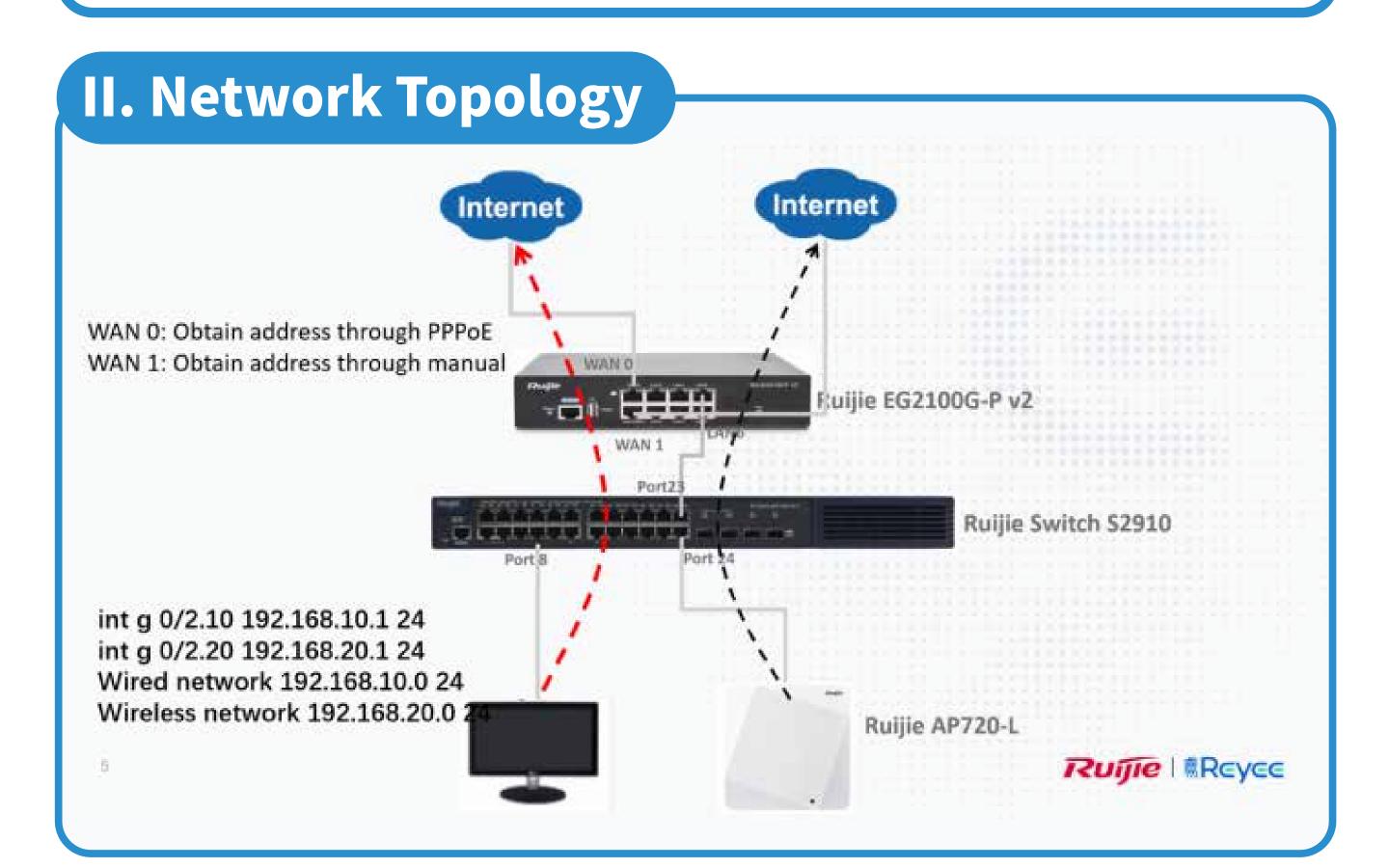


# Multi-egress traffic distribution

## I. Scenario

Multi-egress traffic distribution is applicable to a network with two or more operator lines. It controls data from different users to pass through specified external network lines, thereby implementing distribution of Internet access traffic.



# **III. Configuration Planning**

#### **External network lines:**

WAN 0: Address is obtained through the Point-to-Point Protocol over Ethernet (PPPoE).

WAN 1: Static address is configured.

#### $\left[2\right]$ Internal networks

Employees' wired network: 192.168.10.0 255.255.255.0 Employees' wireless network: 192.168.20.0 255.255.255.0

### **3** Function requirements

Data of the wired network is forwarded by WAN 0 while data of the wireless network is forwarded by WAN 1.





# **IV. Configuration**

# Configure data of the wired network to be forwarded by WAN 0. (1) Create ACL 10.

<b>☆</b> Home	IPS	ACL
Ē	Interface Access Control	ACL: 1 ~ Add ACL 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         Image: Image
Flow	ACL	Show No.: 10 V Total Count: 1 E Add ACL X 4 Pre 1 Next *
Eehavior	Max Sessions	ACL Type:  Standard ACL (Source-address-based Control)  Extended ACL (Flow-based
(🏹 Cache		Control)
0 Security		ACL: 10 * Both Chinese and English are supported. If you want to configure a number, please make sure that it is in the range of 1-99 or 1300-1999.
کے User		OK Cancel
<b>∆</b> Home	IPS	ACL
≞	Interface Access Control	ACL: 10 Add ACL Delete ACL +Add ACE X Delete Selected
Common	ARP	NO. Src IP/Wildca Add ACE
<b>₩</b> Flow	ACL	
Behavior	Max Sessions	ACL Type: Standard ACL (Src-address-based Control) ACL: 10
Cache		Show No.: 10 V Total Co ACCE Configuration ACCE Configuration
Security		Any IP Address: (For all ip)
e User		2 IP&Wildc ~ IP: 192.168.10.0 Wildcard: 0.0.0.255
() Network		OK Cancel

#### (2) Configure PBR.

<b>∂</b> Home	Interface	Policy-Based Route	IP-Based Route	Load Balance			
. €	Route/Load					s listed as follows: policy-based route > static route >	default route.
Common	DNS Settings	Note: Policy-based route i	s a flexible packet forwarding	policy. A next hop address i	s required in Ethernet environment, and an int	erface is required in PPPoE environment.	
₩ Flow	VPN	Interface:	Gi0/2	~			
Eehavior	NAT/Port Mapping	Policy Priority:	100	* (0~65535)			
	DHCP	ACL ID:	10	V [Add ACL]			
Cache	Line Escape	Interface/Next Hop:	Interface	~ Di1	~ [PPPoE Environment] Ar	interface is required in PPPoE environment.	
① Security			Add				
کے User		Policy-Based Route Lis	st Interface: Gi0/2	~			× Delete All
• 🛞 Network		Policy Priority		ACL ID	Interface	Next Hop Address	Action

Interface: Indicates the interface, to which the gateway of the wired network is connected.

Policy Priority: A larger value indicates a higher priority. ACL ID: Indicates the ACL for matching data of the wired network. Interface/Next Hop: Indicates the traffic egress.

Configure data of the wireless network to be forwarded by WAN 1.
 (1) Create ACL 20.





# **IV. Configuration**

<b>∂</b> Home	IPS	ACL	
Ē	Interface Access Control	ACL: 20  Add ACL Delete ACL + Add ACE X Delete Selected	
Common	ARP	□ NO. Src IP/Wildcard Sr	Status
Flow	ACL	ACL Type: Standard ACL (Src-address-based Control)	
Behavior	Max Sessions	Show No.: 10 V Total Count: 0 ACL: 20	I Pre Next ▶ La
( 🏹 Cache		Access Control:  Permit O Deny Time Period:Please select a time period >	
• ① Security		Any IP Address: (For all lp)	
ی User		IP&Wildc ~ IP: 192.168.20.0 Wildcard: 0.0.0.255	
(Ø Network		OK Cancel	

#### (2) Configure PBR. WAN 1 uses static addresses. Therefore, next-hop addresses need to be configured.

	Interface	Policy-Based Route	IP-Based Route	Load Balance				
Common	Route/Load DNS Settings	Priority: The policy-based route and IP-based route both serve packet forwarding. When they exist at the same time, the priority is listed as follows: policy-based route > static route > default Note: Policy-based route is a flexible packet forwarding policy. A next hop address is required in Ethernet environment, and an interface is required in PPPoE environment.						
₩ Flow	VPN	Interface:	Gi0/2.20	~				
Eehavior	NAT/Port Mapping	Policy Priority:	100	* (0~65535)				
	DHCP	ACL ID:	20	✓ [Add ACL]				
Cache	Line Escape	Interface/Next Hop:	Next Hop Address	~ 172.26.4.1				
① Security			Add					
		1						
	Test							
<b>V.</b> <sup>-</sup>	Test							
			bowirola		ork Tho	toot roe		ve that
C	Connec	t a PC to t						
C	Connec	t a PC to t connects t						
C tl	Connec he PC		to the net					
C tl	Connec he PC	connects	to the net 5.4.1.					
C tl	Connec he PC	connects t s is 172.26	to the net 5.4.1.				nd the ne	
C tl	Connec he PC	connects t s is 172.26	to the net 5.4.1.				nd the ne	
C tl	Connec he PC	connects f s is 172.26	to the net 5.4.1.	twork thre			nd the ne	
C tl	Connec he PC	connects f s is 172.26	to the net 5.4.1. Network	twork thre		N 1 an	nd the ne	
C tl	Connec he PC address	connects f s is 172.26	to the net 5.4.1. Network	twork thre		N 1 an	nd the ne	ext-hop
C tl	Connec he PC address	connects f s is 172.26	to the net 5.4.1. Network	natic Status:	ough WA	N 1 an	Q Search Turn Wi-Fi	ext-hop

USB 10/11000 LAN Not Connected	Network Name: Test_PBR
Thunderbolt Bridge     Not Connected	Automatically join this network Ask to join Personal Hotspots
VPN (L2TP)	🗹 Limit IP Address Tracking
VPN (L2TP) Not Connected Transocks	Limit IP address tracking by hiding your IP address from known trackers in Mail and Safa





## V. Test

Last login: Mon Mar 14 15:30:17 on console The default interactive shell is now zsh. To update your account to use zsh, please run `chsh -s /bin/zsh`. For more details, please visit https://support.apple.com/kb/HT208050. Mac15:~ shang\$ traceroute 8.8.8.8 traceroute to 8.8.8.8 (8.8.8.8), 64 hops max, 52 byte packets 1 192.168.20.1 (192.168.20.1) 18.513 ms 26.928 ms 14.263 ms 2 172.26.4.1 (172.26.4.1) 18.302 ms 14.465 ms 14.581 ms 3 172.22.0.53 (172.22.0.53) 14.023 ms 13.449 ms 15.176 ms  $\leftrightarrow$ 

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Community



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