

# How to configure guest WiFi for Ruijie device

### I. Scenario

Guest WiFi clients are not allow to access the internal network.



# III. Configuration Planning

- 1 EG works as the DHCP server to assign IP addresses to wireless users and AP & switch devices.
- 2 The internal users obtain the IP address in the VLAN 6 network segment for Internet access.
- 3 The guest users obtain the IP address in the VLAN 7 network segment for Internet access.
- 4 Function requirements: Guest users cannot access the internal network VLAN 6.





Log in to Ruijie EG via local login or via remote login by cloud eWeb, and create sub interfaces and DHCP pools on the EG.
 (1) Click Network -> Interface -> LAN 2 -> Sub Interface, create the sub interface and configure the IP address with VLAN 6 and VLAN 7 to be the gateway IP address of the DHCP pool.

Ru	<b>jie</b> EG	Scenario: General	⑧ 🔽 Config Wizard 🔽 Detect New Network 🔗 Online Service Hi, admin ∽
	Interface	⊌ Interface Configuration - Sub Interface — Mozilla Firefox	- 🗆 ×
riome	SUPER-VLAN	O A https://172.26.5.250/4430/interface_pi/int_child.html	■ A manual of a
Common	Route/Load	Sub Interface: Gi0/2 6 * (Range: 1-1023)	ttack. Device with any IP address or gateway can access the
⊭	DNC Cottings	VLAN ID: 6 * (Range: 1-4087)	
Flow	Unvo Setungs	IP Address: 192.168.6.1	
Sehavior	VPN	Submask: 255.255.255.0	BF(SFP SFP+) 9F(SFP)
	NAT/Port Mapping	AnyiP: Enable	ed Unconfigured Unconfigured
Security	DHCP	Reverse Path:  Enable	
ی User	Line Escape	Add	
0	1	Sub Interface List	Indary IP Sub Interface DHCP Settings
Network		Sub Interface VLAN ID Interface Info Bandwidth	ISP Action
्र Master		Show No.: 10 V Total Count: 0 H First 4 Previous 1	Next Last H 1 GO
ങ			RITA ·
Advanced			
20	TO FO		
		Interface Configuration - Sub Interface — Mozilla Firefox	- □ × ct New Network × Online Service Hi, admin ✓ 驟 ☆ ≡
Home	Interface	Sub Interface: Gi0/2 v. 1 * (Range: 1-1023)	
₫	SUPER-VLAN	VI AN ID: 1	escape or link detection.
Common	Route/Load	VERVIC. 1 (Nange 1-4007)	frack. Device with any IP address or gateway can access the
₩ Flow	DNS Settings	IP Address:	
<b>(</b> 2)	VPN	Submask:	8F(SFP(SFP+) 9F(SFP)
Behavior	NAT/Port	AnylP: Enable	
U Security	wapping	Reverse Path: Linable	n oncomguten oncomguten
8	DHCP	Add	
User	Line Escape	Sub Interface List	ndary IP Sub Interface DHCP Settings
Network		Sub Interface VLAN ID Interface Info Bandwidth	ISP Action
æ		GigabitEthernet 0/2.7 7 Submask: 255.255.255.0	- Edit Delete
Master		GigabitEthemet 0/2.6 6 Submask: 255.255.255.0	Loit Delete
(i) Advances		show two 10 v Total count: 2 Previous 1	RITA >
ravanceu		Save	

#### (2) Click Network -> Interface -> DHCP -> Settings -> Add DHCP, create VLAN 6 and VLAN 7 DHCP pool.

Ruj	<b>jie</b> eg						Scenario: General 🖉	Config Wizard	R Online Service	Hi, admin 🗸
<b>∆</b> Home	Interface	Settings	Static IP Addr	ress	User List					
≞	Route/Load	+Add DHC	P X Delete Selected I	DHCP 🤅	Edit DHCP	1		×		
Common	DNS Settings	O	Name						Actio	m
¥	VPN	D	Vlan6	15	Pool Name:	Vian6			Edit	Jelete
HOW			AP		-e-remail			114.1	14 Edit C	Jelete
Rehavior	NAT/Port Mapping		Ť	15	Subnet:	192.168.6.0	* Format: 192.168.1.0		Edit	Jelete
Dendvita	DHCD		user	1	Mask:	255.255.255.0	* Format: 255.255.255.0		Edit	Jelete
(@) Cache	DIKE		vlan20	192	Default Gateway:	192 168 6 1	* Format: 192.168.1.1		Edit	Jelete
~	Line Escape		192.168.100.0	192.		1200100000			Edit	Jelete
Security			test114	192.	Lease Time:	O Permanent  E Lease Time 1	d 0 h 0	min 114	Edit	Jelete
, a		Show No.:	10 V Total Count: 7		Preferred DNS Server:	8.8.8.8	* Format: 114.114.114.114	4. Pr	e 1 Next > Last >1	1 GO
ک User					Secondary DNS Server:			-		
6										
Network					Option 43:		0	*		
ŝ							Save	Cancel		
WLAN										



#### Model: EG2100-P Web Version: 2020.08.17.15 Details

#### @2000-2022 Ruijie Networks Co., Ltd Service Portal | Service Mail | Official Website | Online Service |





Ru	<b>jie</b> eg					Scenario: General 💡	뎞 Config Wizard 🛛 😤 🤇	Online Service Hi, admi
<b>☆</b> Home	Interface	Setting	s Static IP Addr	ess User List				
Ē	Route/Load	+Add DHCP × Delete Selected DHCP Ø Excluded Ad		DHCP ØExcluded Address Range DH	HCP: ON			
ommon	DNS Settings		Name	IP Address Range	Default Gateway	Lease Time	DNS	Action
$\succeq$	VPN		Gusetwifi-Vlan7	192.168.7.1-192.168.7.254	192.168.7.1	1 Day(s)	8.8.8	Edit Delete
FIOW			Vlan6	192.168.6.1-192.168.6.254	192.168.6.1	1 Day(s)	8.8.8.8	Edit Delete
	NAT/Port Mapping		AP	10.10.0.1-10.10.1.254	10.10.1.1	Permanent	8.8.8.8,114.114.114.114	Edit Delete
	DUCD		1	192.168.2.1-192.168.3.254	192.168.2.1	Permanent	8.8.8.8	Edit Delete
(🏹 Cache	DHCP		user	10.10.10.1-10.10.10.254	10.10.10.1	Permanent	8.8.8.8	Edit Delete
	Line Escape		vlan20	192.168.20.1-192.168.20.254	192.168.20.1	Permanent	8.8.8.8	Edit Delete
(U) ecurity			192.168.100.0	192.168.100.1-192.168.101.254	192.168.100.1	Permanent	8.8.8.8	Edit Delete
0			test114	192.168.114.1-192.168.114.254	192.168.114.1	Permanent	114.114.114.114	Edit Delete
∐ User		Show No	.: 10 🗸 Total Count: 8				I∢ First ∢ Pre 1	lext ▶ Last ▶ 1 GO
Ø letwork								
WLAN								
ැබූ Ivanced								
		Model: EG2	2100-P Web Version: 2	020.08.17.15 Details	@2000.202	22 Puiiia Natworks Co., 1td Sonii	co Portal   Sonvico Mail   Off	icial Wobsita I. Onlino Sorviv

- 2 Log in to Ruijie switch via local login or via remote login by cloud eweb, and configure VLAN on the switch.
  - (1) Click VLAN -> Add in Batch, create VLAN 6 and VLAN 7 on the switch.



#### (2) Click Port -> Port Settings -> Batch Configuration to set port 23 which connect to EG and port 9 which connect to AP as the trunk ports and allow VLAN 1,6,7 to pass through.

Ruffe	Put										400
	Port Serringe	Post	general								
<b>~</b>	EPort Link										
MILLION COMPLEX	fast Cella	Autor ]									
Constitution of the local distance of the lo	Atter	Pert	Status.	Etheret 17	CENTRE C	Interfacia -	VARIABLE Address	- Dec	88	Antelinettitett	New Grand
	1	5483	distant.	Auto	Adu	ACTS			(Rusin)		
C. Personal (	1	940	(144	1.00	1.000	(8000).			1940		
al. max	1	1401	(name	. A.M.	Aust	00000	Apress of play 14		Oussile		
5	L	Sec.	bades.	Auto	Anto	40210	Autors (CAN 111		State 1		2
S. 1999	Z.	2.995	traine.	. And	1.946	ADD	April 97,00:10		them (		10 B
76 - mercus	2	444	linew.	. 64	-	acceste -	dependence of		(hare)		
and the second second	1	1 With 1	divelant.	1 Am	1.00	ATTR	Advis VAN III		(man-		-
	×.	1.995.4	Andre .	1.60	1.000	(2000)			10444		-
	L	1 March	there.		1.600	-icenti-			is and	-	-
	×.	7.644	and the	Arts .	Chile .	ACCE			State 1		-





Ruífie	Port 9 (Wizate) Ø O G
	Port Settings Port Mirroring
xs-sts20-Art2Gr25FP-P-E Details >> Details >> Dashboard Port	Status:       No Change *         Duplex:       No Change *         Speed:       No Change *         Description:       No Change *
<ul> <li>VLAN</li> <li>Diagnosis</li> <li>Web CLI</li> <li>More</li> </ul>	Advanced EEE: No Change • To enable EEE function, the peer end port must enable EEE function as well.
	Select Port:
3 Cor will (1) (	figure VLAN and SSID on Ruijie Cloud, the cloud configuration synchronize to Ruijie AP automatically. Click <b>CONFIGURATION</b> -> <b>WIRELESS</b> -> <b>Basic</b> in the designated device group.
Ruffe	MONITORING CONFIGURATION MAINTENANCE*
Basic Layout Radio Wi-Fi Optimization Roaming Bluetooth Loed Balancing	Wireless Configuration         SSID •         WLAN ID       SSID       Encryption Mode       Hidden       Forward Mode       Radio       Auth Mode       Action         1       Guest_WiFitest       Open       No       Bridge       1.2       Auth Disabled       Image: 1 in total         First       Previous       Page: 1 of 1       Next       Last       Unit 1 in total       Image: 1 in total
<ul> <li>AUTHENTICATION</li> <li>Caplive Portal</li> <li>PPSK</li> <li>Voucher</li> <li>Account</li> <li>Easy Sharing</li> <li>MORE</li> <li>Batch CLI Config</li> </ul>	Radio1(2 4GHz)       Radio2(5GHz)       Radio2(5GHz)       Radio2 (2 4GHz or 5GHz)       Scan       Access         ON/OFF       Image: Colored and the colspan="4">ON/OFF       Image: Colored and the colspan="4">ON/OFF       Image: Colspan="4">ON/
Custamize CLI Set AP-VLAN	Security  eWeb Web Configure Password Configure Password
(2) ( 	Click "+" to create a SSID for internal users named as nternal_network and set VLAN 6 to this SSID.
V Encrypti P	MLAN ID 2 ~   SSID Internal_Network Forward Mode @   on Mode WPA/WPA2-PSK   vLAN ID 6   Password ruijie123   Radio @ Radio1(2.4GHz)   @ Radio3 @ (2.4GHz or 5GHz)
(3) (	Click "+" to create a guest WiFi SSID for guest users named as Guest_WiFi and set VLAN 7 to this SSID.
VVI	LAN ID3HiddenNo~SSIDGuest_WiFiForward Mode ?Bridge~

4





User

Advanced

## **IV. Configuration Steps**

(4) Click **Save** on the top right corner to save all modifies and take effect.

Guest_	_WiFitest ∨ Searc	h Network Q			(GMT+8:00)Asia/	/Hong_Kong Manage	Project Conflict Netwo	ork Take over Network Unbind Device	е
								Save More -	
W	/ireless Configurat	ion						~	
SSIE	D 🖨								
	WLAN ID	SSID	Encryption Mode	Hidden	Forward Mode	Radio	Auth Mode	Action	
	1	Guest_WiFitest	Open	No	Bridge	1,2	Auth Disabled	ē i	
	2	Internal_Network	wpa/wpa2-psk	No	Bridge	1,2	Auth Disabled		
	3	Guest_WiFi	wpa/wpa2-psk	No	Bridge	1,2	Auth Disabled		د
			First Previous Page	1 of 1	Next			10 🛋 3 in total	
4	Confi (1) Cl	gure ACL and ick <b>Security</b>	d make it	apply -> Ac	v to the	interfa	ace on ate the	EG. ACL 106.	
4 Ruij	Confi (1) Cl	gure ACL and ick <b>Security</b>	d make it / -> <b>ACL</b>	apply -> Ac	to the dd ACL	interfa , Cre Config Wizard	ace on ate the Detect New Networ	EG. ACL 106. * <sup>®</sup> Online Service Hi, admin	~
	Confi (1) Cl	gure ACL and ick <b>Security</b>	d make it / -> ACL	apply -> Ac	to the dd ACL	interfa , Cre Config Wizard	ace on ate the Detect New Networ	EG. ACL 106. * <sup>A</sup> Online Service Hi, admin	~ ^
	Confi (1) Cl The EG	gure ACL and ick <b>Security</b>	d make it -> ACL	apply -> Ac	to the dd ACL	interfa , Cre Config Wizard	ace on ate the Detect New Networ	EG. ACL 106. * <sup>®</sup> Online Service Hi, admin	~ ^
4 Rui Home	Confi (1) Cl The EG	gure ACL and ick Security	Delete ACL +Add ACE	apply -> Ac Scenar X Delete Selected Protocol	to the dd ACL	interfa , Cre Config Wizard	ACE ON ate the Detect New Networ	EG. ACL 106. R @ Online Service Hi, admin	~ ^
	Confi (1) Cl TE EG	gure ACL and ick Security	Delete ACL +Add ACE	apply -> Ac Scenar X Delete Selected Protocol	to the dd ACL	interfa , Cre Config Wizard	ACE ON ate the Detect New Networ	EG. ACL 106. * <sup>A</sup> Online Service Hi, admin Status Action Effective Edit   Move	~ ^
	Confi (1) Cl TC EG	gure ACL and ick Security	Delete ACL +Add ACE	apply -> Ac Scenar X Delete Selected Protocol	to the dd ACL	interfa , Cre Config Wizard	ACE ON ate the Detect New Networ	EG. ACL 106. * * Online Service Hi, admin Status Action Effective Edit   Move Pre 1 Next * Last * 1 00	~





#### Standard ACL: Can only match the packets based on source IP address

Extended ACL: Can match the packets based on source and destination IP address

(2) Choose ACL 106, click **Add ACE**, configure a rule to deny 192.168.7.0/24 network to access 192.168.6.0/24 network.

Rui	JIE EG		Scenario: General 🕜 🛛 Config Wizard 🔽 Detect New Network 🖄 Online Service	Hi, admin $\succ$
<b>∂</b> Home	1PS	ACL	≡ Add ACE ×	
Ē	Interface Access Control	ACL: 106 V Add ACL Delete ACL +Add ACE	ACL: 106	
	ARP	NO. Src IP/Wildcard Src Port Access Control	ACE Configuration Access Control: O Permit O Deny	tion
Behavior	ACL Max Sessions	Show No.: 10	Protocol: IP  Ime Period: Please select a time period-  Any Source IP Address: (Any Source IP Address indicates that the rule is applied to all source IP addresses.)	GO
© Security			IP&Wildc v IP: 192.168.7.0 Wildcard: 0.0.0.255	
ය User			Any Destination IP Address: (Any Destination IP Address indicates that the rule is applied to all destination IP addresses.)	
() Network			IP&Wildc v IP: 192.168.6.0 Wildcard: 0.0.0.255	
क्रैंक Master			OK Cancel	6



#### Model: EG3250 Web Version: 2022.03.04.15 Details

#### @2000-2022 Ruijie Networks Co., Ltd Service Portal | Service Mail | Official Website | Online Service |



#### (3) Add a "permit any any" rule at the last.

Ruij	ie eg						Scenari	o: General 🕜	Config Wizard	C Detect New Network	A Online Service	Hi, admin 🗸
<b>∂</b> Home	IPS	AC	L									
÷	Interface Access Control	ACL:	106	Add ACI	_ Delete ACL	+ Add ACE	X Delete Selected					
Common	ARP		NO.	Src IP/Wildcard	Src Port	Access Control	Protocol	Dest IP/Wildcard	Dest Port	Time Period	Status	Action
₩ Flow			1	192.168.7.0/0.0. 0.255		Deny	ip	192.168.6.0/0.0.0. 255		All Time	Effective	Edit   Move
-	ACL		2	Any		Permit	ip	Any		All Time	Effective	Edit   Move
Sehavior	Max Sessions	Sho	w No.:	10 🗸 Total Count: 2						14 First 🔞 Pi	e 1 Next ⊁ Last⊁l	1 GO
Security User Wetwork												63
(©) Advanced		Model: 1	EG3250	Web Version: 2022.03.04	4.15 Details			@20	00-2022 Ruijie Network	s Co., Ltd Service Portal   Servi	ce Mail   Official Websi	RITA te   Online Service



The ACL for the Ruijie device has a final implicit ACE of "deny any". If the ACE of permit any is not configured,

# the packets will be dropped regardless of the source and destination IP address of the packet.

# (4) Click **Interface Acess Control**, apply ACL 106 to interface G0/2.7 and choose the filter direction as "inbound".

Ruij	<b>ie</b> eg			Scenario: Genera	al 💿 🛛 🕼 Config Wiz	zard 🤗 Online Service 🛛 Hi, admir	1 <b>~</b>
Come Home	IPS Interface Access	Interface Access Control Note: Apply ACL to interface Reflection ACL, Brilleoine ACL, alterna IP	nactivity to the filterined based on under Jaser cascion inform	GigabitEthernet 0/2.7	7 IP Addr Submask	ress192.168.7.1 k: 255.255.255.0	Edit Delete
Common	ARP	network but to deny IP traffic for session	as originating from outside your network.	GigabitEthernet 0/2.6	6 IP Addr Submask	resa192.168.6.1 k: 255.255.255.0	- Edit Delete
₩ Flow	ACL	+Add XDelete Selected	= Add		×	Action	1
53 Behavior	Max Sessions		ACL: 106	1			
(?) Cache		Show No.: 10 - Total Count: 0	Interface: Gi0/2.7	-		d f Pre Ned 7 Last M 1 GO	r
• ① Security			Reflexive ACL:  Enable	The second se			
User				Sa	Cancel		
Network							
(Ç WLAN							
() Advanced							
		Model: EG2100-P Web Version: 2020.08	17:15 Details @2000-20	22 Ruijie Networks Co., Ltd	Service Portal   Service	e Mail   Official Website   Online Servic	e [



- 1) The ACL should be applied to the interface after it has been created. If it is not applied to the interface, it will not take effect.
- 2) Inbound means to detect the packets entering the

#### interface of the device.





## V. Verification

Guest network users 192.168.7.2 cannot access the internal network users 192.168.6.2.



Honor View			
	Pa	use	
8	0	100.00%	0 ms
1.11		A REAL PROPERTY.	2.7 <u>2</u> 0005

Official Website ≫ https://www.ruijienetworks.com
 Community ≫ https://community.ruijienetworks.com
 Facebook ≫ https://www.facebook.com/ruijietac



Official Website



Community



Facebook

