



InHand Device Manager Platform

Simple and Efficient Device Management Solution

Quick Guide
Issue: V3.0 - 2023

InHand Networks
Global Leader in Industrial IoT
www.inhandnetworks.com

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1 About the Platform

Device Manager ("DM") is an Internet of Things (IoT) device management cloud platform of the "new generation" independently developed and operated by InHand. With visual user interfaces (UIs) and easy-to-use processes, it allows you to conveniently manage and monitor hardware devices of InHand such as routers and gateways and quickly deploy and manage massive devices in one-click manner. You can just deploy your applications on the cloud without caring about maintenance, allowing you to focus on your core business and empower your enterprise.



Quick start with the platform:

Register an account -> Configure a router or gateway and connect it to the platform -> Enable management of the router or gateway device

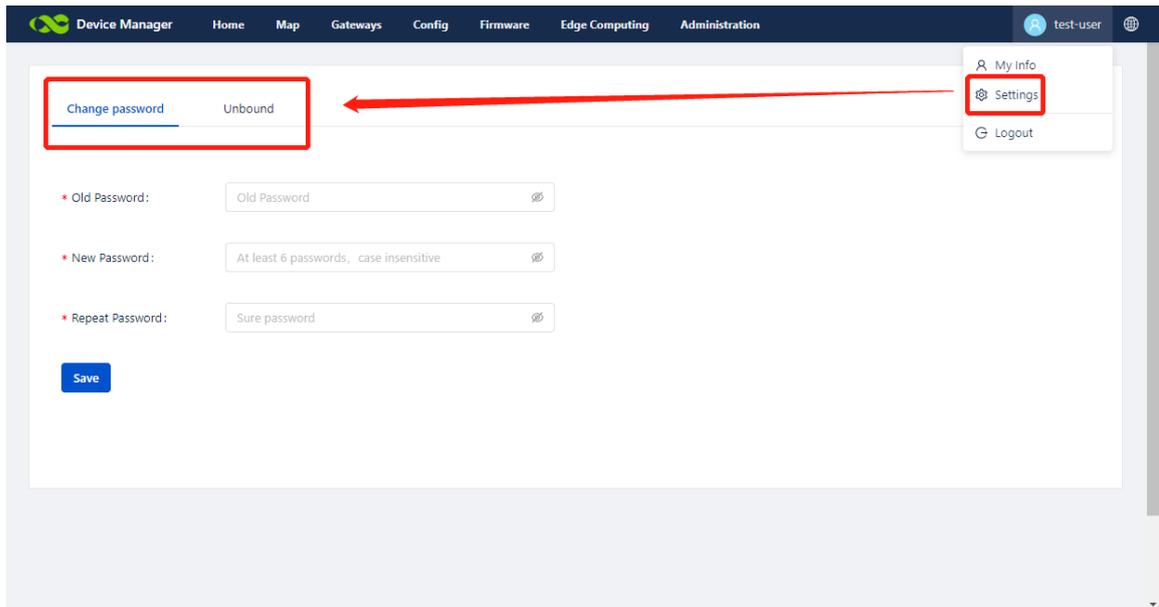
2 Registration and Login

1. Registration

On a browser, enter <https://iot.inhandnetworks.com/> to visit the office website of Device Manager. Click **Register Account**, enter an email account and relevant information, and click **Submit**. The authenticity of your email account will be verified. Please activate the account as instructed.

2. Login

After registration, log in to the platform with the email account and password you used for registration. After login, choose **Personal Center** >> **Settings**, modify the login password and bind a phone number. Then, use the phone number and the verification code or the phone number and password for login. You can also use the phone number for recovering your password.



3 Connect Gateway Devices to DM

The following devices are supported to be managed on Device Manager platform: InRouter200, InRouter300, InRouter600, InRouter900, InGateway900, InGateway500, InVehicleG710, InVehicleG810. After connection configuration is made on the device, a new device data record is automatically added to DM. You do not need to manually record the device data on DM. The following describes the details.

Configure the router to connect it to DM. Before configuration, make sure that the router has been connected to the network. [For more information about networking operation, see the appendix.](#)

3.1 Connect IR300/IR600 to DM

After connecting the router to a PC, visit 192.168.2.1 or 192.168.1.1 on a browser, enter the login account **adm** and password **123456** to log in to the device web page. On the web page, choose **Services >> Device Manager**, choose **Service Type** as **Device Manager** and **Server** as **iot.inhandnetworks.com** and enter the email account you used for registration with DM in **Registered Account**:

System Network **Services** Firewall QoS VPN Tools Application Status

Your password have security risk, please click here to change!

Device Manager

Enable

Service Type **Device Manager**

Server

Secure Channel

Registered Account Sign up/Sign in

Site Name

LBS info Upload Interval Hours

Series Info Upload Interval Hours

Channel Keepalive Seconds

Apply Cancel

System Network Services **Firewall** QoS VPN Tools Application Status

Your password have security risk, please

Device Manager

Enable

Service Type **Device Manager**

Server **iot.inhandnetworks.com**

Secure Channel

Registered Account Sign up/Sign in

Site Name

LBS info Upload Interval Hours

Series Info Upload Interval Hours

Channel Keepalive Seconds

Apply Cancel



Caution

The page varies with the device firmware version. The actual page shall prevail.

After the router is configured, a gateway data record is automatically added to the **Gateways** page on DM. You do not need to manually record the data. When the router status is **Online**, the device has been connected to DM:

Gateway Name	Signal Strength	Serial Number	IMSI	Firmware Version	Action
RT6151931456078	...	RT6151931456078		2.3.0.r4870	[Edit] [Refresh]
GT9022008001249	...	GT9022008001249	460110505291918	1.0.0.r11628	[Edit] [Refresh]
+ 3	...	GF9022222222224			[Edit]

3.2 Connect IR900/VG710 to DM

After connecting the router to a PC, visit 192.168.2.1 or 192.168.1.1 on a browser, enter the login account **adm** and password **123456** to log in to the device web page. On the web page, choose **Administration >> Device Manager**, set **Service Type** to Device Manager, select **iot.inhandnetworks.com** from **Server Address**, and enter the email account you used for registration with DM in **Registered Account**:

Administration >> Device Manager

Status Device Manager Device Manager Legacy

Your password has security risk, please click here to change!

Device Manager Enable

Service Type Device Manager

Server Address iot.inhandnetworks.com

Secure Channel

Registered Account xxx@inhand.com.cn Sign up/Sign in

Site Name

Asset Number

Show Advanced Options

Apply & Save Cancel

Click **Apply & Save**. If the status is **Connected**, the device has been connected to DM:

Administration >> Device Networks

English | 中文 Username: adm Logout

Status Device Networks Device Management Legacy

Your password has security risk, please click here to change!

Device Networks

Device Networks	Description
Connected	Connection Accepted

Manual Refresh Refresh

Alarm

Total Alarms: 0

Alarm Summary

3 s Stop

Save Configuration

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Caution

The page varies with the device firmware version. The actual page shall prevail.

After the router is configured, a gateway data record is automatically added to the **Gateways** page on DM. You do not need to manually record the data. When the router status is **Online**, the device has been connected to DM:

Gateway Name	Signal Strength	Serial Number	IMSI	Firmware Version	Action
GT9022008001249	Full	GT9022008001249	460031025281133	1.0.0.r11628	[Edit] [Refresh]
3	Full	GF9022222222224			[Edit]
1	Full	GF9022222222223			[Edit]

3.3 Connect IG500/IG900 to DM

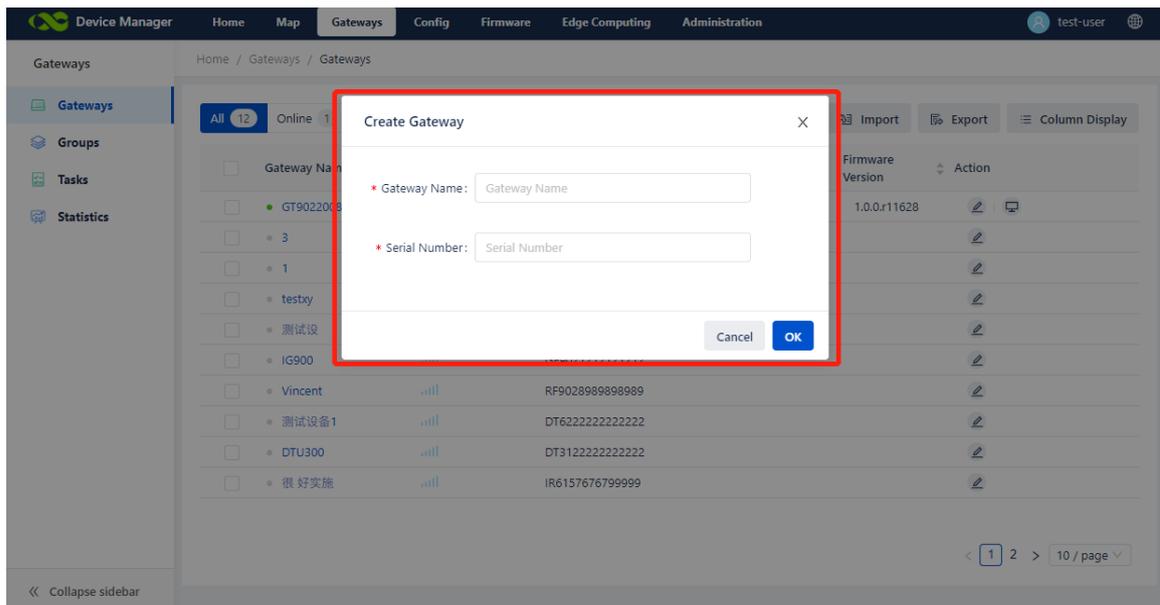
After connecting the router to a PC, visit 192.168.1.1 on a browser, enter the login account **adm** and password **123456** to log in to the device web page. On the web page, choose **System >> InHand Cloud**, on the tab page of **InHand Device Manager**, set **Server Address** to **iot.inhandnetworks.com**, and enter the email account you used for registration with DM in **Registered Account**:

3.4 Add Gateway to DM

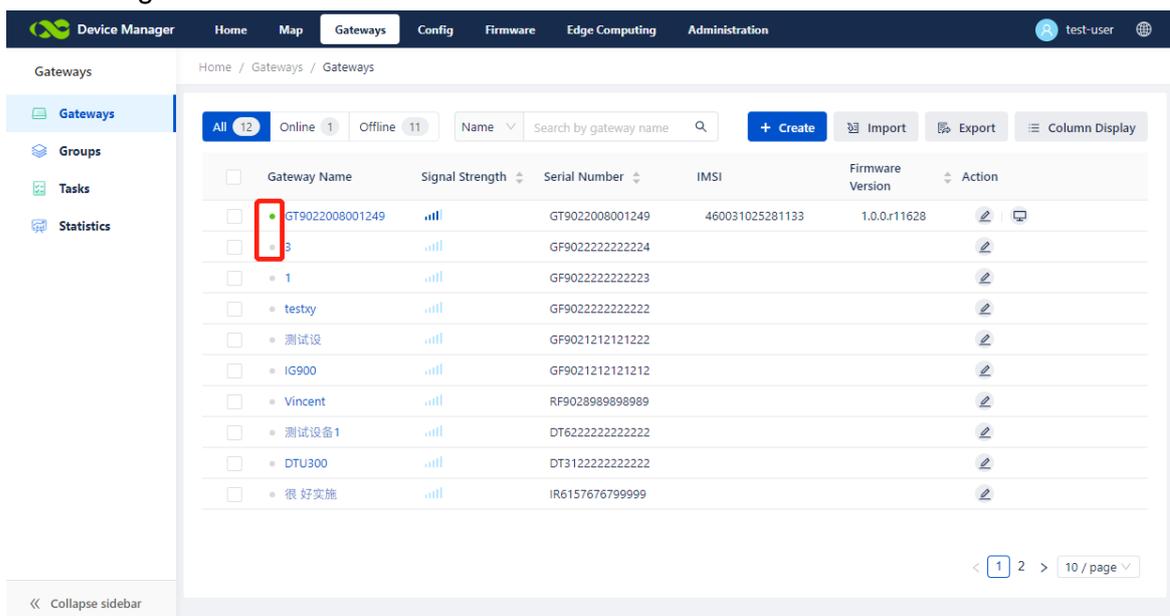
As mentioned above, after the router is configured, a gateway data record is automatically added to the **Gateways** page on DM. You can manually add the data before configuring the router. The status of the manually added gateway is **Offline**. After the gateway can be connected, its status changes to **Online**.

◆ Add a single gateway

1. Choose **Gateways >> +**. Enter a gateway name in **Gateway Name**, enter the serial number in **Serial Number**. To view the serial number, on the home page, choose **Administration >> System >> Status or Gateway Nameplate S/N**, and then click **OK**.

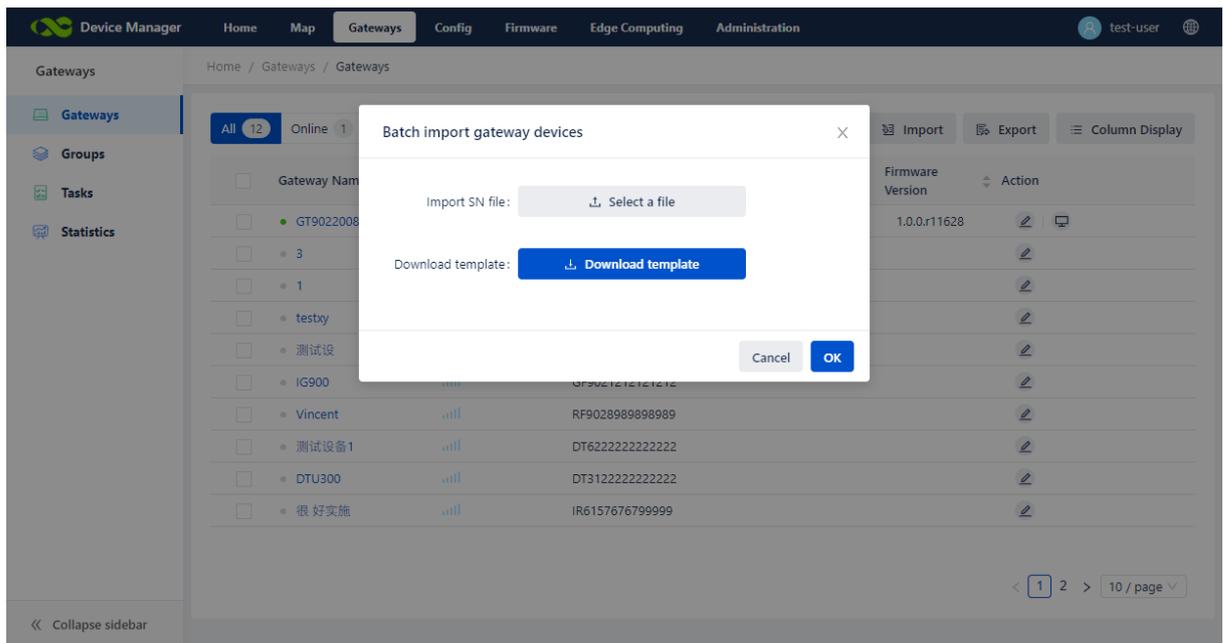


- Return to the **Gateways** page. The device is added. If the dot before the gateway name turns green, the device is online and connected to DM and the network. If the dot is gray, the device is offline and disconnected from the network. DM cannot manage and monitor offline devices.



◆ Add gateways in batches

- Choose **Gateways** >> **Import** >> **Download Template**, enter the gateway information, and save the template. Click **Select File**, select the saved template, and click **OK**.



2. Return to the Gateways page to view the imported device.

4 Gateway Management

After a gateway is connected to DM, you can manage the device on DM, such as device asset management, configuration update, firmware upgrade, position tracking, running monitoring, and operation command monitoring.

4.1 Basic Management

4.1.1 Information Management

In the **Details Information** section of the **Gateways** page, you can manage key information of the gateway, including basic information (such as the model, serial number, IP address, RSSI, and IMSI), running information (such as traffic statistics and online statistics), and control information (such as task list). Devices connected to DM regularly report their traffic, online status, and other running information to DM for real-time monitoring and analysis.

Device Manager Home Map Gateways Config Firmware Edge Computing Administration test-user

Gateways

← GT9022008001249 Online Web management Remote configuration Edit

Serial Number: GT9022008001249 Device Models: IG902 Firmware Version: 1.0.0.r11628
 Created At: 2020-04-08 15:07:58 Updated At: 2020-04-10 21:08:38 Online Duration: 0 day 4 hours 18 minutes 16 seconds

Basic Info Edge Computing

Detailed Information

IP: 110.184.227.74 Phone: Address:
 RSI: Configuration State: SYNC succeeded Login Protocol: mqtt
 IMSI: 460031025281133 IMEI: 0x8095B6FE ICCID:
 Hardware Version: Bootloader Version: 2017.01.r10517 Reconnect Reason:

Data Usage 2020-04

Connection St... Chart 2020-04-09 ~ 2020-04-10

Tasks All types All states

Type	State	Progress	Created By	Created At	Started At	Updated At	Action
Remote web management	FAILED		super@igee	2020-04-09 12:00:00	2020-04-09 12:00:00	2020-04-09 12:00:00	

4.1.2 Remote Web Access

1. On the **Gateways** or **Device Details** page, click the  icon to go to the **Web Management** page of the gateway. On this page, you can directly modify the device configuration locally. This function is only applicable for online devices.

Device Manager Home Map Gateways Config Firmware Edge Computing Administration test-user

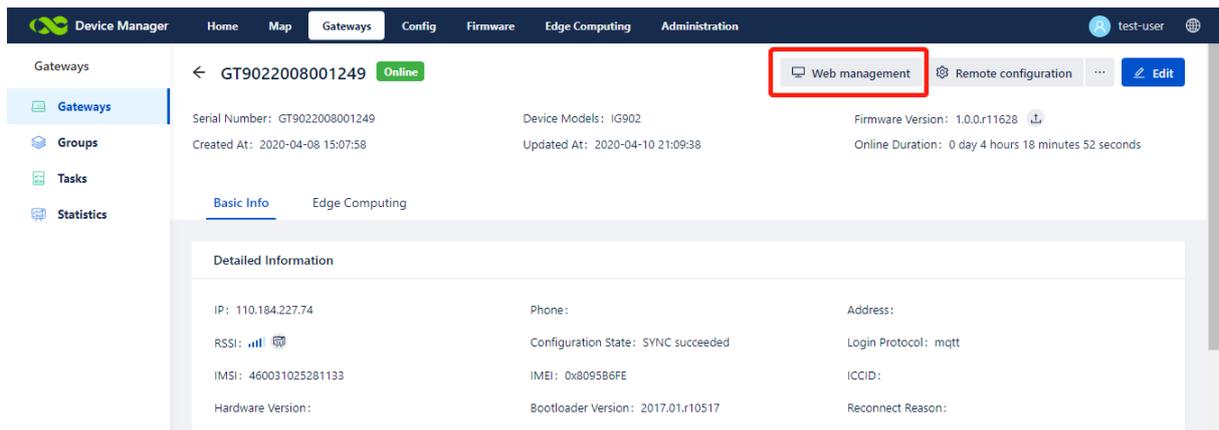
Gateways

Home / Gateways / Gateways

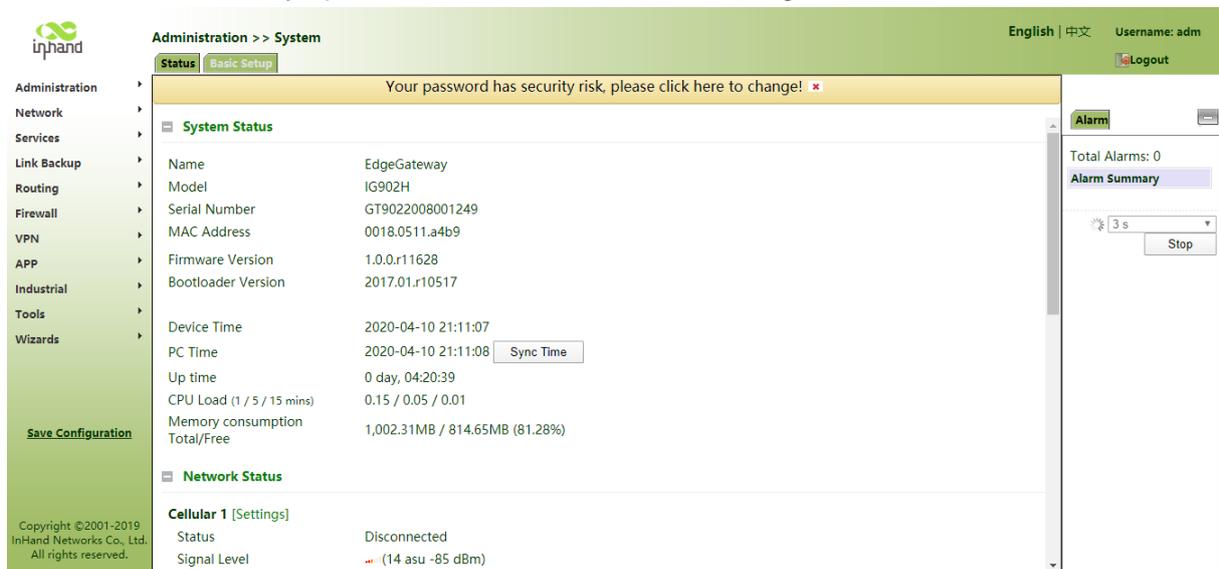
All 12 Online 1 Offline 11 Name Search by gateway name Create Import Export Column Display

Gateway Name	Signal Strength	Serial Number	IMSI	Firmware Version	Action
GT9022008001249	📶	GT9022008001249	460031025281133	1.0.0.r11628	
3	📶	GF9022222222224			
1	📶	GF9022222222223			
testby	📶	GF9022222222222			
测试设	📶	GF9021212121222			
IG900	📶	GF9021212121212			
Vincent	📶	RF9028989898989			
测试设备1	📶	DT6222222222222			
DTU300	📶	DT3122222222222			
很好实施	📶	IR6157676799999			

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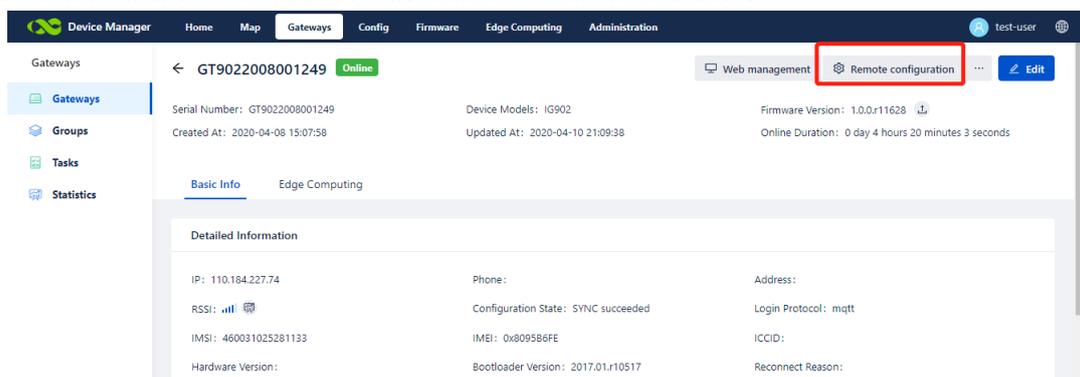
2. Enter the username and password to go to the **Web Management** page of the gateway, and then remotely operate and control the device through commands.

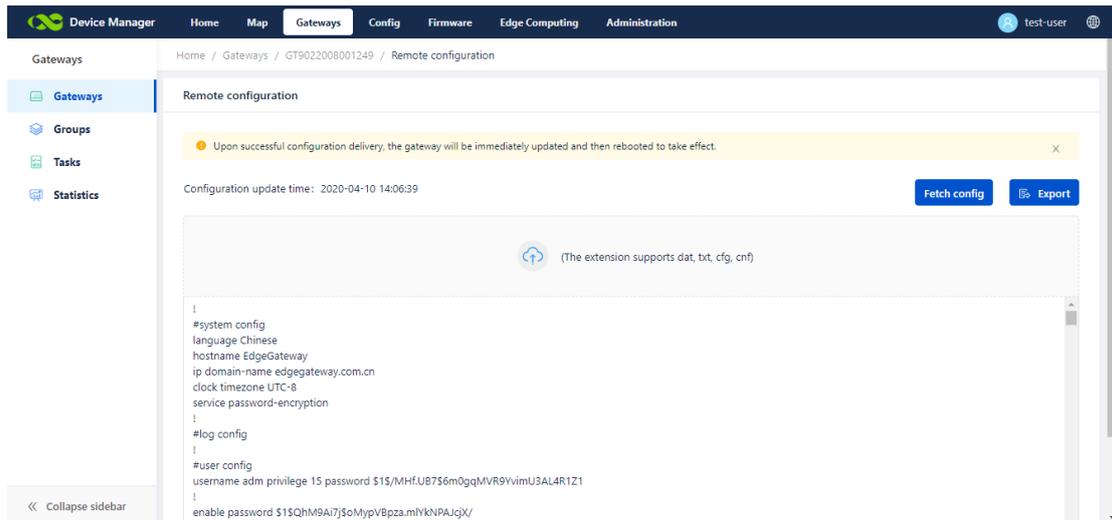


4.1.3 Update Configuration

You can only update the configuration of online devices.

On the gateway details page of an online device, click **Remote Configuration**. Edit and update the device configuration and then click **Deliver**. The device configuration is remotely updated, and a task record is generated in the task list on the details page. The task status is updated in real time to reflect the execution status in real time.

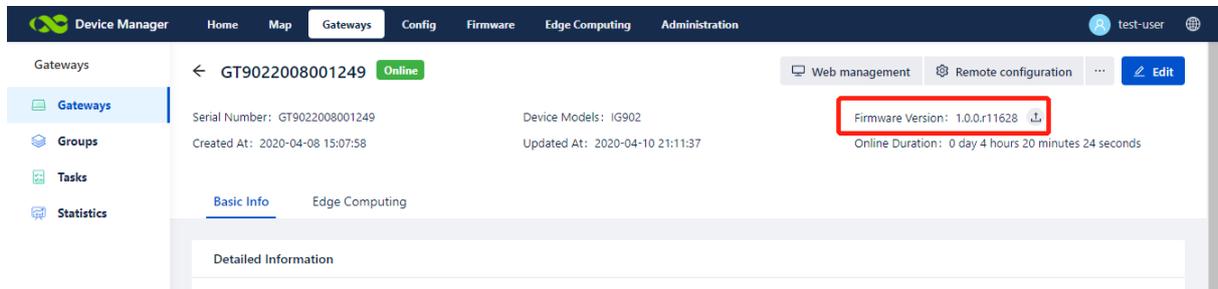




4.1.4 Upgrade Firmware

On the device details page, click **Firmware Version: 1.0.0.r11628** next to **Firmware Version**, and upload a file. After the file is uploaded, a task record is generated in the task list on the details page. The task status is updated in real time to reflect the execution status in real time.

Online devices execute the upgrade task immediately, while offline devices will execute the upgrade task after they are online again.



4.1.5 Forced Offline

When configuration delivery and firmware upgrade fail for multiple times, you can try to force a gateway offline, connect it to DM again, and then try to deliver the configuration and upgrade the firmware again.



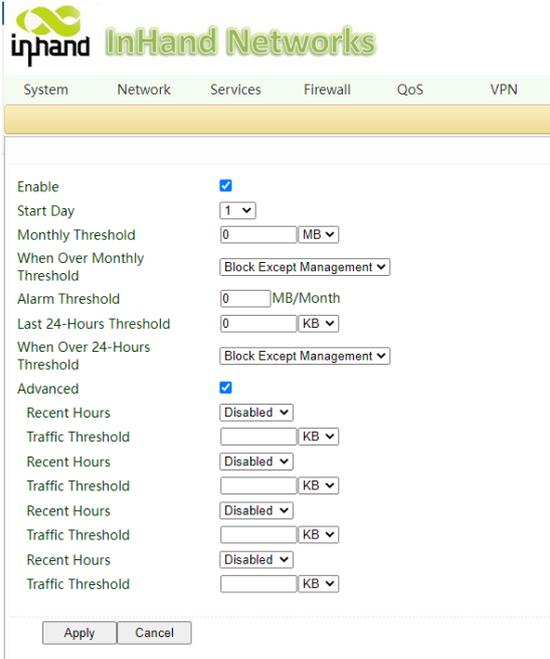
4.2 Alerts

The device Manager platform supports setting alerts to monitor some important events of the Devices. When an event occurs, it can push SMS or email messages to specified users. The support of each device is subject to the information displayed on the interface. IR600 for example, an offline alarm is used to perform operations.

1. Configure alert rules: On the page of " Gateways -> Alerts -> Alert Rules" , click " Add Rule " , select devices, alert rules and notification rules in the form as needed:

2. After the rule is added, click " save " , the rule takes effect immediately; As shown in the figure, an offline alarm rule is configured for a gateway: When the gateway is offline for 10 minutes, the user’s email “demo@inhand.com.cn” will receive an alert email, and the alert messages will be also recorded on the page “Gateways->Alerts->Alert Logs”.
3. For some specific alert types, you must enable alert reporting on the device before the alert takes effect. Take the IR600 for example: on the device WEB management page, visit the page “Services ->Alarm Manager”, select alarm type, select “Device Manager” as the alarm output, then click “Apply”.

4. After the application is successful, when the device has the above event, it will send an event message to the platform, and the user will receive an email or SMS alert message according to the settings. The following table lists the alert types of the platform and the device:

Device Manager	The WEB management page of device
Hourly Traffic Alarm	<p>The alarm type is "Traffic Alarm", and the traffic alarm threshold should be defined in the "Services -> Traffic Manager" section at the same time. After setting the required hourly, 24-hours (day) and monthly thresholds, the platform will send an alarm message when the specified alarm threshold is reached.</p> 
Daily Traffic Alarm	
Monthly Traffic Alarm	
SIM Switch	Active Link Switch
Link Backup	Active Link Switch
Interface Up/Down	WAN Link-Up/Down, LAN Link-Up/Down, Dialup Up/Down

4.3 Device Group Management

When the system has a great number of devices, you can group devices for centralized management in the Groups table. For example, you can manage devices by industry, so that you can clearly know the scenarios of each device. You can also place abnormal groups in the same group for centralized management. When the device error is removed, move the device out of the group.

Use 「Groups」 function to classify devices, make your device management more centralized and convenient.

You can use it like this:

1. Create your required group
2. Add devices to your selected group
3. Manage devices according to your groups

Groups

Gateway Name	Signal Strength	Serial Number	IMSI	Current Version	Action
Name1	📶	AB0123456789	123123123123123123	1.5.6_beta.V1.1	🗑️ ⚙️
Name2	📶	AB0123456789	123123123123123124	1.5.6_beta.V1.1	🗑️ ⚙️
Name3	📶	AB0123456789	123123123123123125	1.5.6_beta.V1.1	🗑️ ⚙️
Name4	📶	AB0123456789	123123123123123126	1.5.6_beta.V1.1	🗑️ ⚙️
Name5	📶	AB0123456789	123123123123123127	1.5.6_beta.V1.1	🗑️ ⚙️
Name6	📶	AB0123456789	123123123123123128	1.5.6_beta.V1.1	🗑️ ⚙️
Name7	📶	AB0123456789	123123123123123129	1.5.6_beta.V1.1	🗑️ ⚙️
Name8	📶	AB0123456789	12312312312312311	1.5.6_beta.V1.1	🗑️ ⚙️
Name9	📶	AB0123456789	12312312312312312	1.5.6_beta.V1.1	🗑️ ⚙️
Name10	📶	ABC123456789	12312312312312313	1.5.6_beta.V1.1	🗑️ ⚙️

1 / 10 / page

The following describes the details:

1. Click **Create Group** and enter the group name and other information:

Create Group

Parent Group: Parent Group

Group Name: Group Name

Cancel OK

2. After the group is created, you can add devices to the current group:

test

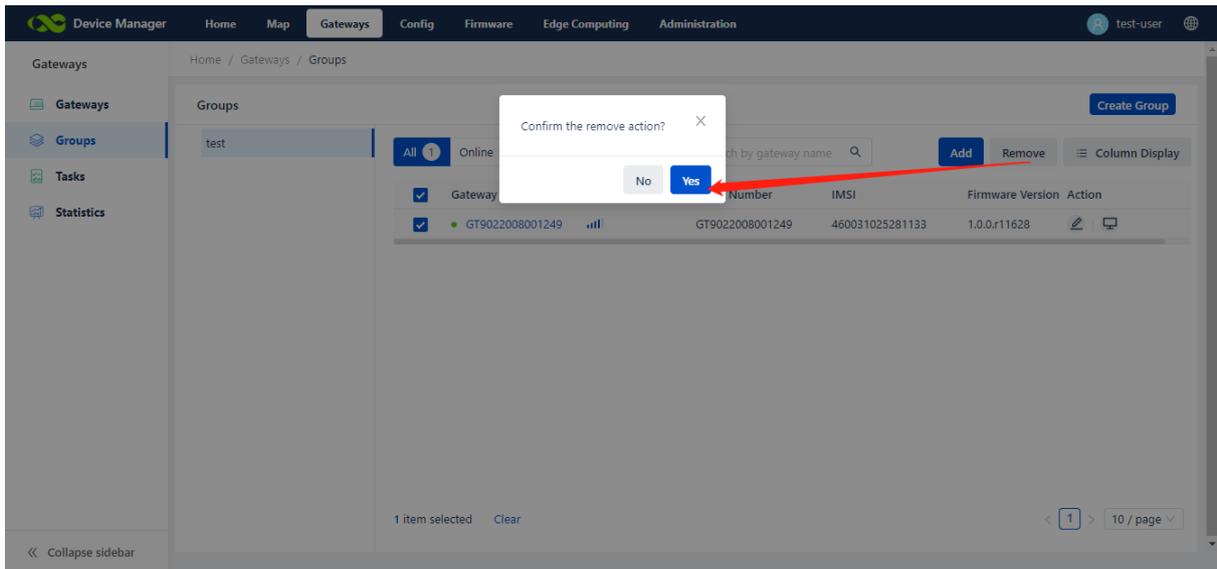
Added Successful!

All 1 Online 1 Offline 0 Name Search by gateway name Add Remove Column Display

Gateway Name	Signal Strength	Serial Number	IMSI	Firmware Version	Action
GT9022008001249	📶	GT9022008001249	460031025281133	1.0.0.11628	🗑️ ⚙️

1 / 10 / page

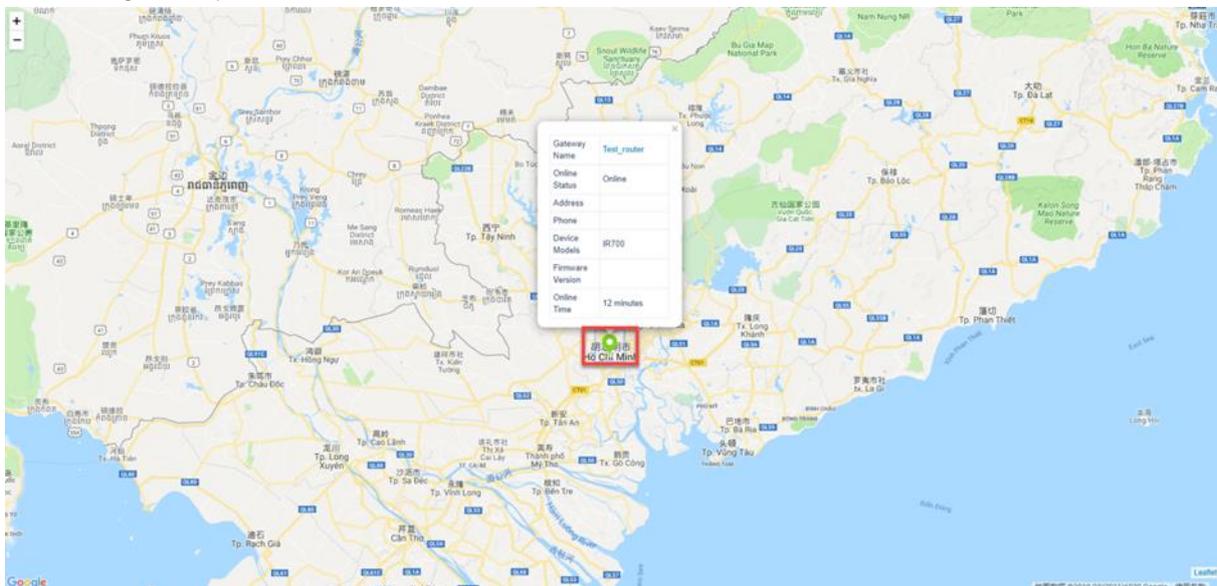
- If an added group has changed, select the group and then move it out of the current group.



You can create groups of multiple levels based on service demands to manage devices by level.

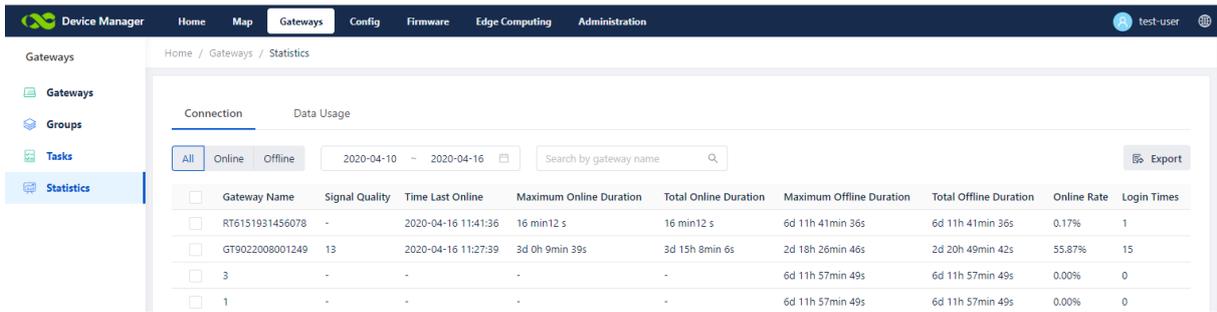
4.4 Position Tracking

The **Map** page displays the real-time position and online status of the gateway. After you click the device icon on the map, the device basic information is displayed. Then, you can click the gateway name to view the device details.



4.5 Gateway Running Monitoring

- On the **Gateways->Statistics** page, you can view online duration statistics and traffic usage of a device and export the list of its online duration and traffic usage.

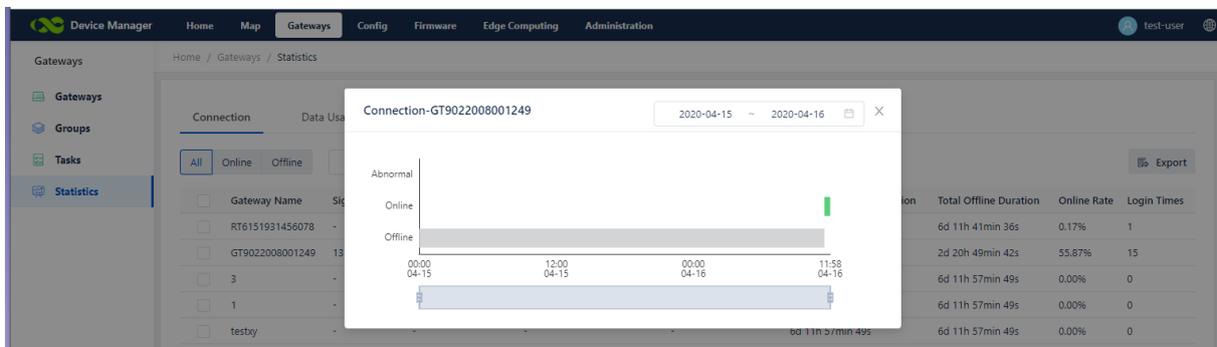


2. Click the device. The device status bar chart of the device is displayed.

Online: The device is connected to DM.

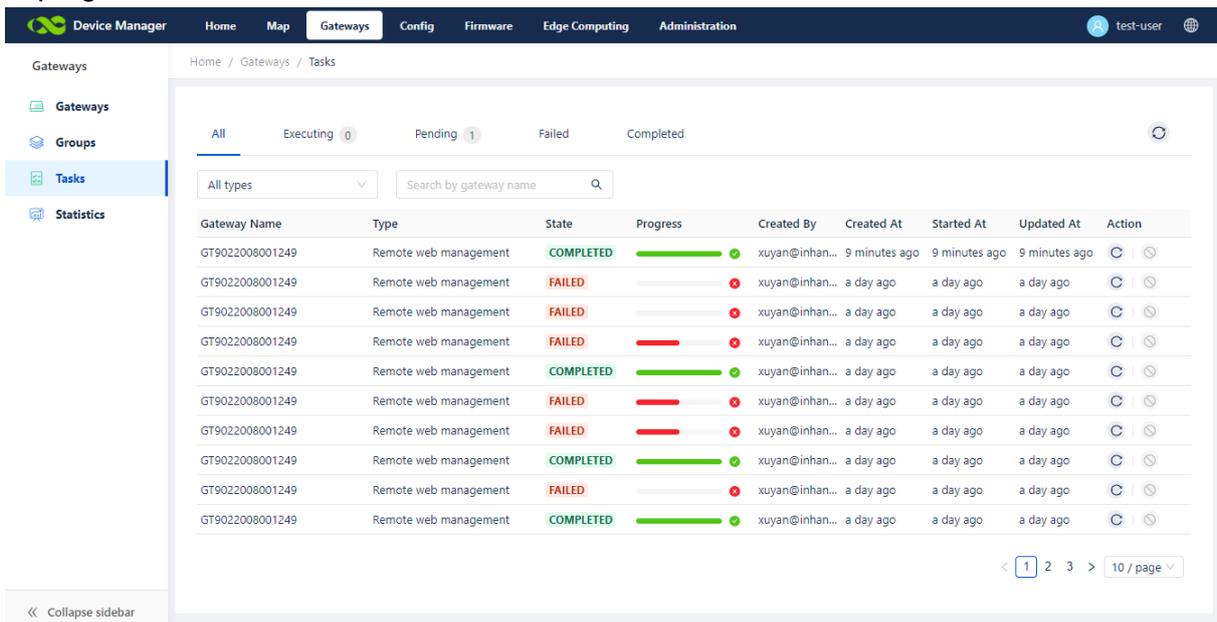
Offline: The device is disconnected from DM.

Abnormal: When the statistical period is less than three days, if the status changes for more than three times in two hours, it is abnormal. When the statistical period is more than three days, if the status changes for more than three times in one day, it is abnormal.



4.6 Operation Command Monitoring

On the page of **Gateways-> Tasks**, you can view the execution status of the tasks sent from DM to devices. In the **Action** column, you can click to re-execute a task or cancel an in-progress task.



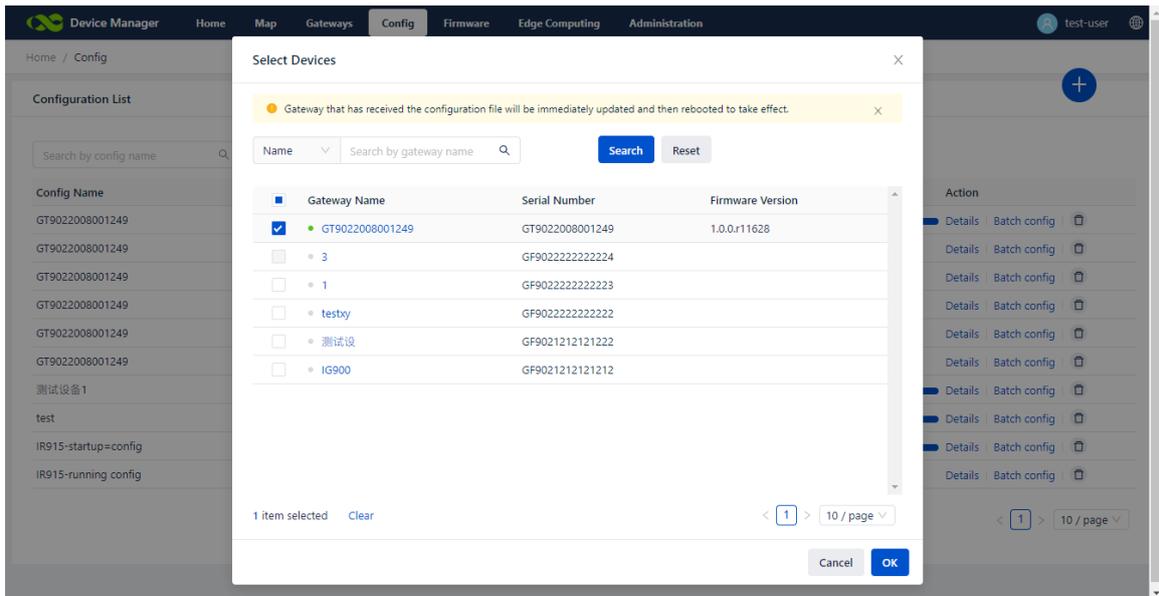
5 Update Gateway Configurations in Batches

When a large number of devices are connected to DM, it takes a great time to update the configuration device by device. You can update the configuration in batches on the **Config** page. The following describes the details:

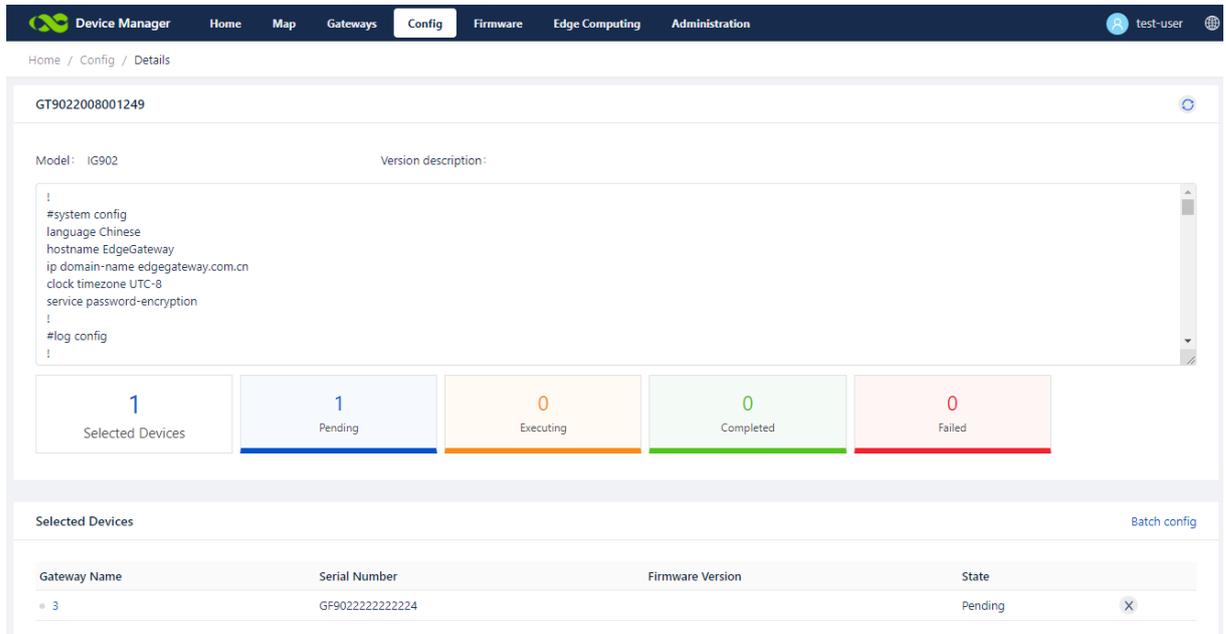
1. Choose **Gateways >> Config >> + >> Select File**. Select a configuration file (which can be exported from the **Web Management** page of the gateway, edited, and then applied), enter a name in **Config Name**, enter the model in the template in **Device Models**, and then click **OK**.

The image shows two screenshots from the InHand network management interface. The top screenshot is the 'Administration >> Config Management' page. It features a sidebar with navigation options like Administration, Network, Services, Link Backup, Routing, Firewall, VPN, APP, Industrial, Tools, and Wizards. The main content area is titled 'Configuration' and includes a 'No file selected.' message with 'Browse...' and 'Import' buttons. Two buttons, 'Backup running-config' and 'Backup startup-config', are highlighted with a red box. A red arrow points from this box to the bottom screenshot. The bottom screenshot shows the 'Device Manager' interface with a 'Config' tab selected. A 'Create a config' dialog box is open, containing fields for 'Config Name', 'Device Models' (set to IR600), 'Import a Config' (with a 'Select a file' button), 'Config Content', and 'Description'. The dialog has 'Cancel' and 'OK' buttons at the bottom.

2. Select the device to which you want to deliver the configuration and click **OK**.



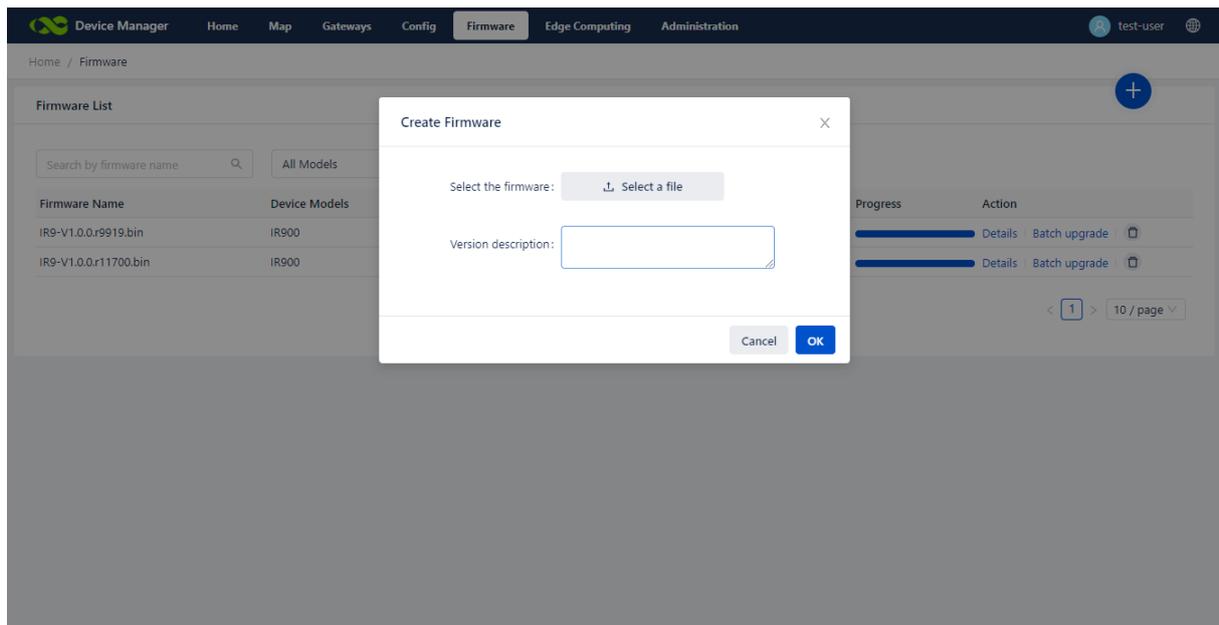
- Return to the configuration list, click View details to view details of the current configuration, such as its update progress and status:



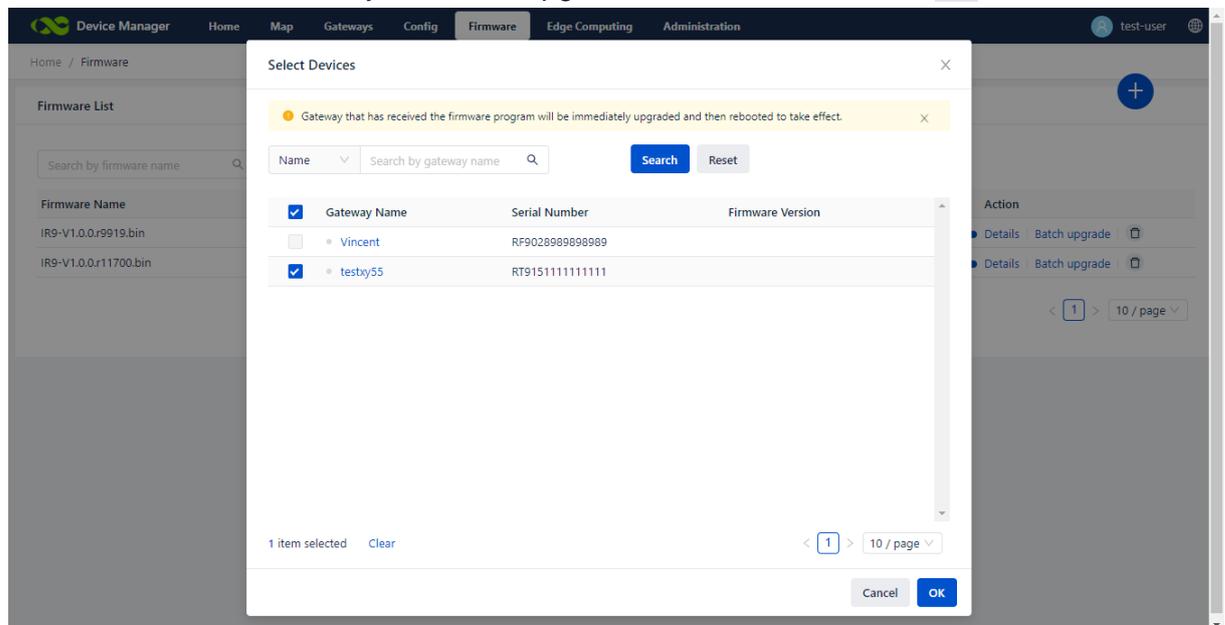
6 Upgrade Gateway Firmware in Batches

When a large number of devices are connected to DM, it takes a great time to upgrade the firmware device by device. You can upgrade the firmware in batches through **Firmware**. The following describes the details:

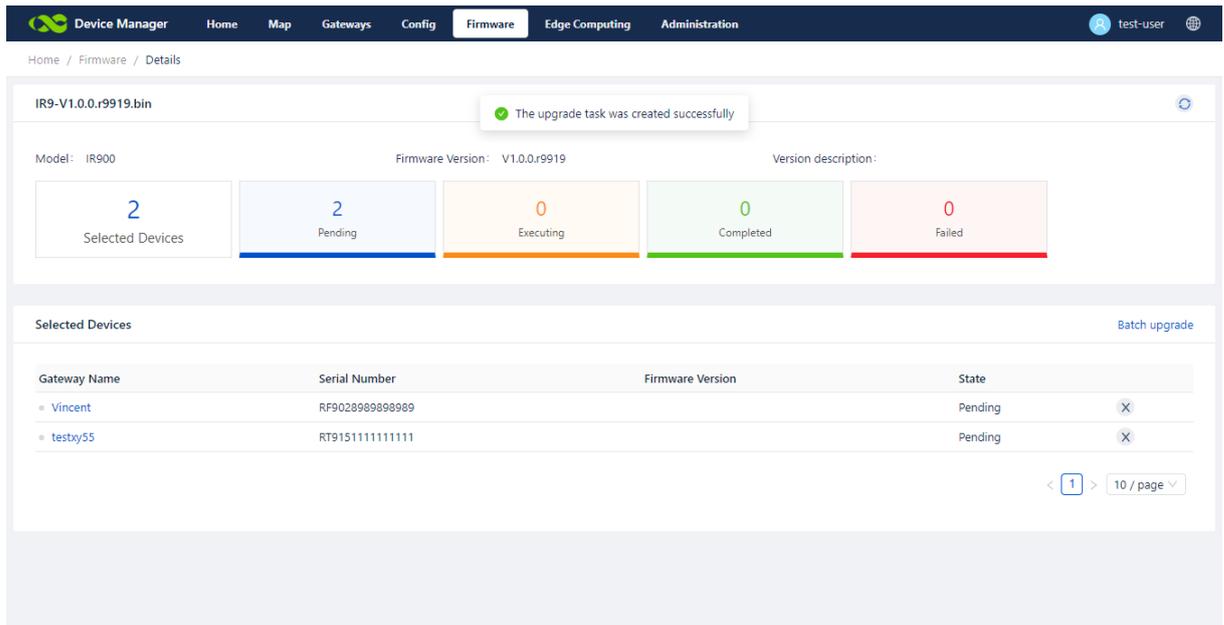
- Choose **Firmware** >> **+**. Select a gateway firmware and click **OK**.



2. Select the device for which you want to upgrade the firmware and click **OK**.



3. Return to the firmware list, click **Details** to view the details of the current firmware, such as its upgrade progress and status:



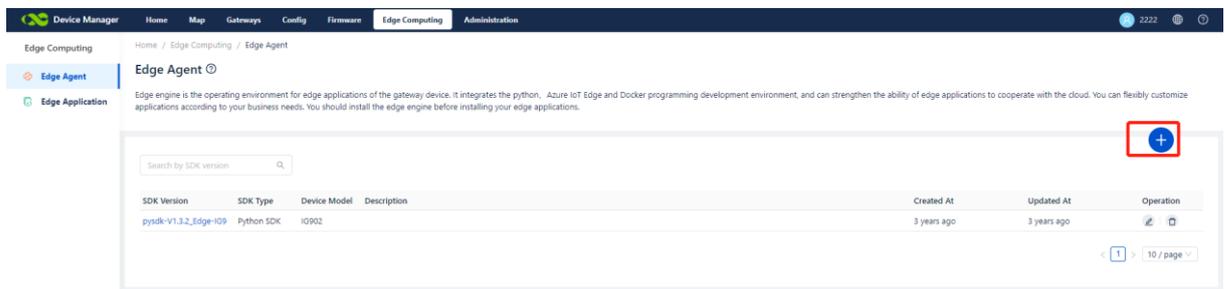
7 Edge Computing

As one of the core features of the Edge Gateway, edge computing function of DM platform are mainly applied to gateway devices with edge computing features of IG500, IG900, and VG series.

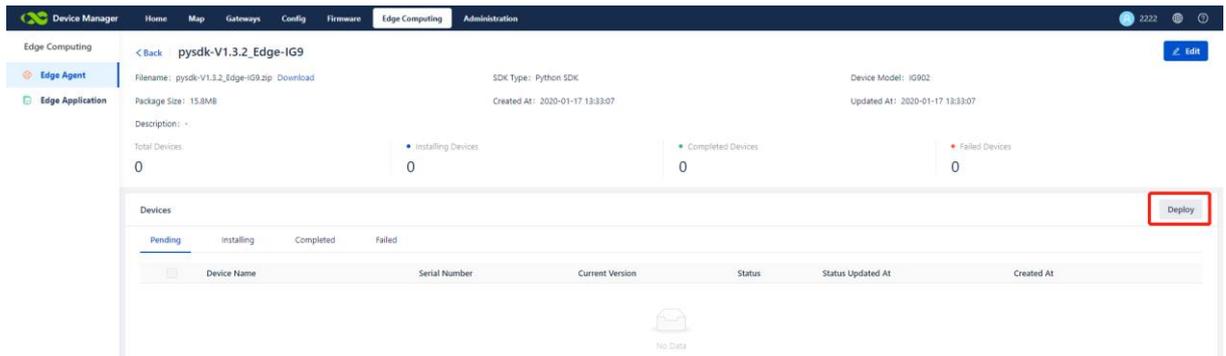
7.1 Edge Agent

Edge engine is the operating environment for edge applications of the gateway device. It integrates the python, Azure IoT Edge and Docker programming development environment, and can strengthen the ability of edge applications to cooperate with the cloud. You can flexibly customize applications according to your business needs. You should install the edge engine before installing your edge applications.

1. On the page of "Edge Agent": click "Add Edge Agent ", select the edge SDK from InHand Networks.



2. Then click "SDK Version" to view more information, click "Deploy" , select Gateways to install this SDK.
3. On the installation page, there displays the detailed progress status of each installation task, including "Pending" , "Installing" , "Completed", "Failed". For the failed task, you can view the failure reason in the task list.

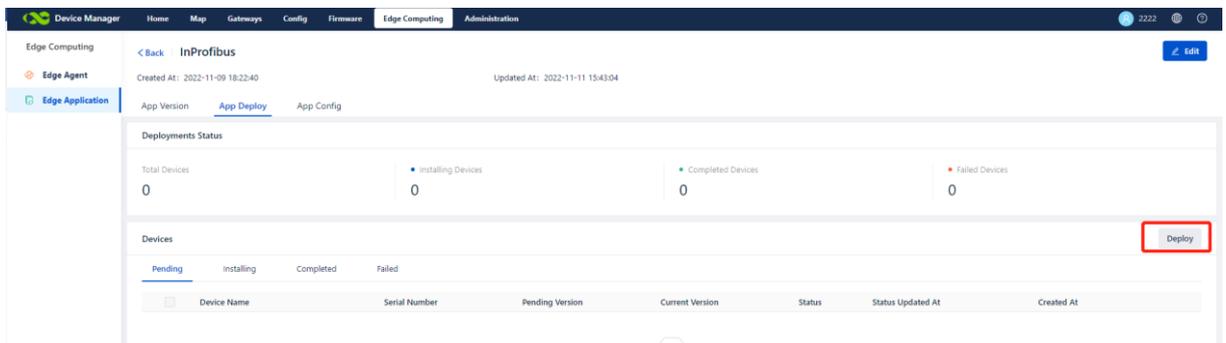


7.2 Edge Application

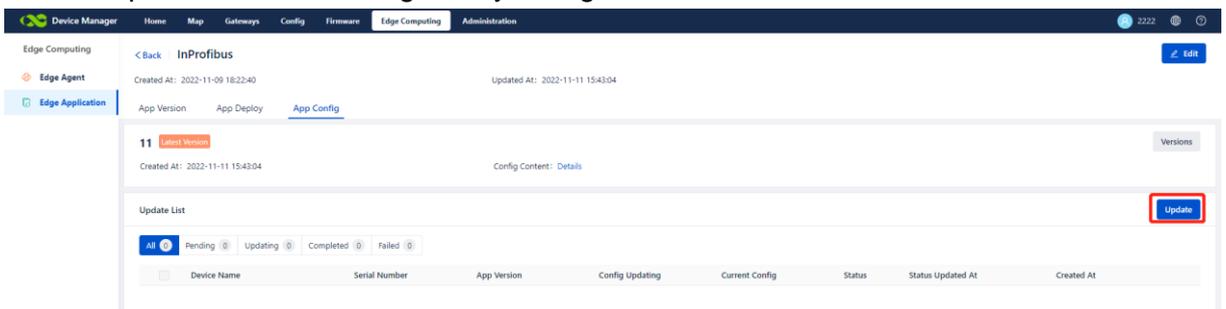
1. Click "Add Applications ", import the APP you want to install.



2. Then click "Application Name" to view the details. If you have a version update, you can also upload a new version here.
3. Click "App Deploy", Select "Deploy", select the required device, the system will automatically send the APP to these devices to make upgradation. On the installation page, there displays the detailed progress status of each installation task, including "Pending" , "Installing" , "Completed", "Failed". For the failed task, you can view the failure reason in the task list.

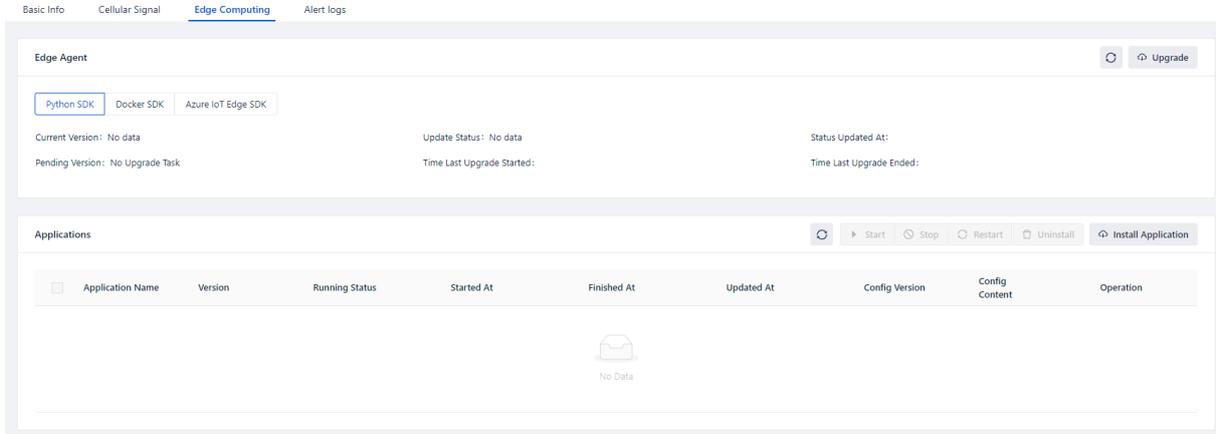


4. Click "App Config", maintain the app configuration or view the configuration details and the update records of the gateway configuration in detail.



7.3 Gateway Details

1. In the details of a gateway with edge features, you can also view the current status of the device's SDK and APP installation history.
2. You can directly update the SDK and APP of a single gateway in the gateway details. The updated SDK and APP need to be added in the "Edge Agent" and "Edge Application" in advance.



8 System Management

8.1 User

8.1.1 Add a User

To manage devices through multiple users, you can add multiple accounts in the Users list, and grant different roles and permissions to different accounts for permission security control.

The system roles and their permissions are as follows:

Function Page		Organization Manager	Device Manager	Device Monitor
Home		✓		
Map		✓	✓	✓
Gateways	Gateways	✓	✓	✓
	Groups	✓	✓	✓
	Tasks	✓	✓	✓
	Ststatistics	✓	✓	✓
Config		✓	✓	
Firmware		✓	✓	
Edge Computing	Edge Agent	✓		
	Edge Application	✓		
Administration	Users	✓		

	Access Control	✓		
	Company Info	✓		
	Operation Log	✓		

The operation is described below:

Choose **Administration** >> **Users** >> **+**, and add a user. The system automatically sends the password to the email account of the new user. The new user can use the email account and the password in the email to log in to DM.

8.1.2 Delete a User, Reset User Password, and Lock a User

Delete user: It is used to delete a user.

Reset password: It is used to reset the password for a user. The new password is sent to the login email account of the reset user through email.

Lock user: After a user is locked, it cannot log in to DM.

The screenshot shows the 'Administration' section of the Device Manager interface. The 'Users' menu is selected, displaying a 'User List' table. The table has columns for Username, Email, State, Role, Created At, Login Times, and Action. There are four rows of user data, including one for 'test-user' who is currently logged in.

Username	Email	State	Role	Created At	Login Times	Action
[Redacted]	[Redacted]@qq.com	lock	Organization Manager	2020-02-05 17:11:43	0	[Icons]
[Redacted]	[Redacted]	Logged out	Device Manager	2020-01-02 14:53:55	0	[Icons]
[Redacted]	[Redacted]	Logged out	Device Monitor	2020-01-02 14:53:34	0	[Icons]
test-user	[Redacted]@td.com.cn	Logged in	Organization Manager	2020-01-02 14:52:38	0	[Icons]

8.2 Access Control

When the system has multiple users and devices, for secure device management and control, you can grant the management permissions of gateway devices for each user in the **Access Control** list.

The **Access Control** module is used to divide the users' permission to view and manage gateway devices. It allows you to customize multiple permission group and the gateway devices in each permission group can only be viewed and managed by users in the current group.

Example:

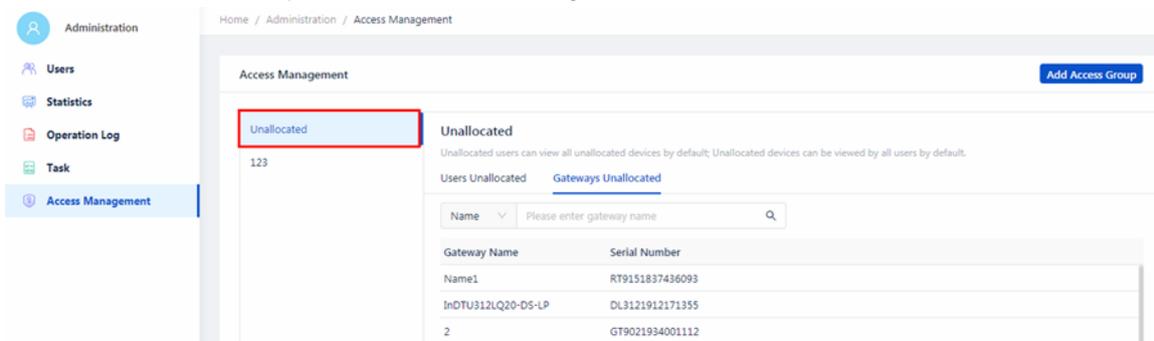
The user A has 120 devices, 50 in Beijing and 50 in Chengdu. Two persons are required to manage these devices separately, wherein Zhang San just manages the 50 devices in Beijing, while Li Si just manages the 50 devices in Chengdu.

Procedure:

The user creates two permission groups on the **Access Control** page, places Zhang San and the 50 devices in Beijing in one permission group, and places Li Si and the 50 devices in Chengdu in the other permission group. And places the left 20 devices in another permission group.

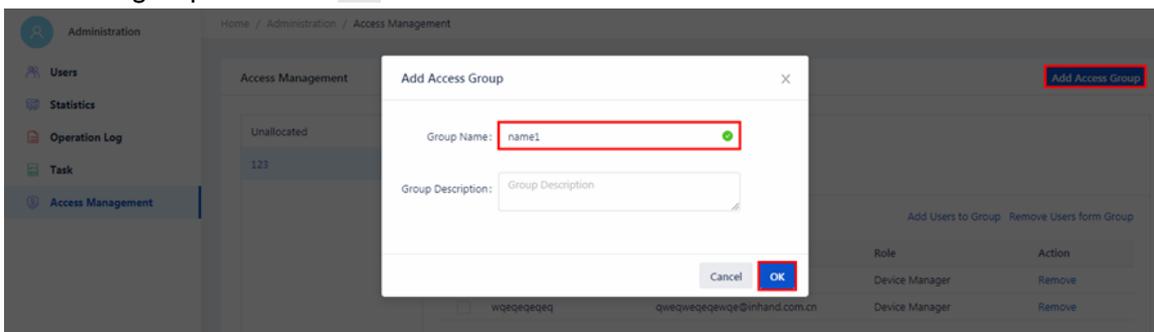
Specific functions:

1. New non-admin users are grouped into "Unallocated" by default. And they can view all ungrouped devices by default.
2. The newly added devices are grouped into "Unallocated" by default, and all users can view them.
3. Users in unallocated can view all unallocated devices.
4. Users in a self-built group can view the devices in the current group and the devices in the "unallocated" group.
5. The organization administrator (admin) does not participate in the permission grouping, and can view all device data.
6. A user can be divided into multiple groups.
7. A device can only be divided into one group.



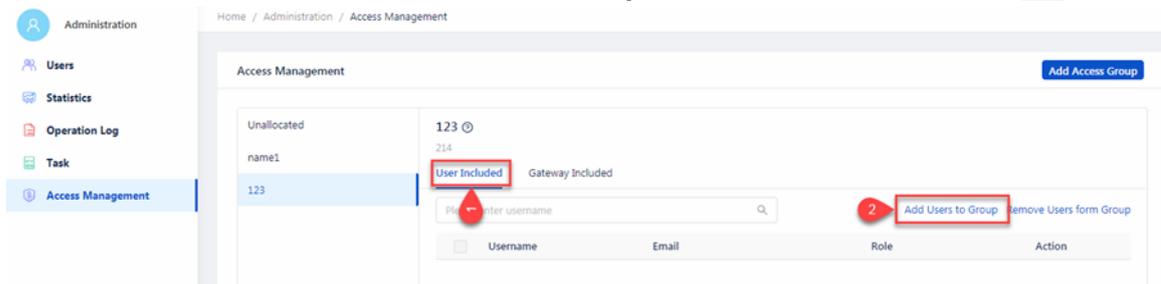
1. Create a permission group.

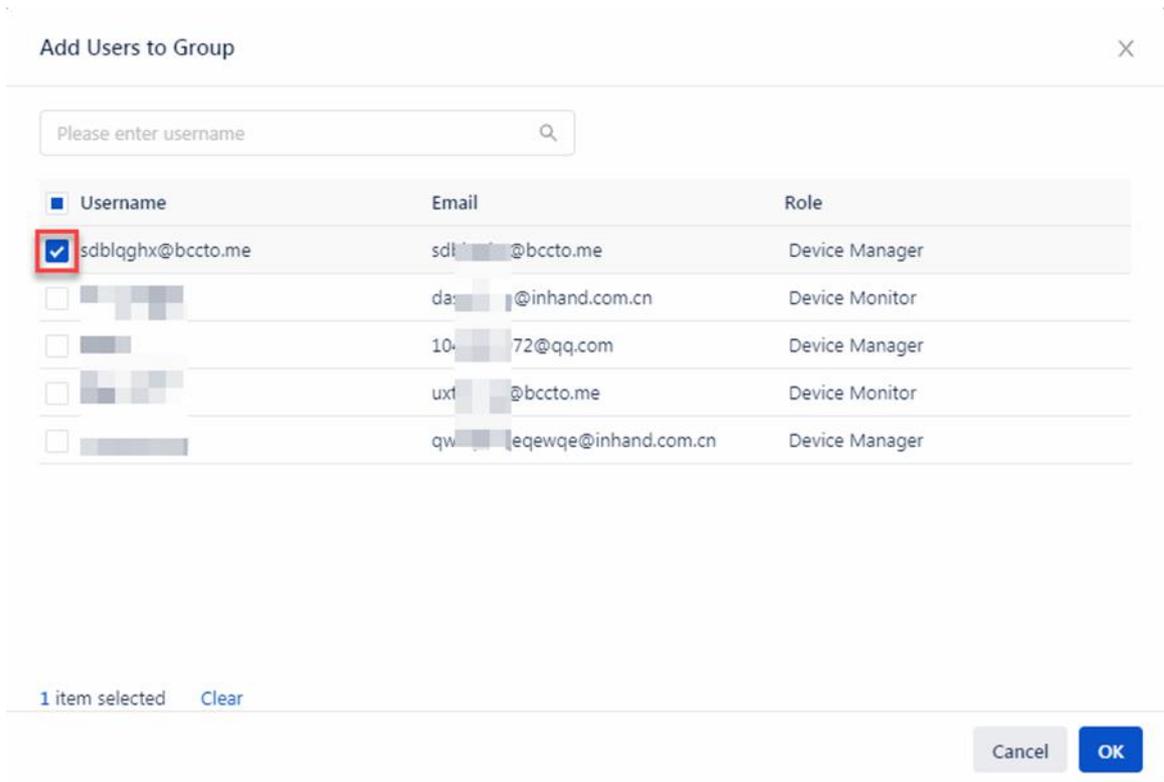
Step 1: Choose **Access Control >> Add Access Group**. Enter a name for the permission group and click OK.



Step 2: Allocate users for the created permission group.

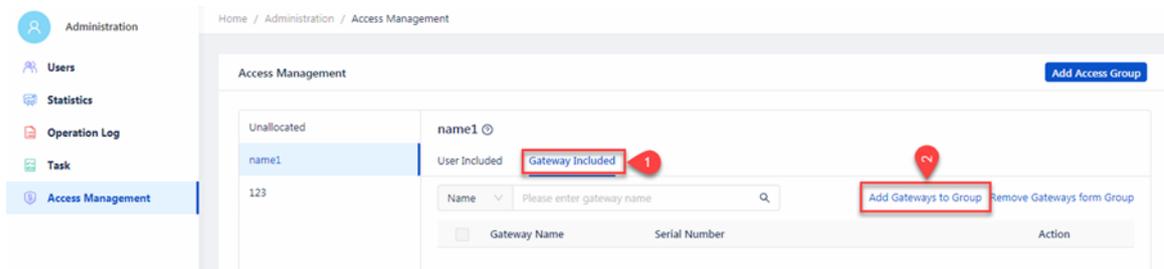
Choose **User Included >> Add Users to Group**, select users, and then click OK.





Step 3: Allocate gateways to the created permission group.

Choose **Gateway Included** >> **Add Gateways to Group**, select gateways, and then click **OK**. Then, the permission is created. Devices in the permission group can only be viewed and managed by users in this permission group.



Select Devices X

i Gateways added to the current group can not be added to other access groups. X

Name Please enter gateway ... Q

	Gateway Name	Serial Number
<input checked="" type="checkbox"/>	2	GT9021934001112
<input checked="" type="checkbox"/>	InDTU324NQ96-LP	DL3241949000001
<input type="checkbox"/>	332LH09-V2	DL3241949000001
<input type="checkbox"/>	VF7101937000019	VF7101937000019
<input type="checkbox"/>	GT9021937000019	GT9021937000019
<input type="checkbox"/>	RP9151735030005	RP9151735030005
<input type="checkbox"/>	IG902	IG902
<input type="checkbox"/>	InDTU332WS25	DW332WS25
<input type="checkbox"/>	InDTU332GS55-LP	DG332GS55-LP

2 items selected Clear < 1 2 3 > 10 / page

Cancel OK

- When you need to modify users and devices in a permission group after permissions have changed, select a permission group, remove one or multiple devices or users from the permission group and then add some devices or users to the permission group.

Administration / Access Management

Access Management Add Access Group

Unallocated name1

123

User Included Gateway Included

Name Please enter gateway name Q Add Gateways to Group Remove Gateways form Group

	Gateway Name	Serial Number	Action
<input type="checkbox"/>	2	GT9021934001112	Remove
<input type="checkbox"/>	InDTU324NQ96-LP	DL3241949000001	Remove

< 1 > 10 / page

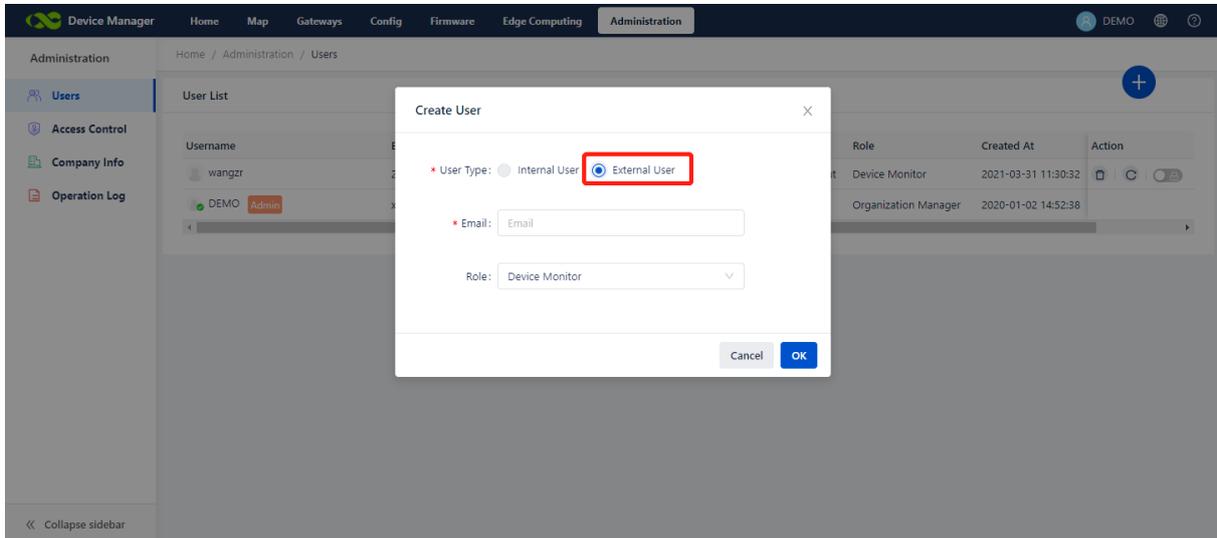


Caution

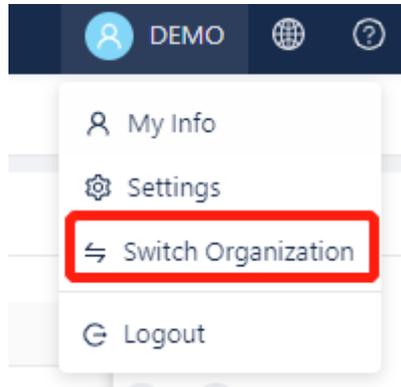
New gateway devices and users are in the state of **Unallocated** by default, that is, new gateways can be viewed by all users and new users can view all unallocated gateway devices by default. Therefore, after creating a user or gateway device, grant permissions for the user and gateway as soon as possible.

8.3 Switch Organization

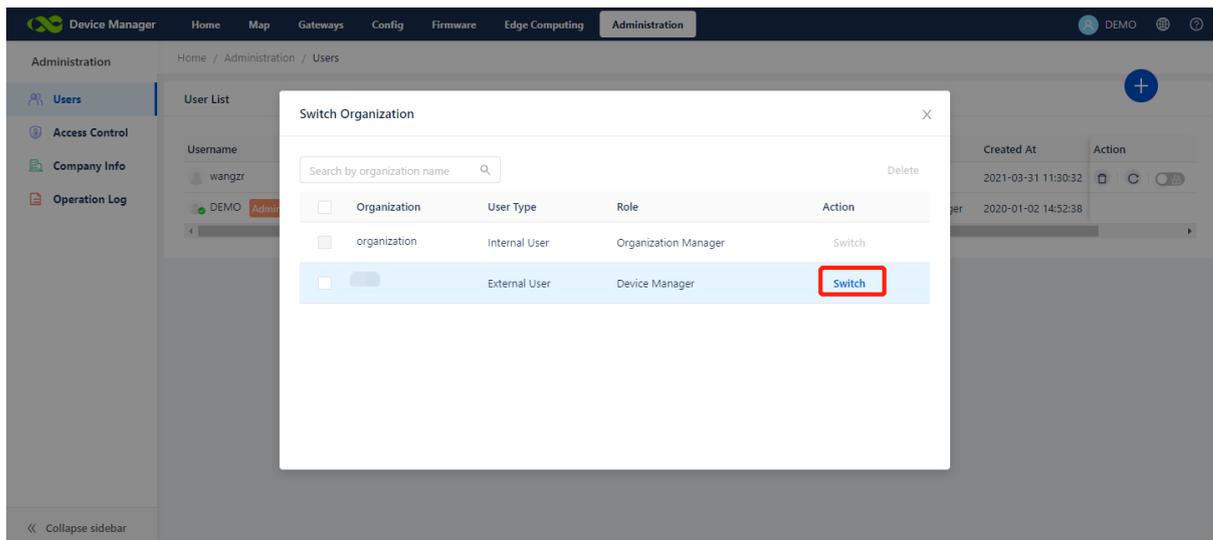
When you need an company external user to join your organization to provide external support, if the external user has registered an email account in DM, you can invite him to join your current organization by adding it as a "external user".



On the **Administration->Users** page, click add and select “**User Type**” as “**External User**”, fill in the email address of the external user and submit your input. Then an invitation email will be sent to this email. External users can join your current organization after accepting the invitation. At the same time, they can switch between multiple organizations in



the personal center of their accounts:



You can set user roles and add gateway permissions to this external user so that this external user can provide full technical support when accessing your organization without causing unnecessary data leakage.

8.4 Company Information

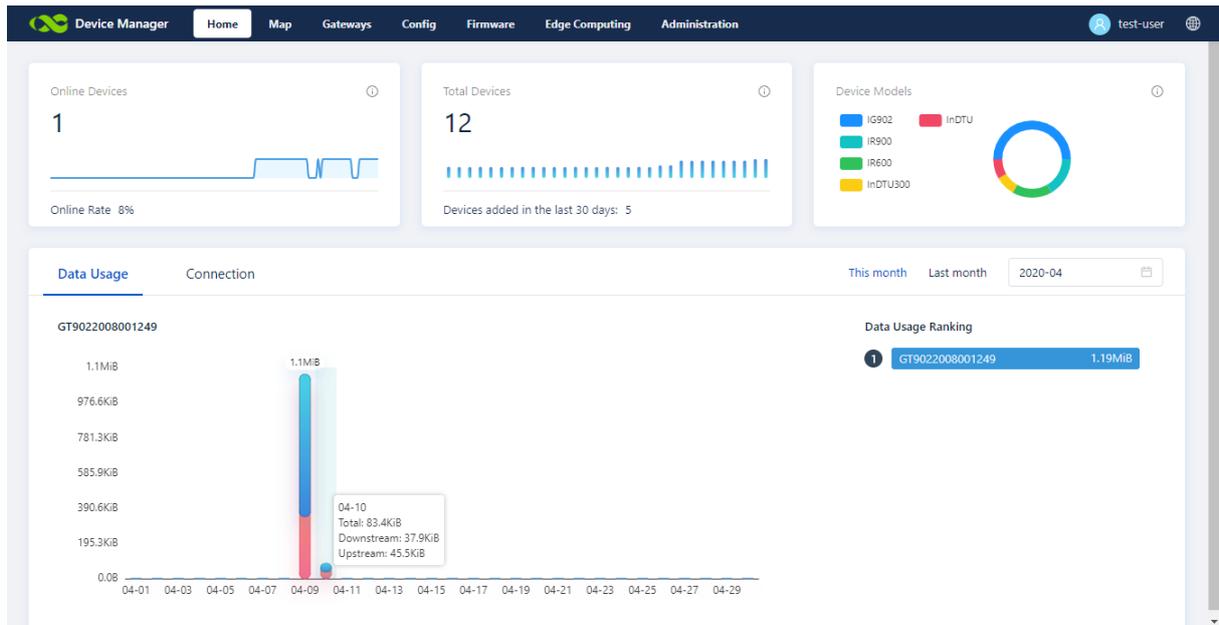
On the **Administration->Company Info** page, you can maintain the background information of the current account's owner.

8.5 System Logs

On the **Administration->Logs** page, you can view system records about user login, device operation, firmware upgrade, and other information of the platform.

9 Dashboard

On the **Home** page of DM, recent running status of gateway devices and system device information are displayed by charts:



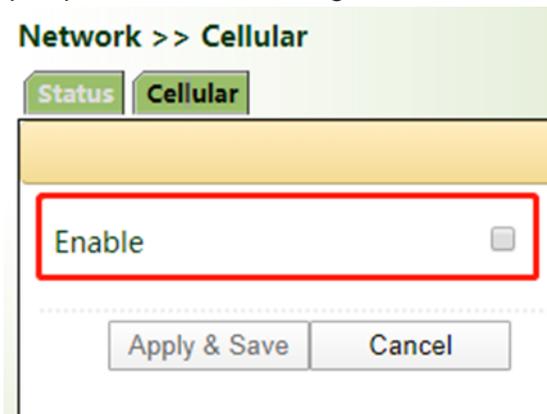
10 Appendix How to Connect Device to Network

Taking IR915 as an example, devices can be connected to the network in any of three ways: [Ethernet \(wired\)](#), [SIM card](#), and [Wi-Fi](#).

For more information about other networking methods, see the hardware user manual or visit the official website of InHand:

<https://www.inhandnetworks.com/>

Disable the "cellular interface" when accessing the network without the SIM card; otherwise repeated dial-up is performed, interfering the network connection.



10.1 Method 1: Access the network through dial-up or SIM card

Step 1: Insert the SIM card to the slot 1 and tighten the 4G LTE antenna to the ANT terminal. Connect the network cable to a PC and connect to the power supply.



Caution

Note: When inserting or removing the SIM card, you must disconnect the device from the power supply to avoid data loss or damage to the device.

Step 2: Open the browser and log in to the web page of the device. (See [Method 2: Ethernet.](#))

Step 3: Choose **Network >> Cellular >> Enable**, and then click **Apply & Save**.

Network >> Cellular

Status Cellular

Your password has security risk, please click here to change! x

Enable

SIM1 SIM2

Profile auto auto

Roaming

PIN Code

Network Type Auto

Static IP

Connection Mode Always Online

Redial Interval 10 s

ICMP Detection Server

ICMP Detection Interval 30 s

ICMP Detection Timeout 5 s

ICMP Detection Max Retries 5

ICMP Detection Strict

Show Advanced Options

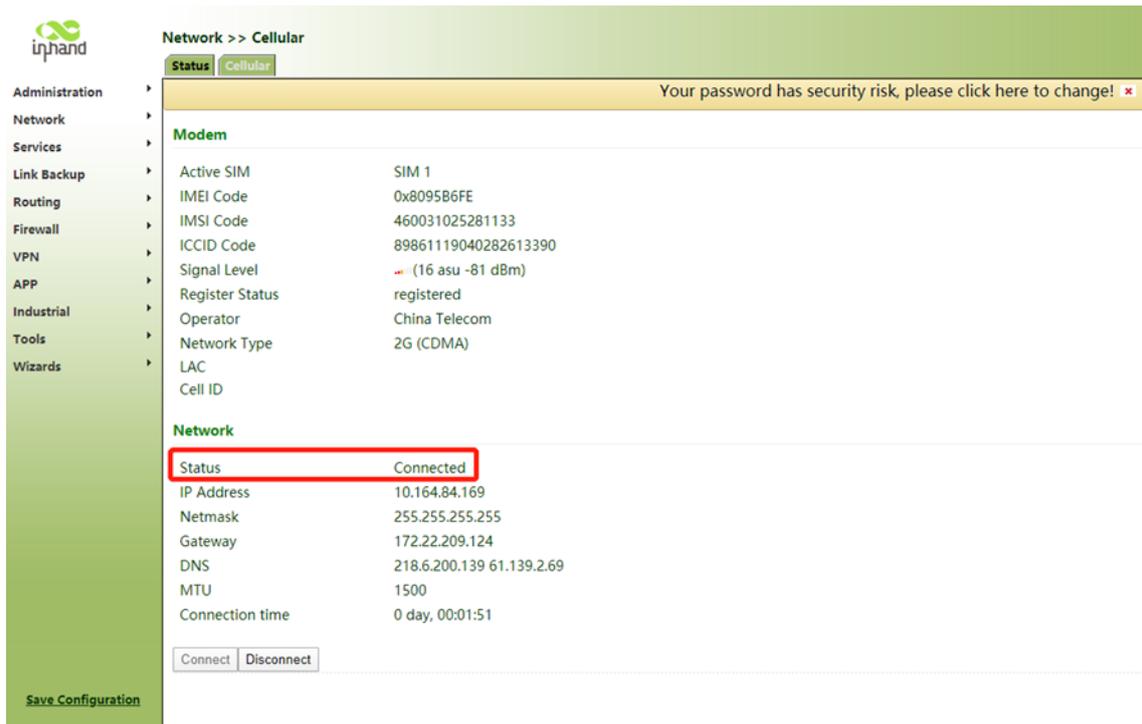
Profile

Index	Network Type	APN	Access Number	Auth Method	Username	Password
1	GSM	3gnet	*99***1#	Auto	gprs	*****

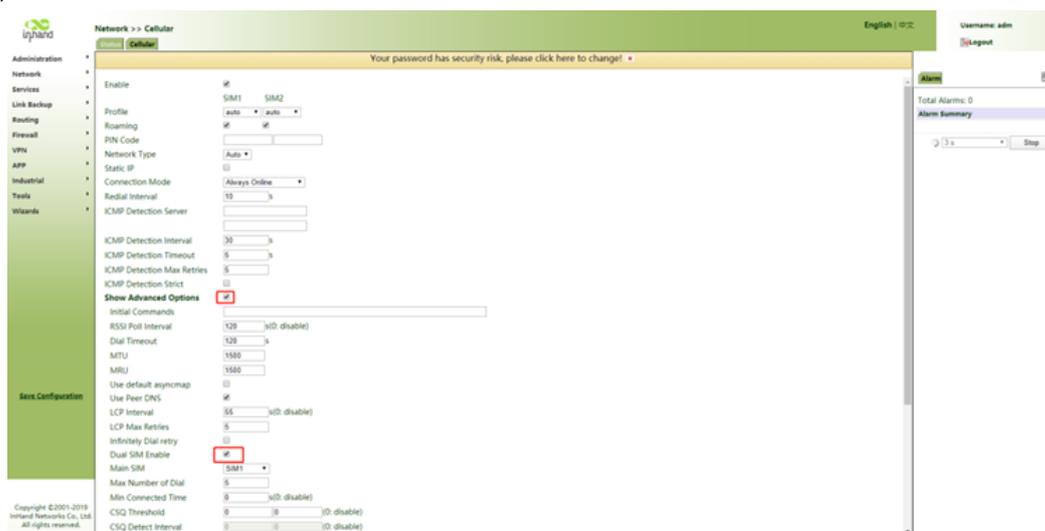
Save Configuration

Apply & Save Cancel

Step 4: Wait until the network connection status is **Connected** and an IP address is allocated. Then, the network is connected through the SIM card.

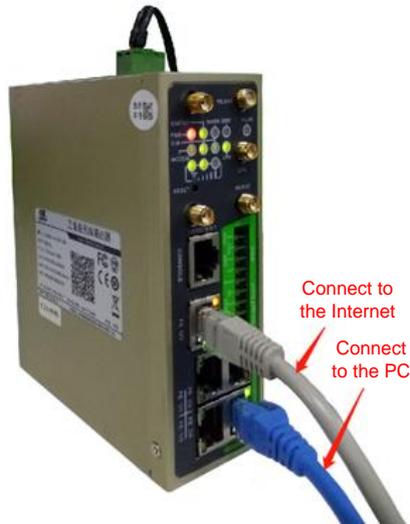


Step 5: For devices that support the dual-card mode and the SIM card is inserted to the slot 2, select **Dual SIM Enable**.



10.2 Method 2: Ethernet

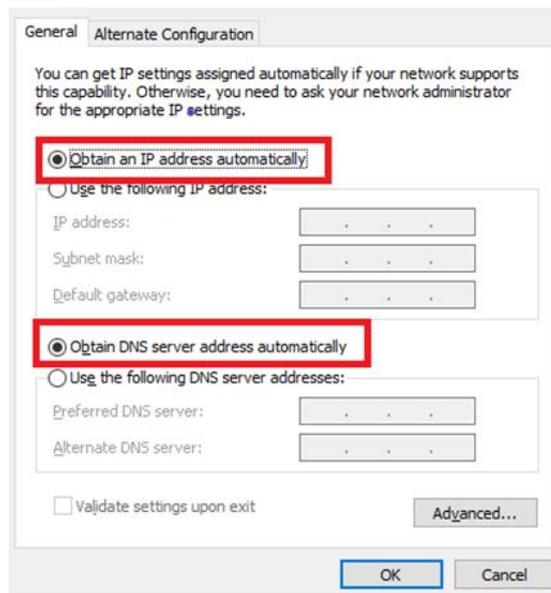
Step 1: Connect the power supply and network cable to the device, and connect the LAN (FE 1/1 or FE1/2 or FE1/3 or FE1/4) port to a PC and the WAN(FE0/1) port to the Internet.



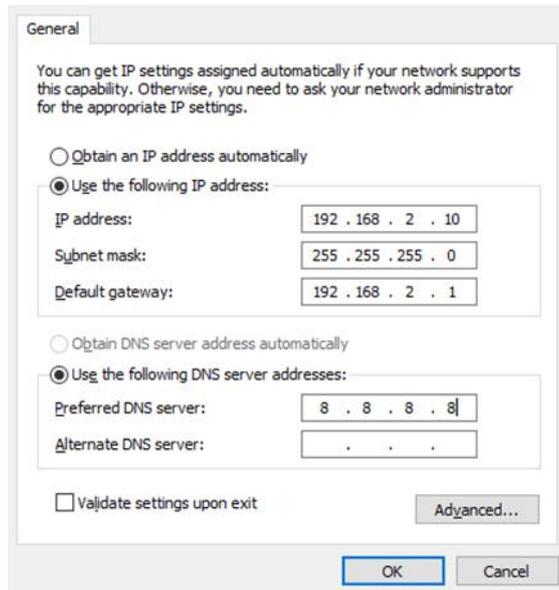
Step 2: Set the IP addresses of the PC and gateway to be in the same network segment.

Method 1: Automatically get the IP address (recommended)

Method 2: Use a fixed IP address and set the PC and gateway to be in the same network segment. Set the initial IP address of the device to **192.168.2.1** and the subnet mask to **255.255.255.0**. Select **Use the following IP address**. Enter an IP address ranging from 192.168.2.2 to 192.168.2.254, a subnet mask 255.255.255.0, and the default gateway 192.168.2.1, and then click OK.



Automatically get the IP address

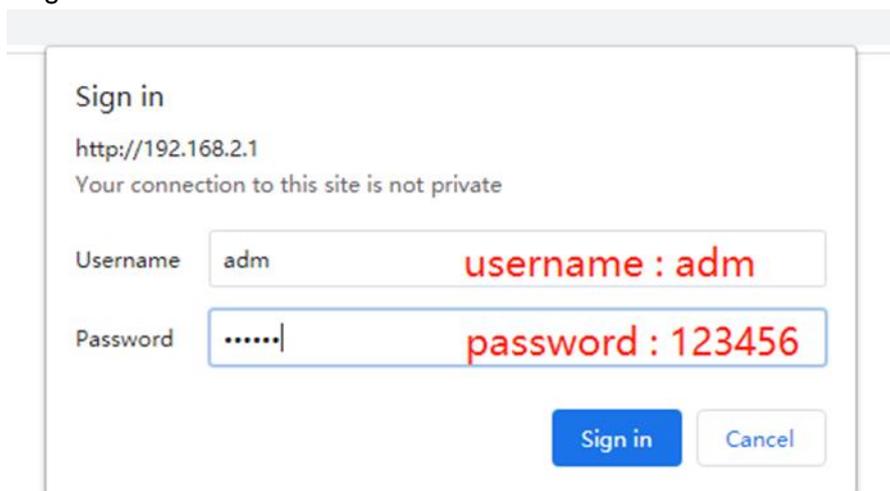


Use a fixed IP address

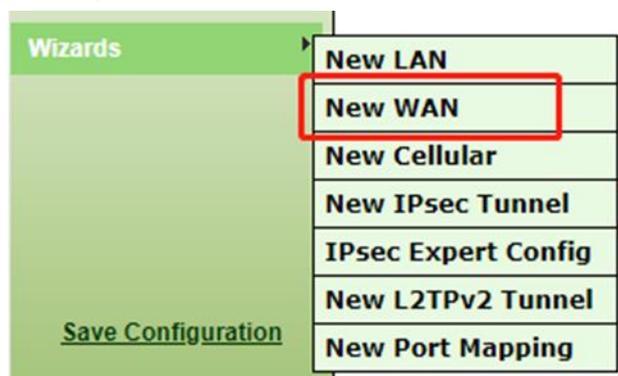
Step 3: In the address bar of the browser, enter the default device address **192.168.2.1** to enter the device web management page.

(If it prompts that the website is insecure, unfold the menu and click **Go Still**.)

Step 4: Log in to the device.



Step 5: Choose **Network** >> **New WAN**. Configure an IP address for the WAN port to connect the router to Internet.

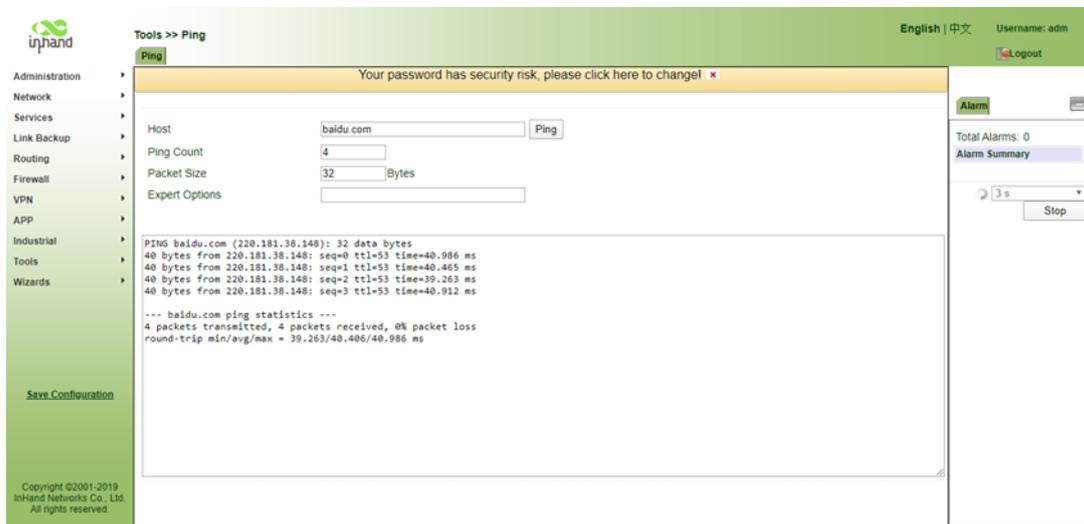


Step 6: We recommend that you select **Dynamic Address (DHCP)**. If you select **Static IP Address**, manually configure the network parameters, and then click **Apply & Save**.



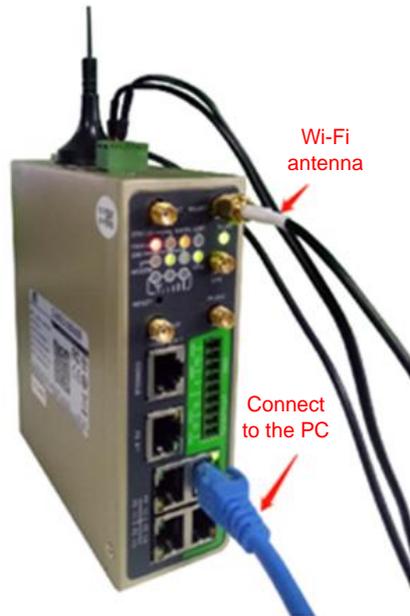
Dynamically allocate the IP address Configure parameters of the static IP address

Step 7: Choose **Tools >> Ping**. In the **Host** field, enter a common Chinese website to test whether the device can connect to the Internet. If data transmission is displayed, the device can connect to the Internet.



10.3 Method 3: Wi-Fi

Step 1: Connect the Wi-Fi antenna to the WLAN port and use a network cable to connect the PC and the power supply.



Step 2: Set the IP addresses of the PC and the gateway to be in the same network segment. On a browser, visit the web management page of the gateway. (See [Ethernet](#)).

Step 3: Choose **Network >> WLAN**, enable the WLAN port, and configure the parameters.

Network >> Wi-Fi

Status Wi-Fi IP Setup SSID Scan

Your password has security risk, please click here to change! ✖

Enable	<input checked="" type="checkbox"/>
Station Role	Client
Default Route	<input checked="" type="checkbox"/>
SSID	inhand1-5G
Auth Method	WPA2-PSK
Encrypt Mode	AES
WPA/WPA2 PSK Key	*****

Apply & Save Cancel

Step 4: Click the **Status** tab. The network connection status is **Connected**.

Network >> Wi-Fi

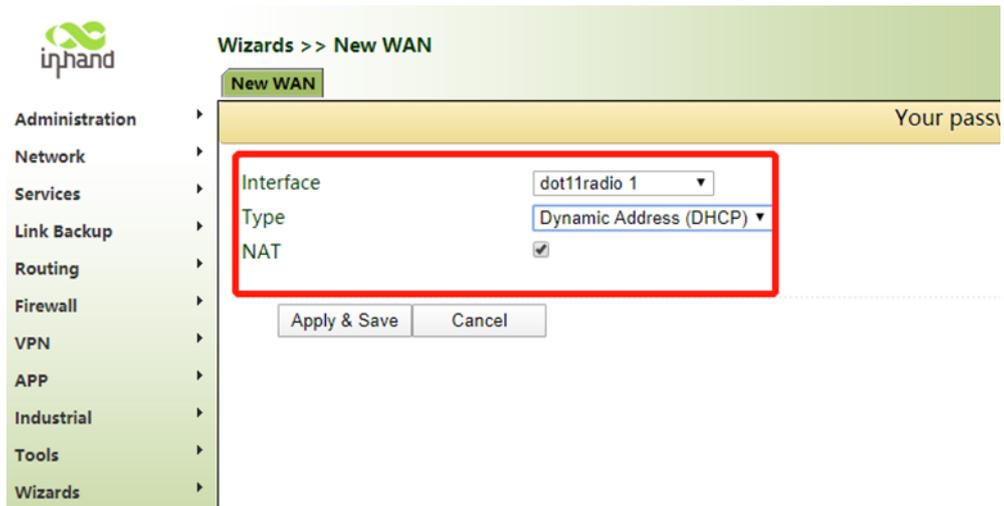
Status Wi-Fi IP Setup SSID Scan

Your password has security risk, please click here to change! ✖

Wi-Fi Status

Station Role	Client
Status	Connected
SSID	inhand1-5G
MAC Address	04:7f:0e:01:98:37
Auth Method	WPA2-PSK
Encrypt Mode	AES
IP Address	192.168.200.78
Netmask	255.255.255.0
Gateway	192.168.200.1
DNS	61.139.2.69 202.98.96.68
Connection time	0 day, 00:00:06

Step 5: Choose **Wizards >> New WLAN**, and configure the parameters.



Step 6: Choose **Firewall >> Network Address Translation (NAT)**. If a connection named dot11radio 1 is displayed, Wi-Fi is connected.

