

Ruijie RG-IS2700G Series Switches

Web-Based Configuration Guide, Release 10.4(3b16)T29

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Preface

Thank you for using our products.

Audience

This manual is intended for:

- Network engineers
- Technical support and servicing engineers
- Network administrators

Obtaining Technical

Assistance

- Ruijie Networks Website: <u>https://www.ruijienetworks.com/</u>
- Technical Support Website: <u>https://ruijienetworks.com/support</u>
- Case Portal: <u>http://caseportal.ruijienetworks.com</u>
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- Technical Support Email: <u>service_rj@ruijienetworks.com</u>
- Skype: <u>service_rj@ruijienetworks.com</u>

Related Documents

Documents	Description
Command Reference	Describes the related configuration commands, including command modes, parameter descriptions, usage guides, and related examples.
Hardware Installation and Reference Guide	Describes the functional and physical features and provides the device installation steps, hardware troubleshooting, module technical specifications, and specifications and usage guidelines for cables and connectors.

Conventions

This manual uses the following conventions:

Convention

Description

boldface font	Commands, command options, and keywords are in boldface.
italic font	Arguments for which you supply values are in <i>italics</i> .
[]	Elements in square brackets are optional.
{ x y z }	Alternative keywords are grouped in braces and separated by vertical bars.
[x y z]	Optional alternative keywords are grouped in brackets and separated by vertical bars.

Symbols

() Means reader take note. Notes contain helpful suggestions or references.

A Means reader be careful. In this situation, you might do something that could result in equipment damage or loss of data.

1 Smart Web Configuration

1.1 Overview

Web-based management allows you to manage switches, routers, and other network devices through browsers such as the Internet Explorer (IE).

Web-based management involves the Web server and Web client. The Web server, integrated into a device, is used to receive and process requests from the client (for reading Web files or executing commands), and return processing results to the client. The Web client is usually a Web browser, such as IE.

1.2 Configuration Environment Requirements

1.2.1 Client Requirements

- An administrator can log in to the Web-based management page of a switch from the Web browser of the Web client, to manage the switch. The client refers to a PC or some other mobile terminals such as laptops or iPads.
- Google Chrome, Firefox, IE9.0, IE11.0, and some IE kernel-based browsers (such as Maxthon) are supported. Exceptions such as garble or format error may occur if an unsupported browser is used.
- It is recommended to set the resolution to 1024 x 768, 1280 x 1024, or 1440 x 960. If other resolutions are used, the page font and format may not be aligned, the UI is unaesthetic, or other exceptions may occur.

1.2.2 Server Requirements

- The Web service needs to be enabled on the switch.
- Login authentication information for Web-based management needs to be configured for the switch.
- A management IP address needs to be configured for the switch.

1.3 Starting the Web Service

The Web service is enabled by default. You can enter **192.168.1.1** in the browser and press **Enter** to access the Web service. For details about the CLI configuration, see section 1.12 "Typical Configuration Examples".

Default Username/Password	Permission Description	
admin/admin	Super administrator, having all permissions	
guest/guest	Guest permission. A user with the guest permission is allowed to access the home page of the system and view the system status by default.	

1.4 Logging In to Web Management Platform

Enter the management IP address of a device in the address bar of the browser, for example, http://192.168.1.1, and press **Enter**. A page shown in the figure below is displayed.

Figure 1-1 Login Page

	4	USER LOGI Please input user n	N ame and password !	
RUJ	ie	User Name:	admin	
Networks	6	Password:	••••	
		Language:	English 🗸	
		LOGI	I.	
Device name:	Ruijie	Device posi	tion:	Contact Person:

Enter the username and password and click **LOGIN**. After you are authenticated, the home page of the Web management platform is displayed, as shown in the figure below.

Figure 1-2 Home Page of Web Management Platform

Rujje	SmartWeb	Current User Name:admin						2 Wizard	🗊 Live Help 💧 Safe Exit
Cuick configuration		ware version: 1.00 CPU: 3.41% Release(218423)	Usable memo	ory:31MB Usable Fla:		time: 1970-1-1 0:5 name: Ruijie	52:2		
 Port management VLAN 									
 Fault/Security System management 				Ruífie 2 c Console 1 3					
								Connec	ted 💼 Unconnected 👩 Closed
	Port informa	tion Flow trend Device	e configuration	Port Statistics					
	KW: Input the p	oort No. or DESC to search Search	h 🗹 Real-time r	efresh flow					
	Port	Describe	Input flow (Bps)	Output flow (Bps)	Open state	Connection state	VLAN ID	trunk port	Operate
	Gi 0/1		1.5K	0.3K	Open	0	1	NO	Check traffic trends
	Gi 0/2		0K	0К	Open	*	1	NO	Check traffic trends

1.5 Conventions

1.5.1 Icons and Buttons on the GUI

Icon/Button	Description
	Edit icon. Click this icon to edit the currently selected record.
×	Delete icon
Opened	Status switch icon
É	Optional port, indicating that the port is available. Click it or select it to switch the port state to "selected".
<u></u>	Non-optional port
<u>二</u> 近 <u>元</u>	Selected port
517	Aggregated port. The number illustrated indicates the aggregate port ID.
5	Trunk port, displayed on the panel on the VLAN and VLAN Set pages.
Save	Save button. Click it to save the input information.
Save editing	Save button in the editing state. Click it to save the edited input information.
Cancel editing	Exit the editing state to refresh the panel and discard the input.
All Invert Deselect	Batch processing operations on ports on the panel. They are located in the lower right corner
	of the panel. Note: These operations are displayed only when a panel supports multiple
	choices.
*	Mandatory item. An input box marked with this symbol indicates a mandatory item.
G-D	Binding
	Note
×	Warning

1.5.2 System Operations

Figure 1-3 Panel Diagram

Coptional Ron-optional Selected Copy Aggregated Tip:Press the left button and drag to select multiple ports

All Invert Deselect

Panel description: A panel indicates a switch and the port layout on the panel is consistent with that on the switch. The status displayed on the panel indicates the current port status of the device. Likewise, operations on the panel are actually performed on the device.

Panel operations: Click a port on the panel or hold and drag the mouse to select multiple ports to switch the port state to selected. You can configure a selected port, for example, add the port description and configure port mirror and port rate limited.

Port description: A port can have multiple states. As shown in the figure below, Port 7 and Port 8 can be member ports of an aggregate port and non-optional ports at the same time. Aggregate Port 1 is also a trunk port in the figure below. The selection of an aggregate port indicates that all members of the aggregate port are selected, except on the port management/aggregate port page. In general, when the mouse is moved over a non-optional port or aggregate port, information about the port is displayed in 1 or 2 seconds.

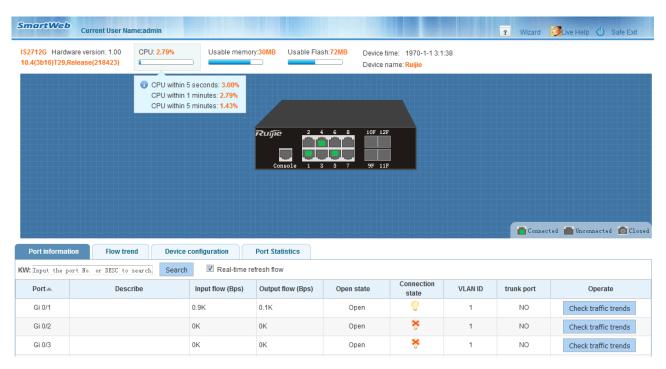
Figure 1-4 Panel Diagram

$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
🖓 Optional 🖷 Non-optional 🖶 Selected 🐴 Aggregated 🛛 Tip:Press the left button and drag to select multiple ports	

1.6 Home Page

Choose Index to access the home page of the system, as shown in the figure below.

Figure 1-5 Home Page



Configuration description:

Port information: The **Port information** tab page displays the port information list of the device. Enter the port number or port description in the input box and click **Search** to search for required port information. You can click the **Port**, **Input flow**, or **Output flow** table header to sort the port list by column. If **Real-time refresh flow** is selected, the traffic data in the port list is updated at intervals. Click **Check traffic trends**. The traffic trend of the port is displayed and the **Flow trend** tab page is displayed.

Flow trend: Click **Check traffic trends** in the port list or click a port on the device panel to view the traffic trends of the port, as shown in the figure below.

Figure 1-6 Flow Trends

Port information	Flow trend	Device configuratio	n Port Statist	ics					
Description: The mouse	e clicks on the port in	the device panel to see	the flow trend of the p	ort					
Output 7.5K					Input 150К ——				
(sd 8 5к +					(sdg) 100К —			•••	
2.5K			• • • • • • •		50К —				
ок	03:1 ['] 0:30	03:11:00 Port1Output flow	03:11:30	03:12:00	ОК ——	03:10:30	03:11:00	03:11:30	03:12:00

Device configuration: The **Device configuration** tab page displays the current overall configurations of the device. You can click **More settings** to access the specific configuration page, as shown in the figure below.

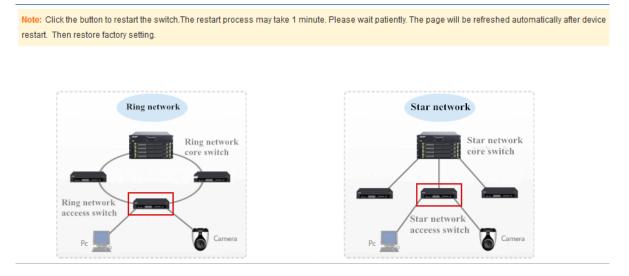
Figure 1-7 Device Configuration

Port information	Flow trend	Device configuration	Port Statistics
Total number of device	VLAN	1	More settings
Number of Aggregation Link		1	More settings
Port mirroring		CLOSE	More settings
Anti-DHCP attack defer	nse	CLOSE	More settings
Anti-DOS attack defens	se	CLOSE	More settings
Anti-Loop attack defen	se	OPEN	More settings

1.7 Quick Configuration

Choose **Quick configuration** to access the **Quick configuration** page. This page is displayed when a device is configured for the first time.

Figure 1-8 Quick Configuration



On the Quick configuration page, select Ring network or Star network based on the actual network type.

Configuration description:

Quick configuration can be used only when a device is configured for the first time. It is unavailable when a device has been configured. You need to restore the factory settings, restart the device, and then use quick configuration.

Different configuration wizards are displayed for different network types.

Figure 1-9 Selecting a Network Type

Note: Click the button to restart the switch. The restart process may take 1 minute. Please wait patiently. The page will be refreshed automatically after device restart. Then restore factory setting.



The configuration of a ring network access device includes the VLAN settings, Ethernet ring protection switching (ERPS) settings, Simple Network Management Protocol (SNMP) settings, and time synchronization settings, as shown in the figure below.

Figure 1-10 Configuring a Ring Network Access Device

VLAN Setting: Configure a management vlan and data VLAN for your device.
Manage VLAN ID(1-4094): 1 * 🕕
VLAN name: VLAN0001
Manage IP: 192.168.1.1 Mask: 255.255.255.0
Default gateway: *
Data VLAN ID(1-4094): 1 *
ERPS Setting: When configuring the ERPS, the port mode of the selected port will be configured as the
trunk modeERPS VLAN ID(2-4094): 4000 *
Contraction (Contraction) (Con
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Optional 🚍 Non-optional 🚘 Selected 🖸 Aggregated Tip:Press the left button and drag to select multiple ports
All Invert Deselect
SNMP Setting:Configure SNMP administrator to monitor and manage nodes on the net.
SNMP service: Closed
Other Setting: Configure device time synchronization with NTP server, device name.
Time synchronization: Opened
Time server IP: *
Device name: Ruijie
Back Complete

A management VLAN is used for the switch management. An IP address and default gateway need to be configured for the management VLAN. After configuration, you need to access the management IP address to manage the switch. Port GI0/1 is the management port by default.

A data VLAN is used for devices in the user data communication network, such as the front-end PC or camera. Data VLANs differ from management VLANs, but they can use the same VLAN ID.

In the ERPS configuration, set an ID of the VLAN that needs ERPS and select two ports for connecting to the ERPS ring network.

The SNMP service is disabled by default. You can enable it and configure the trap host and SNMP password (community attributes).

The time synchronization function is enabled by default. You need to configure the IP address of the NTP server to synchronize the system time. The NTP server can be deployed on the upper-level core switch/router or on the server. If a device is capable of accessing the Internet, the public NTP server on the Internet can be used.

The configuration of a star network access device includes the VLAN settings, upper connector settings, SNMP settings, and time synchronization settings, as shown in the figure below.

Figure 1-11 Configuring a Star Network Access Device

1	
VLAN setting: Configure a manager	ment VLAN and data VLAN for your device.
Manage VIANID(1-4094) : 1	* 🔞
VLAN name: VLAN0001	
ManagementIP: 192.168.1.1	* Mask: 255.255.255.0
Default gateway:	*
Data VLAN ID(1-4094): 1	*
Upper connector: Select the port t	to connect to the uplink network, which will be set to the trunk port.
<u>[</u>	
2 4 6 8 10 12	
1 3 5 7 9 11	
Optional Ron-optional Relected Aggreg	ated CTrunk
	<u> </u>
3 SNMP setting: Configure SNMP adm	ninistrator to monitor and manage nodes on the net.
SNMP services: (Closed)	
Other configurations:Can Configu	re device time synchronization with NTP server, device name.
Time synchronization: Opened	
Time server IP:	*
Device name: Ruijie	
	Back Complete
	book bony sto

Step 1, Step 3, and Step 4 are the same as those for configuring a ring network access network.

In Step 2, you need to configure an uplink port, that is, the port for connecting to the upper-level switch. The selected uplink port will be set as a trunk port.

After the management IP address is changed and saved, the page will be suspended and gives no response. Change the IP address of the client to ensure that it is in the same network segment as the management IP address, and then use the changed IP address to access the Web management system of the device.

1.8 Port Management

1.8.1 Basic Settings

Choose **Port management > Basic settings** to access the **Port Basic Settings** page.

Figure 1-12 Port Basic Settings

Port Basic	Settings				
	Setting the port on the panel, select multiple ports for batch settings, and support mou ected parameter is not supported, the corresponding setting will not take effect	se drag to select multiple ports.			
	t the port to set:				
2 4 6	8 10 12				
	7 9 11				
Optional §	Non-optional 💼 Selected 🖸 Aggregated Tip:Press the left button and drag t				
Port de	scription(0-80): Port status : n	All Invert Deselect			
Portue	Port rate: Auto Vork mode: A				
save Bat	tch editing				
Port list					
port	port description	port state	port rate	mode	operation
1		Open	Auto	Auto	2
2		Open	Auto	Auto	2
3		Open	Auto	Auto	1
		Open	Auto	Auto	1
4					

Configuration description:

Port basic settings: Select a required port, set the port status, port rate, and work mode. The value **no modify** indicates that original configuration is retained. During batch setting, you can modify one or several items in batches by setting other items to **no modify**.

Batch port description setting: Click Batch editing. A dialog box shown in the figure below is displayed.

Figure 1-13 Batch Port Editing

the de	scription of batch editing	×
port	port description	
1	important	
2	desc	
3		
4		E
5		-
6		
7		
8		
9		
10		
<u> </u>		-
set	: clear quit	

Enter port description in text boxes and click set for the configurations to take effect.

When multiple ports are selected, **Port description** becomes unavailable. To set port descriptions in batches, click **Batch editing** and enter port descriptions in the displayed dialog box. If you clear the text boxes and then click **set**, the descriptions of all ports on the device will be cleared.

1.8.2 Aggregate Port

Choose **Port management > Aggregate port** to access the **Aggregate port** page.

Figure 1-14 Aggregate Port

Aggregate port						
port contains up to eight member ports, and the aggregate port load balances tra	Instructions: In order to provide increased bandwidth and redundancy, multiple physical ports (member ports) are combined into one logical port (aggregate port). An aggregate port contains up to eight member ports, and the aggregate port load balances traffic across these physical ports. Note: The port that sets ARP spoofing for important devices, or sets the MAC VLAN, or sets ARP check and monitoring port can not join the aggregation.					
Aggregation port number (1-32): * Please select the port to join the aggregation port:						
2 4 6 8 10 12 1 1 1 1 1 1 1 3 5 7 9 11 1 3 5 7 9 11 1 3 5 7 9 11 1 3 5 7 9 11						
Add						
Port aggregation list						
aggregate port	member port	operation				
1	7,8	📄 🗙				
FirstPage PreviousPage [1] NextPage LastPage 1 / 1Page						

Configuration description:

Creating an aggregate port: Enter an aggregate port number, select member ports, and then click **Add**. An adding success message is displayed, indicating that the aggregate port is created. The aggregate port is displayed on the panel after successful creation.

Editing an aggregate port: Aggregate ports displayed on the panel are non-optional. To edit an aggregate port, click the edit icon in the **operation** column in **Port aggregation list**. Member ports of the aggregate port are selected. Click a member port to deselect it and then click **Save editing** to save the modification.

Deleting an aggregate port: To delete an aggregate port, click the delete icon in the **operation** column in **Port aggregation list**. A message is displayed, asking you whether to delete the aggregate port. Click **Yes** to delete the aggregate port. After deletion, the deleted aggregate port becomes an optional port on the panel.

ARP-enabled ports, ARP-spoofing-enabled ports on important devices, ports with the MAC VLAN function enabled, and monitoring ports in port mirror cannot be aggregated and are displayed as non-optional ports on the panel. If you move the mouse over an non-optional port, a message is displayed, indicating that these functions are enabled on the port and cannot be selected.

1.8.3 Port Mirroring

Choose **Port management > Port Mirroring** to access the **Port Mirroring** page.

Figure 1-15 Port Mirroring

Port Mirroring		
Description: Port mirroring is the capability to send a copy of network packets seen source ports can be mirrored to one single destination port. Note: Some ports that have been added to the aggregation ports cannot be used as o		
Please select source port:(You can select multiple ports, but it may affect devia	ce performance)	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		
Optional 💼 Non-optional 💼 Selected 🚹 Aggregated Tip:Press the left bu		
Please select destination port:(select only one port)	All Invert Deselect	
C Optional R Non-optional Selected Aggregated		
save refresh		
Port mirroring list		
Source port	Destination port	operation
Gi0/4	Gi0/3	×
	FirstPage PreviousPage [1] NextPage	LastPage1 / 1Page

Configuration description:

The **Port Mirroring** page is editable initially because the SmartWeb allows only one mirroring port. There are two panels on this page. The upper panel allows you to select a source port (mirrored port, multiple choices are supported) while the lower panel allows you to select only one destination port (mirroring port). After selecting or changing ports on the panel, click **save**. A setting success message is displayed.

A The panel displays the status of current aggregate ports, which are editable. If you change a port and want to discard the change, click **refresh** to restore the configuration status of current aggregate ports on the panel.

A Members of an aggregate port cannot be used as the destination port or source port, and the destination port cannot be the same as the source port.

1.8.4 Port Rate Limiting

Choose **Port management > Port rate limiting** to access the **Port rate limiting** page.

Figure 1-16 Port Rate Limiting

Port rate limiting			
	Itiple ports on the panel to set. '-' means 'unlimited speed'. /8 KB/s = 125 KB/s. The theoretical rate for 1M bandwidth is	125KB/s.	
Select port to set:			
2 4 6 8 10 12 2 7 7 9 11			
🖳 Optional 🚍 Non-optional 🚍	Selected Aggregated Tip:Press the left button and dr	rag to select multiple ports	
		All Invert Deselect	
nput speed limit (64-1000000):	KBit/s		
utput speed limit (64-1000000)	KBit/s		
Save			
Port speed limit list			
port	input speed limit	output speed limit	Operation
1	-	-	2
2	-	-	
3	-	-	
4	-	-	2

Configuration description:

Select a port on which the rate limit needs to be configured (multiple ports can be selected for batch rate limit configuration) on the panel, move the slider below the panel to adjust the input and output limits (the rate limit value is displayed on the right side of the slider). A selected port is not rate limited if the slider is moved rightmost. Click **Save**. A setting success message is displayed. The rate limits configured for the ports are displayed in **Port speed limit list**. Select a port on the panel. The slider slides to the relevant position and the specific rate limit value is displayed. You can change and save the value.

Aggregate ports cannot be rate limited.

1.8.5 ERPS Settings

Choose Port management > ERPS setting to access the ERPS setting page and configure an ERPS network.

Figure 1-17 ERPS Setting

ERPS setting						
	t has been added to the loop c ERPS ring configuration in the		rty of the port, and East and W	est ports cannot be the same.		
Global ERPS						
Opened						
Ethernet ring configurat	ion					
ERPS ID(2-4 Please select the ERPS p	094): 4000 port:(only two ports can be se	* elected)				
Note: A ring can only be co	onfigured with an Owner devic	ce and a blocking port. When y	you select the Owner device, y	rou should choose a port cont	figured as a blocking port!	
Owner equipment:						
Add Cancel						
ERPS ring list						
ERPS VLAN	West port	East port	Blocking port	Ring link state	Operation	
4000	Gi0/12 (Link Failure)	Gi0/11 (Link Failure)	None	initialize	×	

Configuration description:

Global ERPS is disabled by default. After global ERPS is enabled, you can create multiple ERPS rings. Only simple ERPS rings can be configured in this system while intersecting rings and tangent rings are not supported. Enter a VLAN ID and select two ports for an ERPS ring. Only one blocking port needs to and can be specified for each ERPS ring. The device on which the blocking port exists is configured as a Ring Protection Link (RPL) owner and the selected port is configured as an RPL port.

1.8.6 Optical Module

Choose **Port management** > **Optical Module** to access the **Optical Module** page. On this page, you can view information about an optical module, including the temperature, voltage, receive optical power, and transmit optical power, and whether the optical module works in the normal state.

Figure 1-18 Optical Module

Optical Module)						
2.List (warr	(OK): the current state is ning): the current state ex):the current state is sev	ceeds the allowabl					
fiber module por	t information list						
port number	temperature(°C)	voltage(V)	bias current(mA)	Receive optical power(dBm)	Send optical power(dBm)	warning	operation
					FirstPage PreviousPage [1]	NextPage LastPage1	/ 1Page

1.9 VLAN

1.9.1 VLAN

Choose VLAN to access the VLAN page. The VLAN page contains the VLAN Set and Trunk Set tab pages.

VLAN Set

Figure 1-19 VLAN Set

VLAN Set	Trunk Set			
VLAN list				
VLAN ID	VLAN	VLAN IP address	port	
1	VLAN0001	192.168.1.1/24	1-6,9-12,Ag1	1
O Create VLAN		FirstPag	e PreviousPage [1] NextPage Las	tPage 1 / 1Page

Configuration description:

Creating a VLAN: To create a VLAN, enter the VLAN ID. Other information is optional. Click **Create VLAN**. A creation success message is displayed and the created VLAN is displayed in the VLAN list.

Editing a VLAN: Click the edit icon in the last column of the VLAN list. Information about the VLAN is displayed. Edit the information and click **Save editing**. An editing success message is displayed.

Deleting a VLAN: Click the delete icon in the last column of the VLAN list. A message is displayed, asking you whether to delete the VLAN. Click **Yes**. A VLAN deletion success message is deleted, indicating that the VLAN is deleted. VLAN 1 is the default VLAN and cannot be deleted.

VLAN 1 is the default management VLAN. It can be modified but cannot be deleted. When changing the IP address of VLAN 1, ensure that the new IP address is reachable. After change, the SmartWeb redirects to the login page, on which you need to log in again. If the page direction fails and a message is displayed, indicating the page cannot be found, the configured IP address may be unreachable. In this case, check the network connection.

Figure 1-20 Trunk Set

VLAN S	Set Trunk Set	t			
specificati	on: If a port is allowed th	rough multiple VLAN packet			
Trunk list	t				
	Interface	Interface mode	Native Vlan	Allowed VLAN	Operation
🔇 Add Ti	runk 🤤 Delect Trunk		FirstPa	age PreviousPage [1] NextPage La	astPage1 / 1Page

Configuration description:

Creating a trunk port: Select a port on the panel, and enter the native VLAN and permitted VLANs (for example, 3–5, 8, 10), and click **Add Trunk**. A creation success message is displayed. The created trunk port is displayed in the trunk list.

Trunk Set

Editing a trunk port: Click the edit icon in the **Operation** column of the trunk list. Information about the trunk port is displayed. Edit the information and click **Save editing**. An editing success message is displayed.

Deleting a trunk port: Click the edit icon in the **Operation** column of the trunk list. A message is displayed, asking you whether to delete the trunk port. Click **Yes**. A deletion success message is displayed.

1.10 Fault/Security

1.10.1 Anti-attack

Choose Fault/Security > Anti-attack to access the Anti-attack page. The Anti-attack page contains four tab pages: Anti-attack of ARP, Anti-attack of MAC, Anti-attack of DHCP, and Anti-attack of DOS/flow.

• Anti-attack of ARP

Figure 1-21 Preventing ARP Cheating

Anti-attack of ARP Anti-attack of MAC	Anti-attack of DHCP Anti-attack of D	OOS/flow
Prevent ARP cheating : Prevent ARP spoofing against important ARP static binding: Prevent ARP spoofing or attack against stati addresses.		C, and a MAC can bind multiple IP
Prevent ARP cheating ARP static binding		
Equipment IP: * Filter IP port:		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
Optional 🖳 Non-optional 📄 Selected 🚹 Aggregated	Fip:Press the left button and drag to select multiple ports	
Add	All In	vert Deselect
Equipment IP	Filter IP port	Operation
Delete the important device IP of the selection	FirstPage PreviousPage [1] NextPage LastPage / 1Page

Configuration description:

Defense status: Click the status switch icon. After the ARP attack defense function is enabled, the defense settings are displayed on the page, which contains the **Prevent ARP cheating** and **ARP static binding** tab pages. After the ARP attack defense function is disabled, the defense settings are hidden and only the defense status is displayed.

Prevent ARP cheating: ARP spoofing prevention checks the source IP address of an ARP packet on the port, to determine whether the IP address matches the configured IP address of important equipment. If yes, the system discards the packet to prevent the user client from receiving incorrect ARP responses. Therefore, the IP address for packet filtering on the port need to be set. Set **Equipment IP**, select the port for filtering packets that matches the configured equipment IP address, and click **Add**. The added equipment IP address and the port for filtering are displayed in the list. Click the edit icon in the list to edit **Equipment IP** and **Filter IP port**. Click the delete icon. A message is displayed, asking you whether to delete the equipment IP. Click **Yes** to delete the IP address.

ARP static binding

Figure 1-22 ARP Static Binding

Anti-attack of ARP	Anti-attack of MAC	Anti-attack of DHCP Anti-attack of D	OS/flow
-	ent ARP spoofing against importar ARP spoofing or attack against sta	nt devices or gateways. tic assigned IP address users. An IP can only bind to a MA(C, and a MAC can bind multiple IP
Prevent ARP cheating	ARP static binding		
ARP static binding:	* MAC:	(Format: 0000.0000.0000)	Bind
IP IP	MAC	Opera	ation
Delete the selected st	atic binding	FirstPage PreviousPage [1] NextPage LastPage 1 / 1Page

Configuration description:

Add static binding: Manually enter an IP address and an MAC address and click **Bind**. The added static binding is displayed in the list.

Editing static binding: Click the edit icon in the list. The IP address and MAC address are displayed in the input boxes. Modify the IP address and MAC address and click **Bind** to save the modification.

Deleting static binding: Click the delete icon in the list. A message is displayed, asking you whether to delete the IP+MAC binding. Click **Yes** to delete the binding.

Anti-attack of MAC

Figure 1-23 Limiting Port MAC Number

Anti-attack of ARP Anti-attack of MAC Anti-attack of DHCP Anti-attack of DOS/flow
Protection setting
Limit port MAC number: The display port limit allows access to the maximum number of macs. Static MAC address: To ensure the security of important data, it is recommended that the MAC address of important devices such as servers be added to the static MAC address table.
Limit port MAC number <u>Static MAC address</u>
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
COptional Ron-optional Selected Aggregated CTrunk
Limited MAC number (1-128, required) : 32
Add Save Cancel
Port Limit port MAC number Operation
FirstPage PreviousPage [1] NextPage LastPage 1 / 1Page

Configuration description:

Limit port MAC number: Select a required port and configure the limited number of MAC addresses, to limit the maximum number of MAC addresses that can be learnt by the selected port.

Static MAC address

Figure 1-24 Static MAC Address

Anti-	attack of ARP	Anti-	attack of MAC	Anti-attack	of DHCP	Anti-attack of DOS	5/flow
Protec	tion setting						
Static M	ort MAC number: The of AC address: To ensure ttic MAC address table.					dress of important devices	such as servers be adde
Limit	t port MAC number	St	atic MAC addre:	s			
MAC	address list: All	-	Manually bind	MAC addresses			
	Users MAC	Port	Port category		Port description	on	Operation
	000c.291f.b2cf	Gi0/1	Static				00
	000c.293d.c049	Gi0/1	Static				00
	000c.2967.96ae	Gi0/1	Static				00
	000c.2982.c945	Gi0/1	Static				0-0
	000e.c6cc.b7bc	Gi0/1	Static				00
	001a.a92a.3424	Gi0/1	Static				00

Configuration description:

The MAC address list contains the static MAC address list and dynamic MAC address list. Select **All**, **Static**, or **Dynamic** from the **MAC address list** drop-down list to display the required MAC address list.

Setting a static MAC address:

Binding a single MAC address: Click the bind icon in the **Operation** column of the MAC address list to bind a single dynamic MAC address as a static MAC address. After binding, the bind icon is changed to the delete icon. Batch binding of MAC addresses: Select the check boxes in front of entries and choose **Dynamic** >> **static MAC address** in the lower left corner of the list to complete batch processing.

Manually binding MAC addresses: Click **Manually bind MAC addresses**. The **Manually bind MAC addresses** dialog box is displayed. Enter a MAC address, select the port of the device to be bound, and click **Bind** to complete the binding operation.

Figure 1-25 Manually Binding MAC Addresses

Manually bind MAC addresses	
User MAC address: *	
Port of the binding device:	
	<u>ן</u>
1 3 5 7 9 11	
💭 Optional 📃 Non-optional 🚍 Selected 🚹 Aggregated 🛄 Trunk	
Bind Quit	

Deleting a single MAC address: Click the delete icon in the **Operation** list of the MAC address list to delete a single static MAC address.

Deleting MAC addresses in batches: Select the check boxes in front of static MAC address entries and click **Delete the static MAC address** in the lower left corner to complete batch processing.

When you choose **Dynamic** >> **static MAC Address** or choose **Delete the static MAC address** to perform batch processing, the selected MAC addresses must be of the same type.

Anti-attack of DHCP

Figure 1-26 Anti-attack of DHCP

Anti-attack of ARP Anti-attack of MAC Anti-attack of DHCP Anti-attack of DOS	S/flow
specification: Open the anti-dhcp attack function, intercept the copy of DHCP server and address the attack message, prohibit	t the private DHCP server.
Opened After opening , you can set the trust port , and then hide the settings trust port after it is closed .	
Custom set DHCP trust port.	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
Optional 🚍 Non-optional 🚍 Selected 🛐 Aggregated Tip:Press the left button and drag to select multiple ports	
All Invert	Deselect
save cancel	
Trusted Port	Operate
5-6	×
FirstPage PreviousPage [1] NextPage I	astPage 1 / 1Page

Configuration description:

A port connected to the Dynamic Host Configuration Protocol (DHCP) server needs to be configured as a DHCP trusted port. The DHCP server connected to a non-trusted port cannot work properly. A selected port on the panel indicates that the port is configured as a DHCP trusted port. You can select a port on the panel and click save. To delete a DHCP trusted port, select the delete icon in the Operate column of the port. A message is displayed, asking you whether to delete the DHCP trusted port. Click Yes to delete the DHCP trusted port.



f A The panel displays DHCP trusted ports and is always editable. If you modify a port and want to discard the modification, click cancel to restore currently enabled DHCP trusted ports on the panel.

Anti-attack of Dos/flow

Figure 1-27 Anti-attack of DOS/Flow

Anti-attack of ARP	Anti-attack of MAC	Anti-attack of DHCP	P Anti-attack	of DOS/flow	
DOS attack protection state	JS				
Illustration: Open the anti DOS service to the legitimate users.	S attack function, intercept illegal	TCP messages, and ensure th	at the equipment or serv	ver hosts provide norr	mal
Closed					
Traffic attack protection					
Illustration: Open traffic attaction to ensure that the network is not	k capabilities to intercept a large ot affected.	number of broadcasts, multica	st, or unknown annound	cers generated in the	network
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$					
Coptional 🖳 Non-optional	I 💼 Selected 🛐 Aggregated	Tip:Press the left button and	drag to select multiple po	orts	
			All	Invert Deselect	
Storm suppression rat	io	Not suppressed 🛞			
Add					
Port	Sto	rm suppression ratio		Operation	
		FirstPage Prev	riousPage [1] NextPage	EastPage 1 / 1	1Page

Configuration description:

DOS attack protection status: Click the status switch to enable or disable the Denial of Service (DoS) attack protection function.

Traffic attack protection: Select a required port and set Storm suppression ratio to suppress broadcast, multicast, and unknown unicast packets to prevent traffic depletion caused by broadcast storms.

1.10.2 Path Detection

Choose Fault/Security > Path detection access the Path detection page. The Path detection page contains the Ping, Tracert, and Cable Detection tab pages.

Ping

Figure 1-28 Ping

Ping Tracert Cable Detection	
Instructions: Use the ping function to detect whether the network connection and the host are accessible.	
Destination IP: *]
Timeout(1-10): 2	
Repeat time(1-100): 5	
Starting test	
Test results:	
Sending 5, 100-byte ICMP Echoes to 192.168.1.101, timeout is 2 seconds: < press Ctrl+C to break >]
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/2/10 ms	
4	:

Configuration description:

Enter the destination IP address and other information and click **Starting test**. Detection results are displayed in the **Test results** area after a period of time.

Tracert

Figure 1-29 Tracert

Ping Tracert Cable Detection	
Instructions: Tracert detection can detect the gateway to the destination, the function is used for detecting whether the destination can reach the path to the destination, if the destination unreachable, diagnose the problem.	1 and
Destination IP: *	
Timeout(1-10): 2 Starting test	
Test results:	

Configuration description:

Enter the destination IP address and other information, and then click **Starting test**. Detection results are displayed in the **Test results** area after a period of time.

Cable Detection

Figure 1-30 Cable Detection

Ping Tracert Cable Detection	
Instructions: The length in Test results indicates the distance of the failure point when the cable condition is abnormal(The test results are with range of 10 meters).	hin a
Select the detected port:	
C Optional R Non-optional Selected C Aggregated	
Starting test	

Configuration description:

Select a required port on the panel and then click **Starting test**. Detection results are displayed in the **Test results** area after a period of time.

Figure 1-31 Cable Detection

Ping Tracert Cab	le Detection						
Instructions: The length in Test results indicates the distance of the failure point when the cable condition is abnormal(The test results are within a range of 10 meters).							
Select the detected port:							
2 4 6 8 10 12 1 1 1 1 1 1 1 3 5 7 9 11 1 3 5 7 9 11 1 3 5 7 9 11							
Starting test	Starting test						
Test results							
port	length(m)	state					
2	0.0	Open circuit					
	FirstPage PreviousPage [1] NextPage LastPa	ge <mark>1</mark> / 1Page					

1.10.3 ACL

Choose Fault/Security > ACL to access the ACL page.

• ACL effective time

Figure 1-32 ACL Effective Time

ACL effective time Access Control List Apply ACL
Instructions: Time object is used to define the policy effective time.
New object Select existing objects
New object name:
Choose week: Monday Tuesday Wednesday Thursday Friday Saturday Sunday
Period of time: 🔤 - 💼 🛖
Save
Time object list:
Week of time Period of time Operation
Delete object FirstPage PreviousPage [1] NextPage LastPage1 / 1Page

Configuration description:

Adding ACL effective time: Click **New object**, enter a new object name, select a day of a week, set the time range, and then click **Save**.

Editing ACL effective time: Click the edit icon in the **Operation** column of the list to modify parameters about the ACL time object.

Deleting ACL effective time: Select an ACL time range in the list and click the delete icon.

Deleting a time object: Click **Delete object** to delete a created time object."

Access Control List

Figure 1-33 Access Control List

ACL e	effective	time	ess Contr	ol List Ap	oply ACL					
Instructions: Access Control List(ACL), By configuring a series of matching rules, allowing or prohibiting traffic for the specified data stream(e.g. defined source IP address, port number, etc.) to filter through the network interface data. Attention: ACL rules are sequential, and the rules in the front match first. If the policy entry is too many, the operation time will be relatively long. Wildcard: The wildcard mask specifies which bits of the IP address should be ignored when an IP address is compared to another IP address. The '1' in the wildcard mask means to ignore the digit in the IP address, and '0' means that it has to be preserved. If the wildcard mask is not configured, 0.0.0.0 will be considered the default mask.										
New A	CL N	ew ACL access con	trol rules	Create an anti	virus ACL					
Select /	ACL acces	ss control list		 List of rules 						
Action	Protocol	Source IP/ wildcard mask	Source port	Destination IP/ wildcard mask	Destination port	Effective Time Object	Status	Order of rules	Operation	
										*
										Ŧ
Delete	ACL									

Configuration description:

Creating an ACL: Click **New ACL** and set parameters to create an ACL object.

Creating an antivirus ACL: Click Create an antivirus ACL to add an antivirus ACL object and set rules.

Deleting an ACL object: Click **Delete ACL** to delete a created ACL object.

Adding an ACE: In an ACL object, enter specific information to add an ACE.

Editing an ACE: In an ACL object, click the edit icon to modify the ACE for the ACL object.

Deleting an ACE: In an ACL object, click the delete icon to delete an ACE.

Apply ACL

Figure 1-34 Apply ACL

ACL effective time	Access Control List	Apply ACL
Select the port to set:		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		
💭 Optional 🚍 Non-optional 🕤	Selected 1 Aggregated	Tip:Press the left button and drag to select multiple ports
		All Invert Deselect
ACL list:	▼	
Filtering direction:	In 🚽	
Save		
ACL access control list.		
ACL	Apply to interface	Filtering direction Operation
		FirstPage PreviousPage [1] NextPage LastPage1 / 1Page

Configuration description:

Adding an ACL application: Specify a port, select an ACL list and the filtering direction to add an ACL application.

Editing an ACL application: Click the edit icon, specify another port, select the ACL list and filtering direction to modify the ACL application.

Deleting an ACL application: Click the delete icon to delete an ACL application.

1.10.4 Loop Protection

Choose Fault/Security > Loop protection to access the Loop protection page.

Figure 1-35 Loop Protection

Loop protection
STP anti-loop
Instructions: Turning on the STP anti-loop can not only avoid loop induced broadcast storm problems, but also provide a link redundant backup Attention: If this function is enabled on the device connected with the user PC, the user's PC will be delayed for 1-2 minutes, so it's a suggestion to open STP loops only on non-plugged devices.
Spanning tree state: Open Spanning tree

Configuration description:

Enabling the STP anti-loop can prevent broadcast storms caused by loops and provide link redundancy backup.

1.10.5 RLDP Settings

Choose Fault/Security > RLDP setting to access the RLDP setting page.

Figure 1-36 RLDP Setting

RLDP setting					
Instructions: Only the g	Instructions: Only the global RLDP opened, and the port RLDP will run.				
RLDP state: Opened Detection interval: 3 * Number of detection: 2 *					
Port RLDP setting					
Instructions: 1.Port open loop detection can avoid the broadcast storm problem caused by loop. It is recommended to open the RLDP loop check on the port that the Access devices connect to the user's PC 2.The two ports corresponding to the single/double directional link detection should open RLDP configure. It is recommended to set up the link between devices. Attention: The troubleshooting method on the port is 'close the port'.					
Custom setup RLDP an	ti-loop port:				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$					
C Optional R Non-op	tional 💼 Selected 🚹 Aggregated Tip:Press the left button and drag to select multiple ports				
Tes	t type: Unidirectional Link D 🗸	Deselect			
Port	Test type	Operation			
Gi0/12	Unidirectional Link Detection	2 ×			

Configuration description:

The Rapid Link Detection Protocol (RLDP) function can be enabled on a port only after the global RLDP is enabled. Loop detection enabled on a port can prevent broadcast storms caused by loops. It is recommended to enable the RLDP function on the port of an access device connected to user clients. RLDP should be enabled on both ports for unidirectional and bidirectional link detection, and is recommended to be configured on the links between devices.

1.11 System Management

1.11.1 System Settings

Choose System management > System settings to access the System settings page. The System settings page contains the System Settings, Restart, Password, and System Log tab pages.

System Settings

Figure 1-37 System Settings

System Settin	gs Restart	Password	System Log	3	
System basic info	ormation settings				
-	192. 168. 1. 1 255. 255. 255. 0	• •	Device MAC: Device name: Device location: Contact person : Contact Info:		
System time					

Configuration description:

System basic information settings: Enter basic information. If incorrect information is entered, an alert is provided behind the input box. The management VLAN is VLAN 1 by default. After a different management VLAN is selected, the management IP address and mask are updated accordingly. Input boxes marked with an asterisk (*) are mandatory. The device name, device location, contact person, and contact information are displayed on the system login page. Enter information in the correct format and click **Save**. A setting success message is displayed, indicating configuration completion. If the management IP address is changed, the system displays a message, asking you whether to modify system settings. After successful modification, the system redirects to the system login page.

System time: The current system time is displayed. You can manually reset the current system time or select **Automatic time server synchronization** to adjust the system time. The server address can be set to a specified NTP server or you can select the default **Automatic synchronization with Internet time server**. Click **Save**. A time configuration success message is displayed, indicating configuration completion.

A The changed management IP address must be reachable so that you can log in to the Web management platform again.

Restart

Figure 1-38 Restart

System Settings	Restart	Password	System Log	
Note: Click the button to rest	tart the switch.The	restart process may t	ake 5 minute. Please wa	ait patiently. The page will be refreshed automatically.
Restart device immediat	ely			

Configuration description: Click **Restart device immediately**. A message is displayed, asking you whether to restart the switch. Click **Yes** to restart the device. The device restart takes several minutes. Please wait patiently. The page is automatically refreshed after the device is restarted.

Password

Figure 1-39 Password

System Settings Restart Pass	word System Log
Modify the super user password	
Note: 1. If you set a new Web login password, then log i characters, question marks and spaces.	n again after setting the new password. 2. Password can not contain Chinese, full-width
Old password:	*
New password:	*
Confirm new password:	*
Save Clear	
Modify telnet login password	
Telnet service: Opened	
New password:	*
Confirm new password:	*
Save Clear	
Modify enable password	
Illustration: The Enable password refers to the password	ord that the user enters the privileged mode Exec configuration layer by means of Cli.
New password:	*
Confirm new password:	*
Save Clear	

Configuration description:

Modify the super user password: To modify a super user password, you are required to enter the old password and enter and confirm the new password. If an incorrect old password is entered, a message is displayed in red font, indicating that the old password incorrect. You are required to enter a correct old password and click **Save** to complete the password change. You can click **Clear** to clear the passwords entered in the input boxes.

Modify telnet login password: To modify a telnet login password, enter and confirm a new password. Other operations are the same as those in the modification of the super user password.

Modify enable password: To modify an enable password, enter and confirm a new password. Other operations are the same as those in the modification of the super user password.

After the super user password is changed, the system redirects to the login page, on which you are required to log in again.

System Log

Figure 1-40 System Log

System Settings Restart Password System Log	
Log configuration	
Illustration: 1. open the log switch, set up the syslog server, the system log will be automatically pushed to the server. 2. the log information that is equal to or below the set value level will be allowed to be displayed when the specinformation level that is allowed to display.	ified device is set to the log
Log switch: Opened Server IP: Send log level: Informational(6) Setting the time of the record: Starting time System time Save	

Configuration description:

Set Server IP and Send log level. After setting, the device sends system logs to the corresponding server.

1.11.2 Upgrade

Choose **System management > Upgrade** to access the **Upgrade** page. The **Upgrade** page contains the **Local upgrade** tab page.

• Local upgrade

Figure 1-41 Local Upgrade

Local upgrade	
the following ways to upgrade	official website of Ruijie Network to download the corresponding type version of the software to the local, and then through e equipment. ne upgraded version is the same as the model of this device.
	pgrading, you may encounter the collation of flash, resulting in a temporary response to the page. At this point, the device estart, until the prompt upgrade is successful.
File name: Brov	N5e No file selected. Upgrade

Configuration description:

Click Browse, select a file stored locally, and then click Upgrade to perform the local upgrade operation.

1.11.3 Configuration

Choose System management > Configuration to access the Configuration page. The Configuration page contains the Current configuration, Configure a backup, and Restore the factory configuration tab pages.

• Current configuration

Figure 1-42 Current Configuration

Current configuration Configur	e a backup Restore the	e factory configuration	
View the current configuration Export Con	nfiguration		
Backup Import configuration Backup Filename:configtext Determine the backup			
Backup file list			
File name	File size	Modification time	
config_111.text	1.39K	1970-01-01 02:09:55	
config_222.text	1.39K	1970-01-01 02:10:00	

Configuration description:

View the current configuration: Click View the current configuration. A page shown in the figure below is displayed.

Figure 1-43 Viewing the Current Configuration

current configuration	×
Building configuration Current configuration : 1402 bytes	•
! version RGOS 10.4(3b16)T29 Release(218423)(Sun Feb 11 12:07:40 CST 2018 -ngcf70) ! !	
redundancy auto-sync time-period 3600 auto-sync standard switchover timeout 4000 ! !	
! webmaster level 0 username admin password 7 06073a0e261b webmaster level 2 username guest password 7 154d1824013f ! !	•
Close	

Figure 1-44 Import Configuration

Current configuration Configure a bac	ckup Restore the factory co	onfiguration		
View the current configuration Export Configuration				
Backup Import configuration				
You cant close or refresh the page during the import, otherwise the import will fail! Note: After importing the new configuration, please reboot the device on this page to enable the configuration. Otherwise the configuration is not effective. Backup Filename: Browse No file selected. Import configuration				
Backup file list				
File name File size Modification time				
config_111.text	1.39K	1970-01-01 02:09:55		
config_222.text 1.39K 1970-01-01 02:10:00				

• Configure a backup

Figure 1-45 Configuration File Backup

Current configuration Configure a backup Restore the factory configuration				
Illustration: Click the file name to view the content of the configuration file, and save up to 5 backup files.				
Name Size Modification time				
Config_111.text	1.39K	1970-01-01 02:09:55		
C config_222.text	1.39K	1970-01-01 02:10:00		
 Restore the backup. Delete backup Save as backup Rename backup 				

Configuration description:

Backup file list: Select a file, click **Restore the backup**, **Delete backup**, **Save as backup**, or **Rename backup** as required, and then click **Determine recovery** to complete the operation on the file.

A The file content is displayed after you click a file name. A maximum of five backup files can be stored.

• Restore the factory configuration

Figure 1-46 Restoring the Factory Configuration

Current configuration	Configure a backup	Restore the factory configuration		
Note: After the device is reset to the factory default settings, all configurations will be removed. Please export current configuration before resetting the device.Export the current configuration				
Export the current configuration	Restore the factory configu	ration		

Configuration description: Click **Export the current configuration**. The **Save As** dialog box is displayed, in which you can select the file storage path, enter the file name, and click **Save** to export the current configuration. Click **Restore the factory configuration**. The message "Do you want to delete all the configurations? This action may cause no access to the web page!" is displayed. The factory configuration is restored only after you confirm the operation.

1.11.4 SNMP

Choose System management > SNMP to access the SNMP page.

Figure	1-47	SNMP
--------	------	------

Snmp
SNMP: Simple network management protocol, which is easy to configure SNMP administrators to monitor and manage nodes on the network.
SNMP service: Opened
The SNMP version: V2 version V3 version
Trap Receiving host: *
SNMP password: *
Device location:
Save Clear

Configuration description:

The SNMP allows SNMP administrators to easily monitor and manage network nodes.

You can enable/disable the SNMP service, set The SNMP version, Device location, Trap Receiving host, and SNMP password.

1.11.5 Permissions

Choose System management > Permissions to access the Permissions page.

Figure 1-48 Permissions

Permissions		
Instruction: This page can be accessed only by the super administrator admin, which is used to add / manage users and visitors. Users can log in to the Web management system for daily maintenance of the device. In addition to the two default outdoors for admin and guest, a maximum of 5 users can be added.		
Username: * Password: * Retype password * Authorization page © Edit empowerment page add users		
User list		
username	operation	
admin	Ø	
guest		
FirstPage	PreviousPage [1] NextPage LastPage / 1Page	

Configuration description:

Adding a user: Enter the username and password, and set **Authorization page** (this parameter is set to all pages by default), and click **add users**. The adding success message is displayed and all users are displayed in the user list.

A There are two default users: super administrator (**admin**) and guest (**guest**). The super administrator can modify the permissions of other administrators and the guest can only access the home page by default. Defaults users cannot be deleted.

1.11.6 WEB Console

Choose System management > WEB console to access the Web console page.

Figure 1-49 WEB Console

WEB console
Illustration: The command initial mode is the exec mode, press Enter in the command input box or click the send button to send CLI command, support Tab key and ? key Automatic number reminders.
CLI output:
Ruijie#
Input command:
Send Clear command
Clear the screen

Configuration description: Enter a CLI command in the command box, press **Ctrl+Enter** or click **Send** to send the CLI command. When entering a command, you can press **Tab** or enter **?** to obtain the command list and command description. Click **Clear command** to clear the content in the command box or click **Clear the screen** to clear the returned CLI results.

1.12 Typical Configuration Examples

Configuration Key Points

The Web service is enabled on switches before delivery. You can access the IP address 192.168.1.1 to log in to the Web management platform to manage the device. The following describes how to enable the Web service on the CLI.

Configuration Steps

To log in to the Web management platform, enable the Web service, configure an IP address, and run the **webmaster** command to configure the account and password. Then, you can access the Web management platform to complete the Web configuration.

The detailed configuration is as follows:

Enter the configuration mode.

Ruijie#configure

Enter configuration commands, one per line. End with CNTL/Z.

Enable the Web service.

Ruijie(config) #enable service web-server

Configure a local username and password. In the command below, level indicates the user priority.

Ruijie(config)# webmaster level 0 username admin password admin

Configure the device management IP address. The management VLAN is VLAN 1 by default. Configure the IP address for VLAN 1 and ensure that you can ping the management IP address successfully.

Ruijie(config)#interface vlan 1

Ruijie(config-if-VLAN 1) #ip address 192.168.1.1 255.255.255.0

A This command configures the username and password for Web login authentication. You can use the **no** form of this command to restore the default configurations or delete the user-defined configurations.

webmaster level privilege-level username name password { password | [0 | 7] encrypted-password }

no webmaster level privilege-level [username name]

Parameter	Description
privilege-level	Indicates the permission level bound to a user. The system creates two accounts
	by default: admin and guest. The default permission level of user guest is 2,
	indicating that only the system home page can be accessed. The default
	permission level of user admin is 0, indicating that the user can use all functions,
	and is allowed to edit other management accounts, and authorize accessible
	pages for the management accounts. The permission level of a newly added
	account is 1.
name	Indicates the username.
password	Indicates the user password.
0 7	Indicates an encryption type of the password. 0 indicates no encryption and 7
	indicates simple encryption.
encrypted-password	Indicates the password text.

Verification

```
Ruijie(config)#show running-config
Building configuration...
Current configuration : 6312 bytes
!
version RGOS 10.4(3b16) Release(82376)(Fri Nov 2 13:55:16 2012 -R03912)
hostname ruijie
!
!
webmaster level 0 username admin password 7 08022b181b29 //Username and password for Web
management authentication. The password is displayed in encrypted manner.
```

```
webmaster level 2 username guest password 7 14155f083206
http update mode auto-detect
!
!
interface VLAN 1
ip address 192.168.1.1 255.255.255.0 //Device management IP address
no shutdown
!
line con 0
line vty 0 4
login
!
!
End
```