

Ruijie Networks – Innovation Beyond Networks



Ruijie Switch PoC Guide (V1.2)

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Preface

This document providing technical guidance to help engineers test Switch products. This document may contain scenario, configuration, command, screenshot image, topology and any related material. This document may not help to solve a similar case due any differences in the real conditions.

Audience

- Network Engineers
- Network Administrator

Obtain Technical Assistance

- Ruijie Networks Websites: <u>http://www.ruijienetworks.com</u>
- Ruijie Service Portal: <u>http://caseportal.ruijienetworks.com</u>

Welcome to report error and give advice in any Ruijie manual to Ruijie Service Portal

Related Documents

• RG-Switch Implementation Cookbook

https://www.ruijienetworks.com/support/documents/slide_75577

• Ruijie RG-S2910XS-E Switch Series datasheet

https://www.ruijienetworks.com/support/documents/slide_40295

RG-S2910XS-E Series Switch Hardware Installation and Reference Guide V1.14

https://www.ruijienetworks.com/support/documents/slide_75302

RG -Switch RGOS Web-Based Configuration Guide

https://www.ruijienetworks.com/support/documents/slide_59640

Revision History

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1. Ruijie Switch Testing List

	Category Test Item		Description	Pass	Fail
		Tolpot	Enable telnet and log into switch		
	Temet	successfully			
		201	Enable SSH and log into switch		
1	Managamont	221	successfully		
1.	Wanagement		Enable WEB and log into switch		
			successfully		
		Syclog	Configure the logging file name and		
		5y310g	buffered		
		POE	Enable POE and power up AP		
		Standard Access Control	Create standard access control list to		
		List	block access.		
		Extended Access Control	Create extended access control list to		
		List	block access.		
		Expert Access Control List	Create expert access control list to block		
			access.		
		Time-Based Access	Create time-based access control list to		
		Control List	block access.		
2.	Basic Feature				
		DHCP server	Enable service DHCP and create IP Pool.		
			lest to obtain IP address on computer.		
			Enable service DHCP and designated		
		DHCP relay	DHCP server IP address.		
		Aggregate Port	Create aggregate port and check the		
			bandwidth of aggregate port.		
			Enable multicast routing and igmp		
		Multicast	snooping.		
			Enable port security bind IP address		
		Port Security	and mac address to test the connection.		
			Enable port protect, then test the		
3.	Security	Port Protect	connection between different ports.		
	Features		Enable IP source guard and change IP		
		IP Source Guard	address for testing		
			Enable DHCP snooping and make the PC		
		DHCP Snooping	obtain the correct IP address		

	NFPP	Enable NFPP and check the threshold	
4. Redundancy	VSU	Enable VSU and check the status of VSU	
	VRRP+MSTP	Enable MSTP and VRRP, check the status of MSTP and VRRP	
	Dot1X authentication	Enable Dot1X authentication and the terminal can pass the authentication to access to Internet.	
5. Authentication	WEB authentication	Enable WEB authentication and the terminal can pass the authentication to access to Internet.	

Note: Before PoC, please check whether the switch has been upgraded to the latest version by execute command *"show version detail"*, the example is shown as below:

execute command "Snow Version detail", the example is snown as below: \$2910-1#show version detail System description : Ruijie 10G Ethernet Switch with PoE (\$2910-24GT4XS-UP-H) By Ruijie Networks System start time : 2019-07-13 11:52:16 System software version : 3.32 System software version : 529_RGOS 11.4(1)B12P11 System software version : S29_RGOS 11.4(1)B12P11 System software version : 1.2.28.0c4albf(170209) System boot version : 1.2.28.0c4albf(170209) System core version : 3.10.18.104134f0b86bd9 Module information: Slot 0 : S2910-24GT4XS-UP-H Hardware version : 1.2.28 Boot version : 1.2.28 Software version : 1.2.28 Software version : 1.2.28 Software number : M17443310122017 Serial number : GIMWB7E001109 System for a size and the size and

2. Testing Lists

2.1 Management

2.1.1 Telnet

Testing project :	Telnet
Testing purpose:	Enable telnet and log into switch successfully
Testing procedure and expected results:	Gi0/1 PC

	1.	assign IP 192.168.0.1/24 to switch
		assign IP 192.168.0.2/24 to PC
	2.	add the following configuration
		Ruijie(config)#interface VLAN 1
		Ruijie(config-if-vlan)#ip address 192.168.0.1 255.255.255.0
		Ruijie(config-if-vlan)#exit
		Ruijie(config)#enable password ruijie
		Ruijie(config)#line vty 0 4
		Ruijie(config-line)#password ruijie
		Ruijie(config-line)#login
		Ruijie(config-line)#end
		Ruijie#wr
	3.	verify telnet access
Measured record:		
Testing conclusion:		

2.1.2 SSH

Testing project :	SSH
Testing purpose :	Enable SSH and log into switch successfully
	Gi0/1 PC
	1. assign IP 192.168.0.1/24 to switch
	assign IP 192.168.0.2/24 to PC
Testing procedure and	third-party client networking software must be used such as
expected results.	2 add the following configuration
	Ruijie(config)#interface VLAN 1
	Ruijie(config-if-vlan)#ip address 192.168.0.1 255.255.255.0
	Ruijie(config-if-vlan)#exit
	Ruijie(config)#enable service ssh-server
	Ruijie(config)#crypto key generate dsa
	Choose the size of the key modulus in the range of 360 to 2048 for
	your Signature Keys. Choosing a key modulus greater than 512 may
	take a few minute

	How many bits in the modulus [512]:	//press enter
	% Generating 512 bit DSA keys[ok]	
	Ruijie(config)#line vty 0 4	
	Ruijie(config-line)#login local	
	Ruijie(config-line)#exit	
	Ruijie(config)#username admin password ruijie	
	Ruijie(config)#enable password ruijie	
	Ruijie(config)#end	
	Ruijie#wr	
	3. verify SSH access using SecureCRT	
Measured record:		
Testing conclusion:		

2.1.3 WEB

Testing project:	WEB
Testing purpose :	Enable WEB and log into switch successfully
Testing procedure and expected results:	 Gi0/1 PC assign IP 192.168.0.1/24 to switch assign IP 192.168.0.2/24 to PC browser must be IE and other major browsers and open compatible mode. add the following configuration Ruijie(config)#enable service web-server Ruijie(config)#interface vlan 1 Ruijie(config)#interface vlan 1 Ruijie(config-if)#ip address 192.168.0.1 255.255.255.0 Ruijie(config)#webmaster level 0 username ruijie password ruijie Ruijie(config)#webmaster level 0 username ruijie password ruijie Ruijie(config)#webmaster level 0 username ruijie password ruijie Ruijie#wr verify Web access
Measured record:	
Testing conclusion:	

2.1.4 Syslog

Testing project :	Syslog
Testing purpose:	Configure the logging file name and buffered
Testing procedure and expected results:	 Gi0/1 Pc Gi0/1 ec Gi0/1 ec ec ec
Measured record:	
Testing conclusion:	

2.2 Basic Feature

2.2.1 POE

Testing Project		poe		
Testing Purpose		Swi	tch can power up AP	
Testing	procedure	and	1. Power on the Switch, the AP connect to the switch interface.	
expected results:				

	POE switch Gi0/1 Gi0/2 Gi0/3 Gi0/3
	 add the following configuration Ruijie(config)#interface gigabitEthernet 0/1 Ruijie(config-if)#poe enable Ruijie(config)#poe mode auto execute "show poe interfaces status" command on switch to check POE power supply status
Measured record:	
Testing conclusion:	

2.2.2 Standard Access Control List

Testing project:	Standard Access Control List		
Testing purpose :	Create standard access control list to block access.		
	Gi0/1 Gi0/2 PCI PC2		
	1. PC1 and PC2 are in the same vlan assign IP 192 168 0 1/24 to PC1		
	assign IP 192.168.0.2/24 to PC2		
Testing procedure and	2. add the following configuration		
expected results.	Ruijie(config)#ip access-list standard 1		
expected results.	Ruijie(config-std-nacl)#10 deny host 192.168.0.1		
	Ruijie(config-std-nacl)#20 permit any		
	Ruijie(config-std-nacl)#exit		
	Ruijie(config)#interface gigabitEthernet 0/1		
	Ruijie(config-if)#ip access-group 1 in		
	Ruijie(config-if)#end		
	Ruijie#wr		
	3. PC1 ping PC2		
	Expected results: ping unsuccessfully		
	4. assign IP 192.168.0.3/24 to PC1		

	5.	PC1 ping PC2
		Expected results: ping successfully
Measured record:		
Testing conclusion:		

2.2.3 Extended Access Control List

Testing project :	Extended Access Control List
Testing purpose:	Create standard extended control list to block access.
Testing procedure and expected results:	GiO/1 GiO/2 GiO/1 GiO/2 GiO/2 GiO/2 GiO/2 GiO/2 GiO/2 GiO/2 GiO/2 GiO/2 GiO/2 GiO/2 GiO/2 GiO/2 GiO/2 GiO/2 GiO/2 GiO/2 GiO/2 GiO/2 FC2 FC2 FC2 FC2 FC2 FC2 FC2 FC
	Expected results: ping successfully
Measured record:	
Testing conclusion:	

2.2.4 Expert Access Control List

Testing purpose : Create expert access control list to block access. Gi0/1 Gi0/2 PC1 PC2 1. PC1 and PC2 are in the same vlan assign IP 192.168.1.1/24 to PC1 assign IP 192.168.1.2/24 to PC2 2. add the following configuration Ruijie(config/exp-nacl)#10 deny tcp host 192.168.1.1 any any any eq www Ruijie(config-exp-nacl)#10 deny tcp host 192.168.1.1 any any any eq pop3 Ruijie(config-exp-nacl)#exit Ruijie(config-if)#expert access-group 2701 in Ruijie(config-if)#expert access to web service and pop3 service Expected results: access to web service and pop3 service Expected results: access to web service and pop3 service Box accessfully	Testing project :	Expert Access Control List
Testing procedure expected results: and expected results: I. PC1 and PC2 are in the same vlan assign IP 192.168.1.1/24 to PC1 assign IP 192.168.1.2/24 to PC2 2. add the following configuration Ruijie(config)#expert access-list extended 2701 Ruijie(config.exp-nacl)#10 deny tcp host 192.168.1.1 any any any eq www Ruijie(config.exp-nacl)#20 permit tcp host 192.168.1.1 any any any eq pop3 Ruijie(config.exp-nacl)#exit Ruijie(config.if)#expert access-group 2701 in Ruijie	Testing purpose:	Create expert access control list to block access.
Measured record:	Testing procedure and expected results:	 Gi0/1 Gi0/2 PC1 PC1 and PC2 are in the same vlan assign IP 192.168.1.1/24 to PC1 assign IP 192.168.1.2/24 to PC2 add the following configuration Ruijie(config)#expert access-list extended 2701 Ruijie(config-exp-nacl)#10 deny tcp host 192.168.1.1 any any any eq www Ruijie(config-exp-nacl)#20 permit tcp host 192.168.1.1 any any any eq pop3 Ruijie(config-exp-nacl)#exit Ruijie(config)#interface gigabitEthernet 0/1 Ruijie(config-if)#expert access-group 2701 in Ruijie(config-if)#end Ruijie(config-if)#end Ruijie#wr Start service of web and pop3 on PC2 Test web service and pop3 service Eventted results: access to web consist and pop2 consist successfully.
	Measured record:	
Testing conclusion:	Testing conclusion:	

2.2.5 Time-Based Access Control List

Testing project :	Time-Based Access Control List
Testing purpose:	Create time-based access control list to block access.

	Gi0/1 Gi0/2 PCI Gi0/2
Testing procedure and expected results:	 PC1 and PC2 are in the same vlan assign IP 192.168.0.1/24 to PC1 assign IP 192.168.0.2/24 to PC2 add the following configuration Ruijie(config)#time-range time1 Ruijie(config-time-range)#periodic daily 8:00 to 18:00 Ruijie(config-time-range)#exit Ruijie(config-time-range)#exit Ruijie(config-std-nacl)#10 permit any time-range time1 Ruijie(config-std-nacl)#10 permit any time-range time1 Ruijie(config-std-nacl)#20 deny any Ruijie(config-std-nacl)#20 deny any Ruijie(config-std-nacl)#exit Ruijie(config-fig-std-nacl)#exit Ruijie(config-if)#ip access-group 2 in Ruijie(config-if)#ip access-group 2 in Ruijie(config-if)#end Ruijie#wr PC1 ping PC2 Expected results: ping unsuccessfully Change the switch clock at 20 PM Ruijie#clock set 20:37:11 3 16 2007 PC1 ping PC2 Expected results: ping successfully
Measured record:	
Testing conclusion:	

2.2.6 DHCP Server

Testing project :	DHCP Server
Testing purpose:	Enable service DHCP and create IP Pool. Test to obtain IP address on computer.
Testing procedure and expected results:	Gi0/1 Gi0/2 PCI PC2

	1.	add the following configuration
		Ruijie(config)#service dhcp
		Ruijie(config)#interface vlan 10
		Ruijie(config-if-VLAN 10)#ip address 192.168.1.254 255.255.255.0
		Ruijie(config-if-VLAN 10)#exit
		Ruijie(config)#ip dhcp pool vlan10
		Ruijie(dhcp-config)#network 192.168.1.0 255.255.255.0
		Ruijie(dhcp-config)#dns-server 218.85.157.99
		Ruijie(dhcp-config)#default-router 192.168.1.254
		Ruijie(dhcp-config)#exit
		Ruijie(config)#int range gigabitEthernet 0/1-2
		Ruijie(config-if-range)#switchport access vlan 10
		Ruijie(config-if)#end
		Ruijie#wr
	2.	PC1 and PC2 can obtain IP address.
Measured record:		
Testing conclusion:		

2.2.7 DHCP Relay

Testing project :	DHCP Relay
Testing purpose:	Enable service DHCP and designated DHCP server IP address.
Testing procedure and expected results:	Core switch G0/24 172.16.1.1/30 G0/24 172.16.1.2/30 DHCP Relay G0/1 G0/2 Distribution switch G0/2 Distribution switch G0/2 CO2 Distribution switch

	1.	add the following configuration
		Core switch:
		Ruijie(config)#interface gigabitEthernet 0/24
		Ruijie(config-if-GigabitEthernet 0/24)#no switchport
		Ruijie(config-if-GigabitEthernet 0/24)#ip address 172.16.1.1
		255.255.255.252
		Ruijie(config-if-GigabitEthernet 0/24)#exit
		Ruijie(config)#ip route 192.168.1.0 255.255.255.0 172.16.1.2
		Ruijie(config)#service dhcp
		Ruijie(config)#ip dhcp pool vlan10
		Ruijie(dhcp-config)#network 192.168.1.0 255.255.255.0
		Ruijie(dhcp-config)#dns-server 218.85.157.99
		Ruijie(dhcp-config)#default-router 192.168.1.254
		Ruijie(dhcp-config)#end
		Ruijie#wr
		Distribution switch:
		Ruijie(config)#interface vlan 10
		Ruijie(config-if-VLAN 10)#ip address 192.168.1.254 255.255.255.0
		Ruijie(config-if-VLAN 10)#exit
		Ruijie(config)#interface gigabitEthernet 0/24
		Ruijie(config-if-GigabitEthernet 0/24)#no switchport
		Ruijie(config-if-GigabitEthernet 0/24)#ip address 172.16.1.2
		255.255.255.252
		Ruijie(config-if-GigabitEthernet 0/24)#exit
		Ruijie(config)#ip route 0.0.0.0 0.0.0.0 172.16.1.1
		Ruijie(config)#service dhcp
		Ruijie(config)#ip helper-address 172.16.1.1
		Ruijie(config)#end
		Ruijie#wr
	2.	PC1 and PC2 can obtain IP address.
Measured record:		
Testing conclusion:		

2.2.8 Aggregate Port

Testing project:	Aggregate Port
Testing purpose:	Create aggregate port and check the bandwidth of aggregate port.

	GO/1 AP1 GO/1 GO/2 GO/2 SW2 SW1 Configuration SW1>enable SW1#configure terminal SW1(config)#interface range gigabitEthernet 0/1-2 SW1(config-if-range)#port-group 1 SW1(config-if-range)#exit
	SW1(config)#interface aggregateport 1 SW1(config-if-AggregatePort 1)#switchport mode trunk
	SW1(config-if-AggregatePort 1)#exit
Testing procedure and	SW1(config)#aggregateport load-balance src-mac
expected results:	SW1(config)#exit
	SW1#wr
	 SW2>enable SW2#configure terminal SW2(config)#interface range gigabitEthernet 0/1-2 SW2(config-if-range)#port-group 1 SW2(config-if-range)#exit SW2(config)#interface aggregateport 1 SW2(config-if-AggregatePort 1)#switchport mode trunk SW2(config-if-AggregatePort 1)#exit SW2(config)#aggregateport load-balance src-mac SW2(config)#exit SW2(config)#exit SW2(config)#exit SW2(config)#exit SW2(config)#aggregateport load-balance src-mac SW2(config)#exit SW2#wr Execute command 'show int agg 1' to check the bandwidth of the Aggregate port 1.
Measured record:	
Testing conclusion:	

2.2.9 Multicast

Testing project:	Multicast
Testing purpose:	Enable multicast routing and igmp snooping.

	Multicast group:225.1.1.1-10
	Core switch
	G0/1 Vlan100 GW: 192.168.100.254
	G0/2 Multicast Server trunk
	60/25
	PC2 CiO/2 CiO/1
	IP: 192.168.1.2/24 GW: 192.168.1.2/24
	IP: 192.168.1.1/24 GW: 192.168.1.254
	PC1
	1. add the following configuration
	core switch:
	Ruijie#configure terminal
	Ruijie(config)#vlan 10
	Ruijie(config-vlan)#vlan 100
	Ruijie(config-vlan)#exit
	Ruijie(config)#ip multicast-routing
	Ruijie(config)#interface gigabitEthernet 0/1
Testing procedure and	Ruijie(config-if-GigabitEthernet 0/1)#switchport access vlan 100
expected results:	Ruijie(config-if-GigabitEthernet 0/1)#exit
	Ruijie(config)#interface vlan 100
	Ruijie(contig-it-vLAN 100)#ip address 192.168.100.254
	Ruijie(config-if-VLAN 100)#in nim dense-mode
	Ruijie(config)#interface vlan 10
	Ruijie(config-if-VLAN 10)#ip address 192.168.10.254 255.255.255.0
	Ruijie(config-if-VLAN 10)#ip pim dense-mode
	Ruijie(config-if-VLAN 10)#exit
	Ruijie(config)#interface gigabitEthernet 0/2
	Ruijie(config-if-GigabitEthernet 0/2)#switchport mode trunk
	Ruijie(config-if-GigabitEthernet 0/2)#exit
	Ruijie(config)#end
	Ruijie#wr
	Access switch:
	Ruijie(config)#vlan 10
	Ruijie(config-vlan)#exit
	Ruijie(config)#interface gigabitEthernet 0/25
	Ruijie(config-if-GigabitEthernet 0/25)#switchport mode trunk
	Ruijie(config-if-GigabitEthernet 0/25)#exit

	Ruijie(config)#interface range gigabitEthernet 0/1-2
	Ruijie(config-if-range)#switchport access vlan 10
	Ruijie(config-if-range)#exit
	Ruijie(config)#ip igmp snooping ivgl
	Ruijie(config)#ip igmp snooping vlan 10 mrouter interface g0/25
	Ruijie(config)#end
	Ruijie(config)#ip igmp profile 1
	Ruijie <config-profile>#permit</config-profile>
	Ruijie <config-profile>#range 225.1.1.1 225.1.1.10</config-profile>
	Ruijie <config-profile>#exit</config-profile>
	Ruijie(config)#interface range gigabitEthernet 0/1-2
	Ruijie(config-if-range)#ip igmp snooping filter 1
	Ruijie(config-if-range)#exit
	Ruijie(config)#ip igmp snooping fast-leave enable
	Ruijie(config)#ip igmp snooping suppression enable
	Ruijie(config)#end
	Ruijie#wr
	2. Execute command 'show ip igmp snooping gda-table' to display IGMP
	Snooping table on access switch
	3. Execute command 'show ip igmp snooping statistics ' to display IGMP
	Snooping statistics
Measured record:	
Testing conclusion:	

2.3 Security Features

2.3.1 Port Security

Testing project:	Port Security
Testing purpose:	Enable port security, bind IP address and mac address to test the connection
Testing procedure and expected results:	Gi0/1 Gi0/2 PC1 Gi0/2 PC2
	1. assign IP 192.168.0.1/24 to PC1
	assign IP 192.168.0.2/24 to PC2

		The MAC address of PC1 is "00:f0:4c:87:19:1e"
		Both PC1 and PC2 are in vlan 1
	2.	add the following configuration
		Ruijie(config)#interface gigabitEthernet 0/1
		Ruijie(config-if)#switchport port-security binding 00f0.4c87.191e vlan 1
		192.168.0.1
		Ruijie(config-if)#switchport port-security
		Ruijie(config-if)#end
		Ruijie#wr
	3.	PC1 ping PC2
		Expected results: ping successfully
	4.	Change the ip address or mac-address of PC1
		Expected results: ping unsuccessfully
Measured record:		
Testing conclusion:		

2.3.2 Port Protect

Testing project :	Port Protect
Testing purpose :	Enable port protect, then test the connection between different ports
Testing procedure and expected results:	 assign IP 192.168.0.1/24 to PC1 assign IP 192.168.0.1/24 to PC1 assign IP 192.168.0.2/24 to PC2 assign IP 192.168.0.3/24 to PC3 add the following configuration Ruijie(config)#interface gigabitEthernet 0/1 Ruijie(config)#interface gigabitEthernet 0/2 Ruijie(config)#interface gigabitEthernet 0/2 Ruijie(config-if)#switchport protected PC1 ping PC2

	4. 5.	Expected results: ping unsuccessfully PC1 ping PC3 Expected results: ping successfully PC2 ping PC3 Expected results: ping successfully
Measured record:		
Testing conclusion:		

2.3.3 IP Source Guard

Testing project :	IP Source Guard
Testing purpose :	Enable IP source guard and change IP address for testing
Testing procedure and expected results: Measured record:	 Gi0/1 Gi0/2 DHCP Server PC MAC : 0000:0100:0001 The MAC address of PC1 is "0000-0100-0001" DHCP Pool : 10.1.1.100-200/24 add the following configuration Ruijie(config)#ip dhcp snooping Ruijie(config)#ip source binding 0000.0100.0001 vlan 1 10.1.1.10 interface gigabitEthernet 0/1 Ruijie(config)#interface gigabitEthernet 0/1 Ruijie(config-if)# ip verify source port-security Ruijie(config-if)# ip dhcp snooping trust Ruijie(config-if)# ip dhcp snooping trust Ruijie(config-if)# ip dhcp snooping trust Ruijie#wr PC ping DHCP Server after obtaining IP address Expected results: ping successfully PC ping DHCP Server after changing the address as 10.1.1.10 Expected results: ping successfully PC ping DHCP Server after changing the address Expected results: ping successfully PC ping DHCP Server after changing the address Expected results: ping successfully
Testing conclusion:	

2.3.4 DHCP Snooping

Testing project :	DHCP Snooping
Testing purpose :	Enable DHCP snooping and make the PC obtain the correct IP address
	Gi0/1 Gi0/2 PC DHCP Server
	1. assign IP 192.168.0.2/24 to PC2(DHCP Server)
	2. Enable DHCP Snooping
Testing procedure and	3. DHCP client PC1 are obtaining IP address (ipconfig/renew)
expected results:	Expected results: PC1 obtains IP unsuccessfully
	4. Configure the port connected to DHCP server as DHCP Snooping trusted
	port.
	Ruijie(config)#int Gi0/2
	Ruijie(config-if)#ip dhcp snooping trust
	5. DHCP client PC1 are obtaining IP address (ipconfig/renew)
	Expected results: PCI obtains IP successfully, login switch,
Measured record:	
Testing conclusion:	
resulting conclusion.	

2.3.5 NFPP

Testing project :	NFPP
Testing purpose:	Enable NFPP and check the threshold
Testing procedure and expected results:	Gi0/1 Gi0/2 PCI PC2 1. add the following configuration

	Ruijie(config)#nfpp
	Ruijie(config-nfpp)#arp-guard rate-limit per-port 256
	Ruijie(config-nfpp)# arp-guard rate-limit per-src-mac 30
	Ruijie(config-nfpp)# arp-guard rate-limit per-src-ip 30
	Ruijie(config-nfpp)#end
	Ruijie#wr
	2. Check the threshold of NFPP
	Ruijie#show nfpp arp-guard summary
	Ruijie#show nfpp arp-quard summary
	(Format of column Rate-limit and Attack-threshold is per-src-ip/per-src-mac/per-port.)
	Global Enable 0 30/30/256 200/200/400 100
	Maximum count of monitored hosts: 20000 Monitor period: 600s
	Ruijie#
Measured record:	
Testing conclusion:	

2.4 Redundancy

2.4.1 VSU

Testing project :	VSU
Testing purpose:	Enable VSU and check the status of VSU
Testing procedure and expected results:	 VSU Main VSL Slave Slave Slave

	Switch1(config)# switch virtual do	main 1	
	Switch1(config-vs-domain)# switc	h 1	
	Switch1(config-vs-domain)# switc	h 1 priority 200	>Priority
	is 100 by	default , switch with the	higher priority becomes the	ne active
	chassis			
	Switch1(config-vs-domain)# exit		
	Switch1(config)#vsl-port	>VSL is the hearth	eat and
	traffic ch	annel between 2 VSU me	mbers. You must configure	e at least
	2 pair of	VSL		
	Switch1(config-vsl-port)#port-me	mber interface TenGigabit	Ethernet
	0/25			
	Switch1(config-vsl-port)#port-me	mber interface TenGigabit	Ethernet
	0/26			
	Switch1(config-vsl-port)#exit		
	Slave swi	tch		
	Switch2(config)# switch virtual do	main 1>domain ID	must be
	the same	to that of active chassis		
	Switch2(config-vs-domain)# switc	h 2>switch ID	must be
	different	from that of active chass	is	
	Switch2(config-vs-domain)# switc	h 2 priority 150	
	Switch2(config-vs-domain)# exit		
	Switch2(config)#vsl-port	>VSL is the hearth	eat and
	traffic ch	annel between 2 VSU me	mbers. You must configure	e at least
	2 pair of	VSL		
	Switch2(config-vsl-port)#port-me	mber interface TenGigabit	Ethernet
	0/25			
	Switch2(config-vsl-port)#port-me	mber interface TenGigabit	Ethernet
	0/26			
3	. Connect	VSL cable and confirm th	at links come up	
4	. Save con	figuration and convert b	oth VSU members to virtu	al mode
	at the sa	me time		
5	. Add the f	ollowing configuration		
	Main swi	tch		
	Switch1#	wr		
	Switch1#	switch convert mode	virtual	>convert
	switch w	orking mode from standa	lone mode to virtual mod	е
	Are you s	ure to convert switch to	virtuai mode[yes/no]:ye	5
	Do	you	want	to

		recovery"config.tex	t"from"virtual_switch	.text"[yes/no]:no	
		Slave switch			
		Switch2#wr			
		Switch2# switch co	nvert mode virtual		
		Are you sure to con	overt switch to virtual	mode[yes/no]:yes	
		Do	you	want	to
		recovery"config.tex	t"from"virtual_switch	.text"[yes/no] : no	
	6.	Both VSU members	s reloads automatically	/	
	7.	Execute command	" show switch virtual"	to display status of VSU	
	8.	Execute command	" show switch virtual li	nk" to display status of	VSL.
	9.	Execute command	" show switch virtual r	ole" to display roles of V	/SU.
	10.	Execute command	d " show switch v	rirtual config" to dis	olay
		configurations of V	50.		
Measured record:					
Testing conclusion:					

2.4.2 VRRP+MSTP

Testing project :	VRRP+MSTP
Testing purpose:	Enable MSTP and VRRP, check the status of MSTP and VRRP
Testing procedure and expected results:	 SW1 is the master VRRP gateway for users on all vlans, and SW2 is the backup VRRP gateway for users on all vlans. Connect SW1 and SW2 through an Aggregate port to ensure reliability and configure this AP as Trunk port.

2.	The IP address of SW1 on VLANs from 10 to 80 are 192.168.10.1 to
	192.168.80.1, and IP address of SW2 on VLANs from 10 to 80 are
	192.168.10.2 to 192.168.80.2 , and VRRP IP address are
	192.168.10.254 to 192.168.80.254.
3.	Add the following configuration
-	
	Configuring SW1
	Duille Hoovefing to an
	Ruijie#coning terminal
	resisting (The lower the number the more likely the quiteb will be
	phonty=0(The lower the number, the more likely the switch will be
	chosen as the root bridge) by default , all vians are mapped to
	instance 0.
	Ruijie(config)#spanning-tree>enable STP feature and the
	default STP mode is MSTP
	Ruijie(config)#interface aggregateport 1
	Ruijie(config-if-AggregatePort 1)#switchport mode trunk
	Ruijie(config-if-AggregatePort 1)#exit
	Ruijie(config)#interface tengigabitEthernet 3/1
	Ruijie(config-if-TenGigabitEthernet 3/1)#port-group 1
	Ruijie(config-if-TenGigabitEthernet 3/1)#exit
	Ruijie(config)#interface tengigabitEthernet 3/2
	Ruijie(config-if-TenGigabitEthernet 3/2)#port-group 1
	Ruijie(config-if-TenGigabitEthernet 3/2)#exit
	Ruijie(config)#interface range gigabitEthernet 1/1-5
	Ruijie(config-if-range)#switchport mode trunk>don't
	forget to prune trunk port
	Ruijie(config-if-range)#exit
	Ruijie(config)#vlan 10
	Ruijie(config)#inter vlan 10
	Ruijie(config-if-VLAN 10)#ip address 192.168.10.1 255.255.255.0
	Ruijie(config-if-VLAN 10)#vrrp 10 jp 192.168.10.254
	Ruijie(config-if-VLAN 10)#vrrp 10 priority 120>
	vrrp group id=10, priority value=120 (the bigger the number, the
	more likely the switch will be chosen as the master and default
	value is 100)
	Ruijie(config-if-VLAN 10)#exit
	Ruiiie(config)#vlan 20
	Ruijie(config)#inter vlan 20
	Ruiiie/config-if-VI AN 20)#in address 192 168 20 1 255 255 255 0
	Ruijie(config_if_VLAN 20)#///rrn 20 in 102 168 20 254
	Ruijie(config if VI AN 20) # (rp 20 priority 120)
	Kuijie(coniig-it-vlan 20)#exit

configuration of VLAN 30 ~ VLAN 70 are omitted
Ruijie(config)#vlan 80
Ruijie(config)#inter vlan 80
Ruijie(config-if-VLAN 80)#ip address 192.168.80.1 255.255.255.0
Ruijie(config-if-VLAN 80)#vrrp 80 ip 192.168.80.254
Ruijie(config-if-VLAN 80)#vrrp 80 priority 120
Ruijie(config-if-VLAN 80)#end
Ruiie#wr
Configuring SW2
Ruijie#config terminal
Ruijie(config)#spanning-tree mst 0 priority 4096>instance
id=0 , priority=4096(The lower the number, the more likely the switch
will be chosen as the root bridge) by default , all vlans are mapped to
instance 0
Ruijie(config)#spanning-tree>enable STP feature and default
mode is MSTP
Ruijie(config)#interface aggregateport 1
Ruijie(config-if-AggregatePort 1)#switchport mode trunk
Ruijie(config-if-AggregatePort 1)#exit
Ruijie(config)#interface tengigabitEthernet 3/1
Ruijie(config-if-TenGigabitEthernet 3/1)#port-group 1
Ruijie(config-if-TenGigabitEthernet 3/1)#exit
Ruijie(config)#interface tengigabitEthernet 3/2
Ruijie(config-if-TenGigabitEthernet 3/2)#port-group 1
Ruijie(config-if-TenGigabitEthernet 3/2)#exit
Ruijie(config)#interface range gigabitEthernet 1/1-5
Ruijie(config-if-range)#switchport mode trunk>don't forget to
prune trunk port
Ruijie(config)#vlan 10
Ruijie(config)#inter vlan 10
Ruijie(config-if-VLAN 10)#ip address 192.168.10.2 255.255.255.0
Ruijie(config-if-VLAN 10)#vrrp 10 ip 192.168.10.254
->vrrp group id=10 , priority value remains default setting(the bigger
the number , the more likely the switch will be chosen as the
master ,and default value is 100)
Ruijie(config-if-VLAN 10)#exit
Ruijie(config)#vlan 20
Ruijie(config)#inter vlan 20
Ruijie(config-if-VLAN 20)#ip address 192.168.20.2 255.255.255.0
Ruijie(config-if-VLAN 20)#vrrp 20 ip 192.168.20.254

	Ruiiie(config-if-VLAN 20)#exit
	configuration of VLAN 30 ~ VLAN 70 are omitted Ruijie(config)#vlan 80 Ruijie(config)#inter vlan 80 Ruijie(config-if-VLAN 80)#ip address 192.168.80.2 255.255.255.0 Ruijie(config-if-VLAN 80)#vrrp 80 ip 192.168.80.254 Ruijie(config-if-VLAN 80)#end
	Ruijie#wr
	Configuring SW11 , SW12 , S13 , S14 , S15 , S16
	Ruijie#config terminal
	Ruijie(config)#interface range gigabitEthernet 0/25-26
	Ruijie(config-if-range)#switchport mode trunk
	Ruijie(config-if-range)#exit
	Ruijie(config)#spanning-tree>enable STP feature and default mode is MSTP Ruijie(config)#exit
	Ruiie#wr
	 Execute command " show spanning-tree" to display status of MSTP.
	5. Execute command " show vrrp brief" to display status of VRRP.
	6. Execute command "show spanning-tree summary " to display
	summary information of MSTP.
Measured record:	
Testing conclusion:	

2.5 Authentication

2.5.1 Dot1X authentication

Testing project:	Dot1X authentication
Tacting nurness :	Enable Dot1X authentication and the terminal can pass the authentication to
lesting purpose.	access to Internet.



Ruijie(config-if-Gi	gabitEthernet 1/2)#end		
Ruijie#write	> save configuration		
Enable the secure	e channel function		
Ruijie(config)#exp	pert access-list extended ruijie		
Ruijie(config-exp-	nacl)#permit arp any any any	any any>make t	he ip
and arp packets f	ree authentication	, ,	
Ruiiie(config-exp-	nacl)#permit in any any host 10	92 168 33 61 anv	-> To
allow access to th	home have of the site before	authentication	- 10
Buijio/config ovn	nacl)#normit in any any host 10	12 169 22 62 any	> To
Ruijie(comig-exp-	hacij#perinit ip any any nost is	outhention	-> 10
	no nome page of the site before		
Kuljie(config-exp-	macij#permit ip any any	1105L 192.108.33.244	any
> Io allow ac	cess to the home page of the s	ite before authenticatio	n
Ruijie(config-exp-	nacl)#permit host 192.168.33.	163 host 001a.a9c4.062	t any
any>	This host implements authenti	cation free	
Ruijie(config-exp-	nacl)#exit		
Ruijie(config)#sec	curity global access-group ruijie	2	
Edit SMP device t NAS Configuration	template first , go to Authentic on Templates , modify Ruiji	ation & Authority > Dev e Wired Device , set	ice > the
Edit SMP device t NAS Configuration parameters as be	template first , go to Authentic on Templates , modify Ruiji low ,	ation & Authority > Dev e Wired Device , set	ice > the
Edit SMP device t NAS Configuration parameters as be	template first , go to Authentic on Templates , modify Ruiji low , <u>Template Name</u> ~ <u>VPN Device</u>	ation & Authority > Dev e Wired Device , set SNMP v2c community public	ice > the
Edit SMP device t NAS Configuration parameters as be	template first , go to Authentic on Templates , modify Ruiji low , <u>Template Name ~</u> VPN Device Standard Radius Device	ation & Authority > Dev e Wired Device , set SNMP v2c community public public	ice > the
Edit SMP device t NAS Configuration parameters as be	template first , go to Authentic on Templates , modify Ruiji low , <u>Template Name ~</u> VPN Device Standard Radius Device Ruijie Wireless Device	ation & Authority > Dev e Wired Device , set SNMP v2c community public public ruijie	ice > the
Edit SMP device t NAS Configuration parameters as be	template first , go to Authentico on Templates , modify Ruijie low , <u>Template Name ></u> VPN Device Standard Radius Device Ruijie Wired Device Ruijie Wired Device	ation & Authority > Dev e Wired Device , set SNMP v2c community public public public public	ice > the
Edit SMP device t NAS Configuration parameters as be	template first , go to Authentic on Templates , modify Ruiji low , <u>Template Name ></u> VPN Device Standard Radius Device Ruijie Wireless Device Ruijie Wired Device RG-EG Device RG-ACE Device	ation & Authority > Dev e Wired Device , set SNMP v2c community public public ruijie public public public public	ice > the
Edit SMP device t NAS Configuration parameters as be	template first , go to Authentic on Templates , modify Ruijie low , <u>Template Name ~</u> VPN Device Standard Radius Device Ruijie Wireless Device Ruijie Wirel Device RG-EG Device RG-ACE Device Non-Ruijie Wired Device	ation & Authority > Dev e Wired Device , set SNMP v2c community public public ruijie public public public public public	ice > the
Edit SMP device t NAS Configuration parameters as be	template first , go to Authentico on Templates , modify Ruijie low , <u>Template Name</u> VPN Device Standard Radius Device Ruijie Wireless Device Ruijie Wirel Device RG-ACE Device RG-ACE Device Non-Ruijie Wired Device	ation & Authority > Dev e Wired Device , set SNMP v2c community public public public public public public gublic	ice > the
Edit SMP device t NAS Configuration parameters as be All None	template first , go to Authentic on Templates , modify Ruijie low , <u>Template Name</u> VPN Device Standard Radius Device Ruijie Wireless Device Ruijie Wirel Device RG-EG Device RG-ACE Device Non-Ruijie Wired Device	ation & Authority > Dev e Wired Device , set SNMP v2c community public public ruijie public public public public go	ice > the
Edit SMP device t NAS Configuration parameters as be All None	template first , go to Authentic on Templates , modify Ruijie low , <u>Template Name</u> VPN Device Standard Radius Device Ruijie Wirel Device Ruijie Wired Device RG-ACE Device RG-ACE Device Non-Ruijie Wired Device ge 20 Records Page 1 / totally 1 Pages Cation Key is used for Radius Se	ation & Authority > Dev e Wired Device , set SNMP v2c community public public ruijie public public public go	ice > the
Edit SMP device t NAS Configuration parameters as be All None	template first , go to Authentic on Templates , modify Ruijie low , <u>Template Name</u> VPN Device Standard Radius Device Ruijie Wired Device RUijie Wired Device RG-EG Device RG-ACE Device Non-Ruijie Wired Device ge 20 Records Page 1 / totally 1 Pages cation Key is used for Radius Sec	ation & Authority > Dev e Wired Device , set SNMP v2c community public public public public public public go	ice > the
Edit SMP device to NAS Configuration parameters as be All None	template first , go to Authentic on Templates , modify Ruijie low , <u>Template Name</u> VPN Device Standard Radius Device Ruijie Wireless Device Ruijie Wirel Device RG-EG Device RG-ACE Device Non-Ruijie Wired Device pe 20 Records Page 1 / totally 1 Pages cation Key is used for Radius Sec Configuration	ation & Authority > Dev e Wired Device , set SNMP v2c community public public ruijie public public public public go	ice > the
Edit SMP device t NAS Configuration parameters as be All None	template first , go to Authentic on Templates , modify Ruijie low , <u>Template Name</u> VPN Device Standard Radius Device Ruijie Wireless Device Ruijie Wired Device RG-EG Device RG-ACE Device Non-Ruijie Wired Device ge 20 Records Page 1 / totally 1 Pages cation Key is used for Radius Sec Configuration y: ruijie vices perform user authentication via the Radius Proof of the devices.	ation & Authority > Dev e Wired Device , set SNMP v2c community public public public public public public public public public public public	ice > the
Edit SMP device t NAS Configuration parameters as be All None	template first , go to Authentic on Templates , modify Ruijie low , <u>Template Name</u> VPN Device Standard Radius Device Ruijie Wired Device RG-EG Device RG-ACE Device Non-Ruijie Wired Device ge 20 Records Page 1 / totally 1 Pages cation Key is used for Radius Sec Configuration y: ruijie wices perform user authentication via the Radius Proof the devices.	ation & Authority > Dev e Wired Device , set SNMP v2c community public public public public public public public public public public	ice > the
Edit SMP device to NAS Configuration parameters as be All None	template first , go to Authentic on Templates , modify Ruijie low , <u>Template Name</u> VPN Device Standard Radius Device Ruijie Wireless Device Ruijie Wired Device RG-EG Device RG-ACE Device Non-Ruijie Wired Device ge 20 Records Page 1 / totally 1 Pages cation Key is used for Radius Sec Configuration y: ruijie vices perform user authentication via the Radius Proof the devices.	ation & Authority > Dev e Wired Device , set SNMP v2c community public public public public public go erver.	ice > the
Edit SMP device to NAS Configuration parameters as be All None	template first , go to Authentic on Templates , modify Ruijie low , <u>Template Name</u> VPN Device Standard Radius Device Ruijie Wireless Device RUijie Wirel Device RG-EG Device RG-ACE Device Non-Ruijie Wired Device pe 20 Records Page 1 / totally 1 Pages cation Key is used for Radius Sec Configuration y: ruijie vices perform user authentication via the Radius Pro of the devices. y is used for SNMP management	ation & Authority > Dev e Wired Device , set SNMP v2c community public public ruijie public public public public public public for erver.	ice > the
Edit SMP device t NAS Configuration parameters as be All None	template first , go to Authentic on Templates , modify Ruijie low , <u>Template Name</u> VPN Device Standard Radius Device Ruijie Wireless Device Ruijie Wirel Device RG-EG Device RG-ACE Device Non-Ruijie Wired Device pe 20 Records Page 1 / totally 1 Pages cation Key is used for Radius Sec Configuration y: ruijie vices perform user authentication via the Radius Pro- of the devices. y is used for SNIMP management	ation & Authority > Dev e Wired Device , set SNMP v2c community public public public public public public public public public public public	ice > the
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Edit SMP device t NAS Configuration parameters as be All None	template first , go to Authentic on Templates , modify Ruiji low , Template Name VPN Device Standard Radius Device Ruijie Wired Device RG-EG Device RG-ACE Device Non-Ruijie Wired Device 20 Records Page 1 / totally 1 Pages cation Key is used for Radius Sec Configuration y: ruijie vices perform user authentication via the Radius Pro of the devices. y is used for SNIMP management ruijie ation should be the same as that on the devices. Of n complete setting .	ation & Authority > Dev e Wired Device , set SNMP v2c community public public public public public public public for erver.	ice > the
Edit SMP device t NAS Configuratio parameters as be All None	template first , go to Authentic on Templates , modify Ruijie low , <u>Template Name</u> × VPN Device Standard Radius Device Ruijie Wireless Device Ruijie Wirel Device RG-ACE Device RG-ACE Device Non-Ruijie Wired Device 20 Records Page 1 / totally 1 Pages cation Key is used for Radius Sec Configuration y: ruijie wices perform user authentication via the Radius Pro- of the devices. y is used for SNIMP management ruijie ation should be the same as that on the devices. Office n complete setting . ation & Authority > Device > A	ation & Authority > Dev e Wired Device , set SNMP v2c community public public public public public public public public public server.	ice > the
Edit SMP device to NAS Configuration parameters as be All None	template first , go to Authentic on Templates , modify Ruijie low , <u>Template Name</u> × VPN Device Standard Radius Device Ruijie Wireless Device Ruijie Wired Device RG-ACE Device Non-Ruijie Wired Device Pe 20 Records Page 1 / totally 1 Pages cation Key is used for Radius Sec Configuration y: ruijie vices perform user authentication via the Radius Pro of the devices. y is used for SNMP management ruijie ruijie authentication via the Radius Pro of the devices. y is used for SNMP management ruijie ruijie authentication via the Radius Pro of the devices. y is used for SNMP management ruijie ruijie authentication via the Radius Pro of the devices. y is used for SNMP management ruijie ruijie authentication via the devices. Other n complete setting . ation & Authority > Device > A mplate . System will get rele	ation & Authority > Dev e Wired Device , set SNMP v2c community public public public public public go erver.	ice > the
Edit SMP device to NAS Configuration parameters as be All None	template first , go to Authentic on Templates , modify Ruiji low , Template Name VPN Device Standard Radius Device Ruijie Wireless Device Ruijie Wirel Device RG-EG Device RG-ACE Device Non-Ruijie Wired Device ge 20 Records Page 1 / totally 1 Pages cation Key is used for Radius Sec Configuration y: ruijie vices perform user authentication via the Radius Pro of the devices. y is used for SNMP management ruijie ation should be the same as that on the devices. Of n complete setting . ation & Authority > Device > A mplate , System will get rele ck Add to finish	ation & Authority > Dev e Wired Device , set SNMP v2c community public public public public public public public public public for erver.	ice > the

		* NAS IP:		192.168.33.164	Format: 192.	168.20.1)	
		* NAS Configuration	Templates:	Ruijie Wired Device	Obtain Device	Information View Terr	plate Add Template
		NAS MAC:			(Format: 00D0	F8000001)	
		NAS Name:		AccessSwitch]		
		NAS Location:]		
		NAS Information:		Ruijie Full Gigabit Security Intelligence Access Switch	& (S2928G-E)		
		Tips: You can set a templ	late for the	devices sharing the same S	NMP version, au	thentication and Telnet	parameters.
						Add	Reset
		Go to Auther we create a u	nticatio Iser na	on & Authority med "Henry" a	> User > nd put it	Add , fill in i into Default l	required fields , here Jser Group. Common
		Basic Information	.5 10 15 0		i uccouri	ι.	
		* User Type:	 Common 	n User OGuest User OThirdparty I	Jser	* User Status:	Normal Suspended
		* User Name:	Henry			* Full Name:	Henry Chan
		Nick Name: * Password:				* Confirm Password	
		 Type of Account Validity 	Never E	nire ODelete Account when Expire		Committe accurate.	
				apire O belete / levelant when Expire	O Susperio Account		
		Period: * User Group:	when Expire Default Use	r Group			
	3.	Verify dot1x a	Default Use	r Group Quelect User Gro			
	3. 4.	 ^{Penod:} * User Group: verify dot1x a Execute com 	auther mand	Group Queer Gro nticate. "show dot1x si	ummary	" to display s	ummary information
	3. 4.	Verify dot1x a Execute com of dot1x auth	when Expire Default Use auther mand nentica	r ^{Group} Q <u>Select User Gro</u> hticate. "show dot1x si ation.	ummary	" to display s	ummary information
Measured record:	3. 4.	 User Group: verify dot1x a Execute com of dot1x auth 	auther mand nentica	Group SelectUser Gro nticate. "show dot1x si ation.	ummary	" to display s	ummary information

2.5.2 WEB authentication

Testing project:	WEB authentication
Tecting nurness :	Enable WEB authentication and the terminal can pass the authentication to
lesting purpose.	access to Internet.



All Nation Longitable Mannes SNAMP /2c community Image: Very Device Public Public Public Image: New Device Public Public New Device Image: New Device Image: New Device Public New Device Image: New Device New Device New Device New Device N	All Note Very Device public Image: Standard Radius Device public public Image: Register Radius Device public public Ruije Wriels Device public public Rot CE Device public public Image: Rot CE Device State Rot			
Image: Standard Radus Device public Image: Ruije Wired Device public Image: Ruije Wired Device public Image: Role SD Device Role SD Device Image: Role SD Device Add Image: Role SD Device Add Image: Role SD Device Role SD Device Add Image: Role SD Role SD Device Add Image: Role SD Role	Image: Standard Ralus Device public Rule Wreitess Device public Role Operice public Proceedinguration support Protocol Identity authentication Key is used for SNMP management. SMMP Configuration Role Operice Robuild op the same as that of the devices.		I emplate Name ▼	SNMP V2c community
Standard Radua Device public Rulpe Wrieless Device rulpie Rulpe Wrieless Device public RG-EG Device public RG-ACE Device public RG-ACE Device public RG-ACE Device public Non-Rulpe Wried Device public Otalty 7 Records Each Page 20 Records Page 1 / totalty 1 Pages] G Identity Authentication Configuration Identity Authentication Configuration Identity Authentication Key: Implie O Tips: The system and devices perform user authentication via the Radius Protocol. Identity authentication key is used for Web Portal. Web Authentication Configuration Web Authentication Configuration Web authentication Key: Implie O Tips: After the Web authentication key is specified, the system will support Web authentication. SNMP Configuration SMP v2c Community: Implie O Tips: The SNMP configuration should be the same as that on the devices. Otherwise the system cannot manage the de Click Modify when complete setting . Go to Authentication & Authority > Device > Add , input NAS IP addree select Device Template , System will get relevant information via SN automatically. Click Add to finish. NAS Information: Implie Fuil Gigabl Security & Device Informating IV	Image: Standard Radius Device public Rulie Wirels Device public Rulie Wirels Device public RG-ACE Device <t< td=""><td></td><td>VPN Device</td><td>public</td></t<>		VPN Device	public
Ruje Wreids Device public Ruje Wreid Device public RG-EG Device public RG-ACE Device public Provide State Page 20 Records Page 1 / totally 1 Pages 60 Identity Authentication Configuration Identity Authentication Configuration * Identity Authentication Configuration Web Authentication Key: Web Authentication Key: rujie © Tps: The system and devices perform user authentication via the Radius Protocol. Identity authentication key is used for Web Portal. Web Authentication Key: rujie © Tps: The System and other devices. Web Authentication Key: rujie © Tps: Type: Web Authentication key is used for SNMP management. SNMP Configuration SNMP v2c Community: rujie © Tps: The SNMP configuration should be the same as that on the devices. Otherwise the system cannot manage the de Click Modify when complete setting . Go to Authentication & Authority > Device > Add , i	Ruje Wrielse Device rujie Ruje Wrielse Device public RG-ED Device public RG-ACE Device Reduthentication Key is used for Web Portal. Web Authentication Configuration Reduthentication Key is used for SNMP management. SMMP Configurat		Standard Radius Device	public
Rulie Wired Device public RG-EG Device public RG-ACE Device public RG-REAL STATE Public Identity Authentication Configuration Identity Authentication Key: Web Authentication Key is used for Web Portal. Web Authentication Key: Web Authentication Key: rulie If Tps: After the Web authentication key is specified, the system will support Web authentication. SNMP configuration * * SNMP Configuration * * SNMP Configuration should be the same as that on the devices. Otherwise the system cannot manage the de Click Modify when complete setting . Go to Authentication & Authority > Devi	Rule Wied Device public RO-EO Device public RO-EO Device public RO-ACE Device public Identity Authentication Configuration identity Authentication Key: Web Authentication Key: used for Web Portal. Web Authentication Key: rulie © Tps: After the Web authentication key is specified, the system will support Web authentication. SNMP Configuration * * SNMP 2ce Community: rulie © Tps: The SNMP configuration should be the same as that on the devices. Otherwise the		Ruijie Wireless Device	ruijie
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	WEB authentication.
Measured record:	
Testing conclusion:	