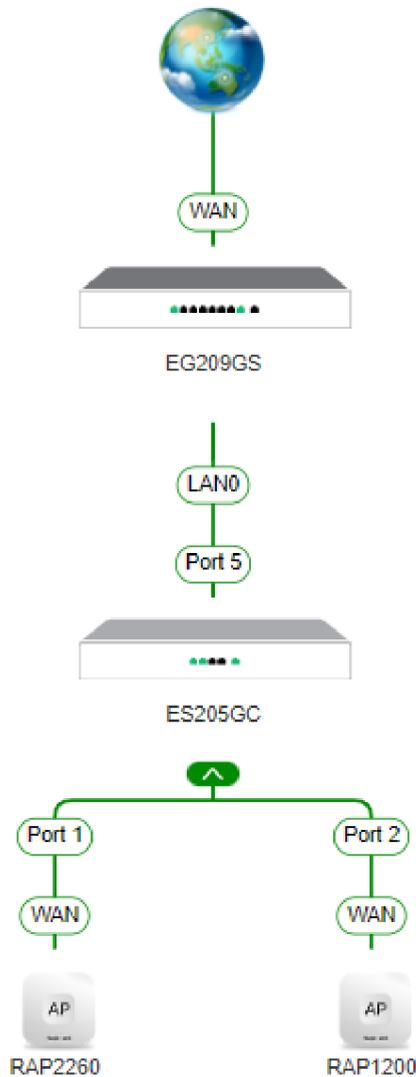


A simple way to deliver an ideal office network in Cloud APP

I. Applicable Scenario

Traditional office networks require hardware servers, authentication database software, and a professional engineer team to manage them, which leads to high costs and increases the complexity of network. This document introduces a simple way to establish an ideal office network with security authentication, APP block, and VPN feature.

II. Network Topology



Vlan Setting:

Vlan 1: 192.168.110.1/24 ----Boss

Vlan 111: 192.168.111.1/24 ----Guest

Vlan 112: 192.168.112.1/24 ----Staff

Note:

Before starting the configurations, please make sure that all devices are online on Ruijie Cloud, the type of project is 'Office' and all VLANs associated with the configuration have been created successfully. In this document, we created Boss VLAN, Guest VLAN and Staff VLAN respectively for testing in this office network.

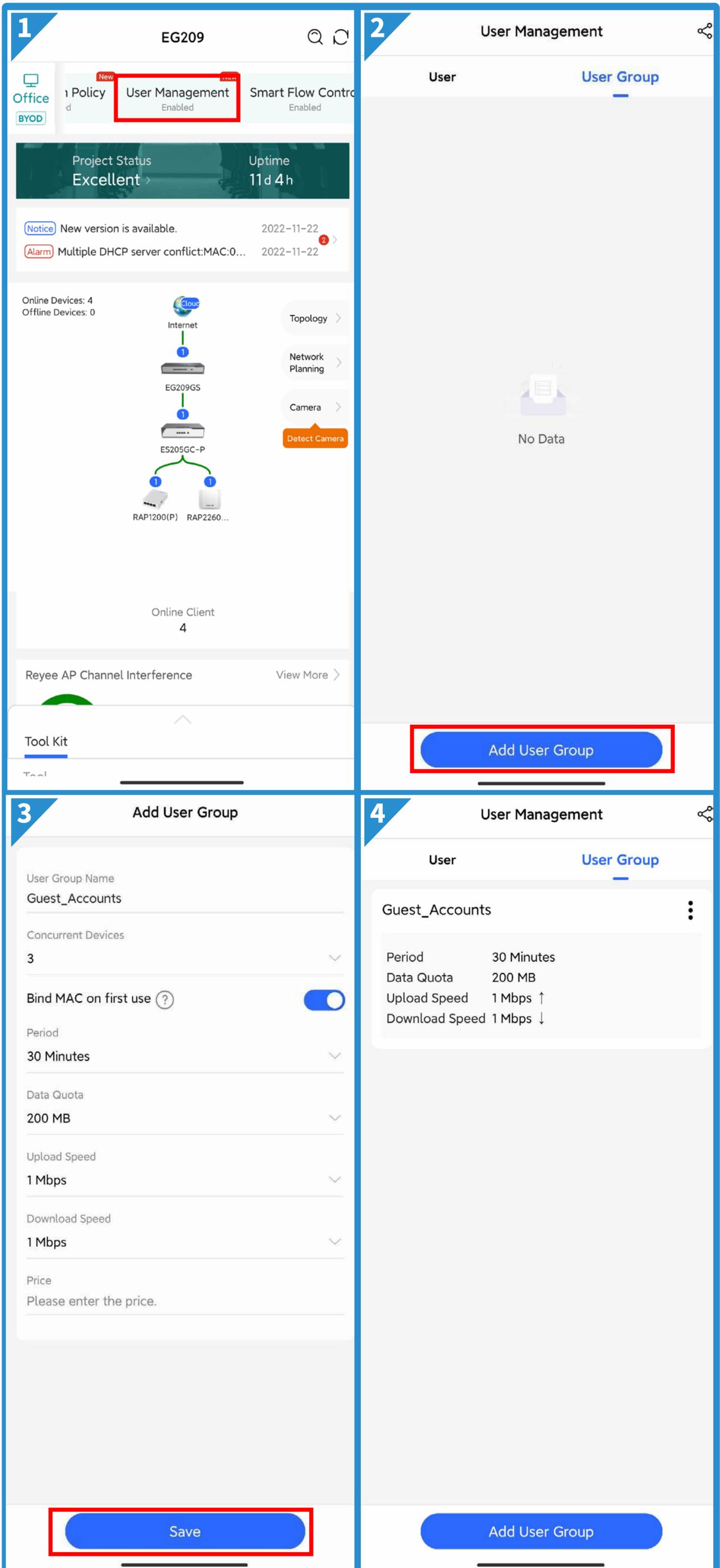
III. Configure Steps

- 1 Configure a captive portal authentication for guest network.
- 2 Block the staff network to access to Apps.
- 3 Configure VPN on the device for client remote login.

IV. Configure Process for Portal Authentication

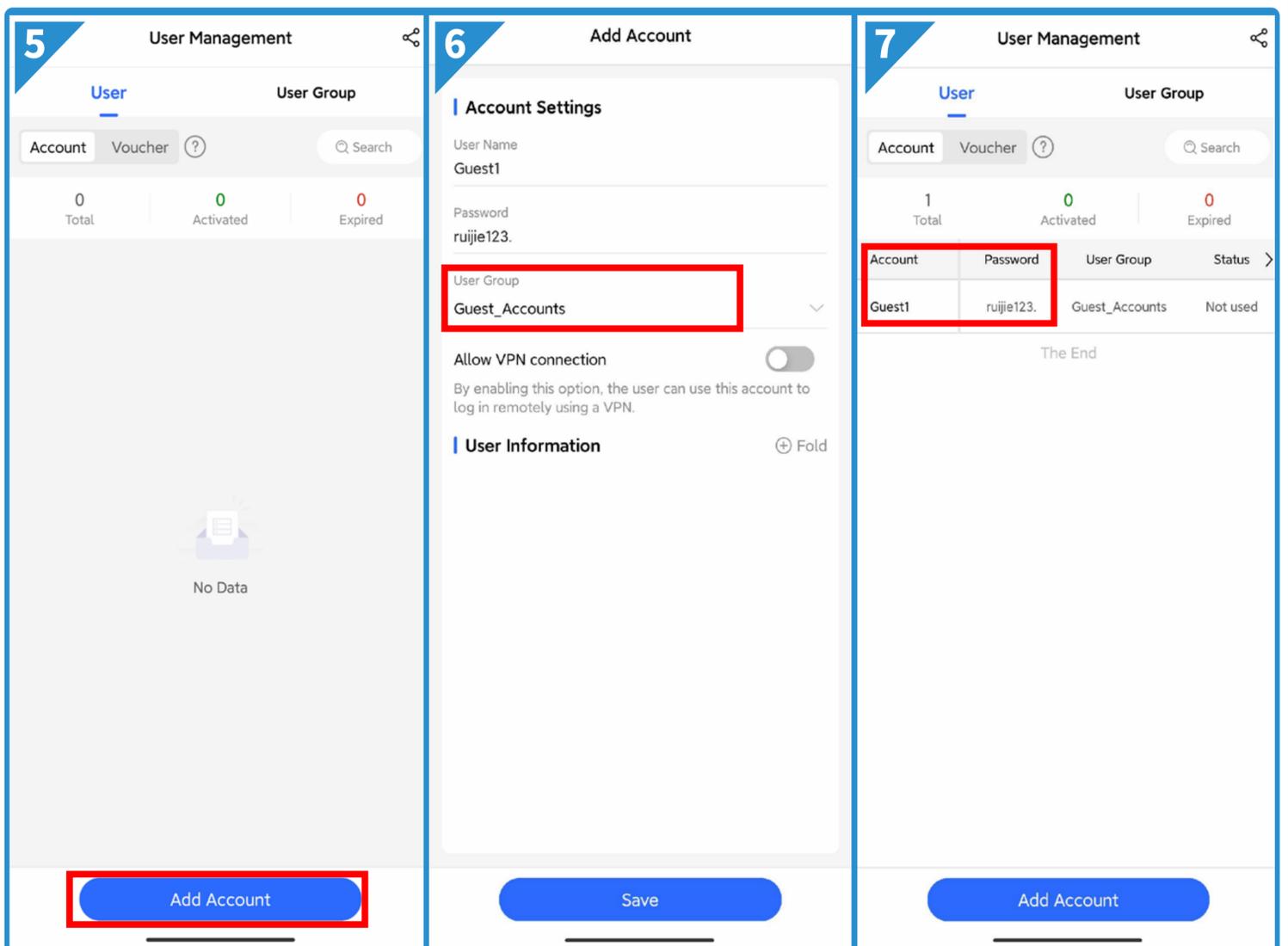
- 1 Create the authenticated accounts for guest by using 'User Management' feature.

As shown in Figure 1-4, click the 'User Management' button on the project home page to create a new user group at first. You can customize the attributes of the user group, including the user group name, concurrent devices, Period, the Data Quota, etc.



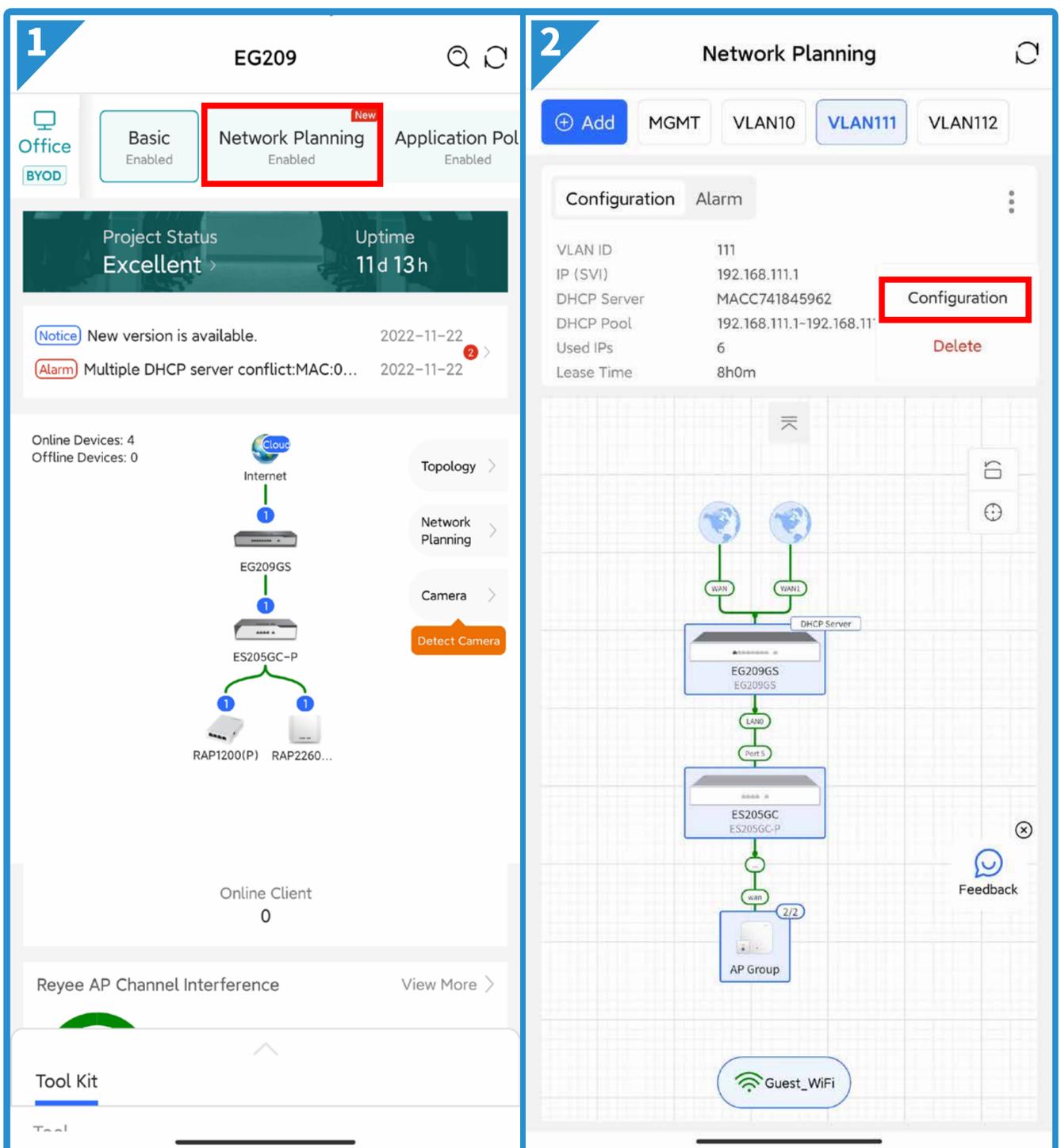
IV. Configure Process for Portal Authentication

As shown in the Figure 5-7, after creating a user group, you need to create an account for authentication. Taking account as an example, after selecting the corresponding user group, the created account will inherit all the attributes of the user group. The username of the created test account is 'Guest1', password is 'ruijie123.'

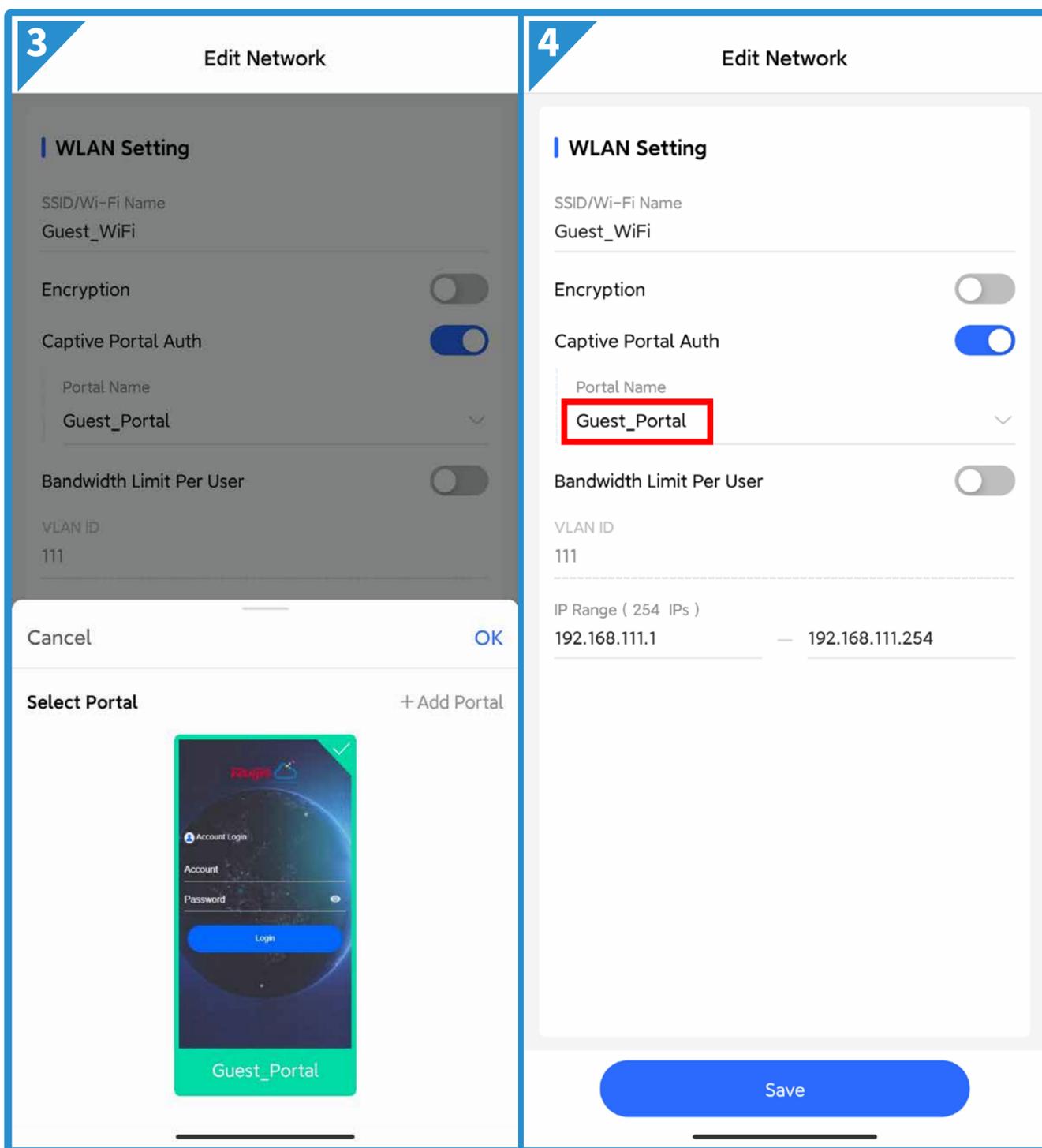


2 Create an account authentication portal for the guest network.

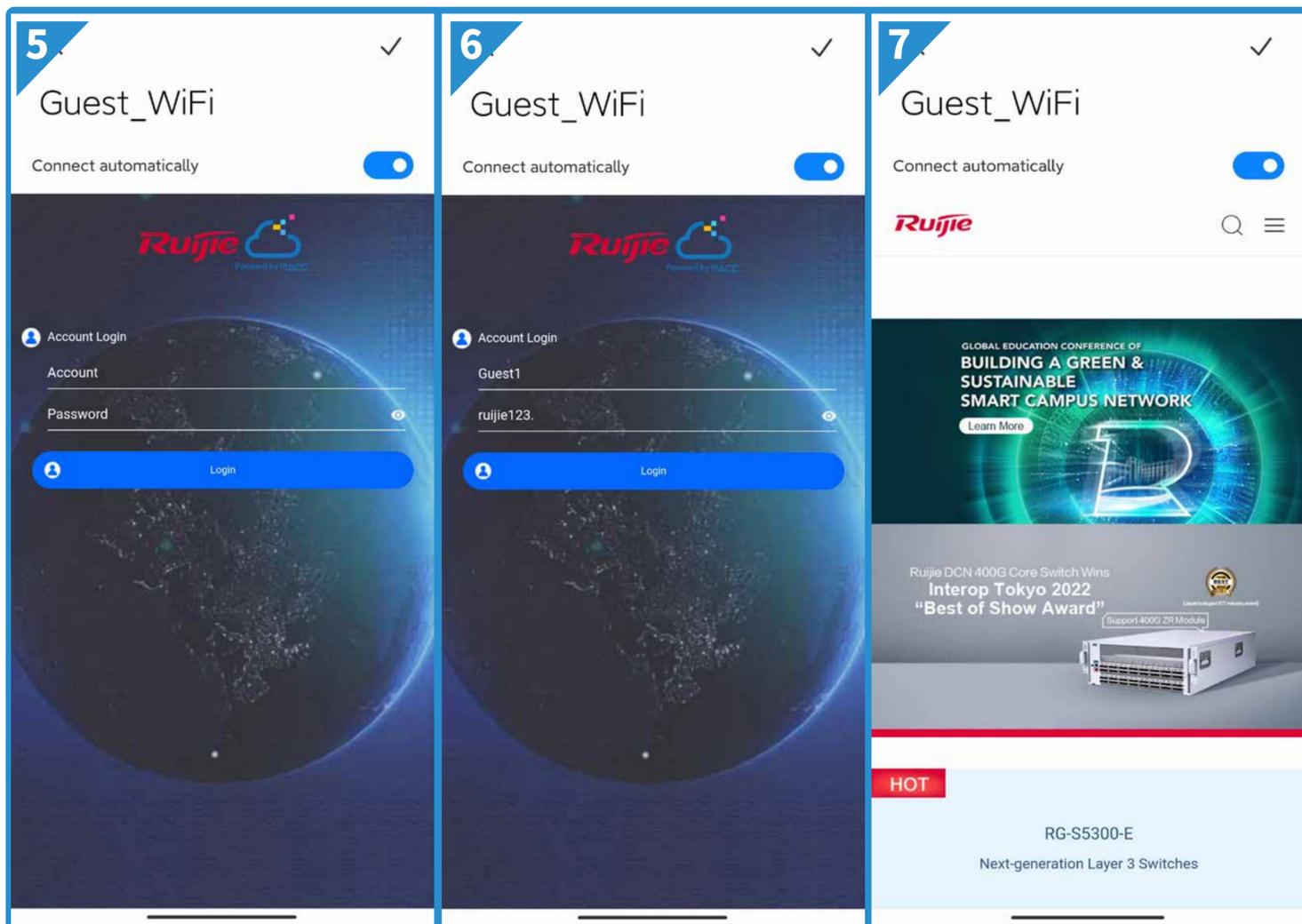
As shown in Figure 1-4, click the 'Network Planning' button on the project home page to configure the guest network. Select the guest VLAN 111 to enter the configuration interface. You can customize the name and encryption method of the guest WiFi. You need to enable the 'Captive portal Auth' feature and select the correct portal template so that the clients can authenticate. And then the clients in the authentication IP range will be authenticated.



IV. Configure Process for Portal Authentication



As shown in Figure 5-7, the guest has connected to this WiFi and obtained the IP address of VLAN 111. The pre-configured portal template has displayed on your phone. After entering the correct account and password, the guest is able to access the network.



V. Configuration Process for APP Block

As shown in Figure 1-4, click the "Application Policy" button on the project home page to enter the configuration interface. Add a new policy and select the staff IP segment, then select the APPs which need to be blocked. At the same time, you can also choose the policy type and customize when the policy takes effect. In this test, staffs will be blocked to access these APPs during the working days.

V. Configuration Process for APP Block

1 EG209

Office BYOD, Network Planning Enabled, **Application Policy Enabled**, User Management Enabled

Project Status: Excellent, Uptime: 11d 5h

Online Devices: 4, Offline Devices: 0

Internet, EG209GS, ES205GC-P, RAP1200(P), RAP2260...

Online Client: 0

Reyee AP Channel Interference

Tool Kit

2 Application Policy

No Data

Add Policy

3 Application Policy

Policy Name: Staff_Block

Enable:

User: 1 Selected (192.168.111.1-192.168.111.254)

Application: 131 Selected (LOL, PUBG, ArenaofValor, Dota2, WOW, Di...)

Policy Type: BLOCK

Time: Weekdays

Add Policy

4 Application Policy

Policy Name: Staff_Block

Enable:

User: 1 Selected (192.168.111.1-192.168.111.254)

Application: 131 Selected (LOL, PUBG, ArenaofValor, Dota2, WOW, Di...)

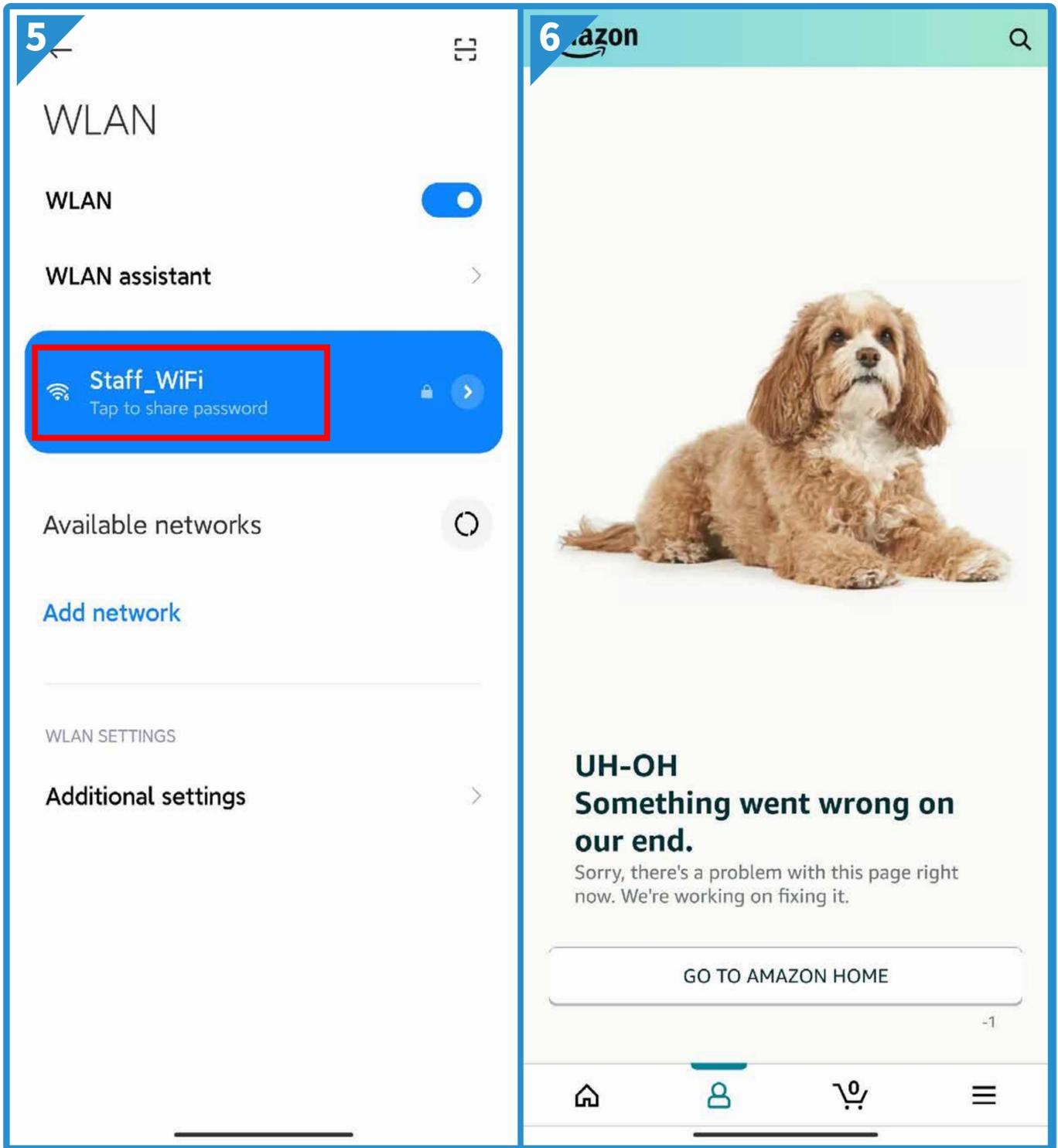
Cancel OK

Search: 131 APPs

- Communication
- Video**
- Shopping**
- Play**
- Databank
- P2PSoftware
- AppStore
- Payment

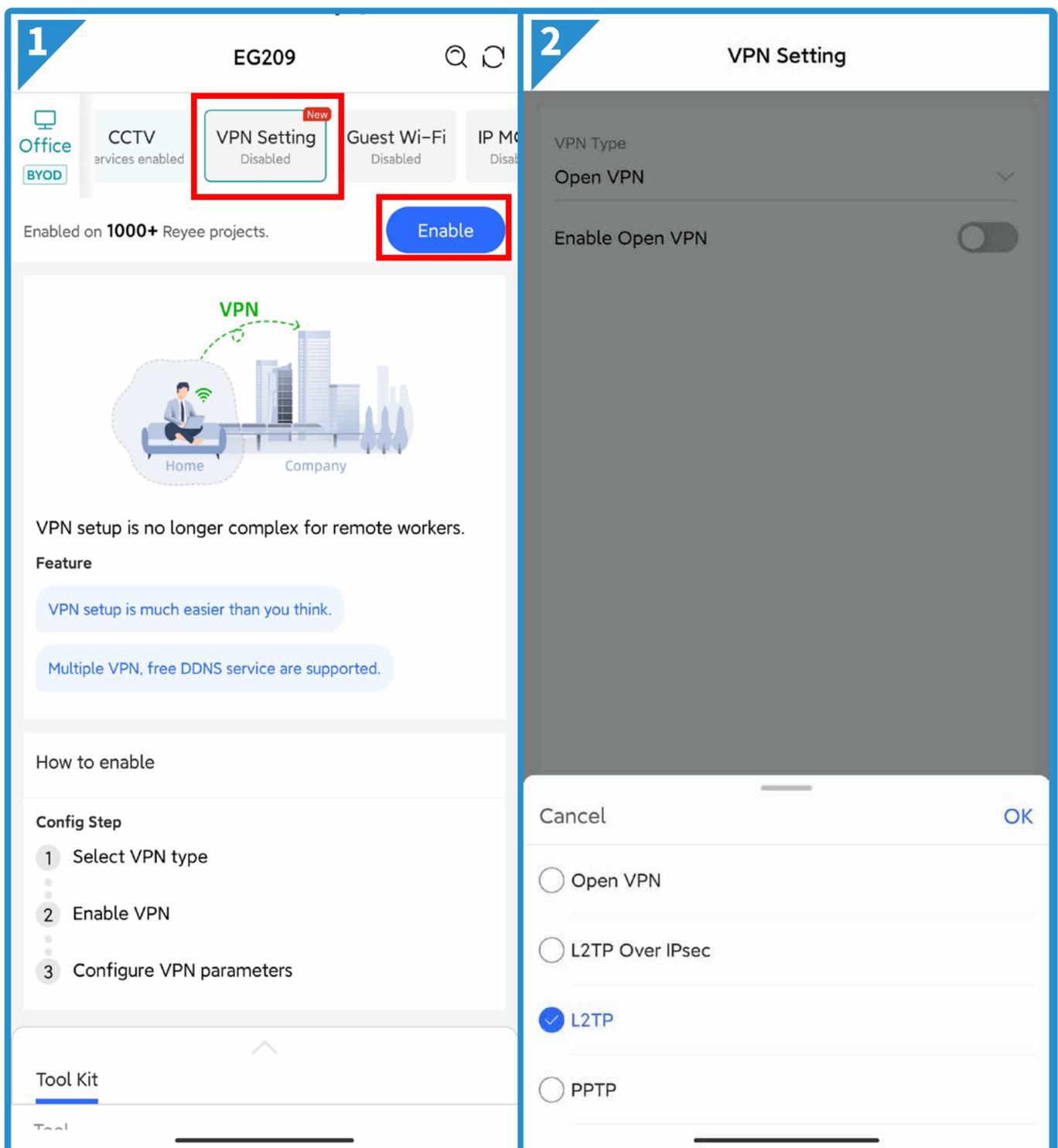
As shown in the following test results, when the staffs connect to VLAN 112, they cannot access to the shopping APPs.

V. Configuration Process for APP Block



VI. Configuration Process for VPN

As shown in Figure 1-4, click the "VPN Settings" button on the project home page to enter the configuration interface. In this page, you can select four types of VPN and customize the IP address range.



VI. Configuration Process for VPN

3 VPN Setting

VPN Type
L2TP

Enable L2TP

Server IP Ruijie DDNS ?

172.26.5.175

Local Tunnel IP
10.70.17.1

IP Pool (253 IPs) ?

10.70.17.2 — 10.70.17.254

Save

4 VPN Setting ?

VPN Server

L2TP >

Server IP/DDNS 172.26.5.175

IP Pool 10.70.17.2-10.70.17.254

VPN Online Users >

Then, you need to log in the device eWeb page to create the VPN clients. In this test, add a user with the username ‘Boss’ and the password ‘Boss123’. When the ‘Boss’ connects to this network via VPN, you can see it in "VPN Online Users" list.

5 Hostname: EG209GS ? Software Ver: f...
Model: EG209GS MGMT IP: 172.26.5.175 ?
MAC: ...

Port Status
VLAN Info
Port
More

Overview Network Security Behavior **VPN** Advanced Diagnostics System

VPN Clients ?

IPSec
L2TP
PPTP
OpenVPN
VPN Clients

VPN Client List

Up to 100 entries can be added.

Username Password Service Type Network Mode Client Subnet Status Action

No Data

Total 0

6 User

Service Type ALL

* Username Boss

* Password Boss123

Network Mode PC to Router

Status

Cancel **OK**

7 VPN Setting ?

VPN Server

L2TP >

Server IP/DDNS 172.26.5.175

IP Pool 10.70.17.2-10.70.17.254

VPN Online Users >

8 VPN Online Users ?

Search Online (1)

User Name	Virtual User IP	User IP	Action
Boss	10.70.17.2	172.26.11.222	Remove

Official Website >>> <https://www.ruijienetworks.com>

Community >>> <https://community.ruijienetworks.com>

Facebook >>> Ruijie Tech Support

YouTube >>> Ruijie Networks



Official Website



Community



Facebook



YouTube Training