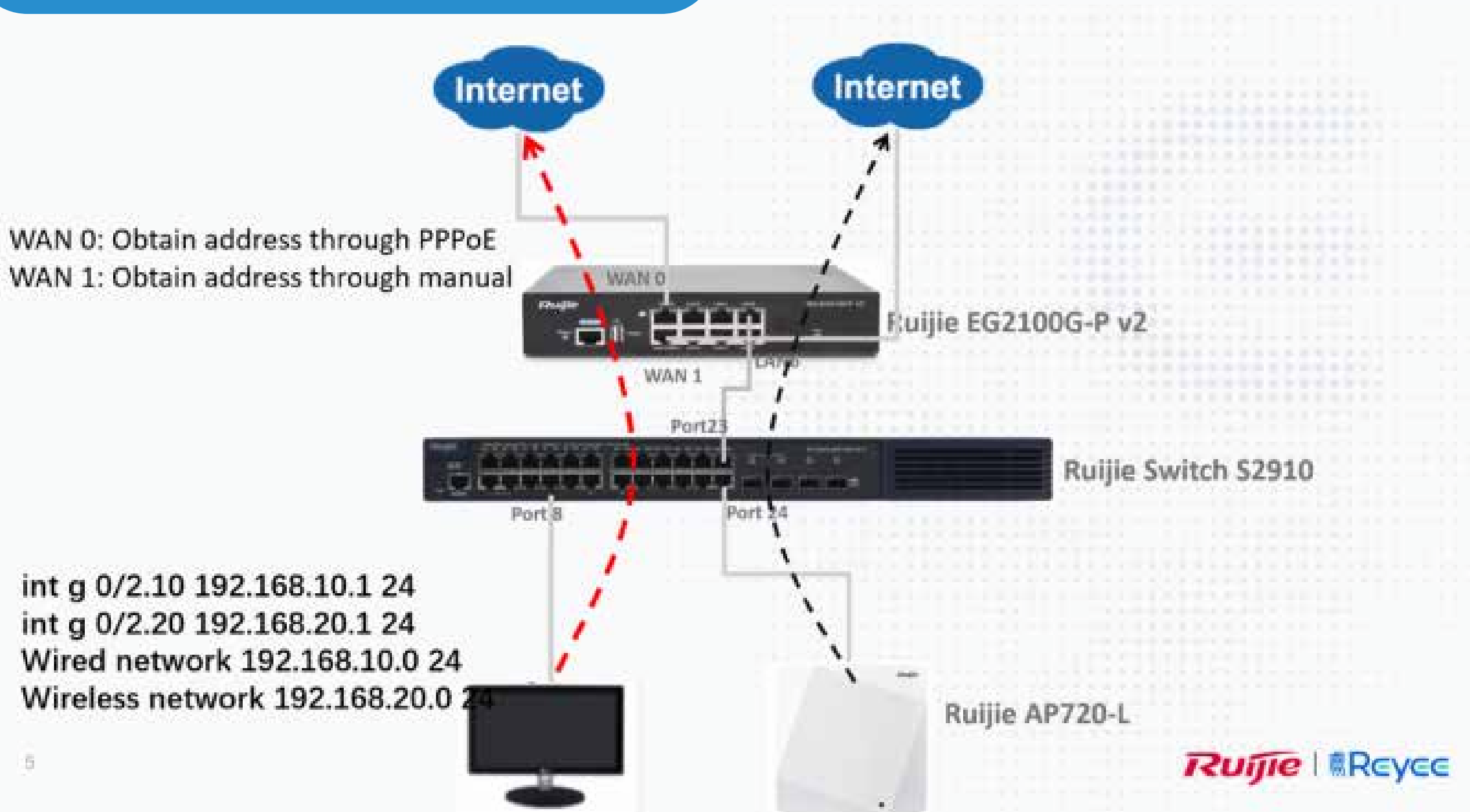


Multi-egress traffic distribution

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.

II. Network Topology



III. Configuration Planning

- 1 External network lines:
 - WAN 0: Address is obtained through the Point-to-Point Protocol over Ethernet (PPPoE).
 - WAN 1: Static address is configured.
- 2 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

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

The first screenshot shows the 'ACL' configuration page. The 'Add ACL' button is highlighted with a red arrow. The 'Add ACL' dialog box is open, showing 'ACL Type' set to 'Standard ACL (Source-address-based Control)' and 'ACL' set to '10'. The 'OK' button is highlighted.

The second screenshot shows the 'Add ACE' dialog box. The 'ACL' is set to '10'. The 'Access Control' is set to 'Permit'. The 'Time Period' is set to '---Please select a time period---'. The 'Any IP Address' checkbox is checked. The 'IP&Wildc' dropdown is set to 'IP: 192.168.10.0' and 'Wildcard: 0.0.0.255'. The 'OK' button is highlighted.

- (2) Configure PBR.

The screenshot shows the 'Policy-Based Route' configuration page. The 'Interface' is set to 'Gi0/2'. The 'Policy Priority' is set to '100'. The 'ACL ID' is set to '10'. The 'Interface/Next Hop' is set to 'Interface' and 'Di1'. The 'Add' button is highlighted. Below the configuration fields, there is a 'Policy-Based Route List' table with columns: Policy Priority, ACL ID, Interface, Next Hop Address, and Action. The table is currently empty.

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

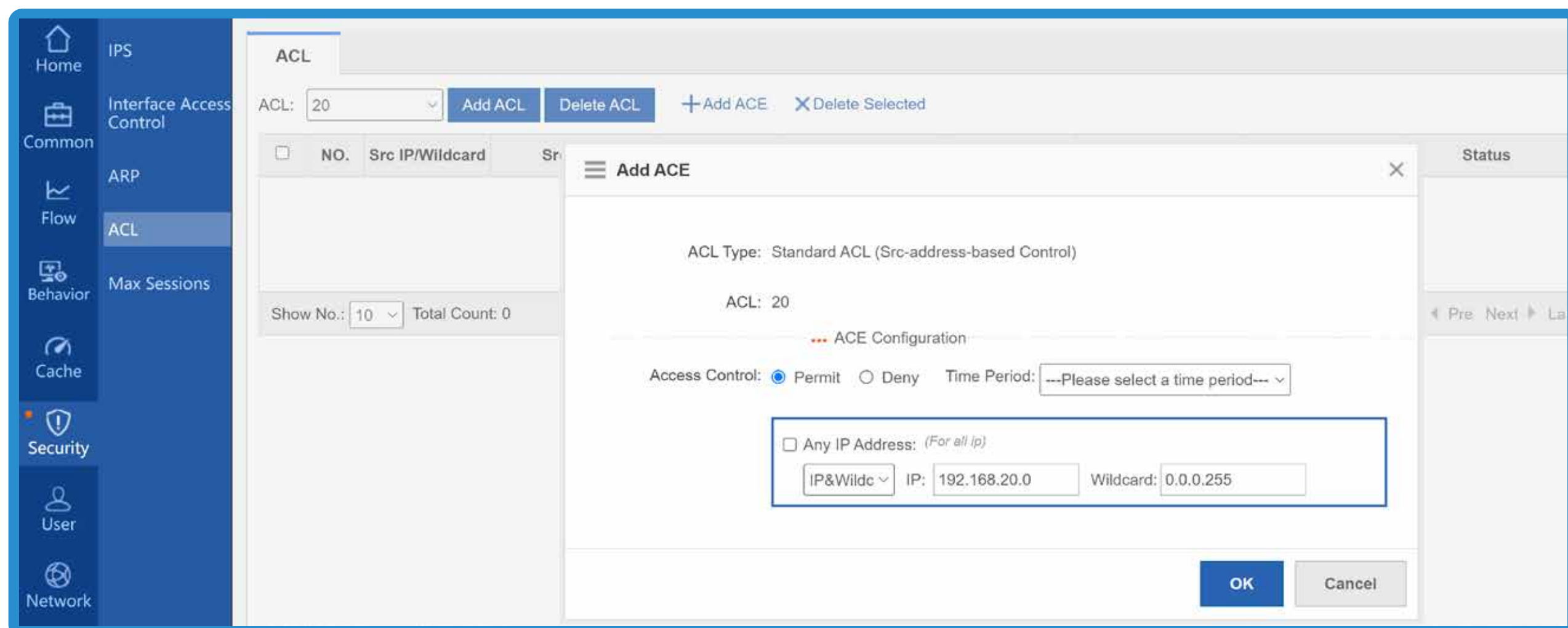
Policy Priority: A larger value indicates a higher priority.

ACL ID: Indicates the ACL for matching data of the wired network.

Interface/Next Hop: Indicates the traffic egress.

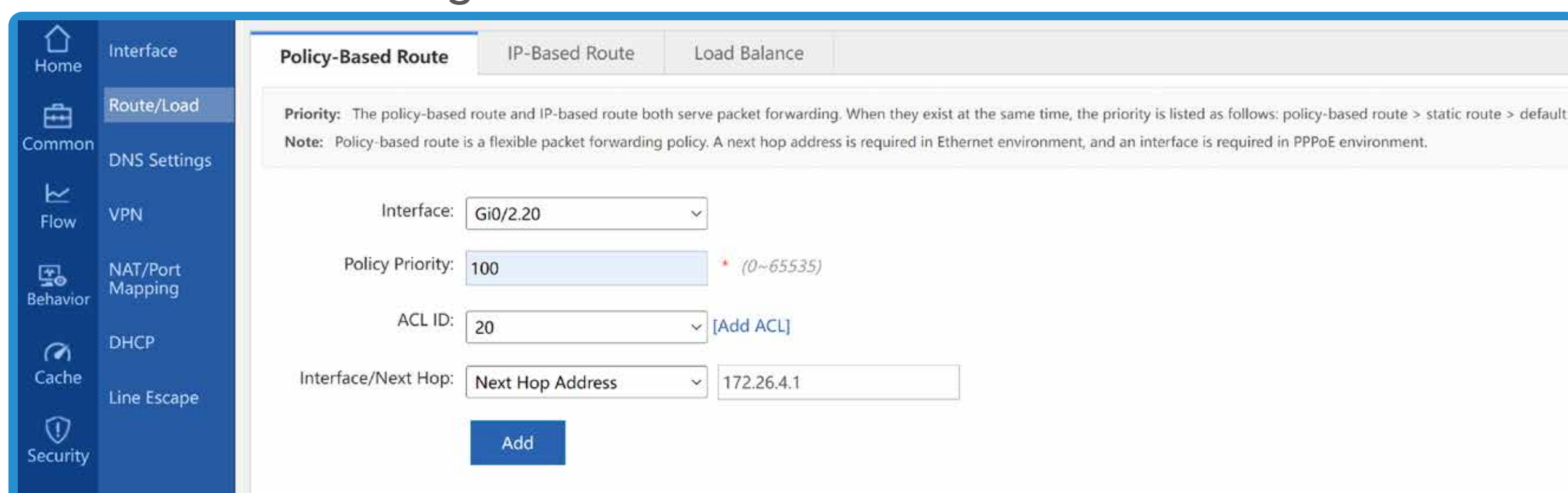
- 2 Configure data of the wireless network to be forwarded by WAN 1.
 - (1) Create ACL 20.

IV. Configuration



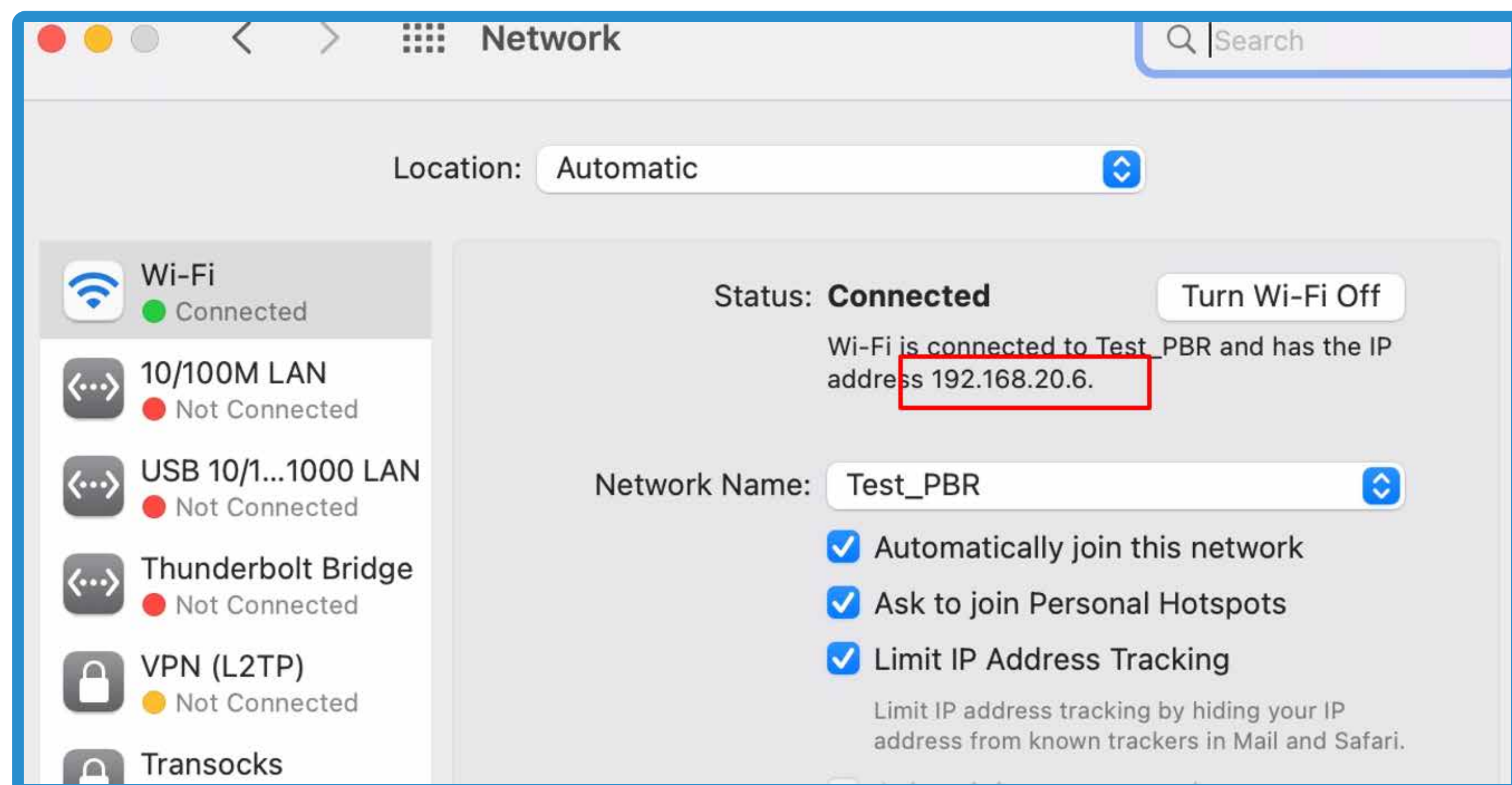
(2) Configure PBR.

WAN 1 uses static addresses. Therefore, next-hop addresses need to be configured.



V. Test

Connect a PC to the wireless network. The test result shows that the PC connects to the network through WAN 1 and the next-hop address is 172.26.4.1.



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

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