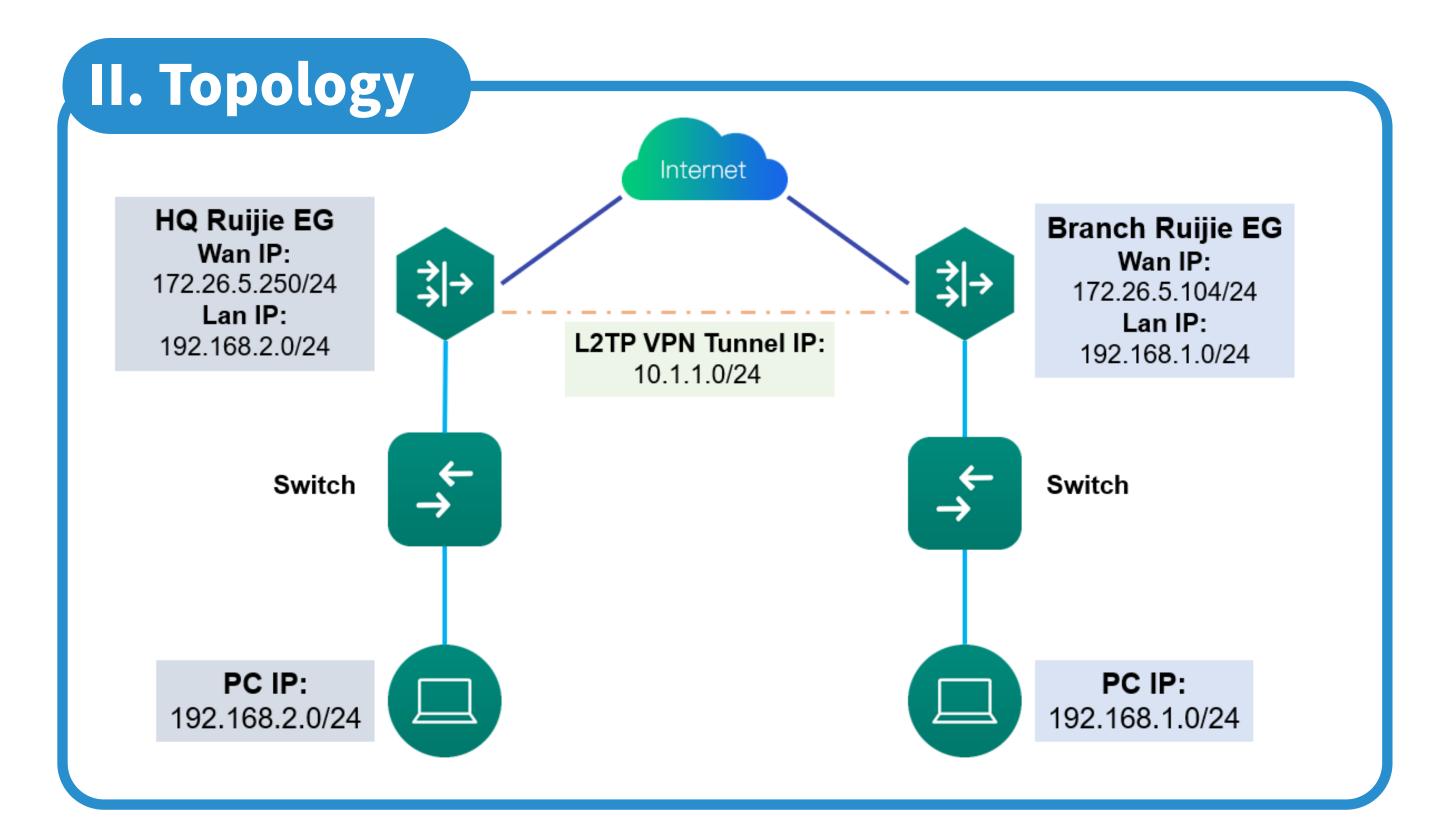


How to configure L2TP over IPsec VPN?

I. Requirement

The headquarters and branches need to share the server data frequently. L2TP over IPSec VPN can be established between egress gateways to enable the communication between the headquarters and branches without VPN Settings.



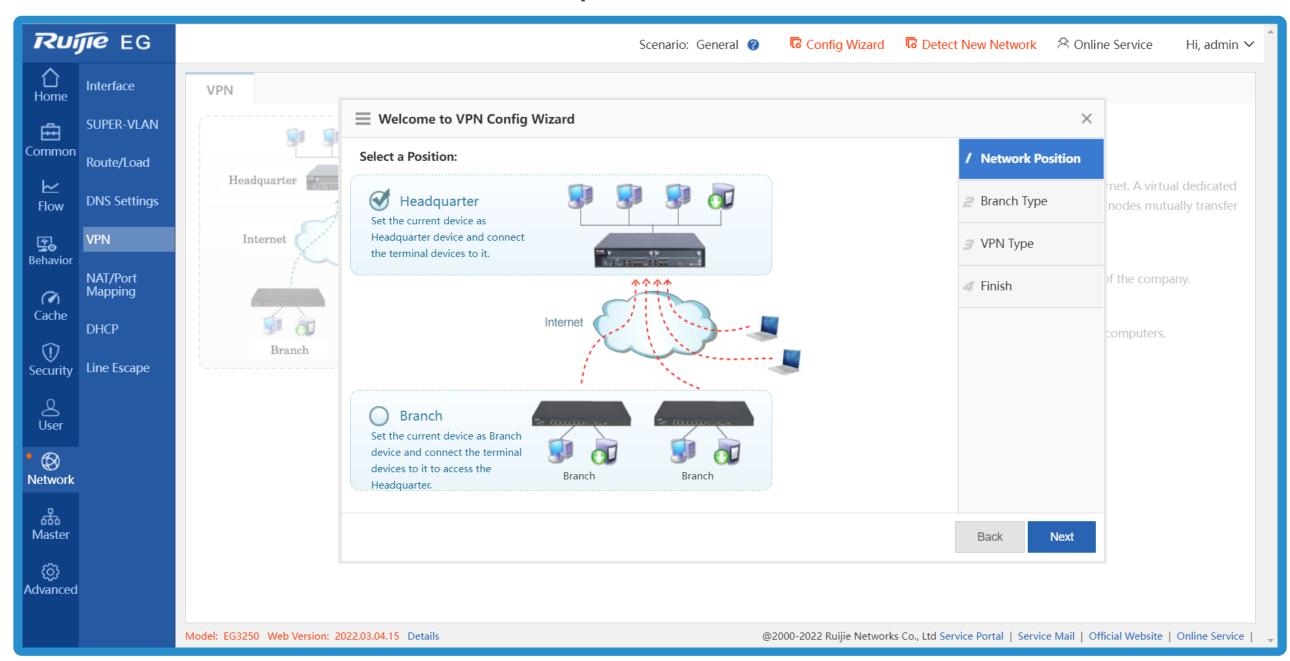
III. Configuration Notes

- 1 The configurations of Pre-Shared key, IKE Policy, Transform Set on HQ and Branches should be consistent.
- 2 The function of "Allow HQ to Access Branch" is disabled by default, but you can enable it according to your needs. After this function is enabled, the LAN IP range of branch and the Tunnel IP of the designed Branch should be set on HQ and the Tunnel IP should be set on Branch which also should be consistent with the Tunnel IP of HQ.
- 3 Tunnel IP cannot be on the same network segment as the Intranet address of both ends.



1 HQ Configuration:

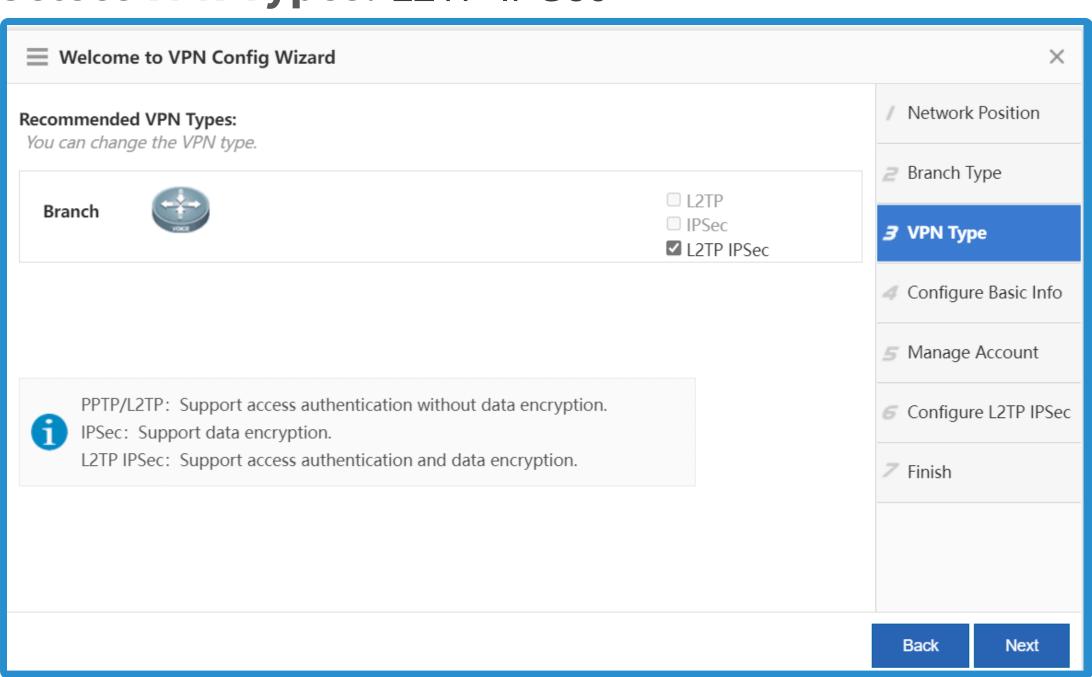
Select a Position: Headquarter



Select a Brach Type: Branch



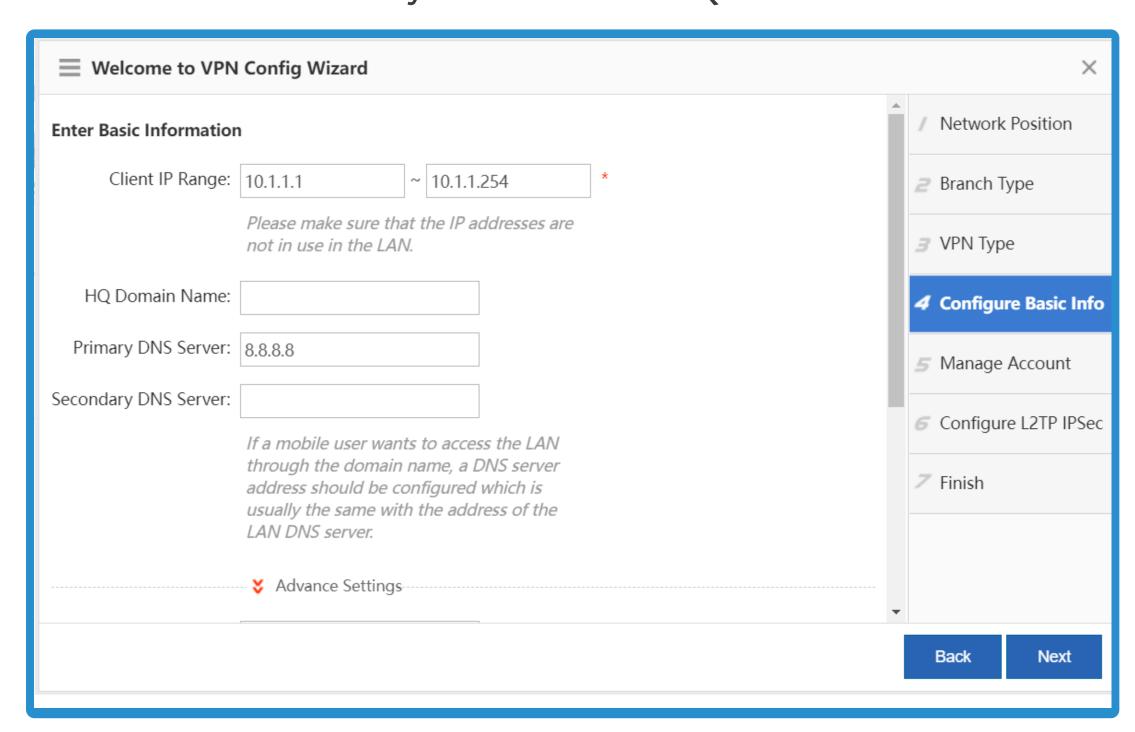
Select VPN Types: L2TP IPSec





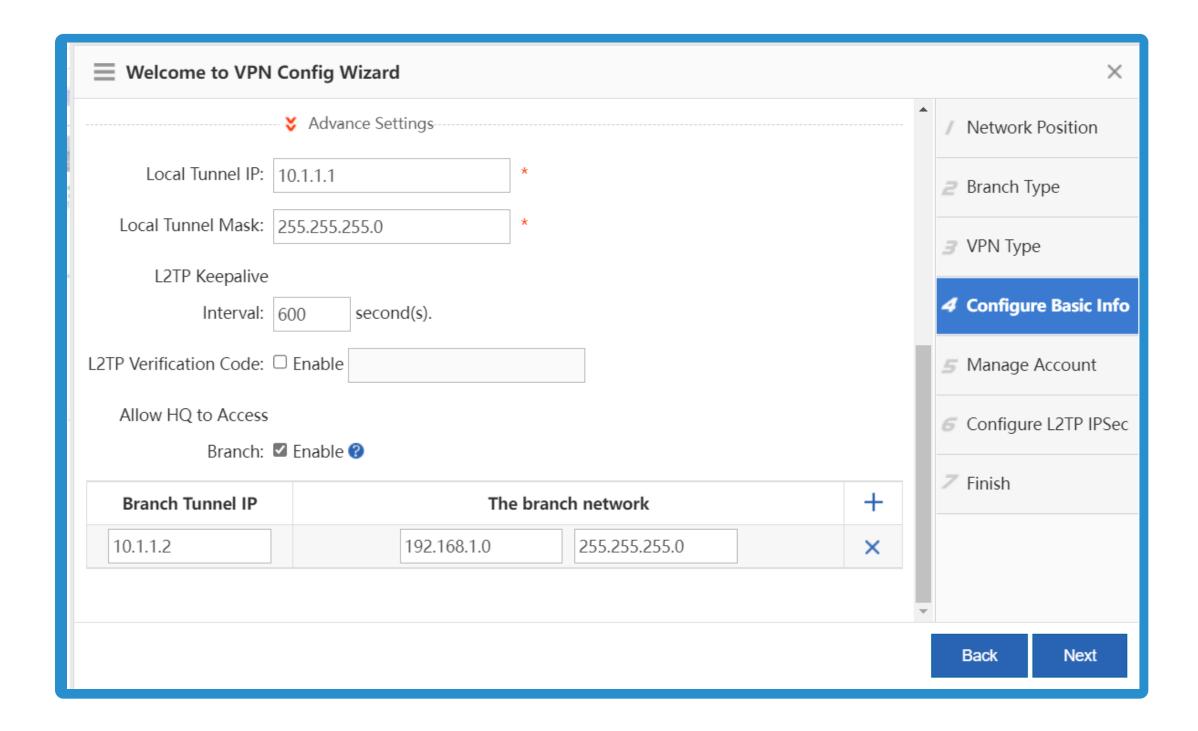
Enter the Basic Information:

Client IP Range: The IP address range of L2TP VPN Tunnel assigned to Branch. Please make sure that these IP Address haven't been used by the LANs of HQ and Branch.



Configure Local Tunnel IP in Advance Settings.

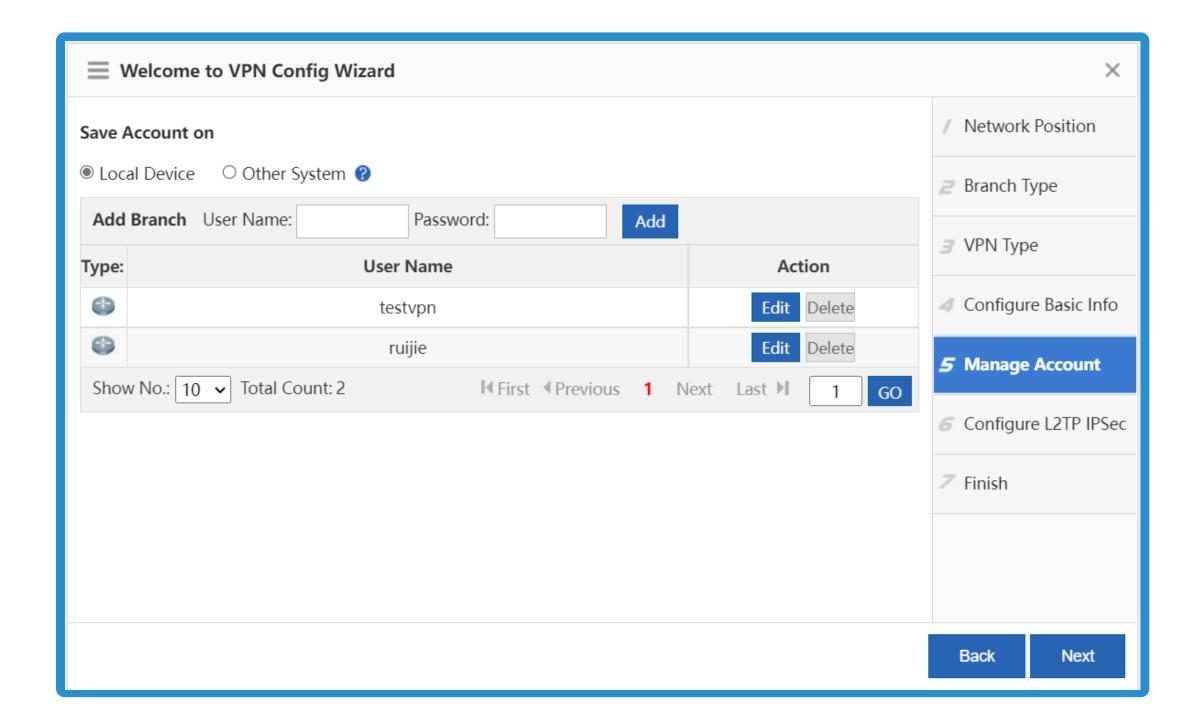
You can allow HQ to access Branch by enabling the function "Allow HQ to Access Branch" and also configure the Branch Tunnel IP and the Branch Network.



Add VPN User Account:

Enter User Name and Password, then click Add.





Configure L2TP IPSec Parameter:

Pre-shared Key: ruijie

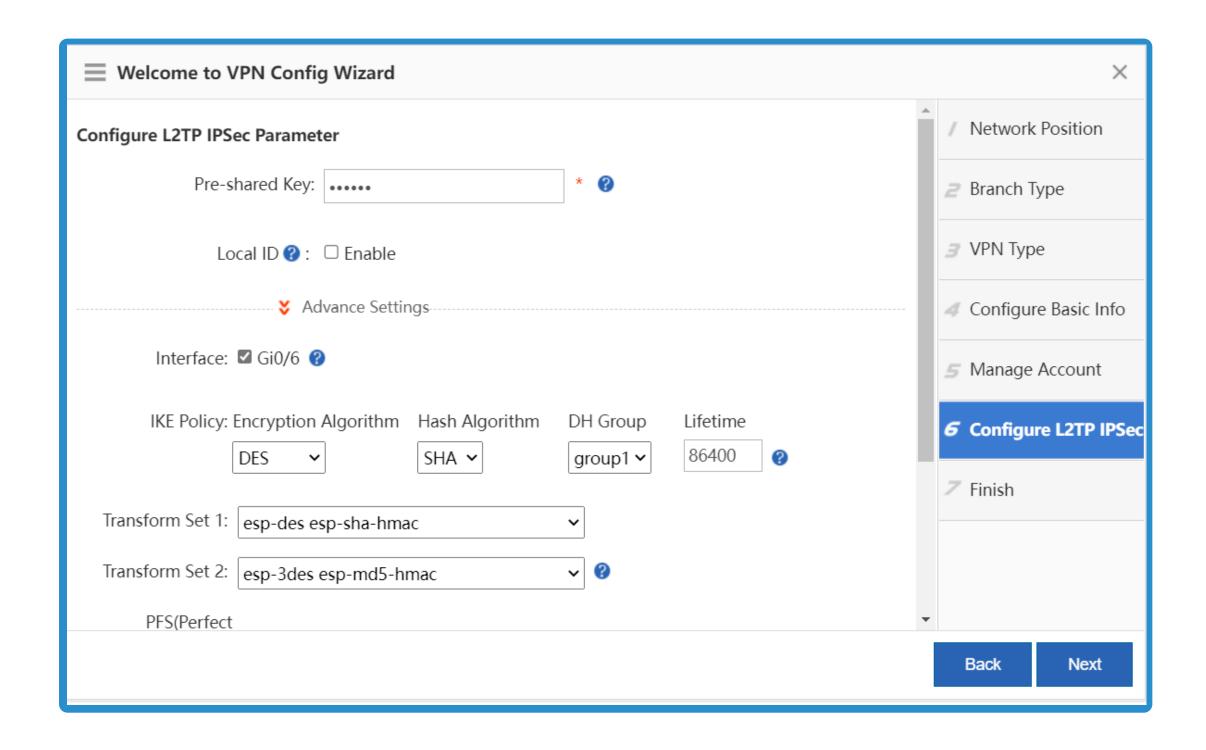
Configure IKE Policy and Transform Set on Advance Settings. IKE Policy: Encryption Algorithm-DES, Hash Algorithm-SHA,

DH Group-group1

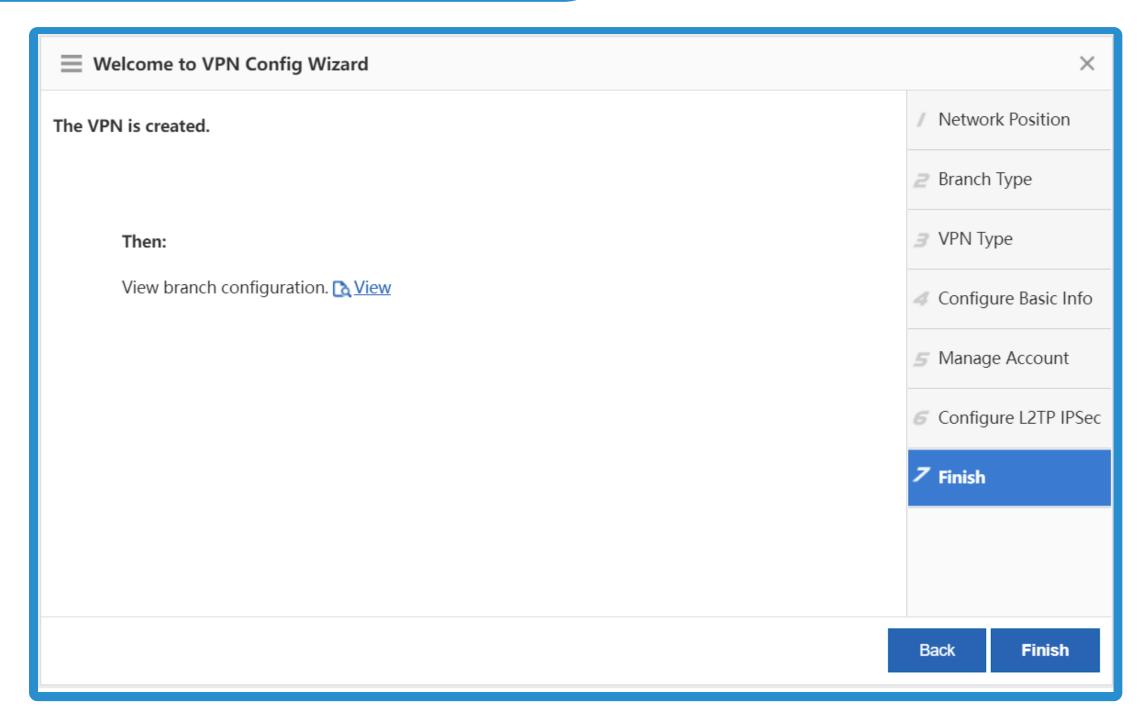
Transform Set1: esp-des esp-sha-hmac Transform Set2: esp-3des esp-md5-hmac

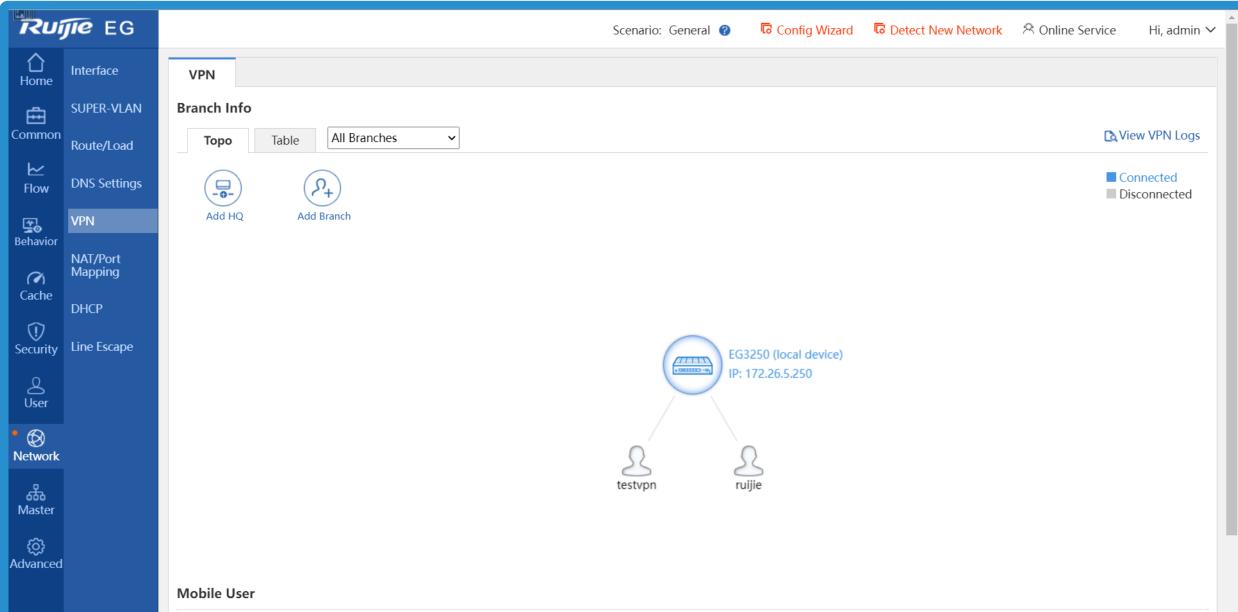
Notice

The configurations of Pre-shared Key, IKE Policy, Transform Set on HQ and Branch should be consistent.

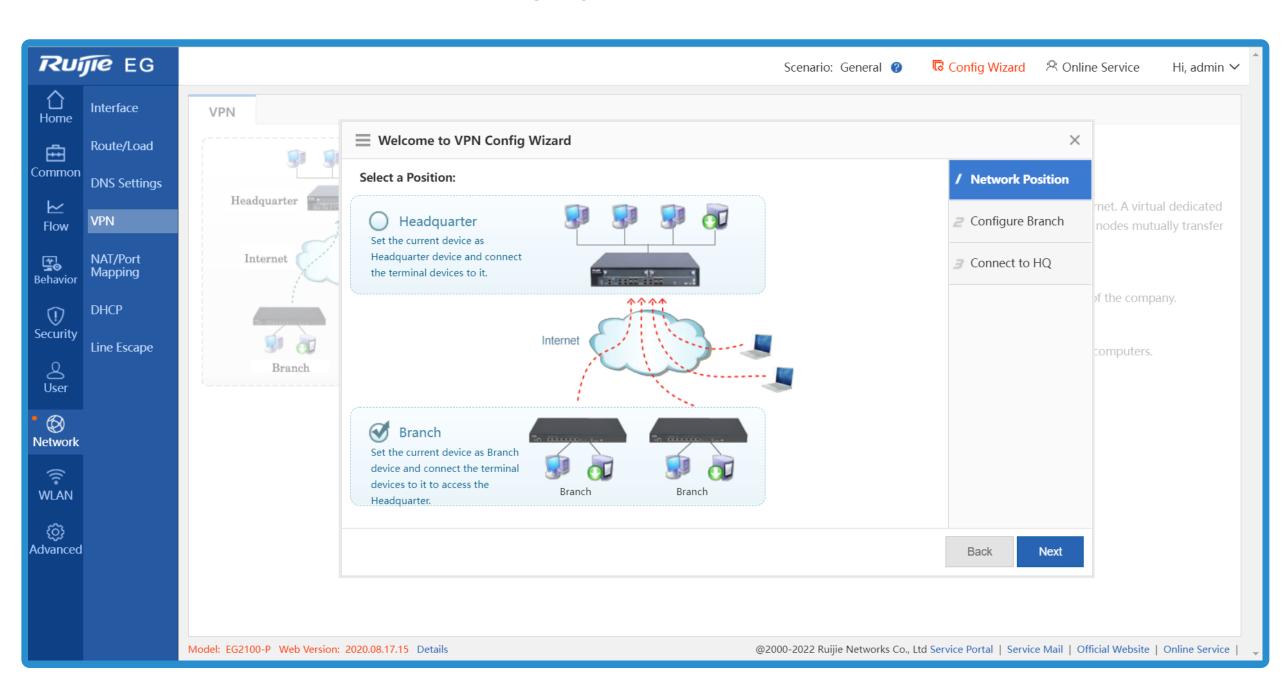








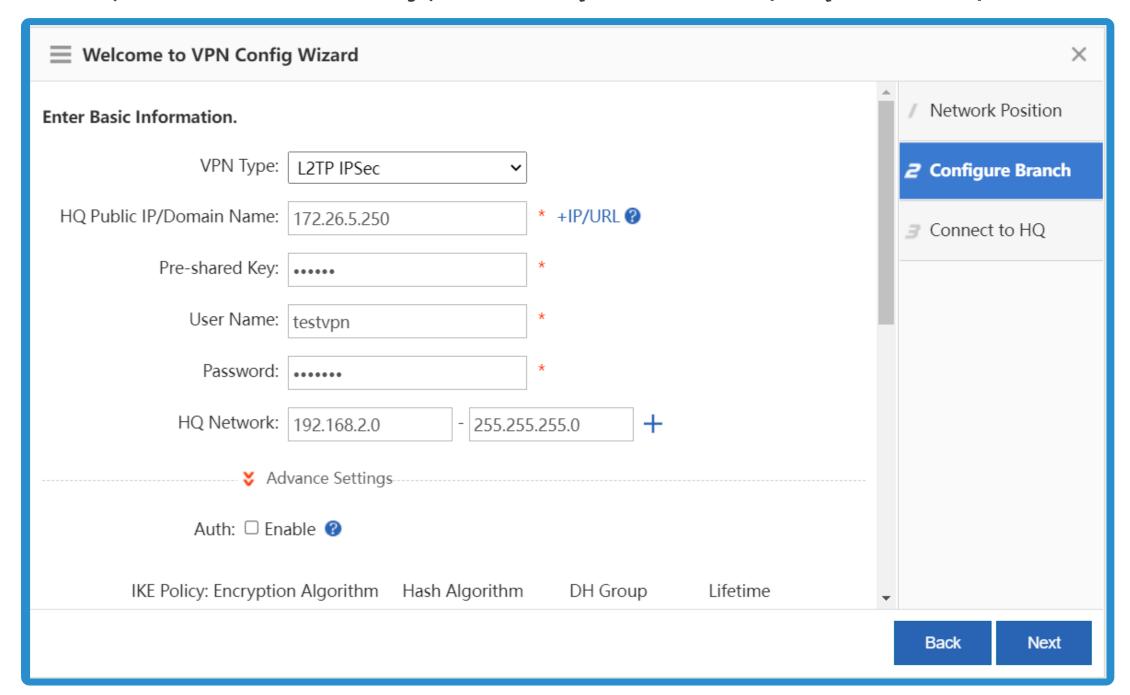
2 Branch Configuration:
Select a Position: Branch





Enter Basic Information:

Select VPN Type as L2TP IPSec, fill the HQ Public IP/Domain Name, Pre-shared Key, and HQ Network (HQ LAN IP).



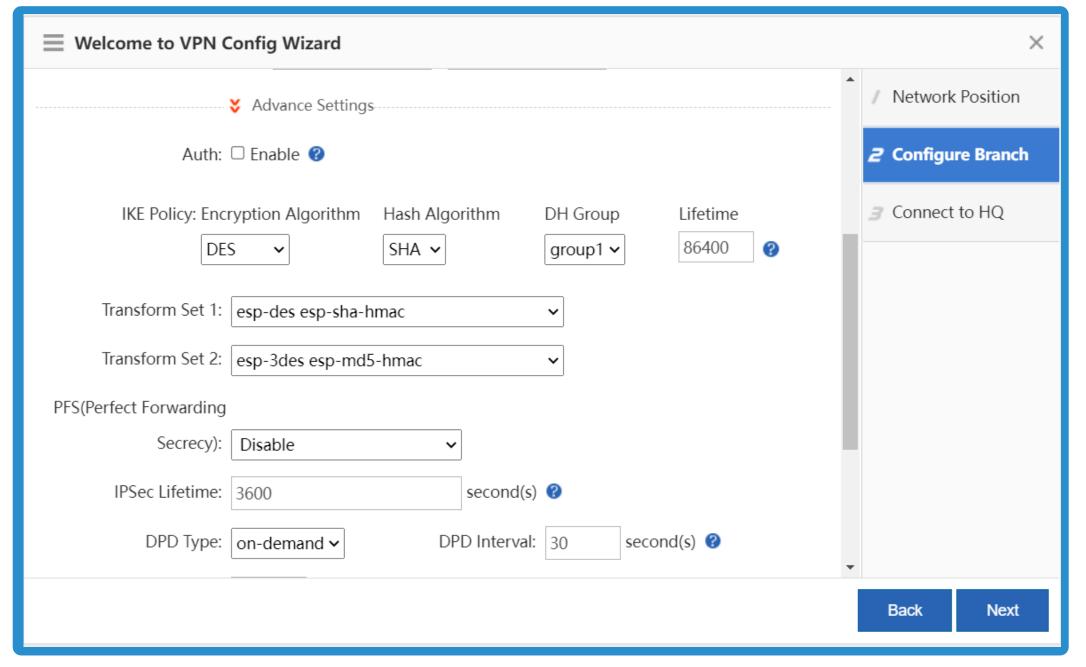
Configure IKE Policy and Transform Settings in Advance Settings:

IKE Policy: Encryption Algorithm-DES, Hash Algorithm-SHA, DH Group-group1

Transform Set1: esp-des esp-sha-hmac Transform Set2: esp-3des esp-md5-hmac

Notice

Pre-shared Key, IKE Policy, Transform Set on HQ and Branch should be consistent.

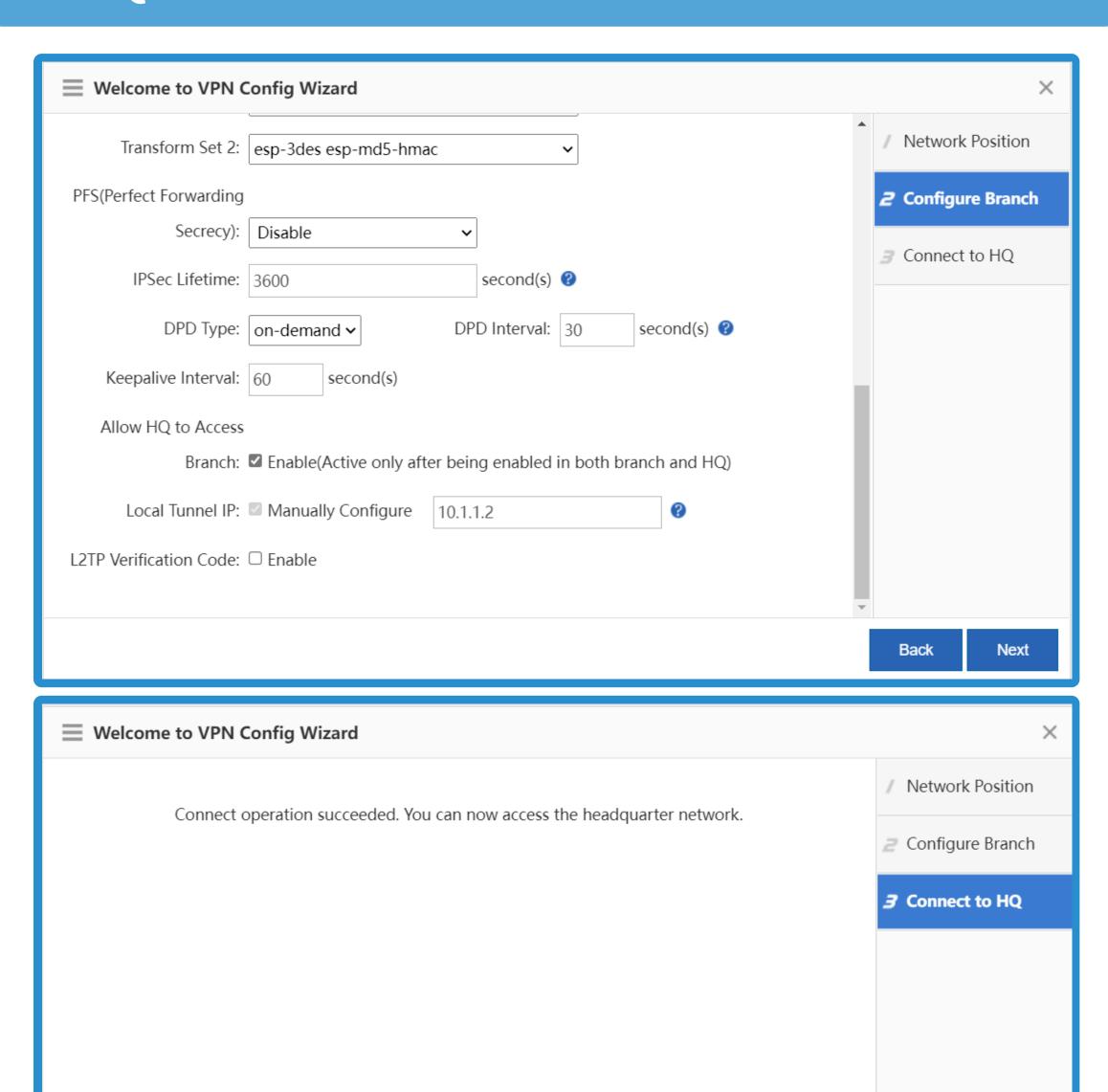


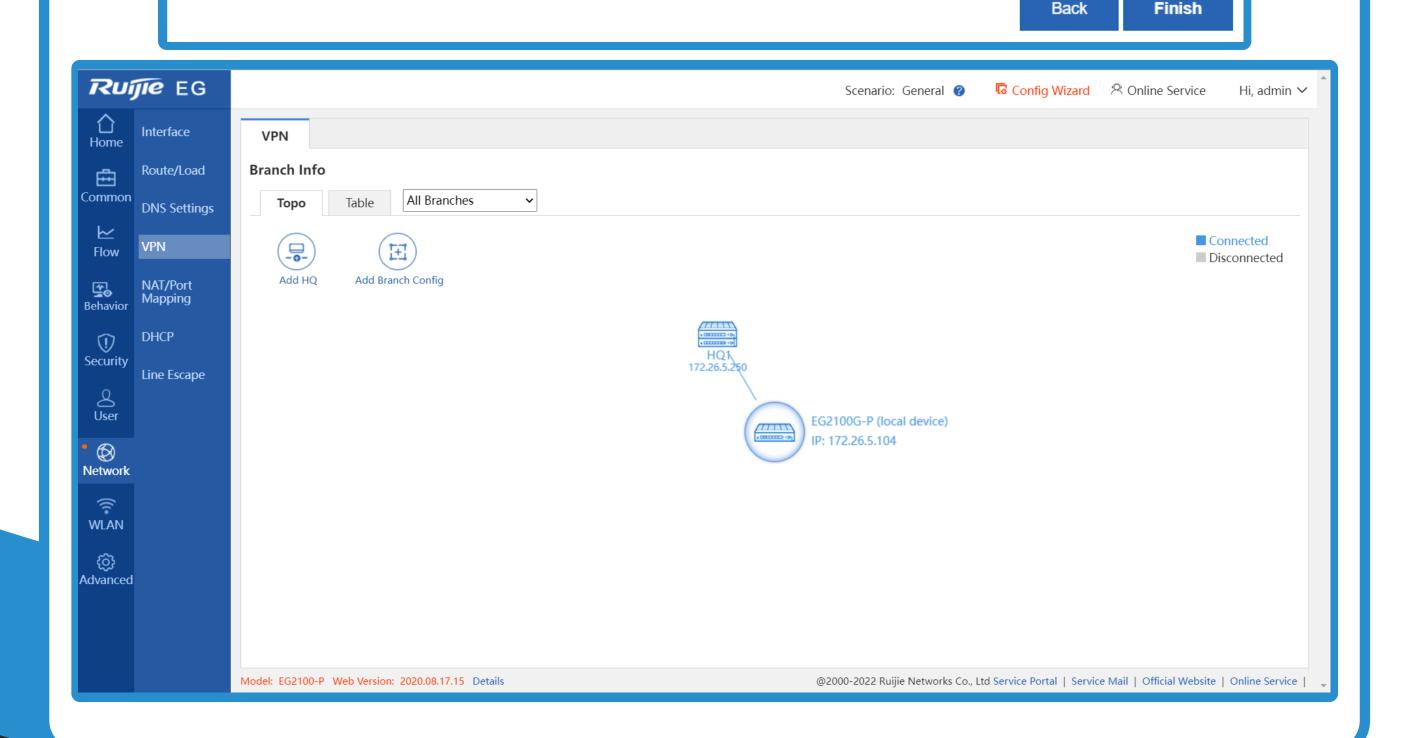
You can enable the function of "Allow HQ to Access Branch" to make the Branch can be accessed by the HQ. At last, Tunnel IP should also be configured and its IP address should be consistent with the HQ.



Notice

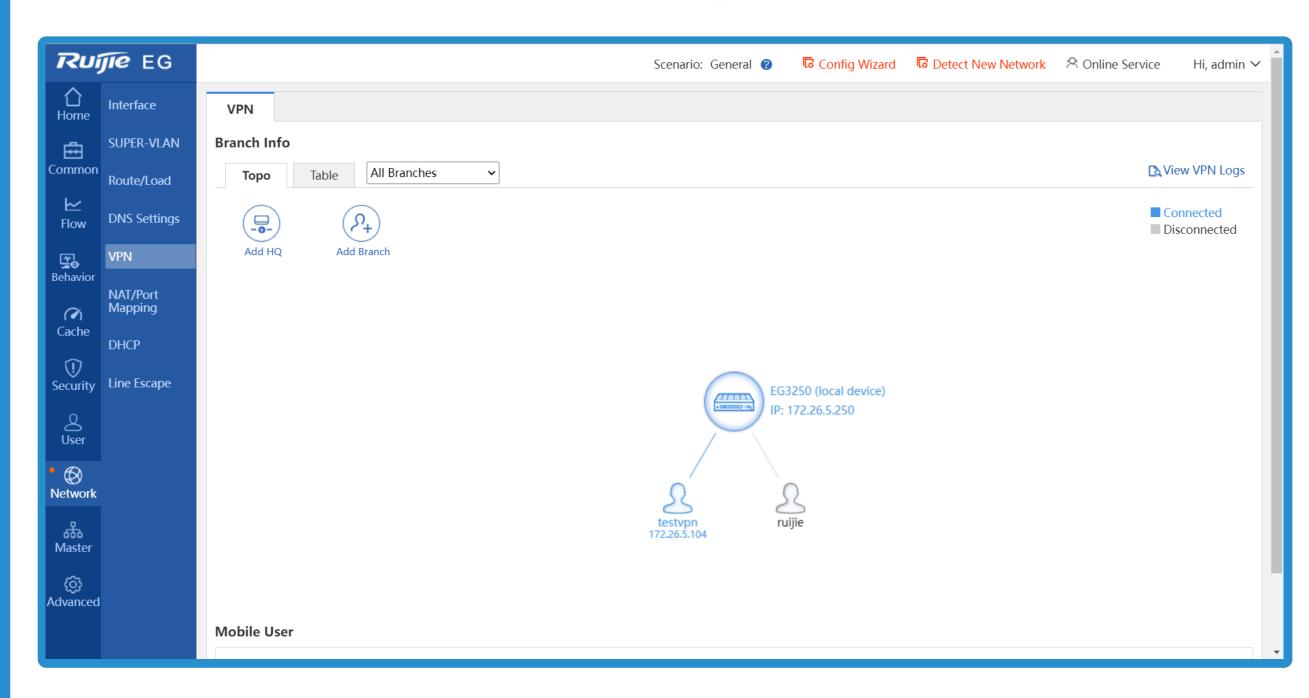
The function of "Allow HQ to Access Branch function" can only be activated after this function being enabled in both Branch and HQ.





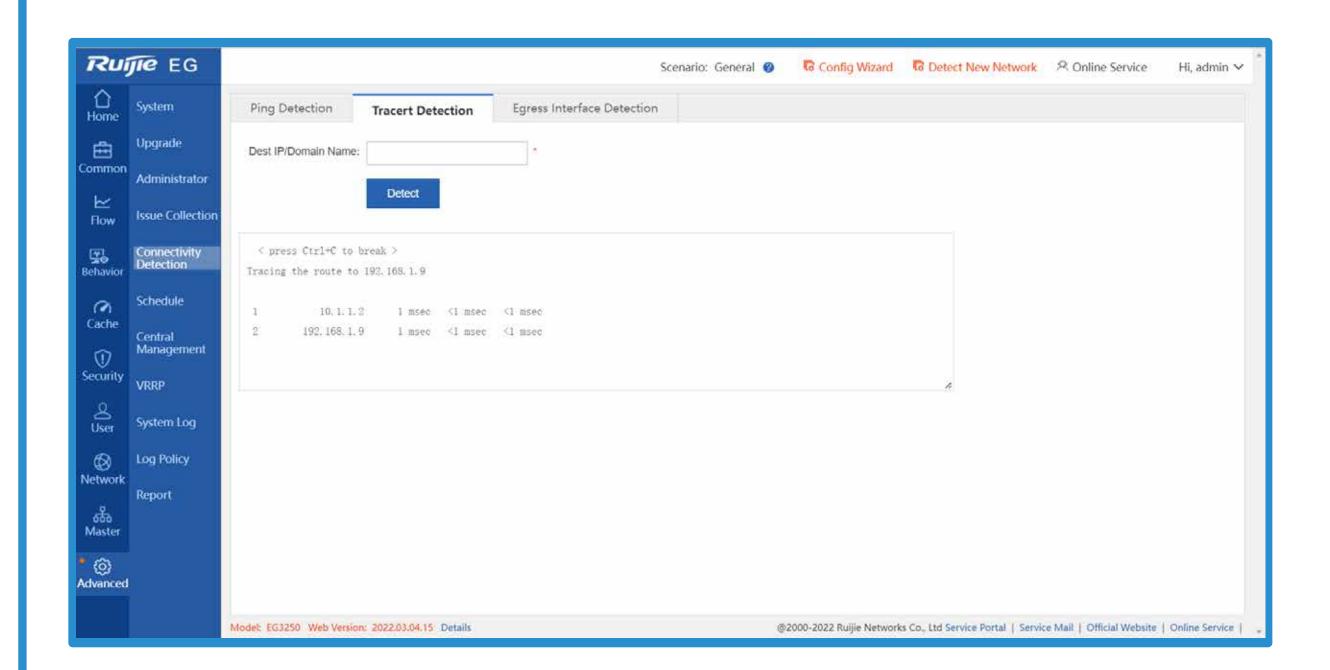


Check the connection status in HQ:



V. Verify the connectivity

1 HQ tracert to Branch:

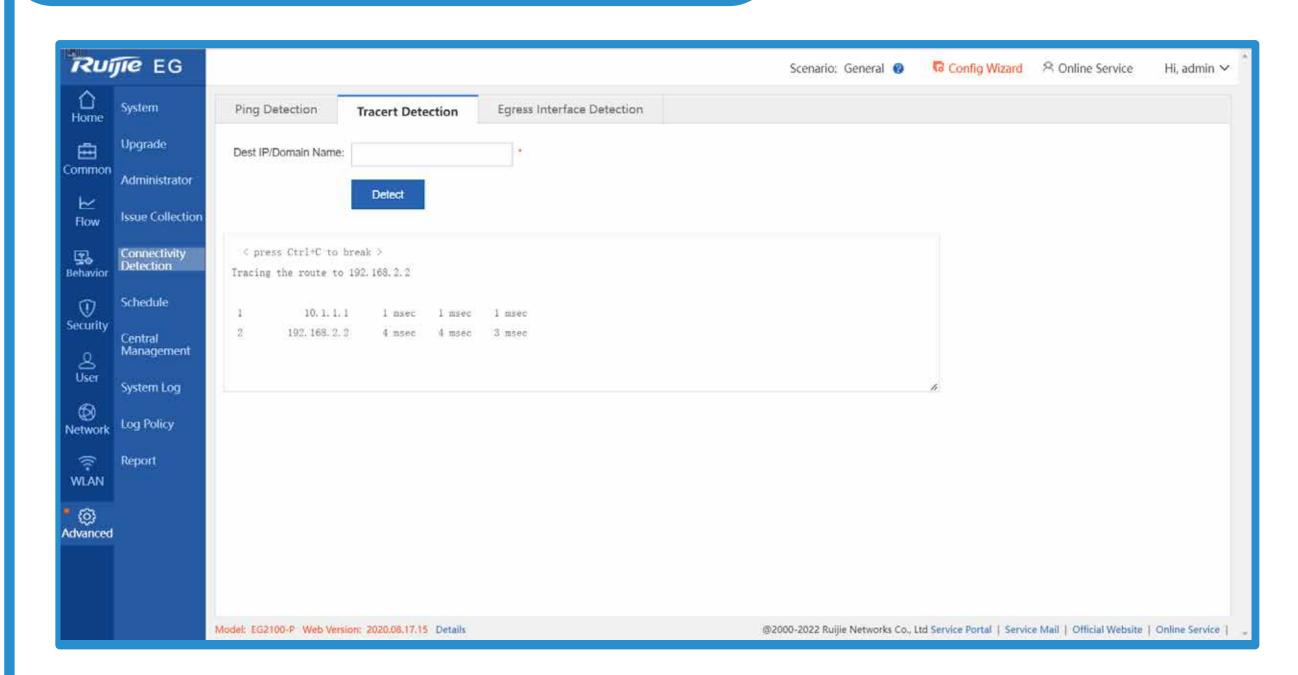


The HQ accesses Branch network 192.168.1.0/24 through L2TP over IPSec VPN tunnel 10.1.1.0/24

2 Branch tracert to HQ:



V. Verify the connectivity



The Branch accesses HQ Intranet 192.168.2.0/24 through L2TP over IPSec VPN tunnel 10.1.1.0/24.

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