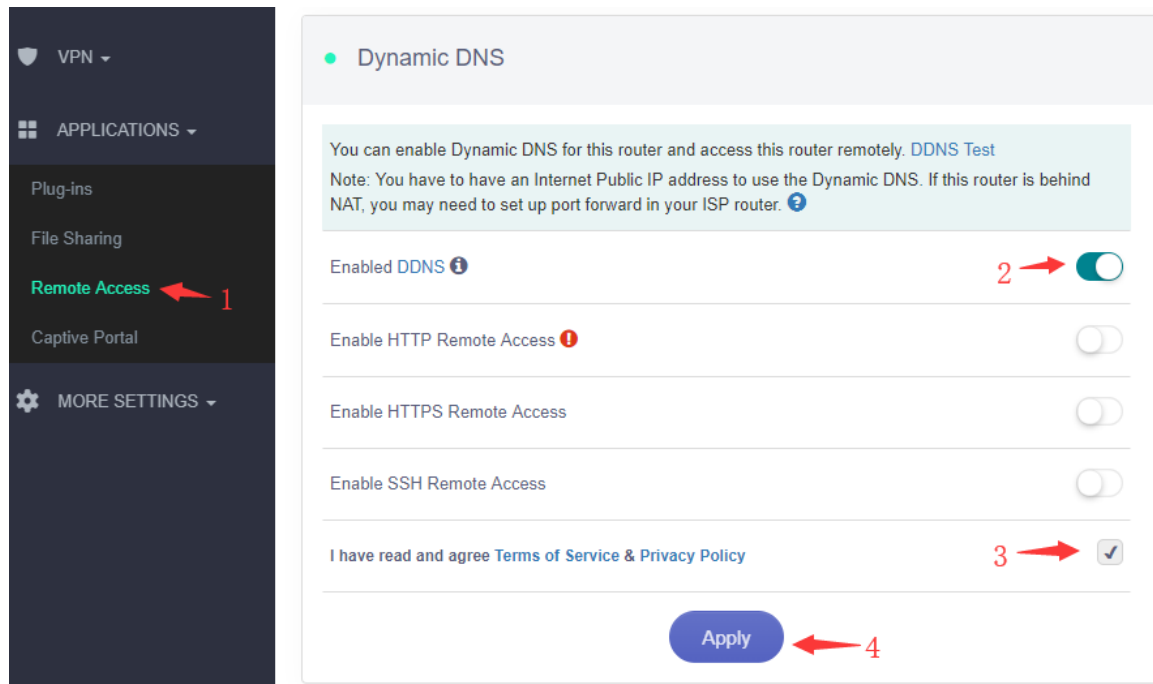
1) Install gl-cloud-ui plug

(If your firmware version is equal or greater than v3.021, please jump to [Step 2](#))

The screenshot shows the router's admin interface. On the left sidebar, the 'Plug-ins' menu item is highlighted with a red arrow and the number 1. In the main content area, the 'Plug-ins' section is active, showing a search filter for 'gl-cl' and a table of installed plug-ins. The 'gl-cloud-ui' plug-in is listed with version 3.0.7-1 and a description indicating it needs to be upgraded to 3.0.09. The 'Install' button for this plug-in is highlighted with a red arrow and the number 3. Additionally, the 'Update' button in the top right corner of the Plug-ins section is highlighted with a red arrow and the number 2.

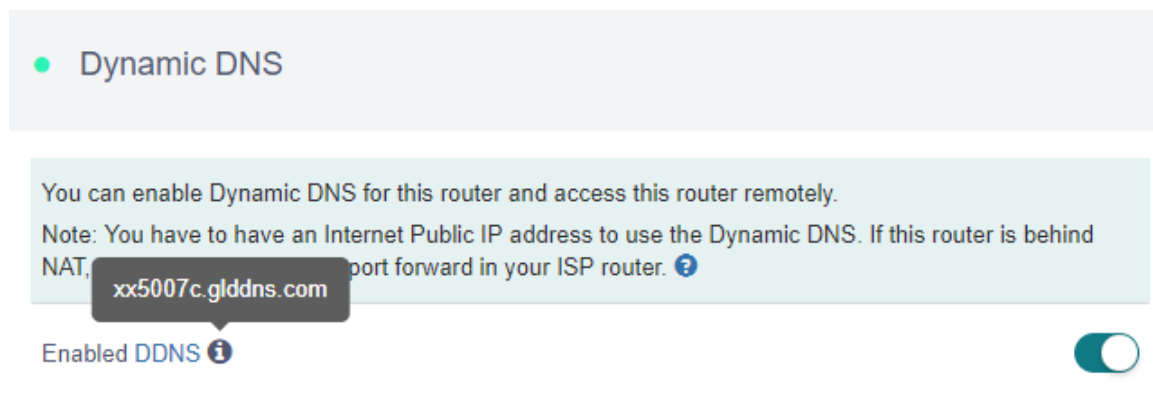
Access to router Admin Panel (default is <http://192.168.8.1>), at the left sidebar, APPLICATIONS -> Plug-ins, click "Update" button to update Plug-ins, then input "gl-cloud-ui" and click "Install" button. After installation, press "F5" to refresh Admin Panel, a new item "Remote Access" will appear inside APPLICATIONS.

2) Enable DDNS



At the left sidebar, APPLICATIONS -> Remote Access, toggle "Enabled DDNS", agree Terms of Services & Privacy Policy, click "Apply" button. Generally, it takes several minutes to take effect.

Move mouse to hover the icon besides "Enabled DDNS", it will display the DDNS url of your device.



The DDNS domain printed on the back label of router has changed. If your DDNS url is xxxxxxxx.gl-inet.com on the back of router, new DDNS url will be xxxxxxxx.glddns.com.

3) Check if DDNS is enabled

Use `nslookup` command to check if your DDNS is enabled. You need to change `xx5007c.glddns.com` to your DDNS url when use `nslookup` command.

nslookup xx5007c.glddns.com 8.8.8.8

```
C:\Users\User>nslookup xx5007c.glddns.com 8.8.8.8
Server: google-public-dns-a.google.com
Address: 8.8.8.8

Non-authoritative answer:
Name: xx5007c.glddns.com
Address: 223.111.111.111
```

The output above means the DDNS url has mapped to a IP address.

4) HTTP Remote Access

This function requires a public network IP.

If your router is behind NAT, you may need to set up port forward in higher level router. It use port 80.

● Dynamic DNS

You can enable Dynamic DNS for this router and access this router remotely. [DDNS Test](#)
Note: You have to have an Internet Public IP address to use the Dynamic DNS. If this router is behind NAT, you may need to set up port forward in your ISP router. ?

Enabled DDNS ⓘ

Enable HTTP Remote Access ⓘ 1 →

Enable HTTPS Remote Access

Enable SSH Remote Access

I have read and agree [Terms of Service & Privacy Policy](#)

Apply ← 2

Follow the steps above, to enable HTTP Remote Access.

HTTP is not encrypted, use at your own risk.

After you enable HTTP Remote Access, you can access Admin Panel anywhere by your DDNS url of http, e.g. `http://xxxxxxx.glddns.com`. If you use port forward, you should be access like `http://xxxxxxx.glddns.com:YourExternalPort`.

5) HTTPS Remote Access

This function requires a public network IP.

If your router is behind NAT, you may need to set up port forward in higher level router. It use port 443.

● Dynamic DNS

You can enable Dynamic DNS for this router and access this router remotely. [DDNS Test](#)
Note: You have to have an Internet Public IP address to use the Dynamic DNS. If this router is behind NAT, you may need to set up port forward in your ISP router. [?](#)

Enabled DDNS ⓘ

Enable HTTP Remote Access ⓘ

Enable HTTPS Remote Access **1** →

Enable SSH Remote Access

I have read and agree [Terms of Service & Privacy Policy](#)

Apply ← **2**

This function use self-signed certificates, so the browsers will indicate that "Your connection is not private". I will show you how to use it anyway on Chrome iOS. Other browsers are the similar process.

⚠️ [redacted].glddns.com: [redacted]



Your connection is not private

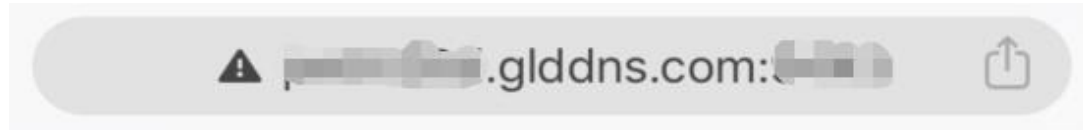
Attackers might be trying to steal your information from [redacted].glddns.com (for example, passwords, messages, or credit cards). [Learn more](#)

NET::ERR_CERT_AUTHORITY_INVALID

Back to safety

➔ **Advanced**

As show above, click "Advanced



This server could not prove that it is **pa5636d.glddns.com**; its security certificate is not trusted by Chrome. This may be caused by a misconfiguration or an attacker intercepting your connection.

[Proceed to pa5636d.glddns.com \(unsafe\)](#)



Back to safety

Hide advanced

As show above, click "Processed to xxxxxx.glddns.com (unsafe)".

After you enable HTTPS Remote Access, you can access Admin Panel anywhere by your DDNS url of https, e.g. <https://xxxxxxx.glddns.com>. If you use port forward, you should be access like <https://xxxxxxx.glddns.com:YourExternalPort>.

6) SSH Remote Access

This function requires a public network IP.

If your router is behind NAT, you may need to set up port forward in higher level router. It use port 22.

● Dynamic DNS

You can enable Dynamic DNS for this router and access this router remotely. [DDNS Test](#)
Note: You have to have an Internet Public IP address to use the Dynamic DNS. If this router is behind NAT, you may need to set up port forward in your ISP router. [?](#)

Enabled DDNS ⓘ

Enable HTTP Remote Access ⓘ

Enable HTTPS Remote Access

Enable SSH Remote Access 1 →

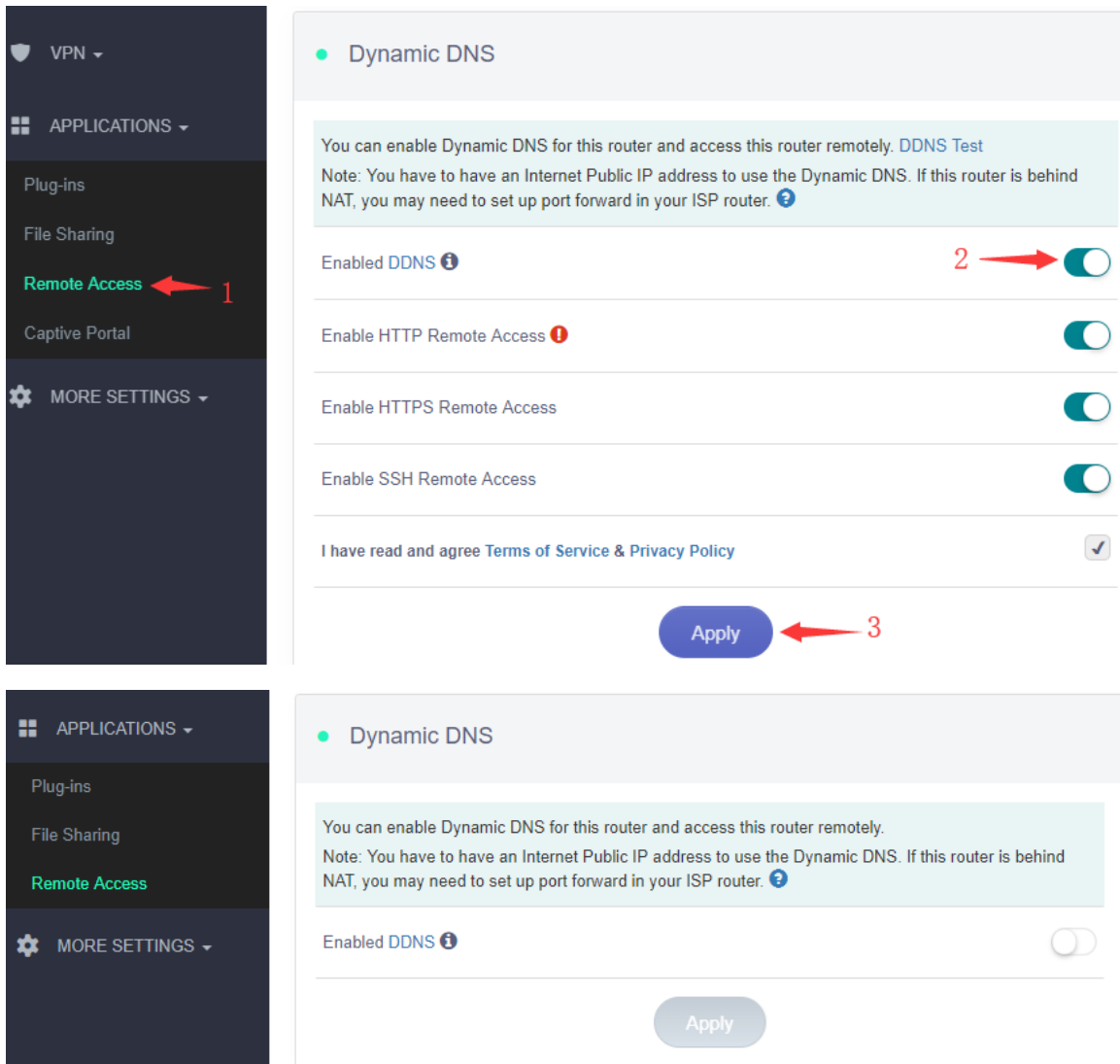
I have read and agree [Terms of Service & Privacy Policy](#)

Apply ← 2

Follow the steps above, to enable SSH Remote Access, then you can ssh to your router anywhere.

7) Turn Off

If you don't want to use DDNS, just disable it.



After disable DDNS, the interface is like above.

8.6. Cloud

Introduction

GL.iNet GoodCloud cloud management service provide an easy and simple way to remotely access and manage routers.

Check live router status

- Live online offline status check

- Live RAM and Load Average check
- LTE Signal
- Email alarm about online offline status update

Set up routers remotely

- Set up routers (e.g. SSID and Key) remotely

Monitoring clients on routers remotely

- Check who is on your network
- Realtime traffic monitoring and block clients
- Email alarm about new client and block

Operate routers in batch

- Set up config templates and configure routers in batch
- Reboot or upgrade routers in batch

Manage routers in groups

- Divide devices in different groups
- Manage devices in one page

Site to Site

- Virtual Office: extend your office network to other offices
- Business Travel: remote access office's OA, CRM, MySQL systems
- Smart Home: remote access IP camera, NAS and other devices at home

Setup

GoodCloud only support firmware v3.021 and above right now, we recommend to upgrade to the latest testing version(Pre-release) for better cloud experience.

This document is based on the latest testing firmware.

Download firmware file

Choose the Pre-release column of this url https://docs.glinet.com/en/3/release_notes/

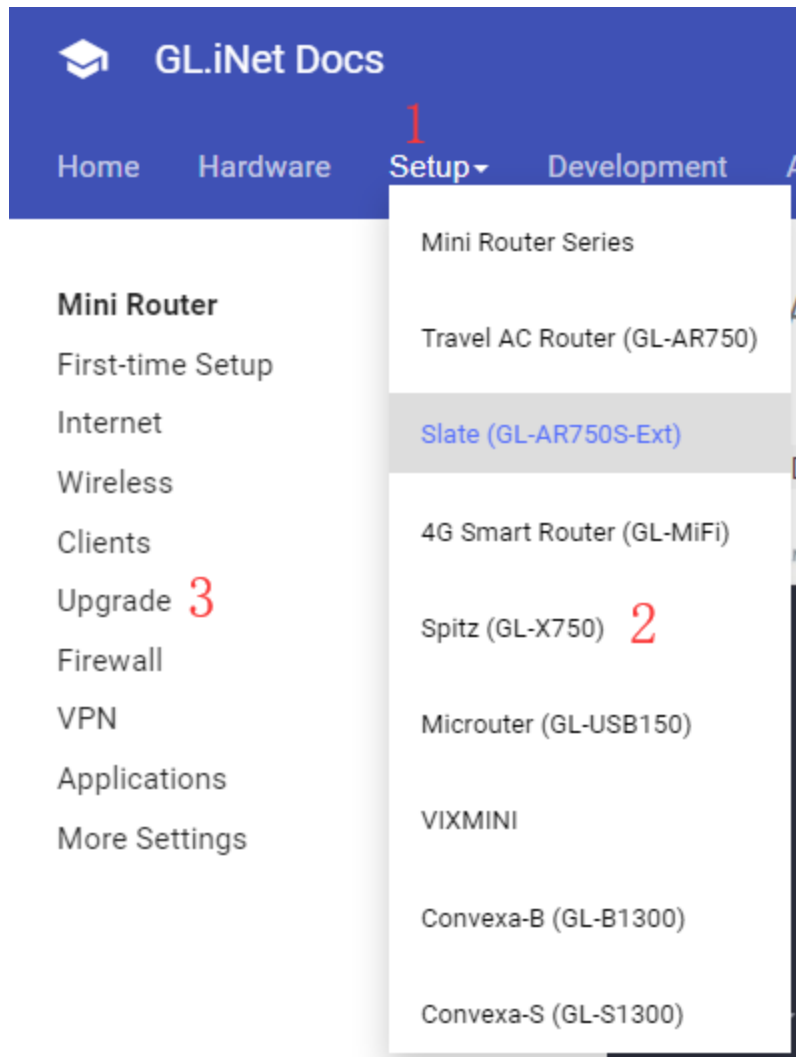
For GL-USB150, it can use GoodCloud too, but it only can be binded to GoodCloud by "Auto discover". (about [Add device](#))

Local upgrade

Open a web browser (we recommend Chrome) and to access router Web Admin Panel (default url is <http://192.168.8.1>).

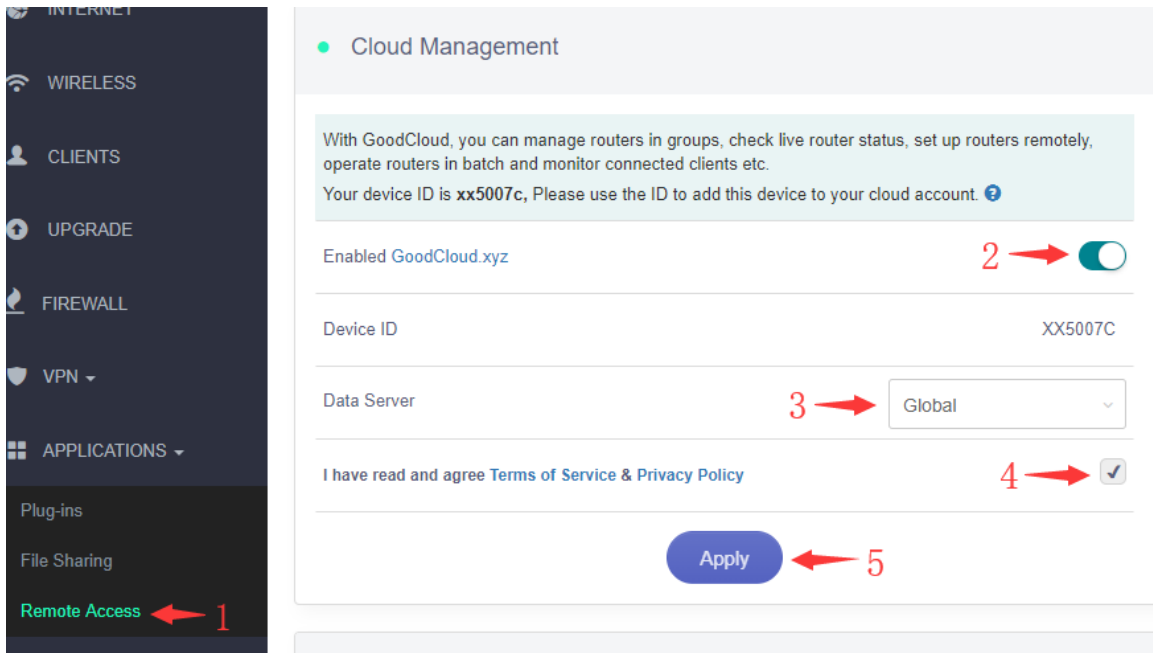
At the left side, UPGRADE -> Local Upgrade, select the firmware file you download, you can turn off "Keep Settings" for more stable, click "Install" button. It takes several minutes to install.

If you want to learn more about upgrade, please scroll top -> Setup -> Choose the model -> Upgrade



Enable Cloud Manage on router Web Admin Panel

Open a web browser (we recommend Chrome) and to access router Web Admin Panel (default url is <http://192.168.8.1>).



Follow the steps above, to enable cloud management feature, choose the Data Server which is nearest your devices located. There are three Data Server, 'Global', 'America' and 'Europe'. If your devices are neither in America nor in Europe, just select 'Global'. Global Data Server is at Japan.

Create GoodCloud account

Visit <https://www.goodcloud.xyz> to access GoodCloud web site by Chrome or your favorite browser.

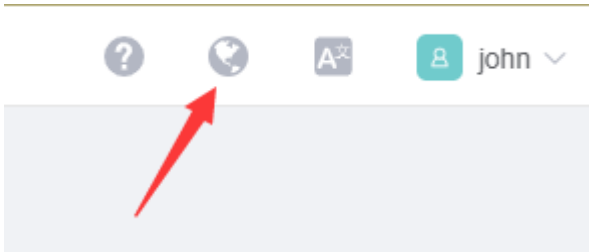
Sign up an account, and sign in. If you don't find the verify email, look in spam or check email later.

If you have any difficulty with sign up, please send email to admin@goodcloud.xyz for help.

Select region

At the first time when you sign in, it will pop up a dialog to let you select the region, select the region that your device selected Data Server on the Web Admin Panel (Step 1.2).

You can change the region on the top right corner at anytime.



Add a new group

On the left side -> Groups List -> Add group.

Follow the steps below to add a new group.

A screenshot of the GoodCloud.xyz dashboard. The left sidebar shows a menu with 'Group List' highlighted with a red '1'. The main content area shows a 'Group List' table with a '+ Add Group' button highlighted with a red '2'. An 'Add Group' modal form is open, containing fields for 'Name' (with a red '3'), 'Company', 'Description', and 'Location' (with a search icon). Below the form is a world map with a location pin in Africa. At the bottom right of the modal are 'Cancel' and 'Confirm' buttons, with the 'Confirm' button highlighted with a red '4'.

Set the group name, company, description and location.

Each device must belong to a group.

Add device

On the left side -> Devices List -> Add Device. There are three methods to bind device to GoodCloud, "Auto discover", "Manually add" and "Bulk import".

Auto discover

Follow the steps below to add your device.

The screenshot shows the GoodCloud interface. On the left sidebar, 'Device List' is highlighted with a red '1'. In the main content area, the 'Add Device' button is highlighted with a red '2'. The 'Add Device' modal is open, showing the 'Auto discover' tab selected with a red '3'. Below the tabs, there is a text box with the instruction: 'Devices in the LAN will be automatically discovered, selected a device to add. DDNS / Device ID on the back of the router.' There are three input fields: '* Device' (a dropdown menu with 'Select device' and a refresh button), '* DDNS / Device ID' (a text input with '.gl-inet.com' and a refresh button), 'Name' (a text input), and 'Description' (a text input). At the bottom, there is a '* Group' dropdown menu with 'Please select group' and an 'Add Device' button. Red numbers 4, 5, 6, and 7 are overlaid on the image to indicate the steps: 4 points to the '* Device' dropdown, 5 to the '* DDNS / Device ID' input, 6 to the '* Group' dropdown, and 7 to the 'Add Device' button.

If the router and PC (which opened goodcloud.xyz page) are at the same public IP, it will be automatically discovered, and can be found when click "Device" list. DDNS or Device ID can be found on the back of your router.

PS: Input "DDNS" / "Device ID" here just to verify that the router is really original/valid. DDNS feature and the Cloud feature are separate things.

For most models, it is "DDNS" on the back, but for some new models, it is "Device ID" on the back.

If you haven't added a group before, it will automatically create a default group.

Click "Refresh" to force auto discover devices again.

[Auto discover](#) [Manually add](#) [Bulk import](#)

Devices in the LAN will be automatically discovered, selected a device to add. DDNS / Device ID on the back of the router.

* **Device**

* **DDNS / Device ID**

Name

Description

* **Group**

Manually add

If it can't discover automatically, try "Manually add". All information that need to input can be found on the back of the router.

PS: Input "MAC", "SN" and "DDNS" / "Device ID" here just to verify that the router is really original and valid. DDNS feature and the Cloud feature are separate things.

Add Device

Auto discover **Manually add** Bulk import

The information need to input below can be found on the back of the router.

* MAC

* S/N

* DDNS / Device ID .gl-inet.com

Name

Description

* Group

Add Device Cancel

GL·iNet
750M Travel AC Router

Model: GL-AR750
Input: 5V == 2A
IP: 192.168.8.1
SSID: GL-AR750-ba1
Key: goodlife
MAC: E4:95:6E:40:00:00
S/N: 7c0be4bb45d9000
DDNS: hh00000.gl-inet.com
FCC ID: 2AFIW-AR750

For some new models, DDNS has been changed to Device ID on the back of router.

Auto discover **Manually add** Bulk import

The information need to input below can be found on the bac

* MAC

* S/N

* DDNS / Device ID

Name

Description

* Group

Add Device Cancel

GL·iNet
Spitz 4G LTE Smart Rou

Model: GL-X750C4
Input: 12V == 1.5A
IP: 192.168.8.1
MAC: E4:95:6E:40:00:00
SSID: GL-X750-ba1
Key: goodlife
Device ID: hh00000
S/N: 7c0be4bb45000000
FCC ID: 2AFIW-X750C4

Bulk import

"Bulk import" is for user who have a great number of devices to add. By "Bulk import" you can import many devices by a Microsoft excel file.

Bound info on router Web Admin Panel

After you successfully add router to GoodCloud, go back to router Web Admin Panel,

APPLICATION -> Remote Access -> Cloud Management,

press 'F5' to refresh this page, It will display the binded GoodCloud username, hover the username it will show the corresponding GoodCloud email account.

The screenshot shows the 'Cloud Management' section of a router's web admin panel. At the top, there is a header 'Cloud Management' with a green dot and a trash icon. Below this is a light blue information box containing text: 'With GoodCloud you can manage routers in groups, check live router status, set up routers remotely, operate routers, manage connected clients etc.' and 'The device is bound by john on 12-7-2018 16:25. Unbind'. A red arrow points from the word 'john' to the text 'your GoodCloud username' written in red below the information box. Below the information box is a toggle switch for 'Enabled GoodCloud.xyz' which is turned on. Underneath are fields for 'Device ID' (XX5007C) and 'Data Server' (Europe). At the bottom, there is a checked checkbox for 'I have read and agree Terms of Service & Privacy Policy', an 'Apply' button, and a 'View Logs' link.

Click 'View Logs' will show api call logs by GoodCloud.

Unbind router

● Cloud Management

With GoodCloud, you can manage routers in groups, check live router status, set up routers remotely, operate routers in batch and monitor connected clients etc.

The device is bound by john on 12-7-2018 16:25. [Unbind](#)

Enabled [GoodCloud.xyz](#)



Device ID

XX5007C

Data Server

Europe

I have read and agree [Terms of Service & Privacy Policy](#)



Apply

[View Logs](#)

If you want to unbind router, click Unbind button.

If you have any difficulties, please send email to admin@goodcloud.xyz for help.

Manage your devices

[devices info and status](#)

Sign in [Goodcloud](#), check at left side -> Device List

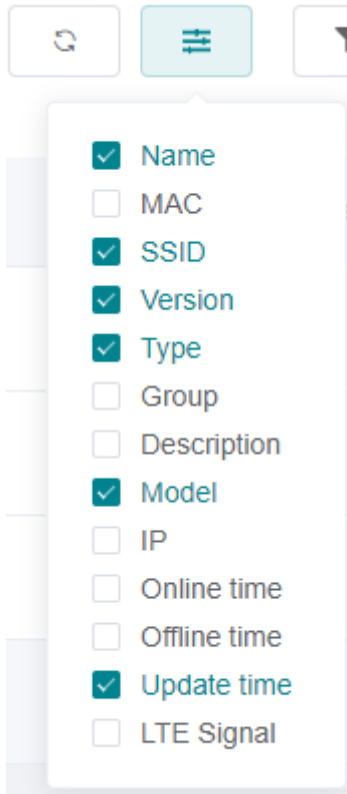
All(27) Online(5) Offline(18) Deactivated(4)							
+ Add Device ⚙ Bulk Action 🔄 ☰ 🔍 More Filter							
<input type="checkbox"/>	Name	SSID	Version	Type	Model	Update time	Actions
<input type="checkbox"/>	<input checked="" type="checkbox"/> XN41758_s 2s_simon	GL-AR750-758 GL-AR750-758-5G	3.026	router	GL-AR750	2019-07-26 00:51	
<input type="checkbox"/>	<input checked="" type="checkbox"/> NC30314_s 2s_home	GL-AR750-314 GL-AR750-314-5G	3.026	s2s	GL-AR750	2019-07-28 21:49	
<input type="checkbox"/>	<input checked="" type="checkbox"/> cb3b3b6-wg client	GL-AR750-3b6 GL-AR750-3b6-5G	3.026	router	GL-AR750	2019-07-29 12:28	
<input type="checkbox"/>	<input checked="" type="checkbox"/> TB397BC_S 2S_HKSTP	GL-AR750-7bc GL-AR750-7bc-5G	3.026	s2s	GL-AR750	2019-07-25 18:17	
<input type="checkbox"/>	<input checked="" type="checkbox"/> YK06DE8	GL-AR150-de8	3.026	s2s	GL-AR150	2019-07-25 18:17	

there is icon at the first column of this table,

means this device is online.

means this device is offline.

means this device is deactivated, it has never connected to GoodCloud before.



Select the column you want to display.

"Online time" is the latest time when device connected GoodCloud.

"Offline time" is the latest time when device disconnected GoodCloud.

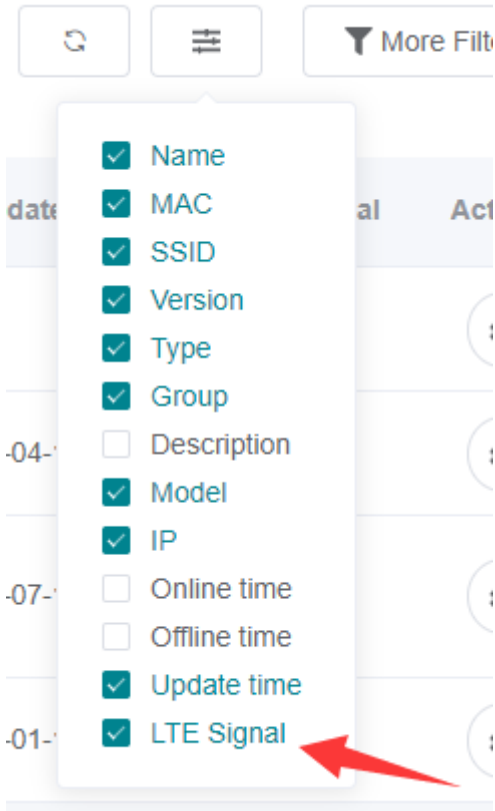
"Update time" is the latest time when device connected or disconnected GoodCloud.

IP, if your router run VPN client, this IP will be your VPN IP by default. [Learn More](#)

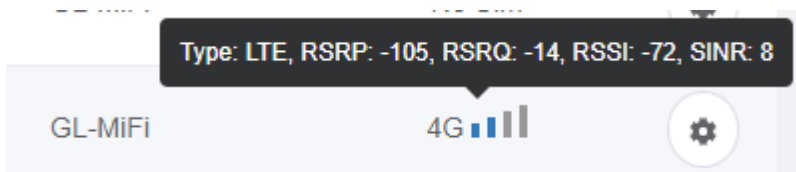
LTE Signal

Only available for 4G devices, e.g. GL-MiFi, GL-X750

Toggle the column on Device List page.



It will show Signal strength, Type, and relevant parameters.




Device detail info

At left side -> Device List, click the name of a online device, it will open a page to manage this device of WiFi, Clients and view router info, memory usage, up time, load average and log.

<input type="checkbox"/>	Name
<input type="checkbox"/> <input checked="" type="checkbox"/>	XN41758_s2s_simon
<input type="checkbox"/> <input checked="" type="checkbox"/>	NC30314_s2s_home

Device info

DEVICE INFO



- MA3301C ²
- B1300-Home
- Group: Home-HK

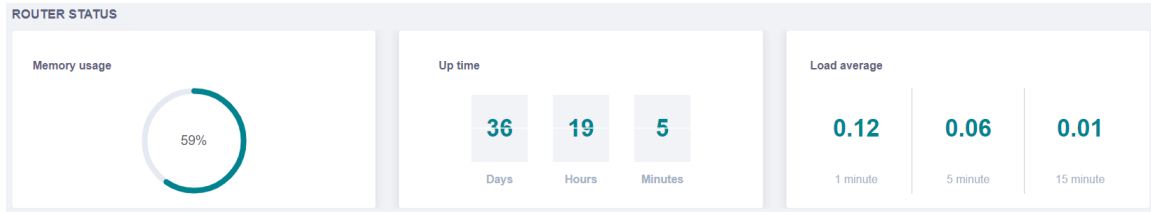
Model:	GL-B1300	Type:	router
MAC Address:	E4:95:6E:40:00:00	IP Address:	223.223.223.223
S/N:	ee59e14400000000	Firmware:	3.012

WiFi

<p>2.4G WIFI (Private) <input type="checkbox"/></p> <p>0 Clients</p> <p>SSID: GL-B1300-01C</p> <p>Channel: auto</p> <p>SSID Visibility: Shown</p> <p>TX Power (dBm): <input type="range"/></p> <p>Modify</p>	<p>5G WIFI (Private) <input checked="" type="checkbox"/></p> <p>0 Clients</p> <p>SSID: GL-B1300-01C-5G</p> <p>Channel: auto</p> <p>SSID Visibility: Shown</p> <p>TX Power (dBm): <input type="range"/></p> <p>Modify</p>	<p>5G WIFI (Guest) <input type="checkbox"/></p> <p>0 Clients</p> <p>SSID: GL-B1300-01c-Gu...</p> <p>Channel: auto</p> <p>SSID Visibility: Shown</p> <p>TX Power (dBm): <input type="range"/></p> <p>Modify</p>	<p>2.4G WIFI (Guest) <input type="checkbox"/></p> <p>0 Clients</p> <p>SSID: GL-B1300-01c-Gu...</p> <p>Channel: auto</p> <p>SSID Visibility: Shown</p> <p>TX Power (dBm): <input type="range"/></p> <p>Modify</p>
--	--	--	--

Modify all WiFi settings.

Router status



Client list

CLIENT LIST All (55) 2.4G Wireless (0) 5G Wireless (0) Wired (1) Enable real-time speed and traffic statistics. This requires higher CPU load. ON

#	Name	IP	MAC	Speed	Traffic	Interface	Block	Qos
1	Leo-Win10	192.168.38.103	18:60:24:97:55:55	± 97.0 B/s ± 70.0 B/s	± 44.3 MB ± 338.9 MB	Wired	<input type="checkbox"/>	Set Cancel
2	GL-MT300N-V2-5 54	192.168.38.217	E4:95:6E:43:25:54	± 0.0 B/s ± 0.0 B/s	± 0.0 B ± 0.0 B	Offline	<input type="checkbox"/>	Set Cancel

Timeline

Timeline tab display the activities of router, and messages uploaded by the router's associated IoT device.

The screenshot shows the GoodCloud.xyz interface with a sidebar on the left containing navigation options: Dashboard, Group List, Device List, and Setting. The main content area has tabs for Overview and Timeline (highlighted with a red arrow). Below the Timeline tab are sub-tabs for All, Device log, Operation log, and Others. The 'All' sub-tab is active, showing a vertical timeline of events: 'hello from x750' at 2019-04-19 16:25 (highlighted with a red arrow), 'sign in' at 2019-04-19 16:25, and 'sign out' at 2019-04-04 15:43.

Set email alarm

You can set email alarm when a device is online, offline, and new client connected.

At left side -> Setting -> Alarm Setting, create alarm rules

Alarm Rules



When Then

Enable:

Then set the email you want to receive notification. To ensure you get email successful, please add admin@goodcloud.xyz to your email address book.

Alarm Rules

The following alarm information will be sent to Email.

- When a device is online/offline for 2 minutes, send notification.
- When a client is connected, send notification.

Email Account

The alarm information will be sent to the following Email account.

Email

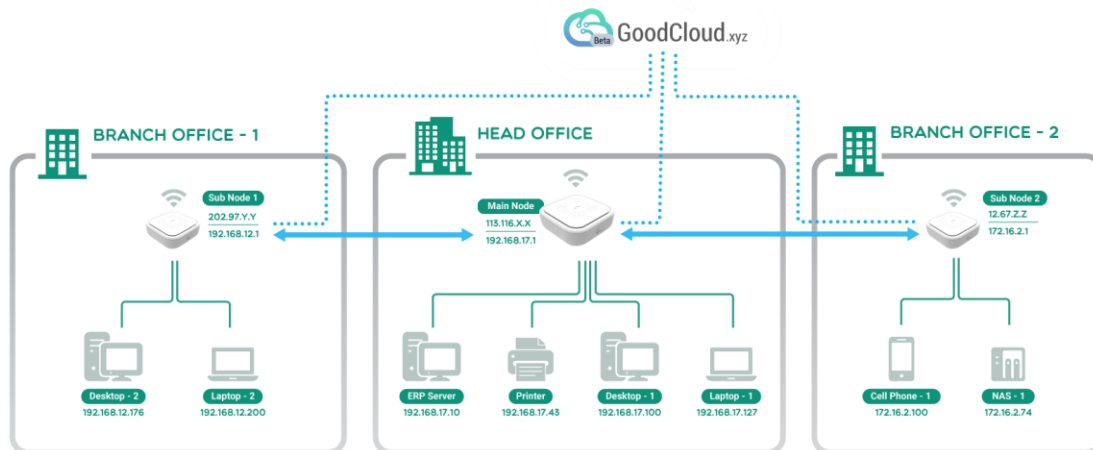
#	Email	Status	Action
1	• john@gmail.com	<input type="button" value="Enable"/>	

Site to Site

Site to Site only support firmware v3.026 and above.

Introduction

Site to Site allows offices in multiple locations to establish secure connections with each other over internet. It extends the company's network, making computers resources from one location available to employees at other locations.



Scenario 1: A company has dozens of branch offices that they wish to join in a single private network to share resources.

Scenario 2: A company has a close relationship with a partner company, the Site to Site allows the companies to work together in a secure, shared network environment while preventing access to their separate internets.

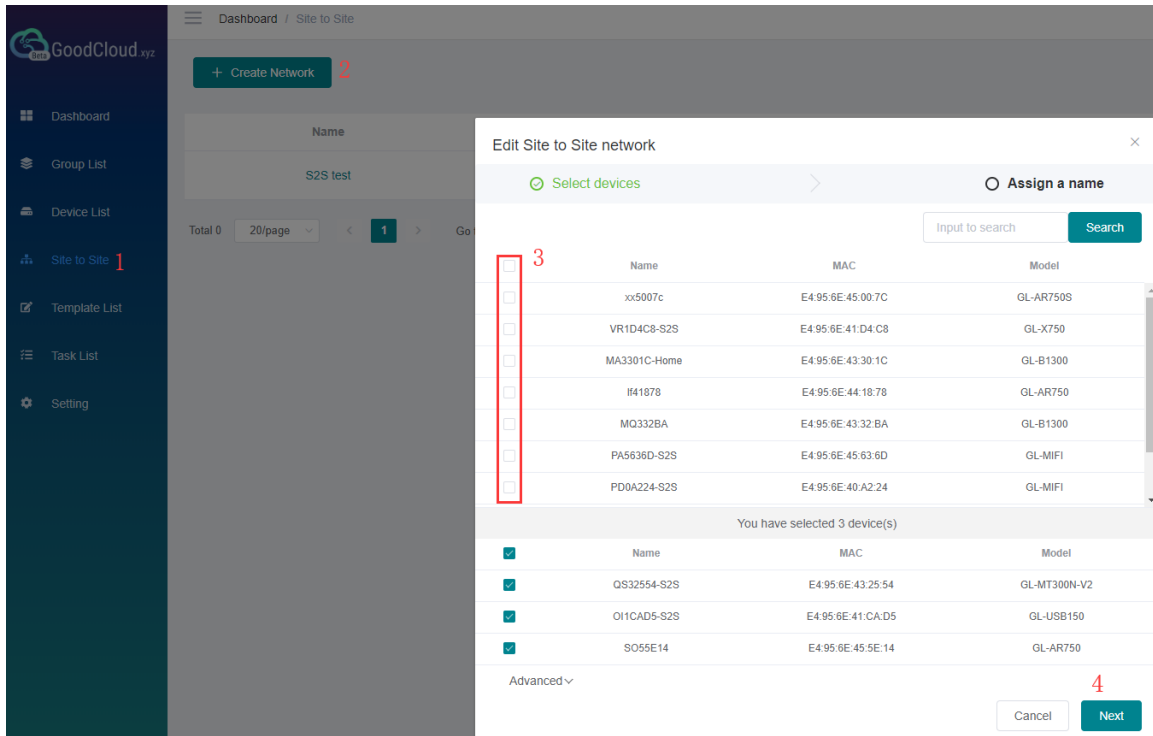
Scenario 3: A family has IP camera and when they are not at home, the Site to Site allows to remote access the IP camera.

What conditions do I need to create Site to Site?

One of the locations has a public static(or dynamic) ip, and two or more GL.iNet devices with latest testing firmware.

Steps to build a Site to Site network.

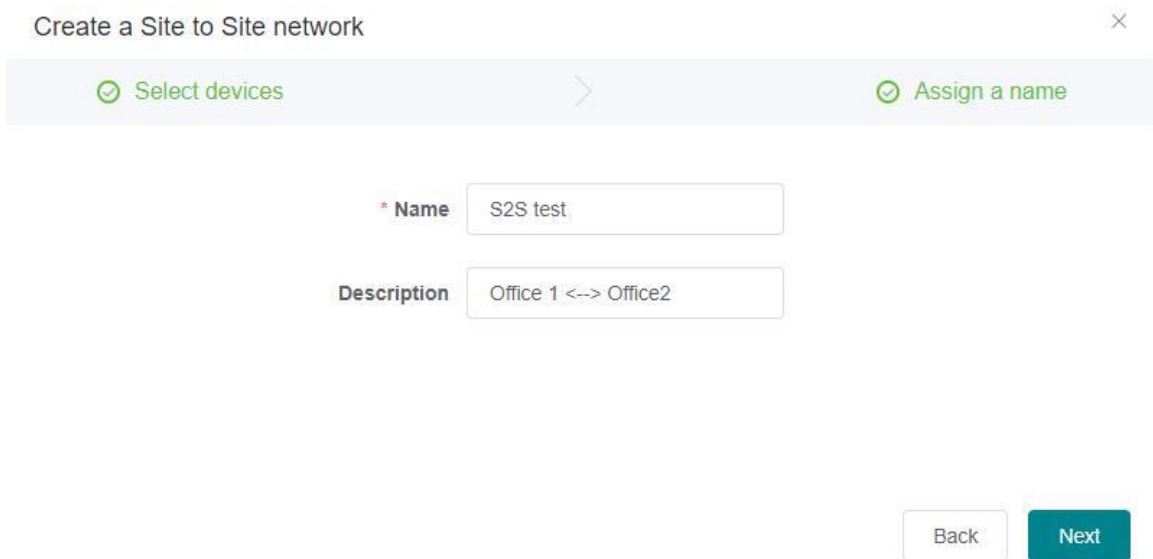
1. Upgrade your GL.iNet devices to latest testing firmware and binded to [Goodcloud.xyz](https://goodcloud.xyz). ([how](#))
2. Follow the steps below to create a Site to Site network.



Default port is 51830, if you want to use another port, find the Advanced option at the lower left corner.

Due to device's performance, each Site to Site network can have up to 10 devices.


After you had chosen the devices, click Continue.



Then, it will test each device if it can be set as the Main Node of Site to Site.

We suggest that the router with strong performance and best network speed to be the Main Node.

Create a Site to Site network ✕



Node Usability Testing

We are testing each device if it can be set as the Main Node of Site to Site.

- One of routers has a public IP, dynamic public IP works.
- Port is open, default is 51830.
- If the router is behind NAT, you may need to set up port forwarding.

[? Help](#)

If none of the devices can be used as the Main Node, make sure that:

- One of routers has a public IP, either static public IP or dynamic public IP.
- Port is open, default is 51830.
- If the router is behind NAT, you may need to set up port forwarding.

You can also change port and try again.



Node Usability Testing



No device can be used as the Main Node of Site to Site, please make sure that:

- One of routers has a public IP, dynamic public IP works.
- Port is open, default is 51830. [Change Port](#)
- If the router is behind NAT, you may need to set up port forwarding.

[? Help](#)

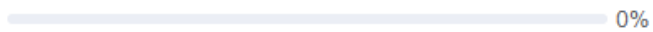
Cancel

Try again

If there are more than one device can be set as the Main Node, you need to choose one to continue.



Node Usability Testing



There are multiple devices that can be set as the Main Node of Site to Site, select one and the others will be set as Sub Node.

[? Help](#)

Cancel

Continue

If there is only one device can be set as the Main Node, it will go to the Site to Site detail page directly.

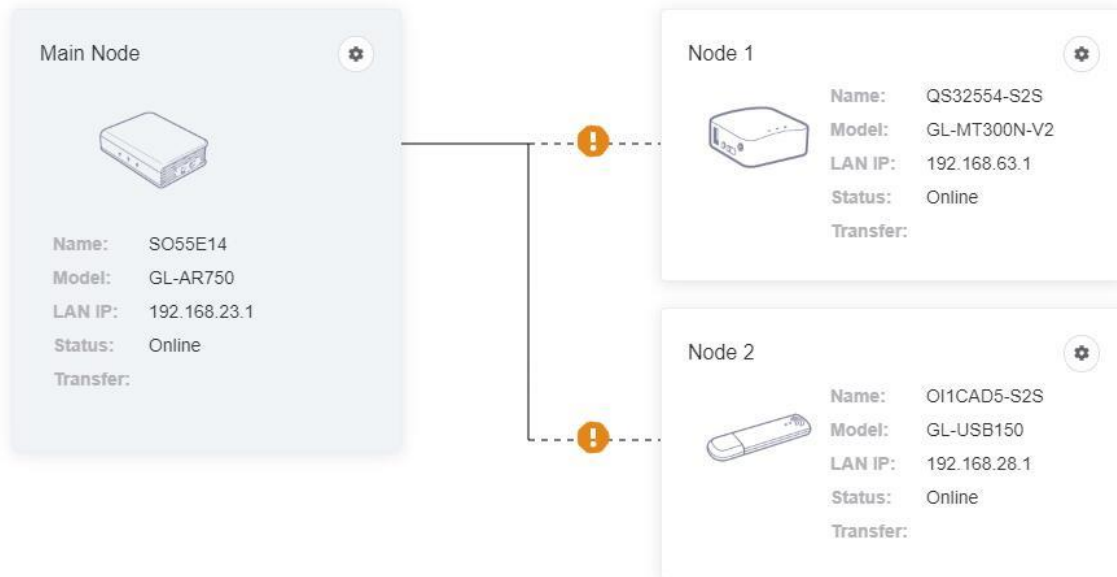
The network is stopped by default, check the LAN IP, if it is OK then you need to click Start button, otherwise click Setting to change LAN IP.

▶ Start
Tunnel IP Address Range

This network is stopped, click 'Start' to continue.

S2S test

Office 1 <--> Office2

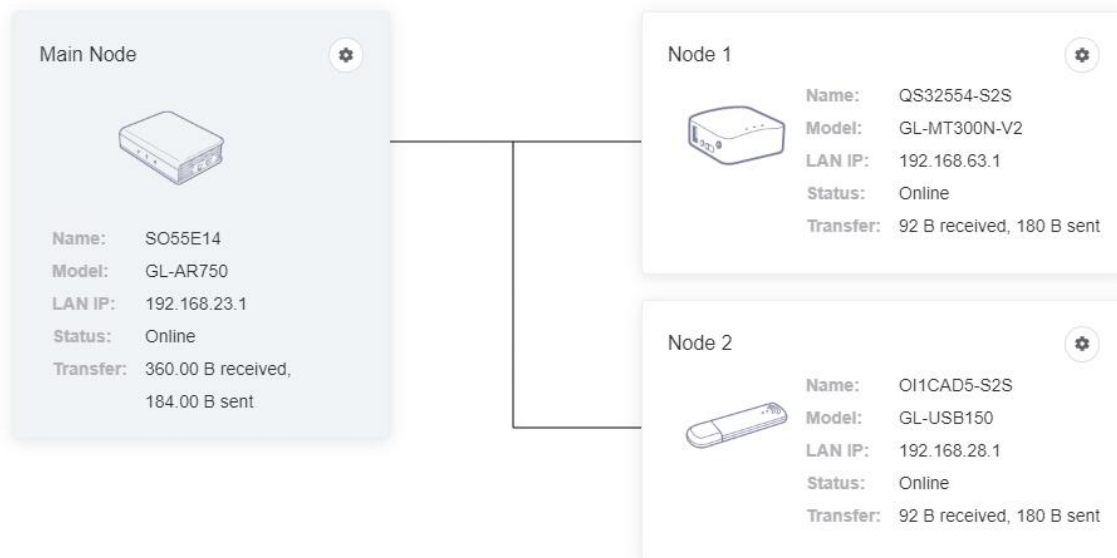


Wait a few minutes, the node's connect status will display as lines. Solid line means connected, dashed line means disconnected.

■ Stop
Tunnel IP Address Range

S2S test

Office 1 <--> Office2



Testing the Site to Site connection

Now the Site to Site network is created and started, let's test the connection.

Use your PC or Phone to connect to one of the Node of this Site to Site, and use browser to access another Node's LAN ip, if you see the login page, the connection between these two nodes is worked.

For example, my PC connect to Node 1 device, and then I use browser to access Main Node's LAN IP (192.168.48.1), if I see the login page, it means the connection between Node1 and Main Node is worked.

Route and other options

You can change each device's LAN IP and routes.

Configure LAN IP and Access Control



LAN IP

172.30.97.1

Allow be Access for the Following Subnets ⓘ

Route	Action
172.30.97.0/24	<input checked="" type="checkbox"/>
172.30.55.0/24	<input type="checkbox"/>

eg: 192.168.1.0/24

Add

Cancel

Confirm

By default, each node can access other's LAN, based on security, we recommend only open the corresponding service IPs.

E.g. There is a Server A(172.30.97.100) in Node 1's subnet, if you want other Site to Site nodes only can access Node 1's Service A, you can set it like below:

Configure LAN IP and Access Control ×

LAN IP

172.30.97.1

Allow be Access for the Following Subnets ⓘ

Route	Action
172.30.97.0/24	<input type="checkbox"/>
172.30.55.0/24	
172.30.97.100/32	

eg: 192.168.1.0/24 Add

Cancel Confirm

You can add node's parent routes too.

Each sub Node build an encrypted tunnel network to Main Node, if you want to change the IP of tunnel subnet. Click 'IP Address Range'.

Tunnel IP Address Range



IP address range defines the scope of Site to Site network. Devices will acquire tunnel IP address from the IP address range. Current IP address range is: 172.30.55.0/24

Simple

Advanced

- 10.148.18.0/24 10.148.19.0/24 10.148.20.0/24
- 172.30.97.0/24 172.30.98.0/24 172.30.99.0/24
- 192.168.191.0/24 192.168.192.0/24 192.168.193.0/24

Apply change will cause network go down a few minutes.

Cancel

Save

Save & Apply

Batch Setting

You can use this feature to configure multiple parameters for a single device, or you can configure multiple parameters for multiple devices.

PS: This feature is only available to business users.

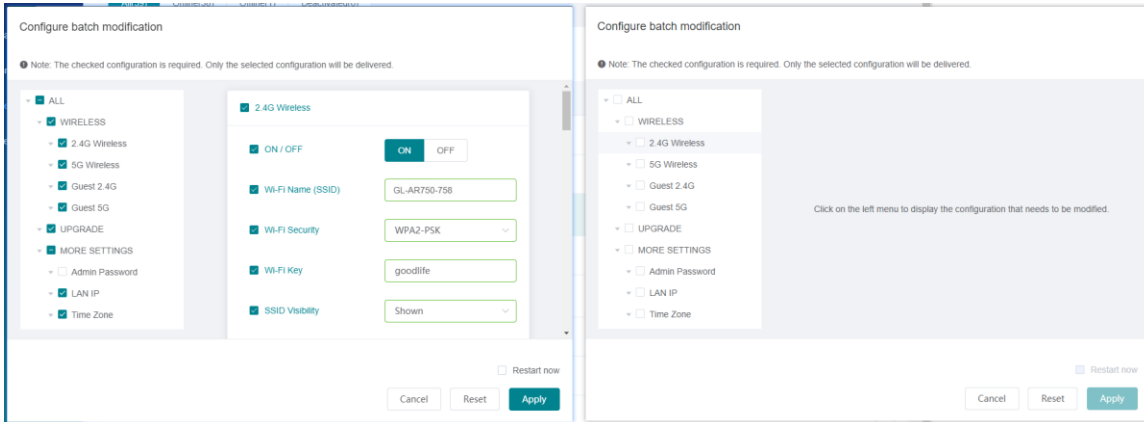
Batch Setting of Single Device

To configure single device, as show below.

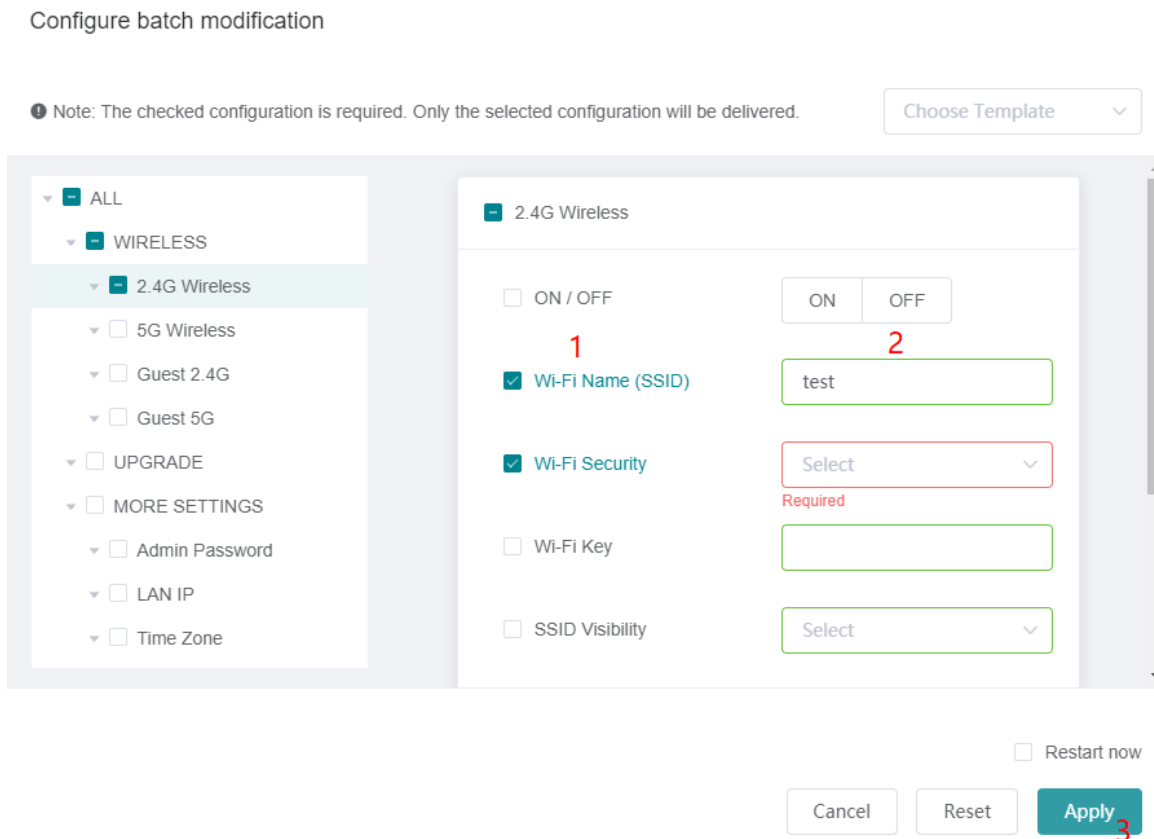
The screenshot shows a web interface for managing devices. On the left is a navigation menu with items: Device List, Site to Site, Template List, Task List, Statistics, and Clients. The main area displays a table of devices with columns: Name, SSID, Version, Type, Group, Description, Model, and Actions. A table row is highlighted for device XN41758. The Actions column for this device has a gear icon that has been clicked, opening a dropdown menu with options: View detail, Edit, Move group, Upgrade, Restart, Delete, and Modify Configuration. Red arrows point to the 'Device List' menu item (1), the gear icon in the Actions column (2), and the 'Modify Configuration' option in the dropdown menu (3).

Name	SSID	Version	Type	Group	Description	Model	Actions
XN41758	GL-AR750-758 GL-AR750-758-5G	3.100	router	Office-HK-0 1	XN41758	GL-AR750	<ul style="list-style-type: none">View detailEditMove groupUpgradeRestartDeleteModify Configuration

The left side of image below is correct. If your interface is like the right side of image below, please upgrade to latest testing firmware.



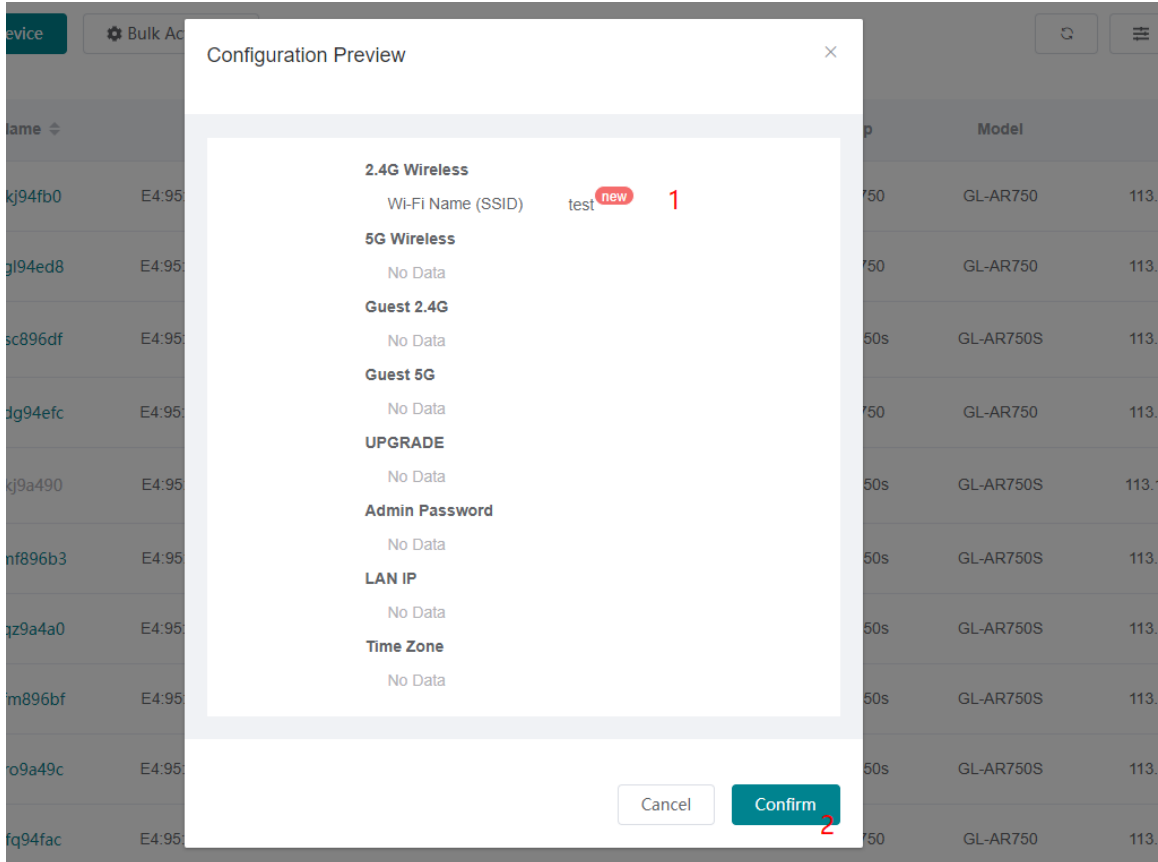
Check the configuration that needs to be modified and input value.



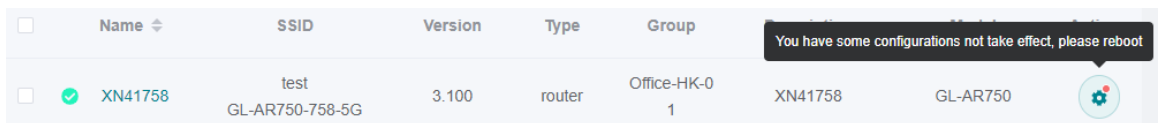
The checked configuration is required, and only the configuration that conforms to the rule can be filled out. After the configuration is delivered, it does not take effect immediately. The configuration takes effect and the device needs to be restarted. You can check the Restart now option in the lower right corner of the

above figure. After the configuration is completed, the device will restart immediately.

Preview the configuration and confirm the delivery.

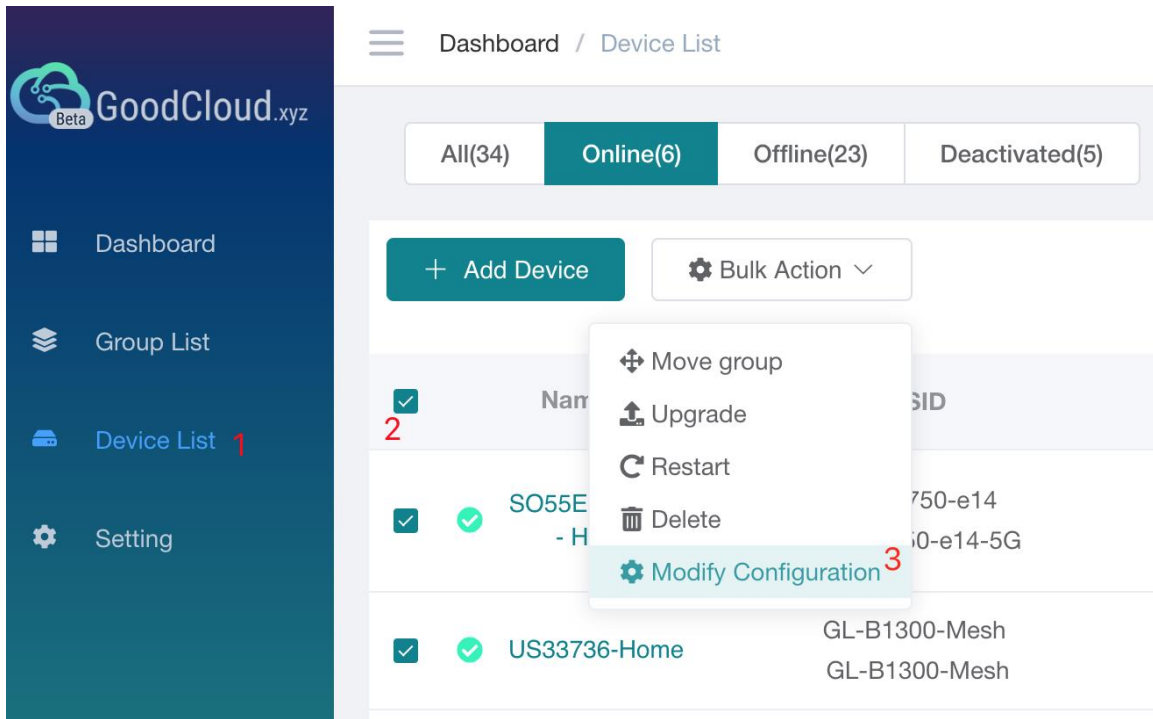


Unchecked **Restart now** option will prompt.



Batch Setting of Mutiple Device

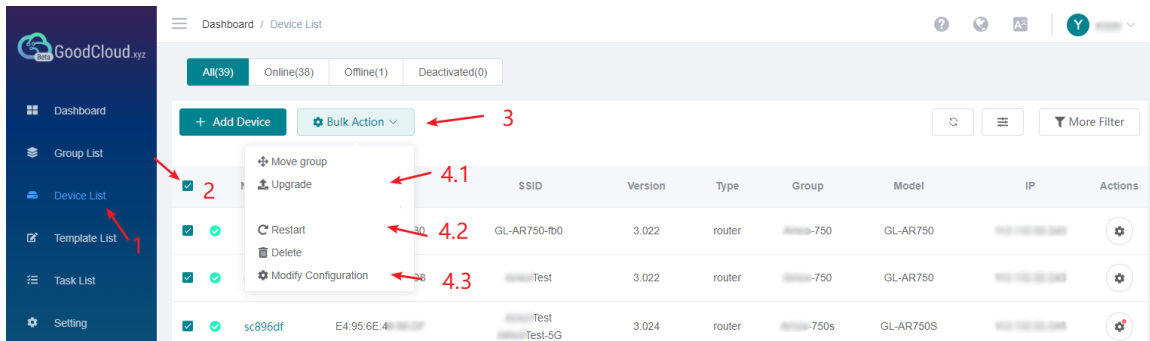
Select the devices you want to configure.



Other operations are the same as when operating a single device.

Other Batch Operations

Other Batch Operations: Move to other group, upgrade, restart, delete.



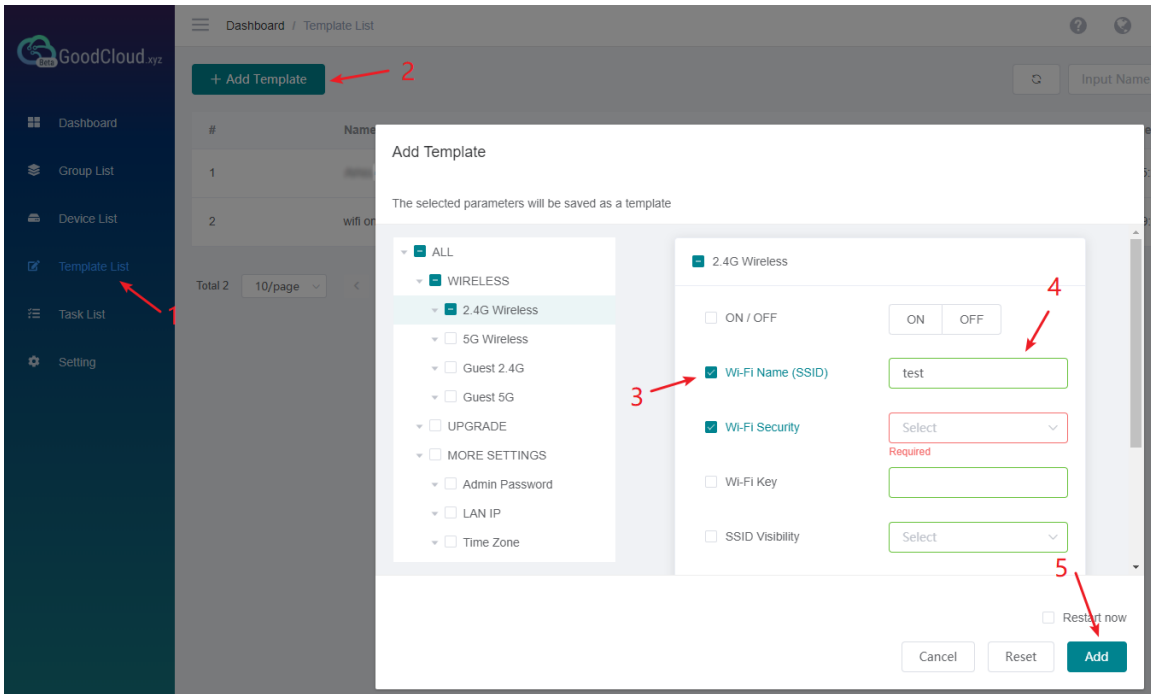
Template Management

Save frequently used configurations as templates and quickly apply them when you modify configurations in batches.

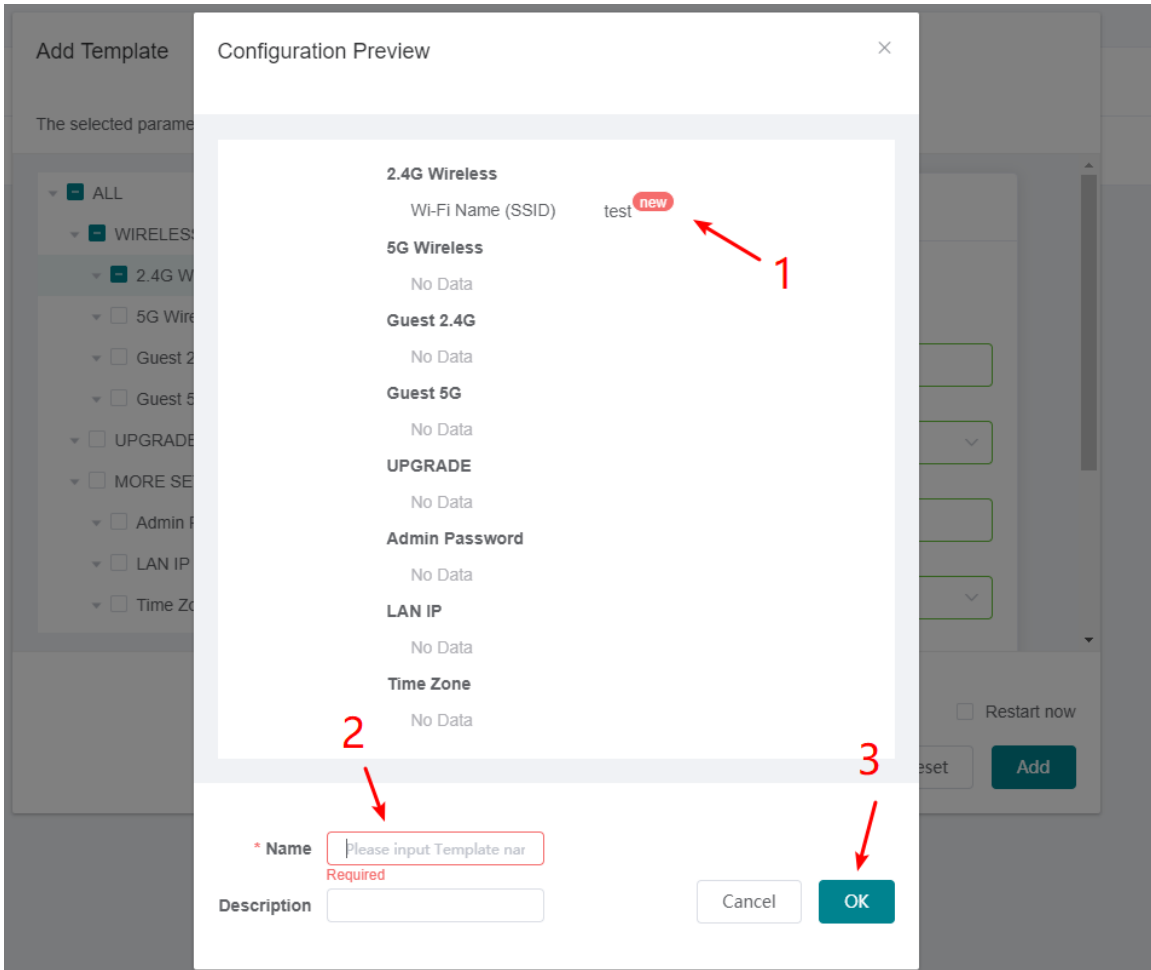
PS: This feature is only available to business users.

Add a Template

Check the configuration that needs to be modified and input value.



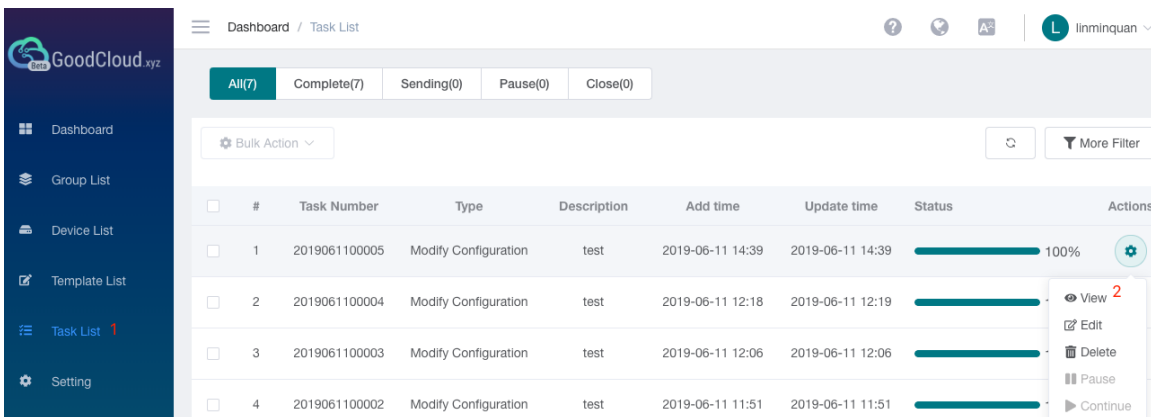
Give the template a name and description.



Task List

At task list page, it shows the execution result of the configuration template.


PS: This feature is only available to business users.



You can view the execution result of each device and configuration.

Total Devices 2 Success 2 Failure 0

#	Name	Model	MAC	Status
1	PT3F4C6	GL-MIFI	E4:95:6E: [signal strength]	Success
2	eaf40ff	GL-MIFI	E4:95:6E: [signal strength]	Success



BLE MQTT Bridge

Bluetooth Low Energy (BLE) is widely used for smart home, wearable and IoT sensors. This feature is for GL.iNet BLE gateway, GL-X750 Spitz and GL-S1300 convexa S which has built-in BLE modules. Read [this](#) to learn how to use them forward your BLE data to the cloud based on MQTT protocol, including GL.iNet GoodCloud and AWS IoT.

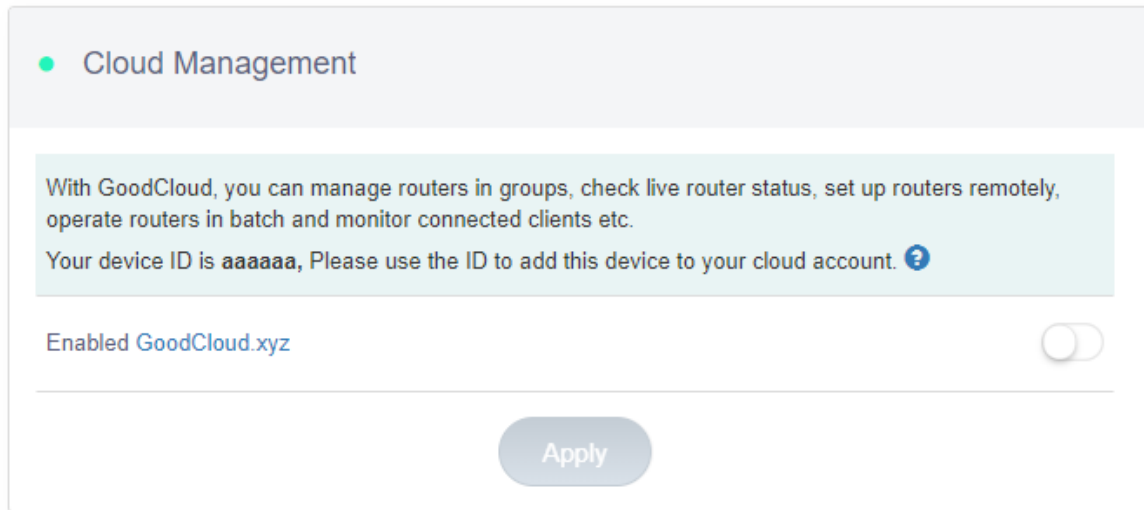
GoodCloud and VPN

If you enable GoodCloud feature on router and also use it as VPN client, there is something important you need to know.

At default, GoodCloud process use VPN if you enable VPN client(eg. WireGuard, OpenVPN, Shadowsocks), this bring a problem that if you VPN is configured incorrectly, GoodCloud will not work properly. In order to ensure the normal use of GoodCloud, we suggest you to follow the steps below to enable VPN Policies and disable "Use VPN for all process on the router". After you've done these steps, GoodCloud process will not use VPN.

Disable

To stop GoodCloud service, turn it off on router Web Admin Panel. Please follow the steps below. No action needed on the GoodCloud website.

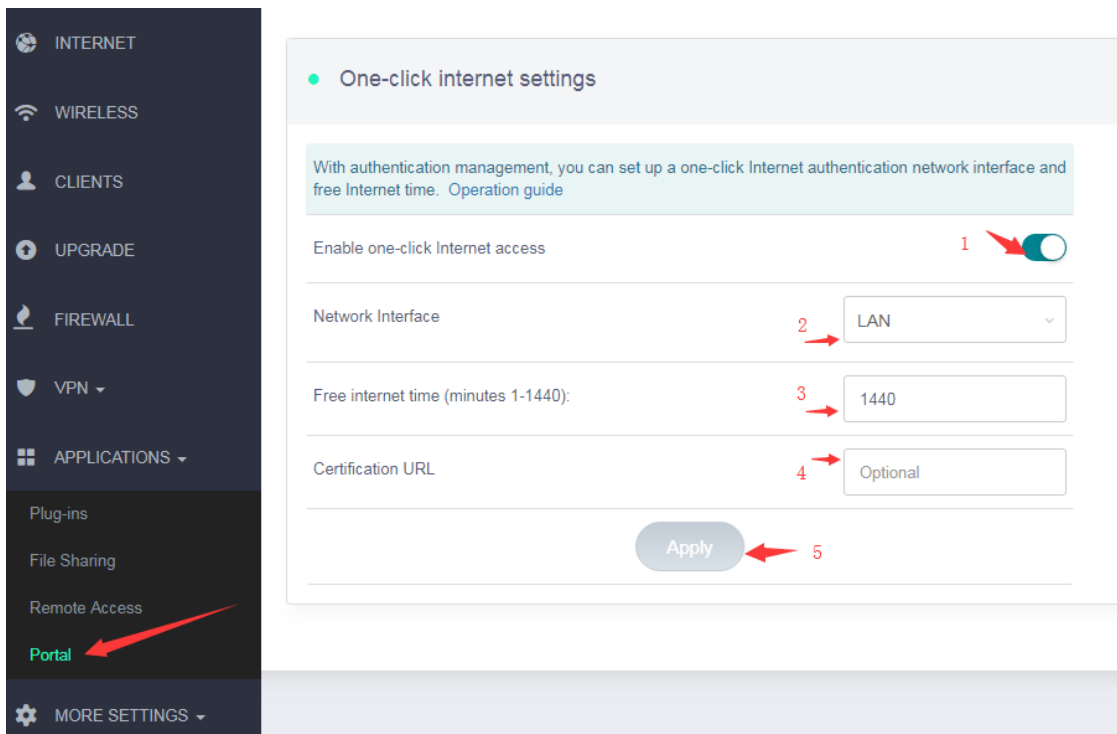


After disable Cloud, the interface is like above.

Turn on Captive Portal

Open a web browser (we recommend Chrome) and to access router Web Admin Panel(default url is <http://192.168.8.1>).

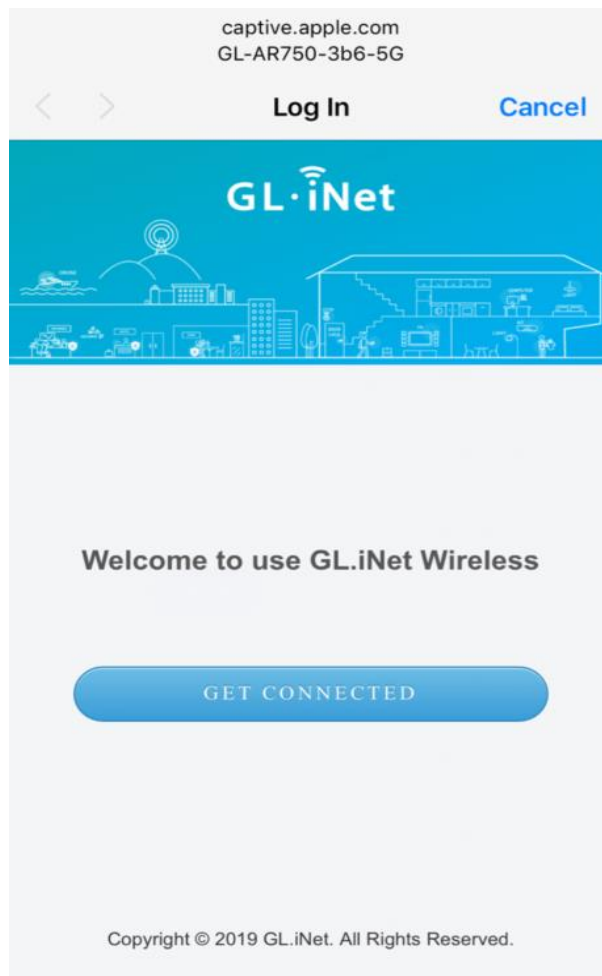
At the left sidebar, APPLICATIONS -> Portal, follow the steps below to enable Captive Portal.



- 1) Turn on one-click Internet access
- 2) Choose the network that you want to use Portal. LAN is for LAN clients, include wired clients. Guest is for Guest clients which access by Guest Wi-Fi.
- 3) Set free internet time.
- 4) Certification URL is the default page that clients will force redirect to when they are connected, e.g. <https://www.gl-inet.com>
- 5) Apply the configuration.

For wired desktop client, please use browser to access a http(not https) website, e.g. <http://neverssl.com> or <http://apple.com/?> , then you will see the portal.

Below is the Portal on iPhone, click the "GET CONNECTED" button to access the internet. On Android and desktop platform, it's a similar interface.



Change the default page

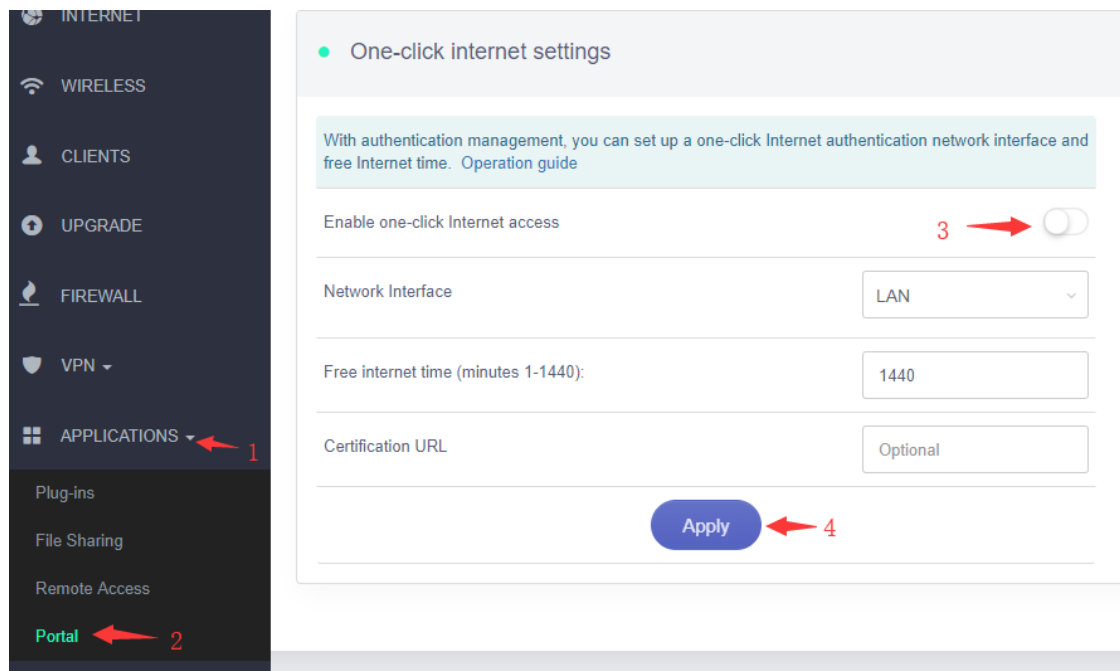
The default page is located `/etc/nodogsplash/htdocs/`, use SSH or WinSCP to change this page. For more information about how to use SSH and WinSCP, please access this. You may need basic HTML and CSS knowledge to change this page, please learn these from w3school or other sites.

If you want to change the picture on the default page, just replace the image on `/etc/nodogsplash/htdocs/portal_login.png`.

After you had change the page, it need to disable Portal and enable Portal again to enable the modified default page.

Disable Captive Portal

Follow the steps below to disable Captive Portal.



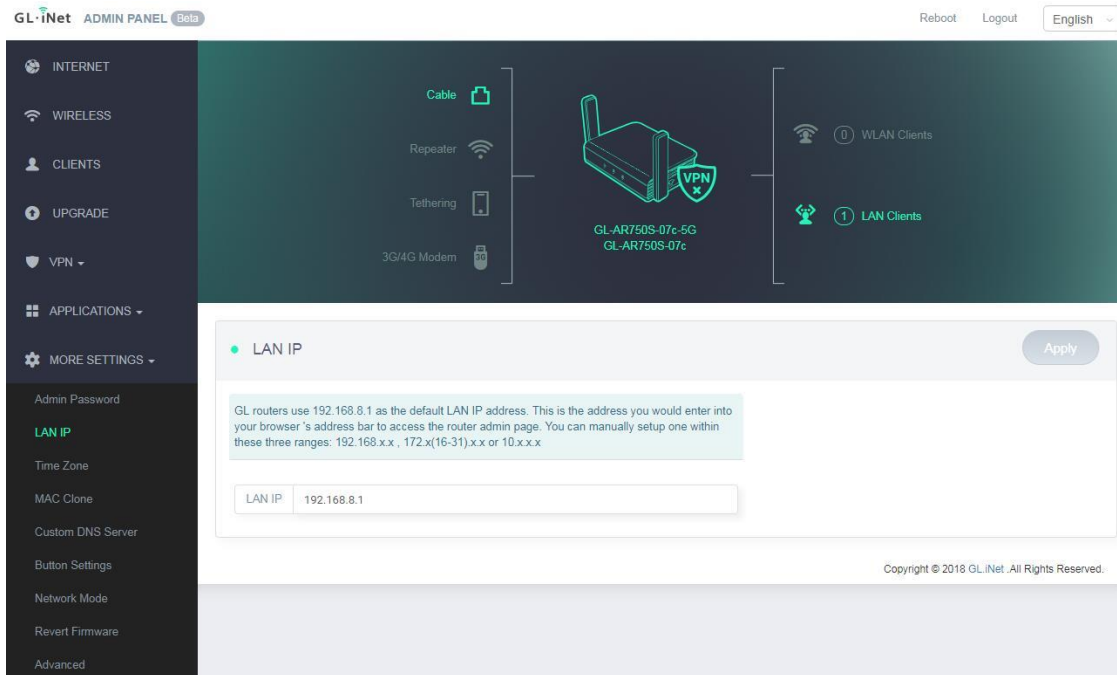
9. MORE SETTINGS

9.1. Admin Password

Change the password of the web Admin Panel, which must be at least 5 characters long. You have to input your current password in order to change it.

9.2. LAN IP

LAN IP is the IP address that you use to connect to this router. The default IP address of GL.iNet router is 192.168.8.1. If it conflicts with the IP address of your main router, you can change it.



The screenshot displays the GL.iNet Admin Panel interface. At the top, it shows 'GL.iNet ADMIN PANEL Beta' on the left, and 'Reboot Logout English' on the right. A central dashboard area features a router icon labeled 'GL-AR750S-07c-5G' and 'GL-AR750S-07c', surrounded by icons for 'Cable', 'Repeater', 'Tethering', '3G/4G Modem', 'WLAN Clients', and 'LAN Clients'. Below this, the 'LAN IP' configuration page is visible, showing a text input field with '192.168.8.1' and an 'Apply' button. A note explains that GL routers use 192.168.8.1 as the default LAN IP address and provides instructions on how to change it. The footer of the page reads 'Copyright © 2018 GL.iNet. All Rights Reserved.'

9.3. Time Zone

The time of the router's activities will be recorded according to the router time. Therefore, choosing the time zone of your location is recommended.

GL.iNet ADMIN PANEL Beta Reboot Logout English

INTERNET
WIRELESS
CLIENTS
UPGRADE
VPN
APPLICATIONS
MORE SETTINGS

Admin Password
LAN IP
Time Zone
MAC Clone
Custom DNS Server
Button Settings
Network Mode
Revert Firmware
Advanced

Cable
Repeater
Tethering
3G/4G Modem

GL-AR750S-07c-5G
GL-AR750S-07c

WLAN Clients
LAN Clients

Time Zone Apply

Router Time: Wed Sep 12 03:59:13 UTC 2018

Router timezone differs from your browser Sync

Select Your Continent or Ocean

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9.4. MAC Clone

Clone the MAC address of your current client to the router. It is used especially in hotel when the network checks your MAC address. For example, if you got your smartphone registered on the network, you can clone the MAC address of your smartphone to the router so that the router can also connect to the network.

GL.iNet ADMIN PANEL Beta Reboot Logout English

INTERNET
WIRELESS
CLIENTS
UPGRADE
VPN
APPLICATIONS
MORE SETTINGS

Admin Password
LAN IP
Time Zone
MAC Clone
Custom DNS Server
Button Settings
Network Mode
Revert Firmware
Advanced

Cable
Repeater
Tethering
3G/4G Modem

GL-AR750S-07c-5G
GL-AR750S-07c

WLAN Clients
LAN Clients

MAC Clone Apply

MAC Clone is useful when you connect to a public hotspot but you do not want the server to check your real MAC address or limit your Internet connections based on your MAC address.
e.g. If you got your smartphone registered on the network, you can clone your smartphone's MAC address to the router so that the router can also connect.

Your Current Client

Factory Default

Your Router (WAN)

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9.5. Custom DNS Server

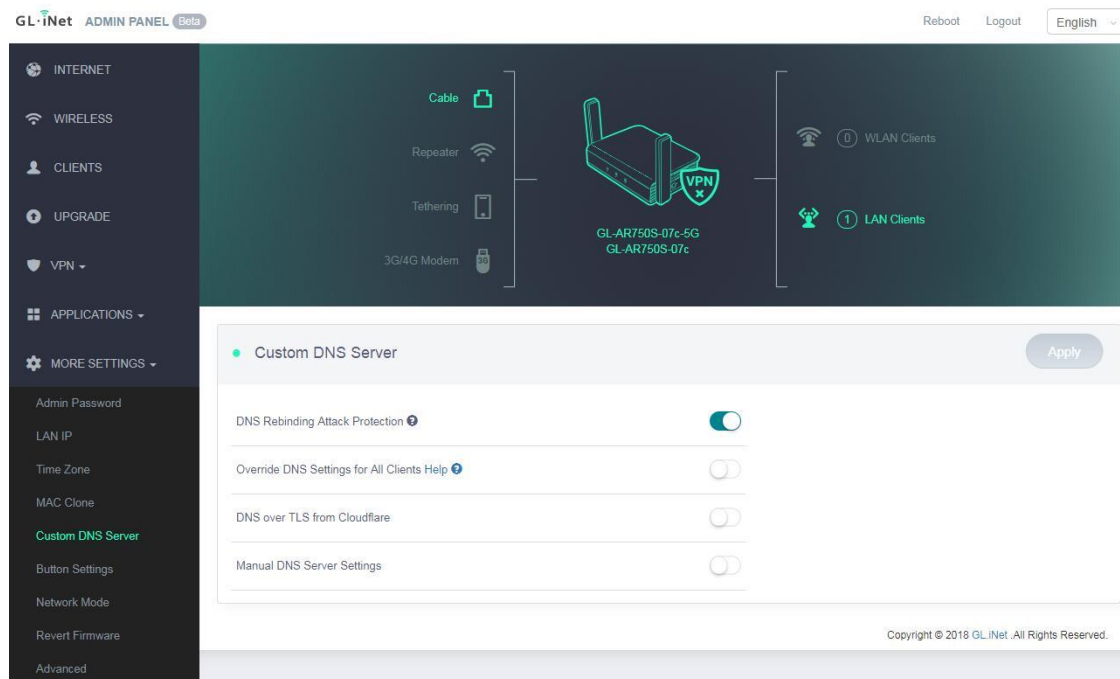
You can configure the DNS server of the router in order to prevent DNS leak or other purposes.

DNS Rebinding Attack Protection: Some network may require authentication in captive portal. Disable this option if the captive portal of your network cannot be resolved.

Override DNS Settings for All Clients: Enabling this option will capture DNS request from all connected clients.

DNS over TLS from Cloudflare: Cloudflare DNS over TLS uses the TLS security protocol for encrypting DNS queries, which helps increase privacy and prevent eavesdropping.

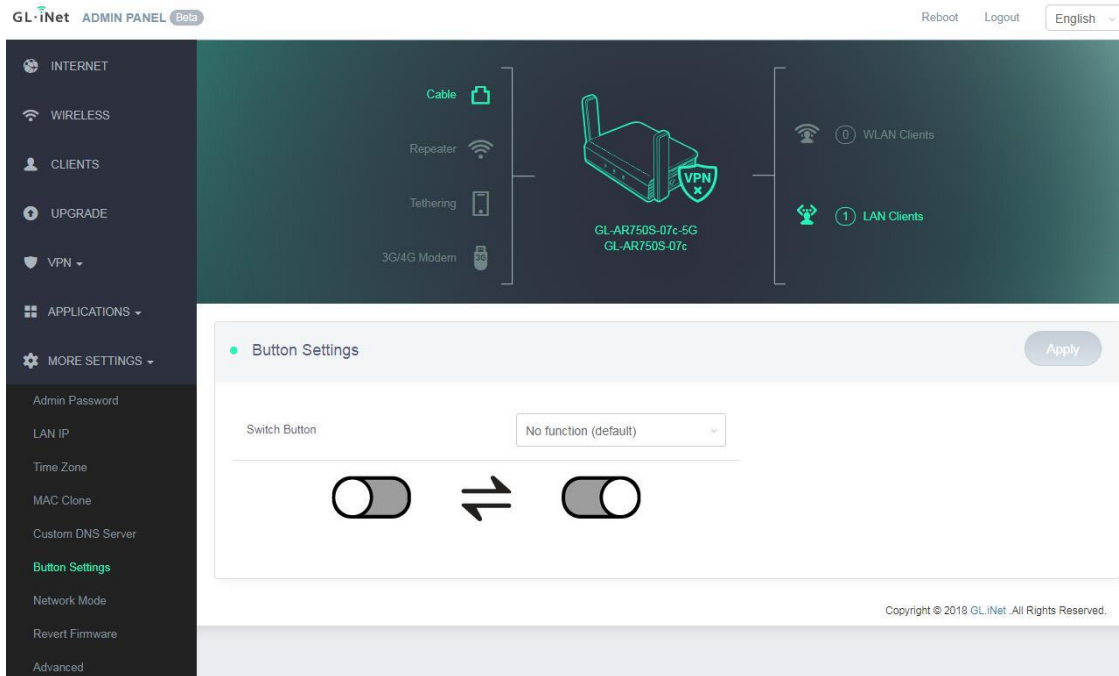
Manual DNS Server Settings: Input a custom DNS server manually.



The screenshot displays the GL.iNet Admin Panel interface. At the top, it shows 'GL.iNet ADMIN PANEL Beta' and navigation options like 'Reboot', 'Logout', and 'English'. A sidebar on the left lists various settings categories: INTERNET, WIRELESS, CLIENTS, UPGRADE, VPN, APPLICATIONS, and MORE SETTINGS. The main content area features a central router icon labeled 'GL-AR750S-07c-5G' and 'GL-AR750S-07c'. To the left of the router are icons for 'Cable', 'Repeater', 'Tethering', and '3G/4G Modem'. To the right are 'WLAN Clients' and 'LAN Clients'. Below this is the 'Custom DNS Server' configuration panel, which includes four toggle switches: 'DNS Rebinding Attack Protection' (checked), 'Override DNS Settings for All Clients Help' (unchecked), 'DNS over TLS from Cloudflare' (unchecked), and 'Manual DNS Server Settings' (unchecked). An 'Apply' button is located at the top right of the settings panel. A copyright notice 'Copyright © 2018 GL.iNet. All Rights Reserved.' is visible at the bottom right of the interface.

9.6. Button Settings

Configure the function of the mode switch. It doesn't have any function by default. You can set it as a toggle to turn on or off Wireguard/OpenVPN client.



9.7. Network Mode

Change the network mode to cater your usage scenario. You may need to reconnect your client device whenever you change the network mode of the router.

Be aware that you may not be able to access the web Admin Panel with the default IP 192.168.8.1 if you use the router in **Access Point**, **Extender** or **WDS** mode. If you want to access the web Admin Panel in this case, you have to use the IP address assigned by the main router to the GL.iNet router.

Router: Create your own private network. The router will act as NAT, firewall and DHCP server.

Access Point: Connect to a wired network and broadcast a wireless network.

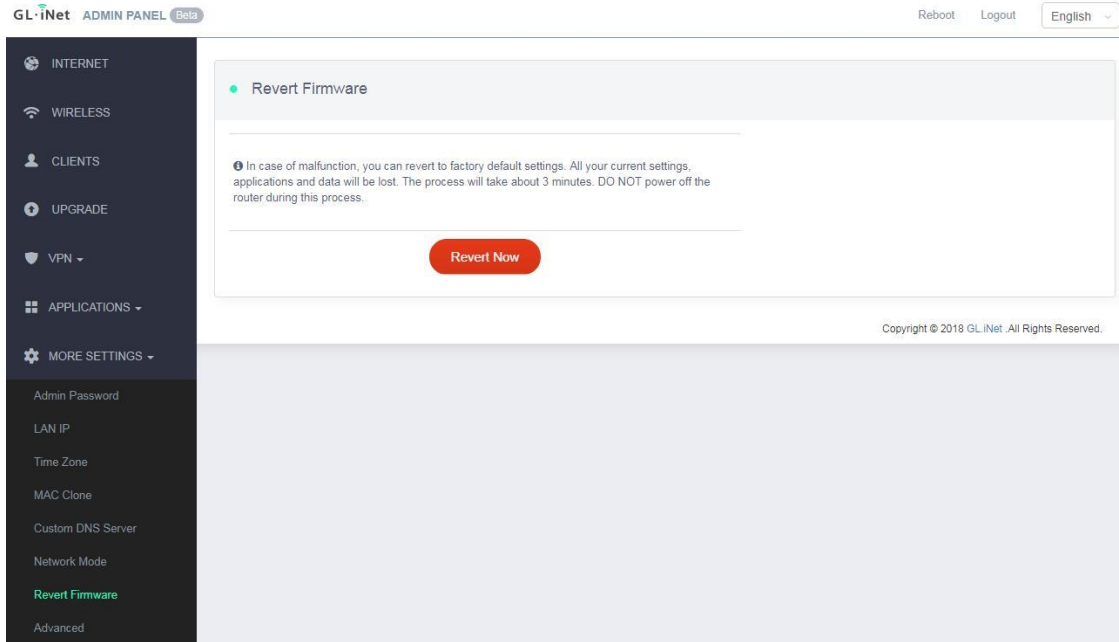
Extender: Extend the Wi-Fi coverage of an existing wireless network.

WDS: Similar to Extender, please choose WDS if your main router supports WDS mode.

The screenshot shows the 'Network Mode' configuration page in the GL.iNet Admin Panel. On the left is a dark sidebar with navigation options: INTERNET, WIRELESS, CLIENTS, UPGRADE, VPN, APPLICATIONS, and MORE SETTINGS. Under 'MORE SETTINGS', 'Network Mode' is highlighted in green. The main content area has a title 'Network Mode' and a diagram showing a router connected to a wireless network, with a 'Multiple WAN' label. Below the diagram are two notes: 'Note: When you change the router's working mode, you may need to re-connect all your client devices.' and 'Note: When you use Access Point/Extender/WDS mode, you may not connect to this UI again. You can Press and hold the reset button for 4 seconds to revert back to router mode.' The 'Mode Switch' section contains four radio button options: Router (selected), Access Point, Extender, and WDS. An 'Apply' button is at the bottom of the form. A copyright notice 'Copyright © 2018 GL.iNet. All Rights Reserved.' is at the bottom right of the page.

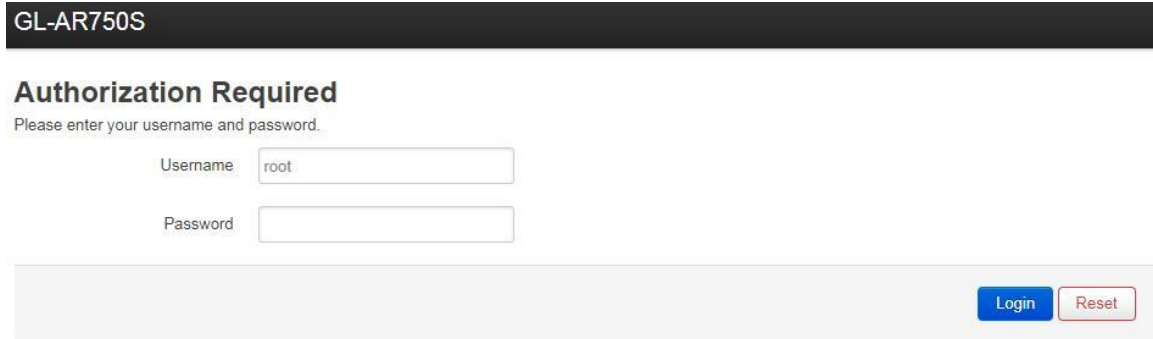
9.8. Revert Firmware

Revert the router to factory default settings. All your settings, applications and data will be erased.



9.9. Advanced

Click Advanced to direct to Luci which is the default web interface of OpenWrt. You can check the detailed system log or conduct more advanced configurations there.



Powered by [LuCI openwrt-18.06 branch \(git-18.196.56128-9112198\)](#) / [OpenWrt 18.06.0-rc1 r7090-d2aa3a1b62](#)

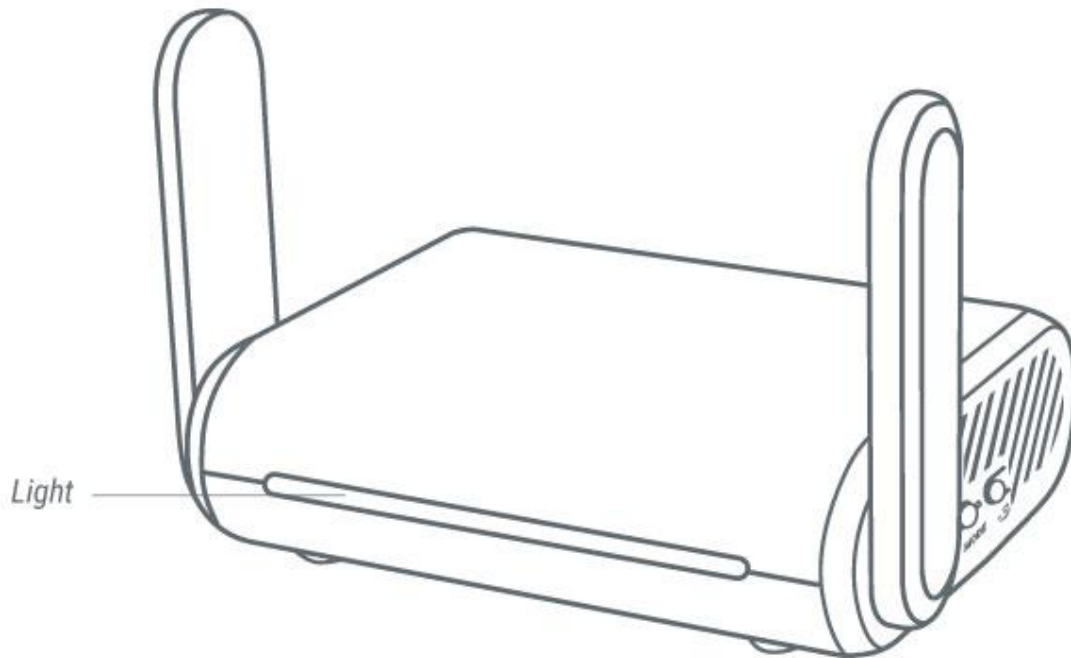
Note: The username is **root**. The password is same as the one that you use to access the web Admin Panel.

10.Troubleshooting

10.1 LED Indicators

LED Status Indication

GL-MT1300/ SFT1200



- **Solid blue light:** Device is powering up.
- **Solid white light:** Network is connected.
- **Slowly growing blue light:** Network disconnects/ No cable connection.
- **Fast flashing blue light:** In reset process.
- **Slowly flashing blue light:** Upgrading firmware in process.

LED Customization

To configure the LED of GL.iNet routers, please login to Luci by clicking **Advanced settings** at the bottom-left corner of the web admin page.

GL.iNet ADMIN PANEL Reboot Logout English

- INTERNET
- WIRELESS
- CLIENTS
- UPGRADE
- FIREWALL
- VPN
- APPLICATIONS
- MORE SETTINGS
- Admin Password
- LAN IP
- Time Zone
- MAC Clone
- Custom DNS Server
- Button Settings
- Network Mode
- Revert Firmware
- Advanced

Revert Firmware

! In case of malfunction, you can revert to factory default settings. All your current settings, applications and data will be lost. The process will take about 3 minutes. DO NOT power off the router during this process.

[Revert Now](#)

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GL-AR750S

Authorization Required

Please enter your username and password.

Username

Password

[Login](#) [Reset](#)

Powered by LuCI openwrt-18.06 branch (git-18.196.56128-9112198) / OpenWrt 18.06.0-rc1 r7090-d2aa3a1b62

Then please choose **System > LED Configuration**.

10.2 Repair or Reset

How to Repair / Reset

All GL.iNet Routers have reset buttons, you can use them to repair your network or reset your routers to factory default. If you can neither access the web-based setup page nor the router, you can press the `reset` button: Repair

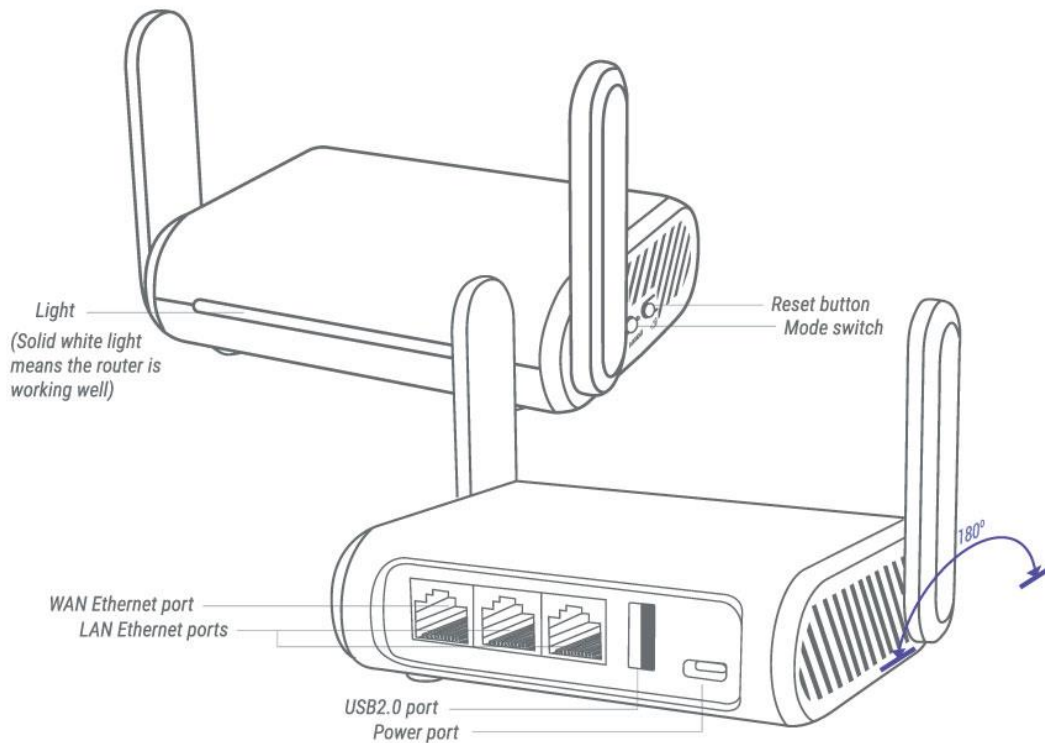
Press and hold for **4 seconds** then release to repair your network.

Reset

Press and hold for **10 seconds** then release to reset the router to factory settings. All user data will be cleared.

Reset Button

GL-SFT1200 Travel AC Router



10.3 Debrick via Uboot

Using Uboot to Debrick Your Router

You may have bricked your router if you were doing some DIY projects or flashed a wrong firmware. You may not be able to access your router but you can re-install the firmware by using Uboot failsafe.

Please follow the procedures below to access the Uboot Web UI and re-install the firmware.

You can also refer to our video, [How to Recover GL.iNet Mini Router by U-Boot FailSafe](#).

1. First you have to download **firmware** to your computer. You can download the firmware [here](#). For GL-AR300M, GL-AR300M-Ext, GL-AR750S-Ext, GL-E750, GL-X1200, please download the .img firmware file. For GL-B1300, GL-S1300, please download the .img firmware. Everyone else, download the .bin firmware file.
2. Connect your computer to the **Ethernet port (either LAN or WAN)** of the router. You **MUST** leave the other port **unconnected**.
3. Press and hold the Reset button firmly first, and then power on your device. (If your device does not have a power button, plugging it in will power it on automatically.)

If you can not find the reset button, please refer to our page, [How to Repair and Reset](#).

Release your finger when you see the LED has flashed:

4. The Power LED will light up. Then, other LEDs will start flashing.
 - **6 times** for GL-MiFi, and then the LTE light will faintly flash twice.
 - **5 times** for GL-AR150, GL-AR300M, GL-USB150, GL-AR750, GL-AR750S-Ext (Slate), GL-X750-Ext (Spitz), GL-MT300N-V2, GL-E750 (Mudi).
 - **4 times** for GL-S1300, GL-B1300.

The leftmost LED may stay on the whole time while the rightmost LED flashes 4 times, then the middle LED turns on and stays on.

(For some old GL-B1300, the leftmost LED stays on the whole time, and both the middle LED and the rightmost LED flash 5 times at the same time then they stay on.)

- **3 times** for GL-MT300N, GL-MT300A.

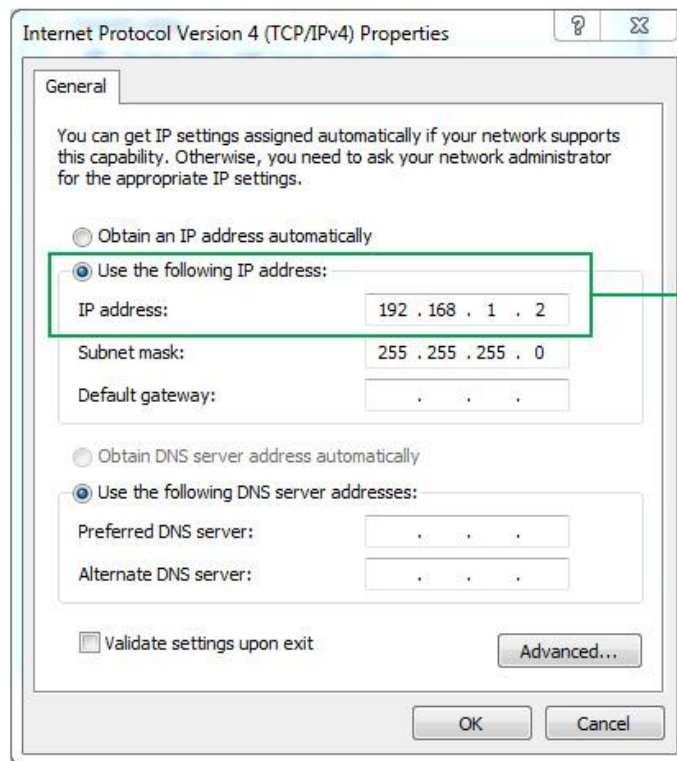
- **For GL-MT1300**, the LED is blue at first, flash twice slowly, then light 5 times a bit quick and turn to white and stay on.
- **For GL-SFT1200(Opal)**, the blue LED flashes 5 times then turns white and stay on.
- **For GL-B2200**, the two LEDs are blue at first, then turn white to flash 5 times, then turn blue and stay on.
- **No repeat LED flashes signal** for GL-MV1000.

(Power and WAN LEDs will stay on the whole time.)

5. Set your computer's IP address to **192.168.1.2**. Please check the step-by-step guide for different operating systems below:

Windows 7 / Windows 10

- a. Go to Control Panel -> Network and Internet -> Network and Sharing Center -> Change adapter settings.
- b. Right click Local Area Connection -> Properties.
- c. Click Internet Protocol Version 4 (TCP/IPv4) -> Properties.
- d. Set the IP adress to 192.168.1.2 manually.

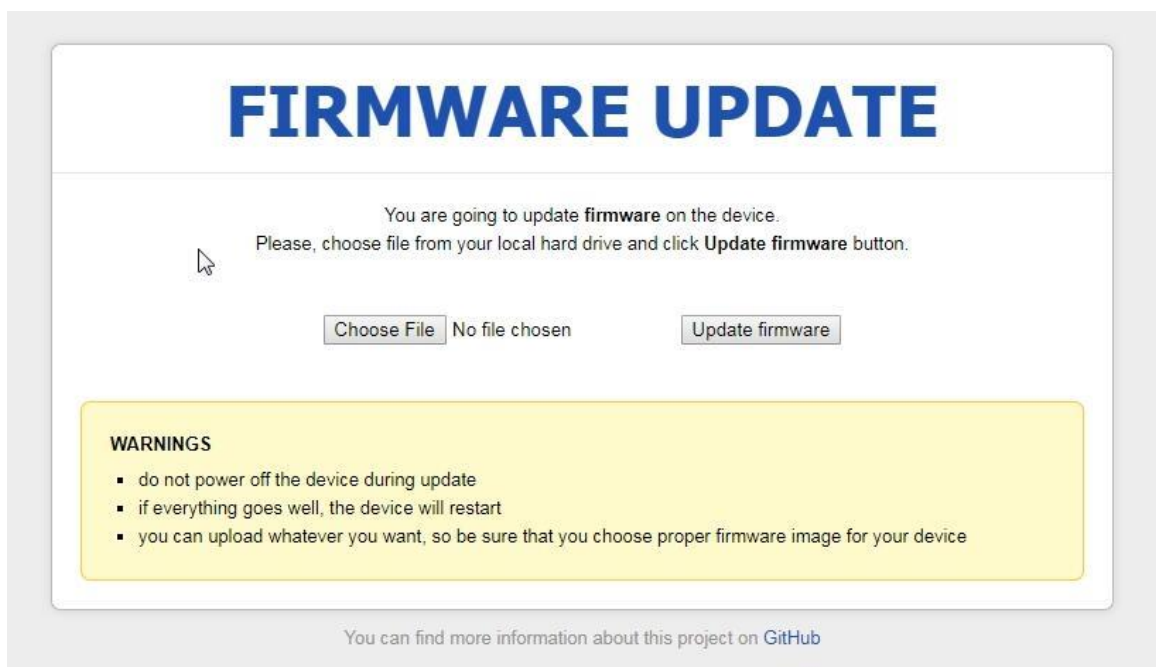


Set computer's IP address to 192.168.1.2

Mac

- a. Go to System Preferences -> Network.
- b. Choose Ethernet -> Advanced -> TCP/IP.
- c. In Configure IPv4, choose Manually.
- d. Set the IPv4 Address to 192.168.1.2 manually.

6. Use Firefox or Chrome to visit <http://192.168.1.1>.



7. Click **Choose File** to find the firmware file. Then click **Update firmware**.
For GL-AR300M, GL-AR300M-Ext, GL-AR750S-Ext, please download the .img firmware file and upload to the NAND

flash.

FIRMWARE UPDATE

You are going to update **firmware** on the device.
Please, choose file from your local hard drive and click **Update firmware** button.

For **NAND** flash firmware (*.img), please use this form.

Choose File No file chosen Update nand firmware

For **NOR** flash firmware (*.bin), please use this form.

Choose File No file chosen Update nor firmware

WARNINGS

- do not power off the device during update
- if everything goes well, the device will restart
- you can upload whatever you want, so be sure that you choose proper firmware image for your device

You can find more information about this project on [GitHub](#)

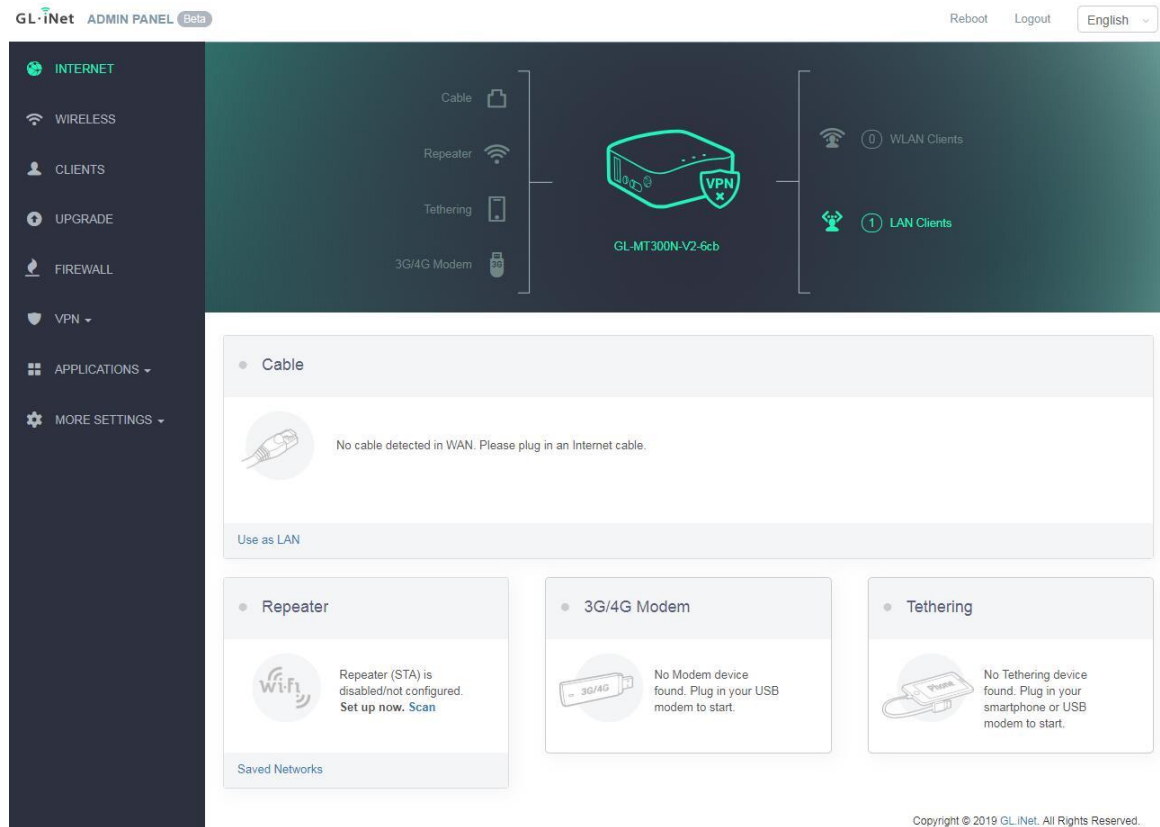
8. Wait for around 3 minutes. Don't power off your device when updating. The router is ready when both power and Wi-Fi LED are on or you can find its SSID on your device.
9. Revert the IP setting you did in step 6 and connect your device to the LAN or Wi-Fi of the router. You will be able to access the router via 192.168.8.1 again.

10.4 Change WAN to LAN

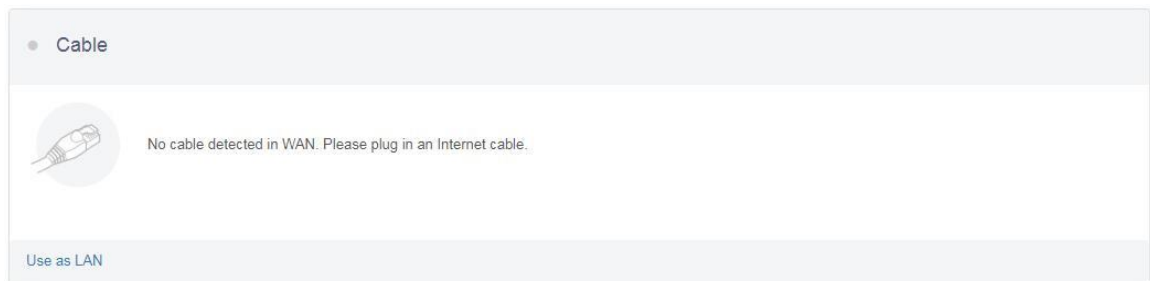
You can configure the WAN port of the router so that it can be used as a LAN port. That's useful when you are using the router in repeater mode which the WAN port is not required. As a result, you can have one more LAN port.

Especially for **GL-AR300M-Lite**, it only has one Ethernet port which works as WAN by default. Therefore, you must connect to it via Wi-Fi. However, once you have connected to it, you can change its WAN port to LAN so that you can connect to it via an Ethernet cable.

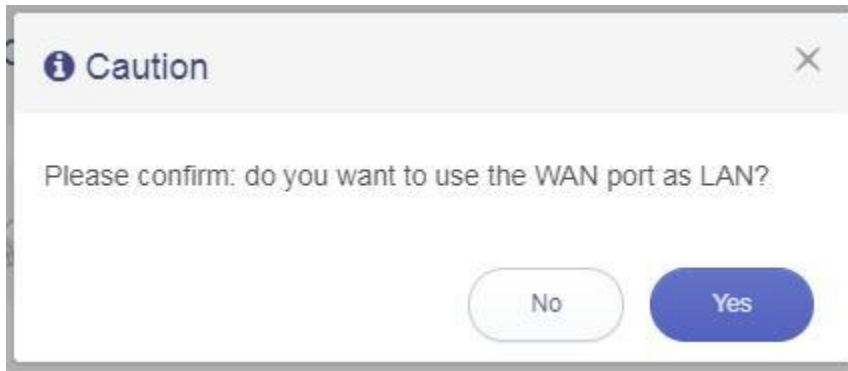
1. Leave the WAN port of the router unconnected.
2. Connect your device to the router and access the web Admin Panel.



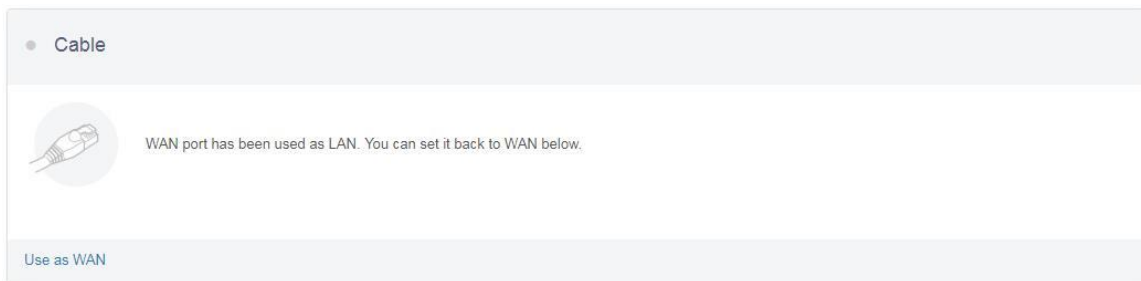
3. Go to **Internet**, click **Use as LAN** under the Cable section.



4. Click **Yes** to confirm.



You can simply revert the setting by repeating the above procedures. This time, it will show **Use as WAN** in step 3.



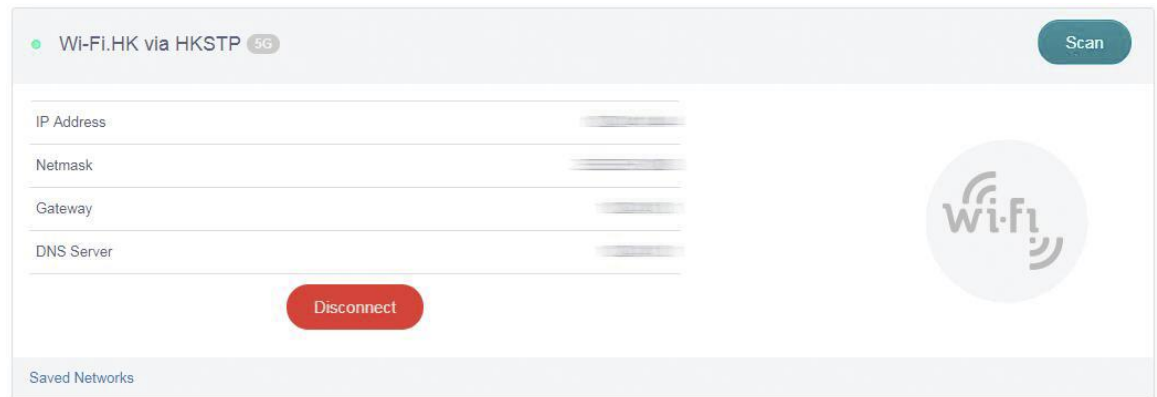
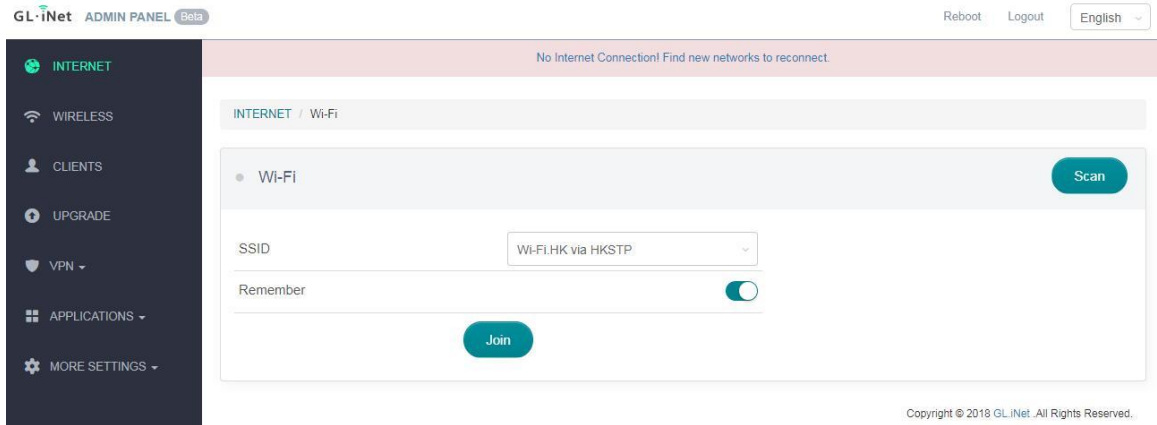
10.5 Captive Portal

Connect to a Hotspot with Captive Portal

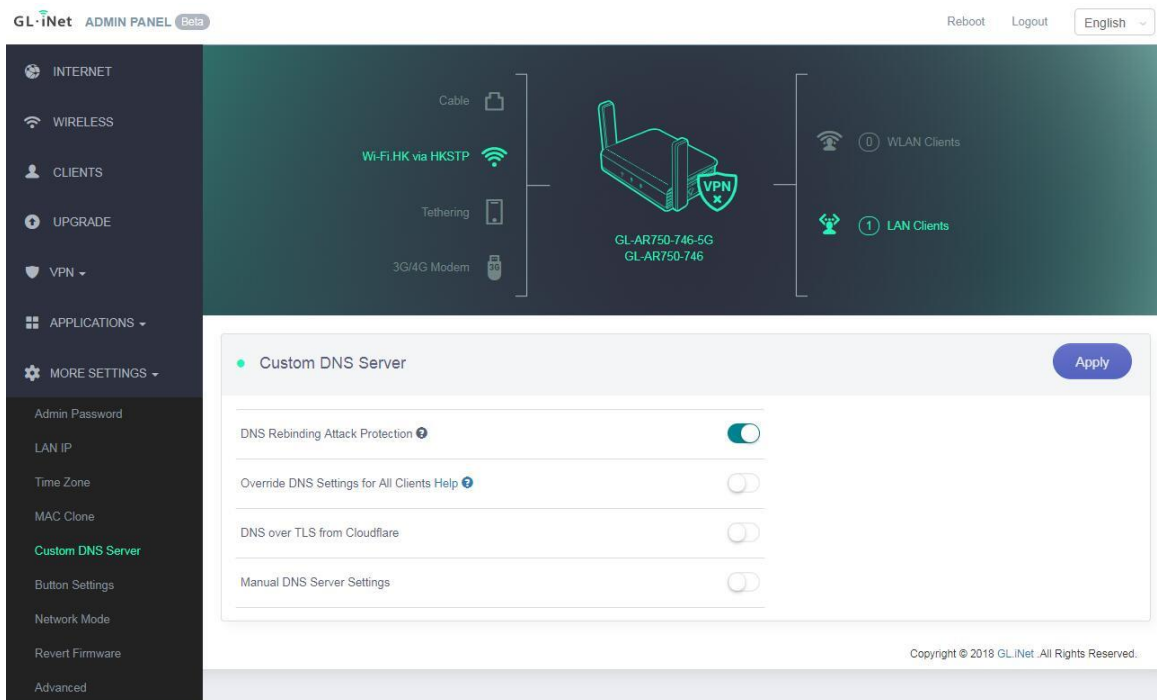
Some public hotspots especially those in hotel, cafe or airport, require you to input your authentication information or agree the terms and conditions through a web page (**Captive Portal**) before you can connect to it or access the Internet.

However, you may find that you are not able to enter the captive portal so that you cannot connect to the hotspot or access the Internet. In this case, please follow the following procedures to disable the **DNS rebind protection**.

-
1. Connect to the public hotspot which requires authentication through captive portal.



2. Go to Admin Panel -> MORE SETTINGS -> Custom DNS Server. Then, disable **DNS Rebinding Attack Protection**.



3. Use your web browser to visit a webpage, it will be redirected to the captive portal of the hotspot automatically.

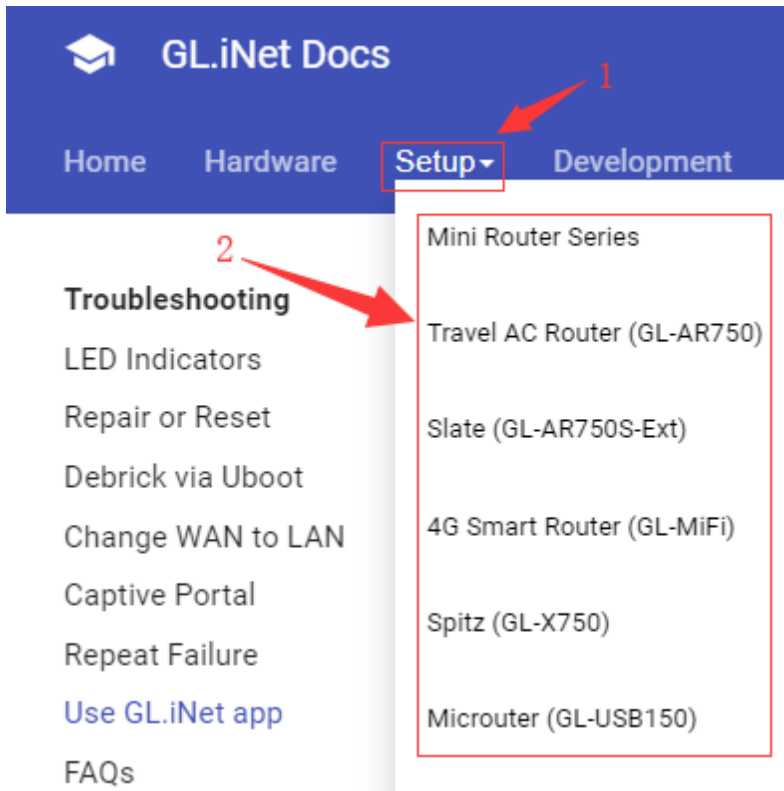
If you are using smartphone but your web browser doesn't redirect to the captive portal. Please turn off the Wi-Fi of your smartphone and then turn it on and reconnect to the Wi-Fi of your router again. The captive portal should be popped up directly after you entered the Wi-Fi password.



10.6 GL.iNet app

GL.iNet app requires router firmware version 3.100 and above. Please upgrade.

Click the Setup menu, choose your model.



Then click the Upgrade on the left side.

- First-time Setup
- Internet
- Wireless
- Clients
- Upgrade** ←
- Firewall
- VPN
- Applications
- More Settings

Some models don't have V3.100 release firmware yet, please try testing(pre-release) firmware. Please find the download info at [Firmware Release](#) page.

10.7 Access Web Panel

Sometimes you may be unable to access 192.168.8.1 to login web admin panel, please follow the guide below to solve this problem.

Check connection/router's IP address

Make sure your WAN/LAN port connection is correct. WAN port is connected to an internet source and LAN port is connected to devices. If connected by wifi, make sure the SSID is correct.

Then follow the steps below to check the router's IP address.

Windows 7 / Windows 10

Your ip address results determine the next step.

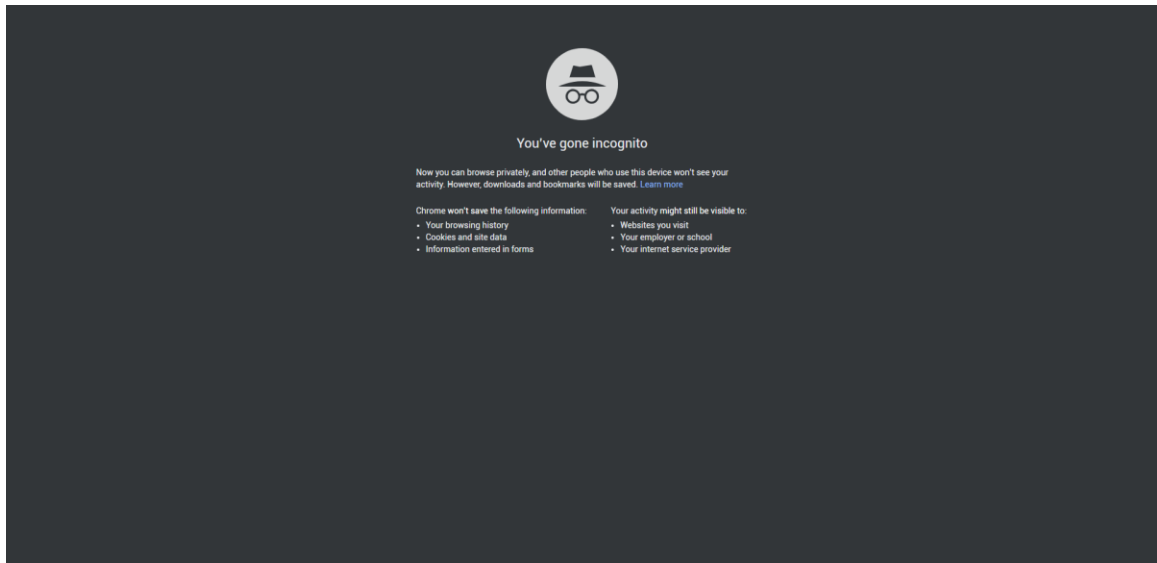
Your IP address is incorrect

If the IP address is incorrect, check your connection again.

1. Try [Reset](#) to back to factory default.
 2. If the reset doesn't work, you can try [Debrick via uboot](#).
-

Your IP address is correct

1. Make sure you are using Chrome/Firefox, then try to access 192.168.8.1 again.
2. In order to avoid problems caused by the cache, click **ctrl+shift+n** in Chrome to enter the incognito mode. Then try to access 192.168.8.1 again.



10.8 Extensible Authentication Protocol (EAP)

Introduction

You can connect to EAP (Extensible Authentication Protocol) Wi-Fi network which requires username and password authentication on GL.iNet routers.

This guide is how to connect an EAP Wi-Fi network via GL admin panel.

- Supported models: GL-AR300M Series, GL-USB150, GL-AR750, GL-AR750S, GL-B1300, GL-S1300, GL-AP1300, GL-E750, GL-X750, GL-MiFi, GL-XE300, GL-AX1800, GL-B2200, GL-X300B, GL-X1200, GL-AXT1800
 - Not supported models: GL-MT300N-V2, microuter-N300, GL-MT1300, GL-MV1000W, GL-MV1000, GL-SF1200, GL-SFT1200
-

Connect via web panel

1. Visit the Admin Panel

The screenshot shows the GL.iNet Admin Panel interface. The top navigation bar includes 'GL.iNet ADMIN PANEL', 'Reboot', 'Logout', and a language dropdown set to 'English'. The left sidebar contains menu items: INTERNET, WIRELESS, CLIENTS, UPGRADE, FIREWALL, VPN, APPLICATIONS, and MORE SETTINGS. The main content area displays the 'Internet' settings for a GL-MV1000-82b router. The 'Cable' tab is active, showing a table with the following configuration:

Protocol	DHCP
IP Address	192.168.50.230
Netmask	255.255.255.0
Gateway	192.168.50.1
DNS Server	192.168.50.1

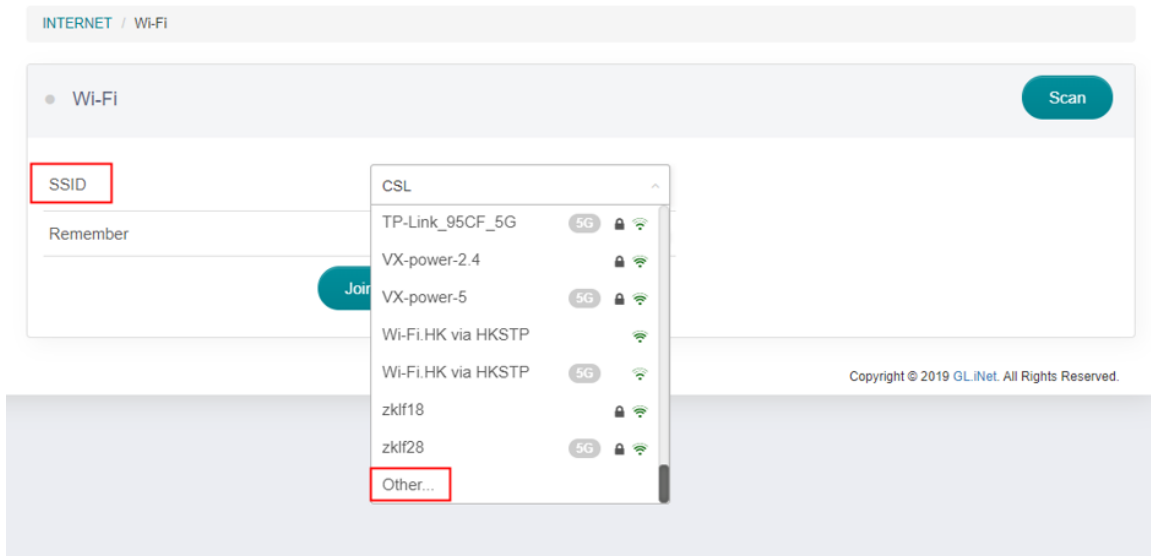
Below the table is a 'Modify' button. To the right is an illustration of an Ethernet cable. Below the main settings are three tabs: 'Repeater', 'Tethering', and '3G/4G Modem'. The 'Repeater' tab is highlighted with a red box and contains the text: 'Repeater (STA) is disabled/not configured. Set up now **Scan**'. The 'Tethering' tab shows 'No Tethering device found. Plug in your smartphone or USB modem to start.' The '3G/4G Modem' tab shows 'No Modem device found. Plug in your USB modem to start.'

Visit the Admin Panel and click "Scan" in the Internet -> Repeater.

The screenshot shows the 'Wi-Fi' scanning progress in the Admin Panel. The breadcrumb 'INTERNET / Wi-Fi' is visible. The 'Wi-Fi' tab is active, and a 'Scan' button is present. A progress bar below the tab indicates that the scan is 27% complete. The footer of the page reads 'Copyright © 2019 GL.iNet. All Rights Reserved.'

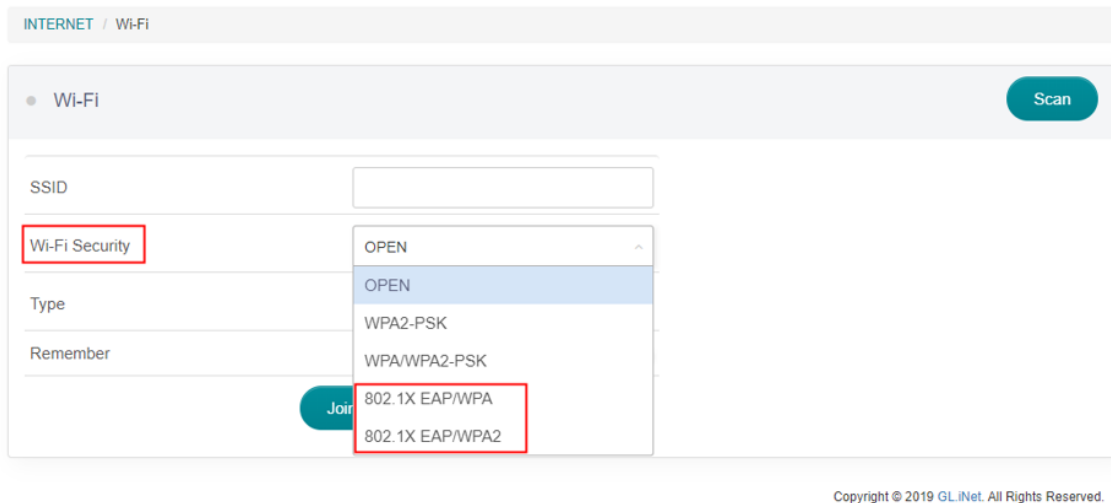
You can find and connect to the EAP SSID to connect directly.

2. SSID



Or choose “Other” in the drop-down list of SSID, then select EAP type in Wi-Fi Security drop-down list.

3. Wi-Fi Security



Currently, we only support two types: 802.1X EAP/WAP and 802.1X EAP/WAP2.

4. Type

INTERNET / Wi-Fi

Wi-Fi Scan

SSID

Wi-Fi Security 802.1X EAP/WPA

Type
2.4G
5G

User Name

Password

Remember

Join

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Choose 2.4G or 5G.

5. User Name and Password

INTERNET / Wi-Fi

Wi-Fi Scan

SSID

Wi-Fi Security 802.1X EAP/WPA

Type 2.4G

User Name

Password

Remember

Join

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Enter your User Name and Password and then click join.

Connect via Luci

Our web page only supports few EAP types for now so you may need to connect via Luci page in most situations.

1. Visit the Luci page

Go to MORE SETTINGS->Advanced.

The screenshot shows the GL.iNet Admin Panel interface. The top navigation bar includes 'Reboot', 'Logout', and a language dropdown set to 'English'. The left sidebar contains a menu with 'MORE SETTINGS' highlighted in red. The main content area displays the 'Cable' configuration page, which includes a table of network settings and three status cards for Repeater, Tethering, and 3G/4G Modem.

Protocol	DHCP
IP Address	192.168.3.67
Netmask	255.255.255.0
Gateway	192.168.3.254
DNS Server	202.96.134.133 114.114.114.114

Below the table is a 'Modify' button. The status cards below show:

- Repeater:** Repeater (STA) is disabled/not configured. Set up now. Scan
- Tethering:** No Tethering device found. Plug in your smartphone or USB modem to start.
- 3G/4G Modem:** No Modem device found. Plug in your USB modem to start.

Input your web password.

The screenshot shows the login page for the GL-AR750S device. It features a title 'Authorization Required' and a prompt 'Please enter your username and password.' The form includes input fields for 'Username' (containing 'root') and 'Password' (masked with dots). At the bottom right of the form are 'Login' and 'Reset' buttons.

Powered by LuCI openwrt-18.06 branch (git-18.196.56128-9112198) / OpenWrt 18.06.1 r7258-5eb055306f

Then you will enter luci page.

2. Connect to EAP wifi

Go to Network->Wifi(or Wireless).

The screenshot shows the OpenWrt web interface for a GL-AR750S router. The top navigation bar includes 'Status', 'System', 'Network', and 'Logout', along with an 'AUTO REFRESH ON' button. A dropdown menu is open under 'Network', with 'Wireless' selected. The main content area is divided into several sections:

- Status**: A summary of system information including Hostname, Model, Architecture (QCA956X ver 1 rev 0), Firmware Version (OpenWrt 18.06.1 r7258-5eb055306f / LuCI openwrt-18.06 branch (git-18.196.56128-9112198)), Kernel Version (4.9.120), Local Time (Thu Mar 19 03:02:58 2020), Uptime (0h 13m 23s), and Load Average (0.22, 0.20, 0.22).
- Memory**: A table showing memory usage with progress bars:

Total Available	68104 kB / 124340 kB (54%)
Free	60092 kB / 124340 kB (48%)
Buffered	8012 kB / 124340 kB (6%)
- Network**: Configuration for the 'eth0.2' interface, split into IPv4 and IPv6 sections.

IPv4 Upstream	IPv6 Upstream
Protocol: DHCP client Address: 192.168.3.67 Netmask: 255.255.255.0 Gateway: 192.168.3.254 DNS 1: 202.96.134.133 DNS 2: 114.114.114.114 Expires: 23h 47m 31s Connected: 0h 12m 29s	Protocol: <i>Not connected</i> Address: :: Gateway: ::
Device: Software VLAN: "eth0.2" MAC-Address: 94:83:C4:00:26:80	Device: -
Active Connections: 236 / 16384 (1%)	

Click 'Scan' on 2.4G section or 5G section.

radio0: Master "GL-AR750S-680-Guest-5G" radio0: Master "GL-AR750S-680-5G" radio1: Master "GL-AR750S-680-Guest"
 radio1: Master "GL-AR750S-680"

Wireless Overview

radio0	Generic MAC80211 802.11nac Channel: 36 (5.180 GHz) Bitrate: ? Mbit/s	Restart	Scan	Add
0%	SSID: GL-AR750S-680-5G Mode: Master BSSID: 94:83:C4:00:26:81 Encryption: WPA2 PSK (CCMP)	Disable	Edit	Remove
0%	SSID: GL-AR750S-680-Guest-5G Mode: Master Wireless is disabled	Enable	Edit	Remove
radio1	Generic MAC80211 802.11bgn Channel: 11 (2.462 GHz) Bitrate: ? Mbit/s	Restart	Scan	Add
0%	SSID: GL-AR750S-680 Mode: Master BSSID: 94:83:C4:00:26:81 Encryption: WPA2 PSK (CCMP)	Disable	Edit	Remove
0%	SSID: GL-AR750S-680-Guest Mode: Master Wireless is disabled	Enable	Edit	Remove

Associated Stations

Network	MAC-Address	Host	Signal / Noise	RX Rate / TX Rate
No information available				

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Join the network you want.

Join Network: Wireless Scan

Signal	SSID	Channel	Mode	BSSID	Encryption	
31%	GL-B1300-4C2	5	Master	E4:95:6E:43:34:C2	mixed WPAWPA2...PSK	Join Network
42%	GL-OFFICE1	6	Master	94:83:C4:01:84:06	WPA2 - PSK	Join Network
30%	GL-OFFICE1	6	Master	94:83:C4:01:83:F2	WPA2 - PSK	Join Network
45%	GL-E750-da5	11	Master	94:83:C4:00:AD:A6	WPA2 - PSK	Join Network
Back to overview Repeat scan						

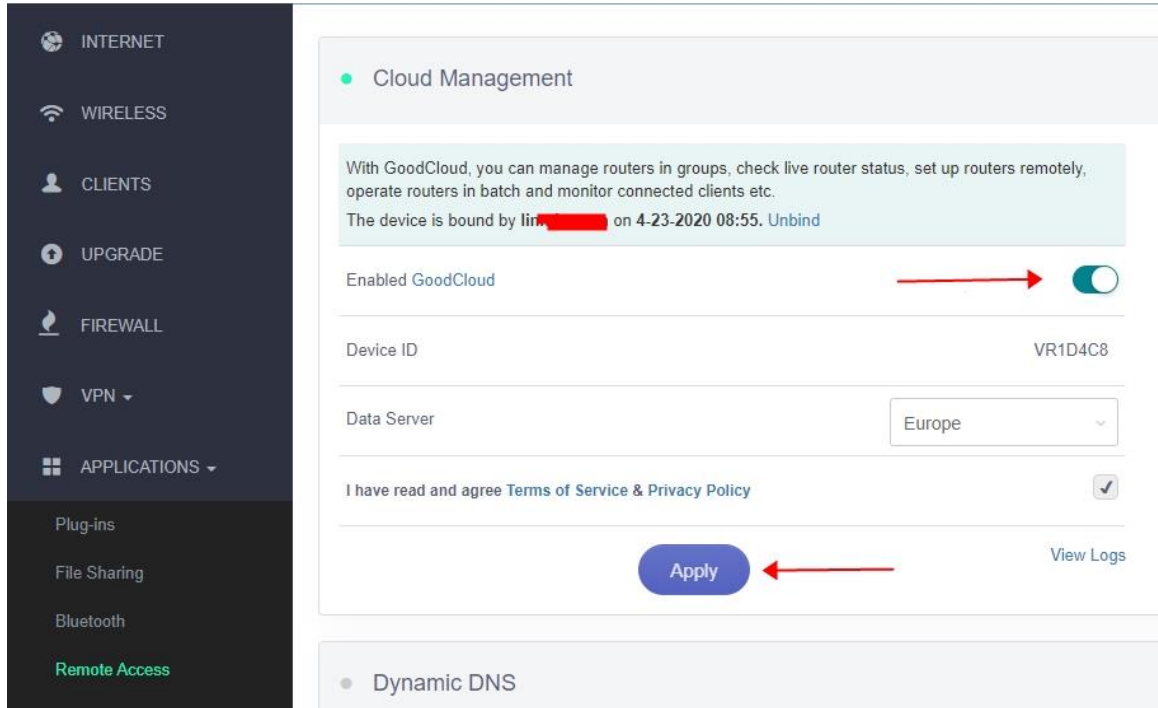
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10.9 GoodCloud issues

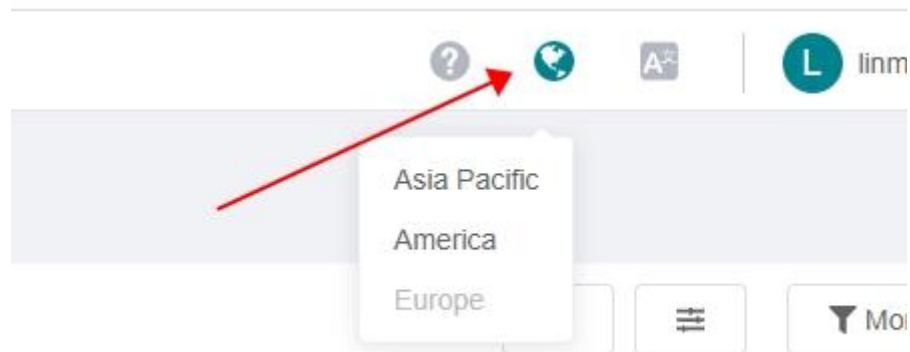
How to fix if my device show "Deactivated"

The "Deactivated" mean the device never been connected to the server before.

1. Make sure the router has connected to the Internet.
2. And try to disable and re-enable the GoodCloud on router's Admin Panel. Don't forget to click "Apply" button.



3. Make sure to access to the right region of



GoodCloud.