VSM Quick Guide

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VSM Type: VSM600 ~ VSM7000

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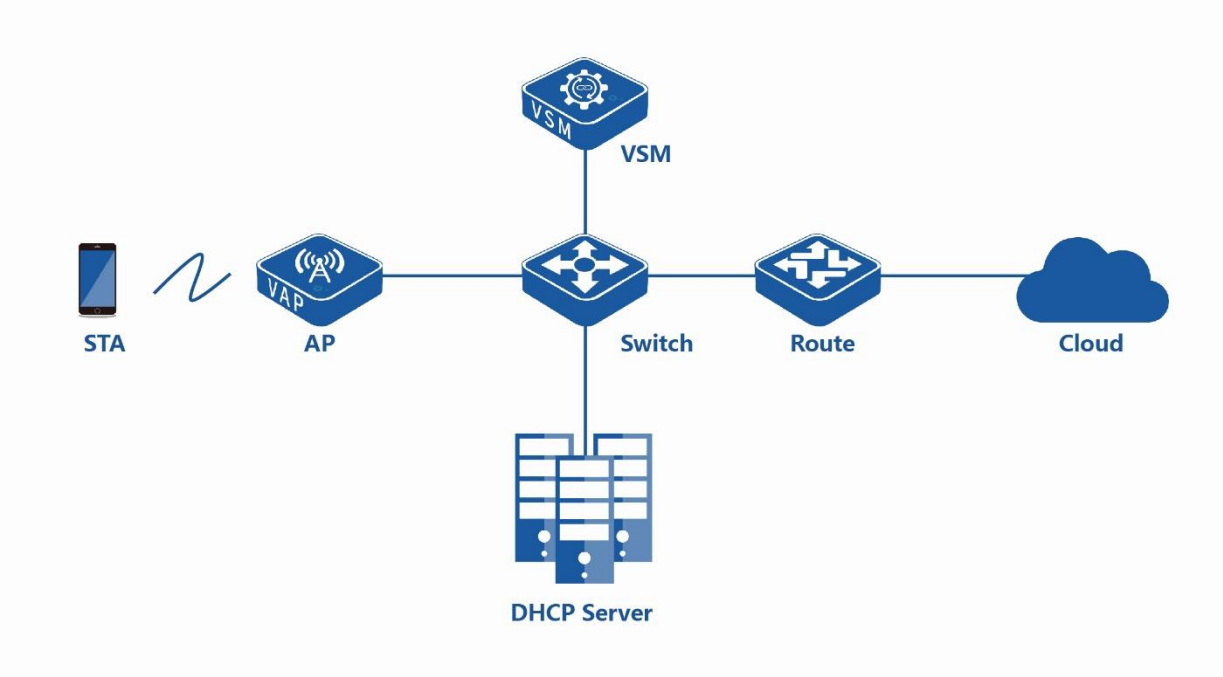
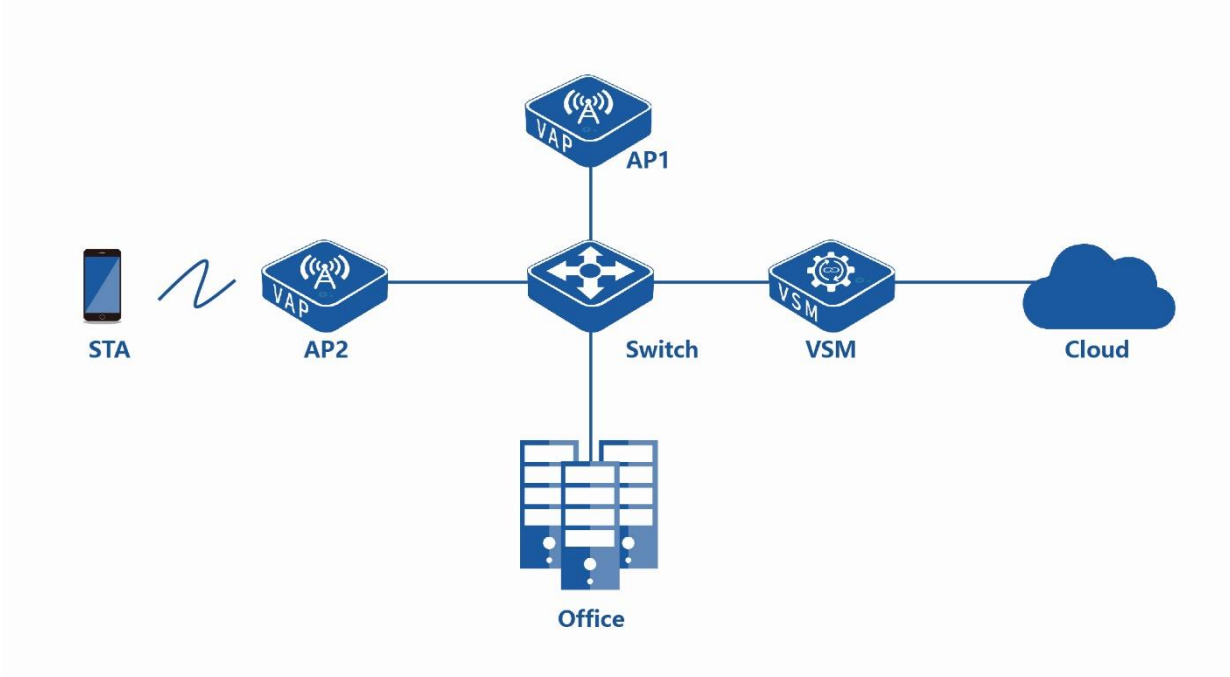
1. Topology

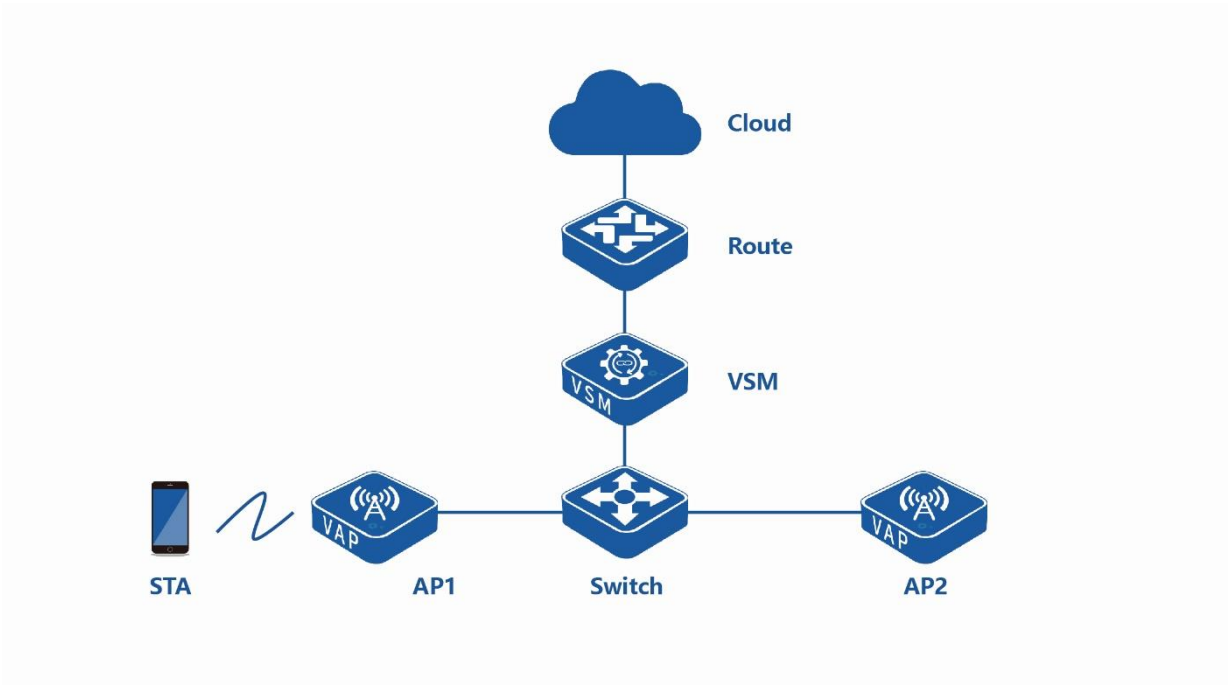
1.1 VSM bypass



1.2 VSM gateway



1.3 VSM bridge



2. VSM configuration

2.1 Ready

Name	Num
PC	1
Console cable	1
COM to USB	1
Cable	1
Xshell/ SecureCRT	1

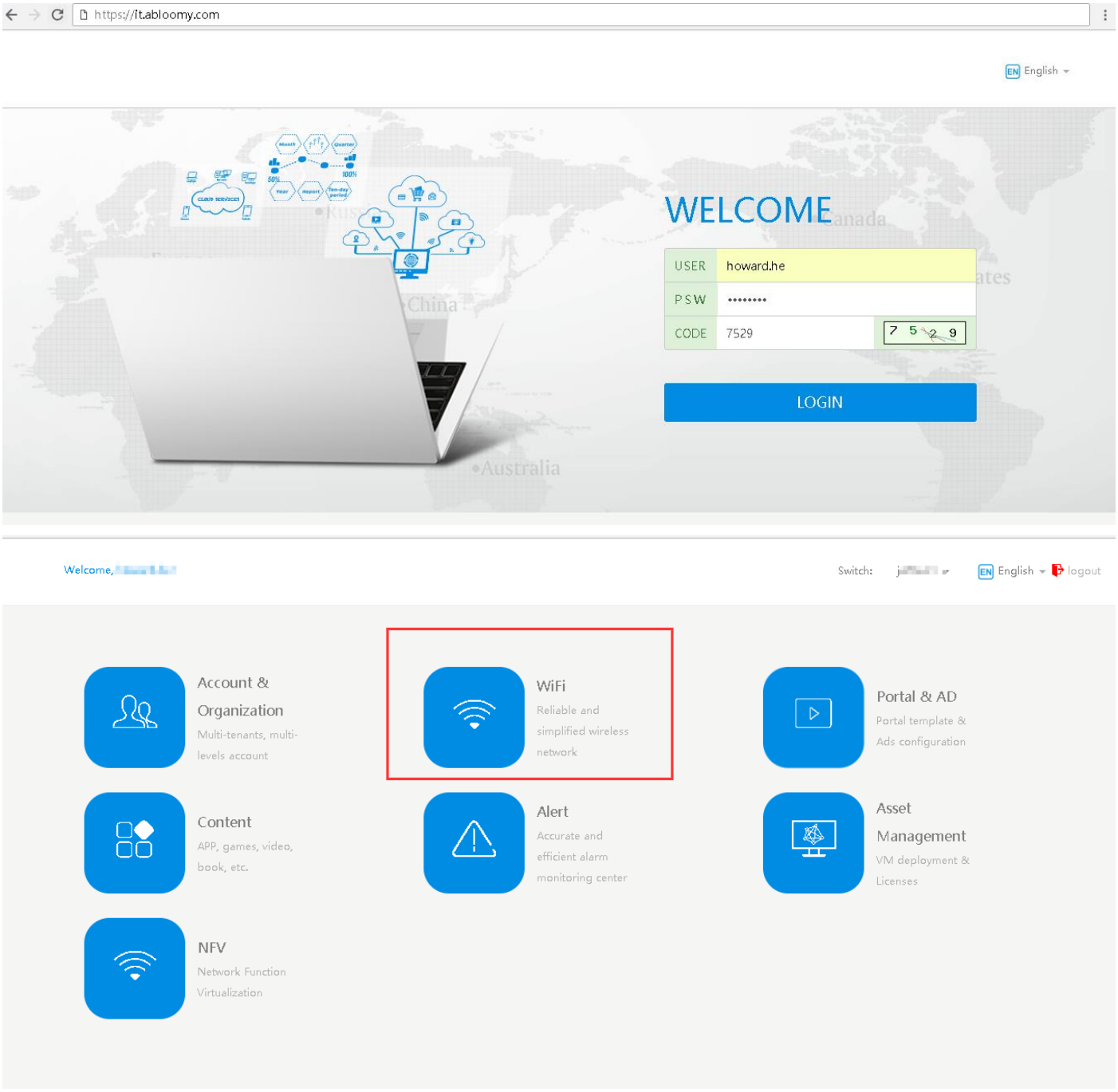
2.2 Add VSM to Cloud Platform (ACS/CSP)

2.2.1 Login Cloud Platform (ACS/CSP)

For ACS:

Login to https://it.abloomy.com (ACS domin or IP)

Click on WiFi button

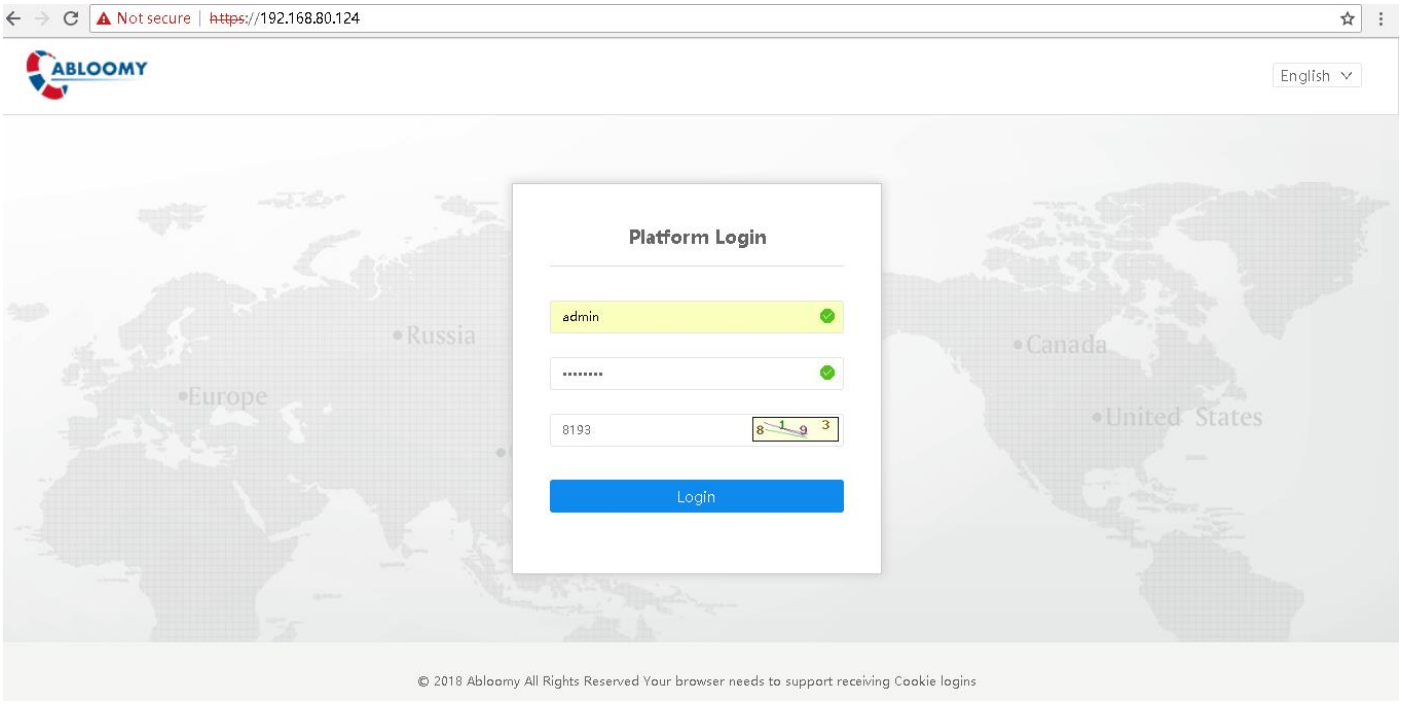


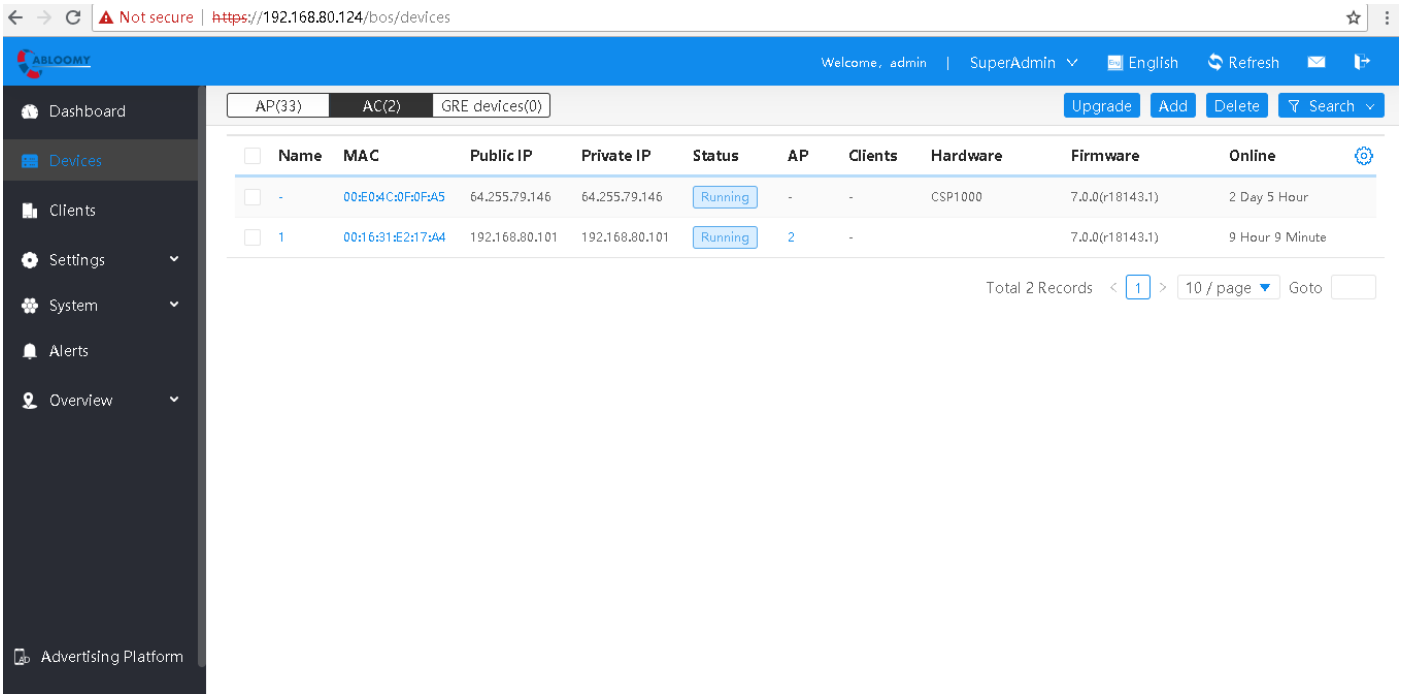
Note: https://it.abloomy.com is an unique ACS address

For CSP:

Login to https://XX.XX.XX.XX (CSP IP or domin)

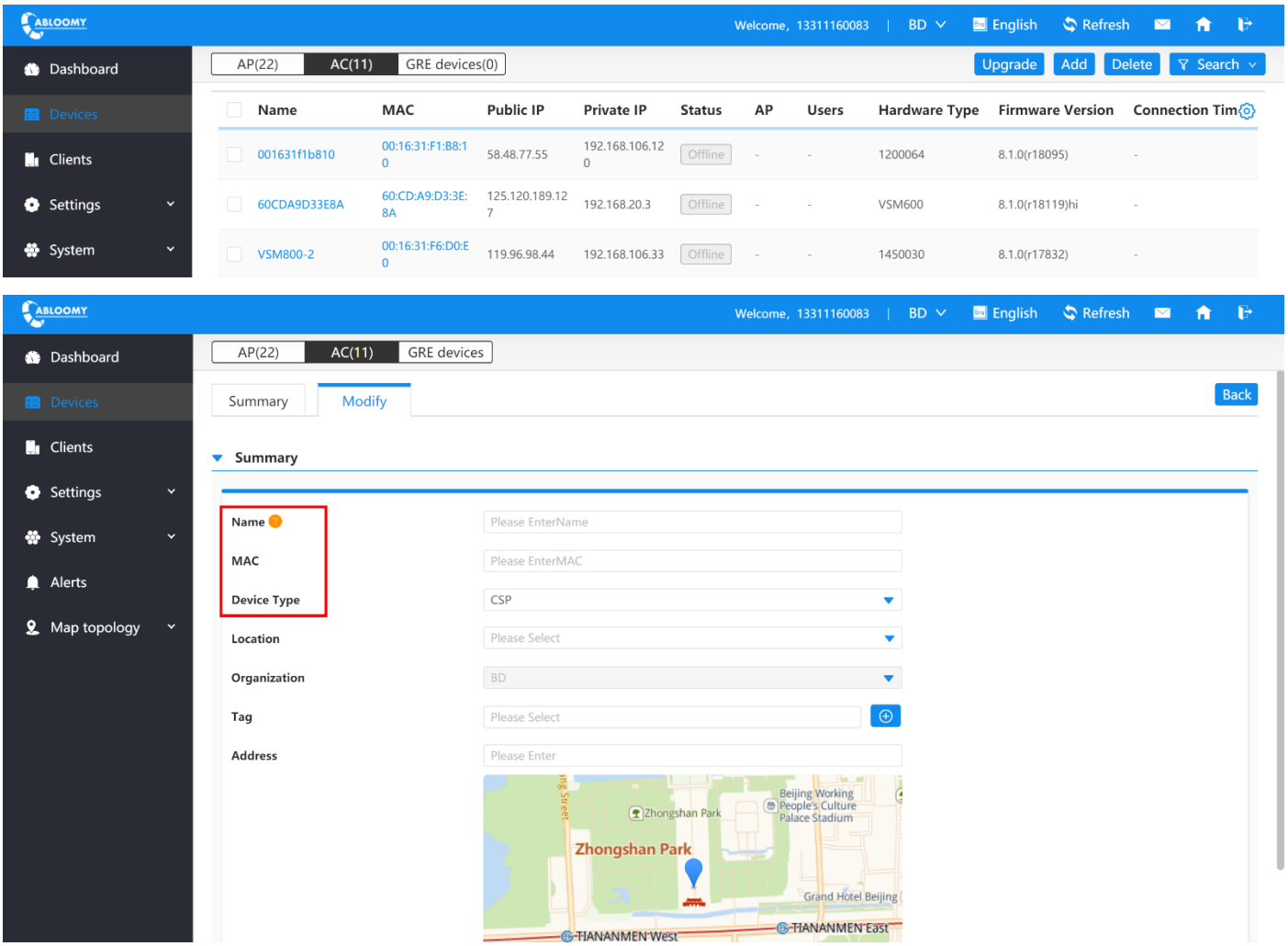
Click on WiFi button





2.2.1 Add VSM

Click Devices—AC—Add



Name, MAC and Device Type is required, fill in and save.

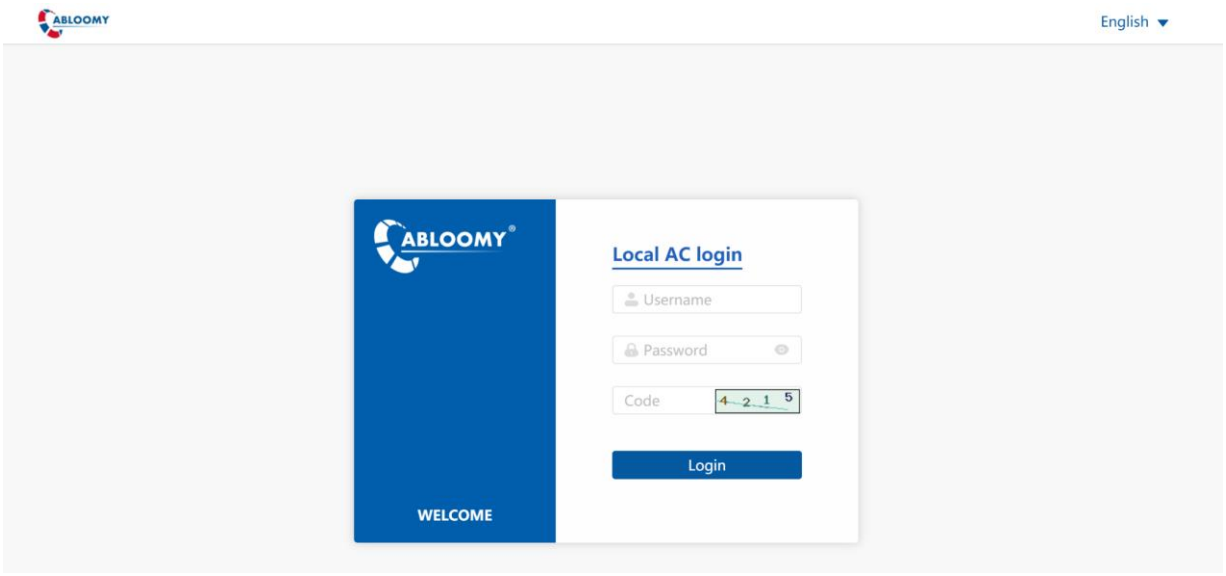
2.3 Config VSM

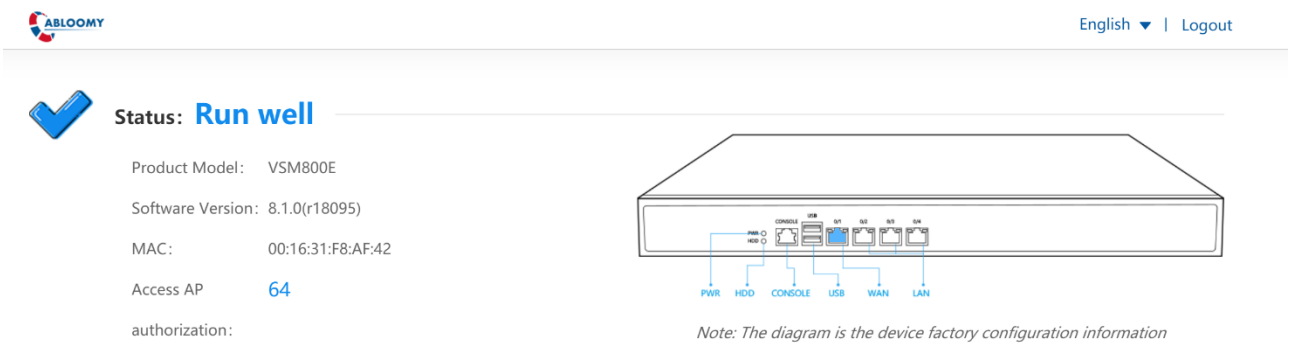
We have two way to config VSM:

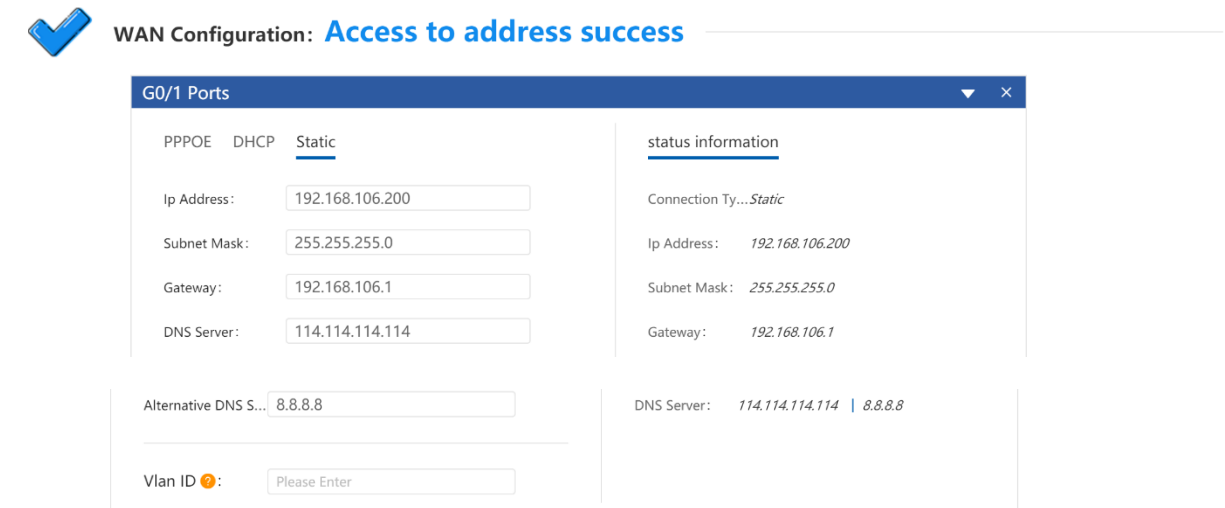
1. Web UI
2. CLI

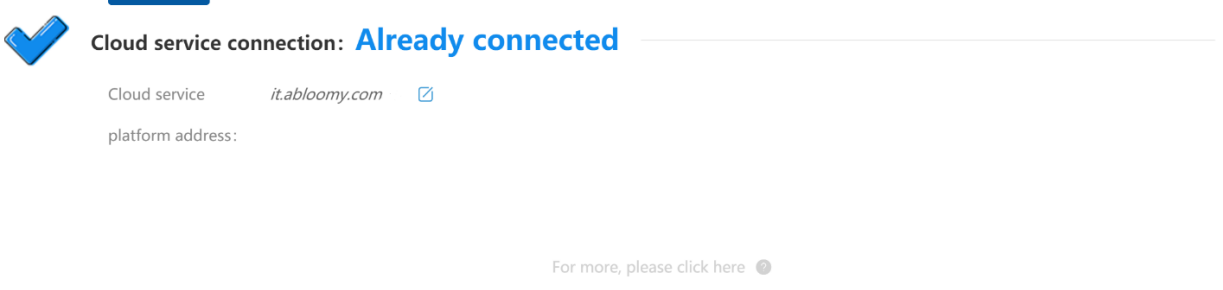
2.3.1 Web UI config

VSM port 0/1 is WAN default, the rest port is LAN. PC can connect LAN port and get IP address by DHCP.
Login in address: https://192.168.186.1/wan
Username: admin
Password: admin.01
Note: We suggest Chrome & Firefox web browser.


ABLOOMY
English
ABLOOMY
Local AC login
Username
Password
Code
4 2 1 5
Login
WELCOME


ABLOOMY
English | Logout
Status: Run well
Product Model: VSM800E
Software Version: 8.1.0(r18095)
MAC: 00:16:31:F8:AF:42
Access AP authorization: 64
Interface State: Already connected
PWR HDD CONSOLE USB WAN LAN
Note: The diagram is the device factory configuration information


WAN Configuration: Access to address success
G0/1 Ports
PPPOE DHCP Static
Ip Address: 192.168.106.200
Subnet Mask: 255.255.255.0
Gateway: 192.168.106.1
DNS Server: 114.114.114.114
status information
Connection Ty... Static
Ip Address: 192.168.106.200
Subnet Mask: 255.255.255.0
Gateway: 192.168.106.1
Alternative DNS S... 8.8.8.8
DNS Server: 114.114.114.114 | 8.8.8.8
Vlan ID: Please Enter
Add Interface
Save

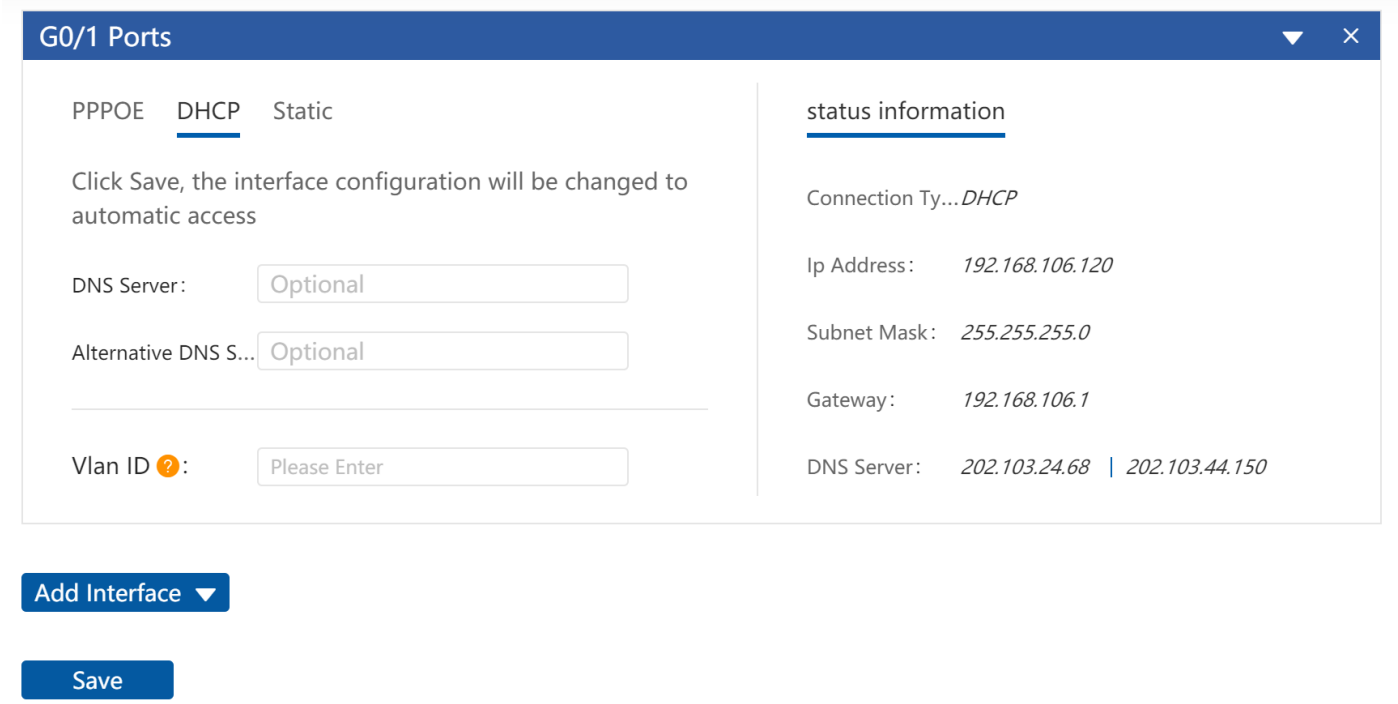

Cloud service connection: Already connected
Cloud service platform address: it.abloomy.com
For more, please click here

2.3.1.1 Config WAN port

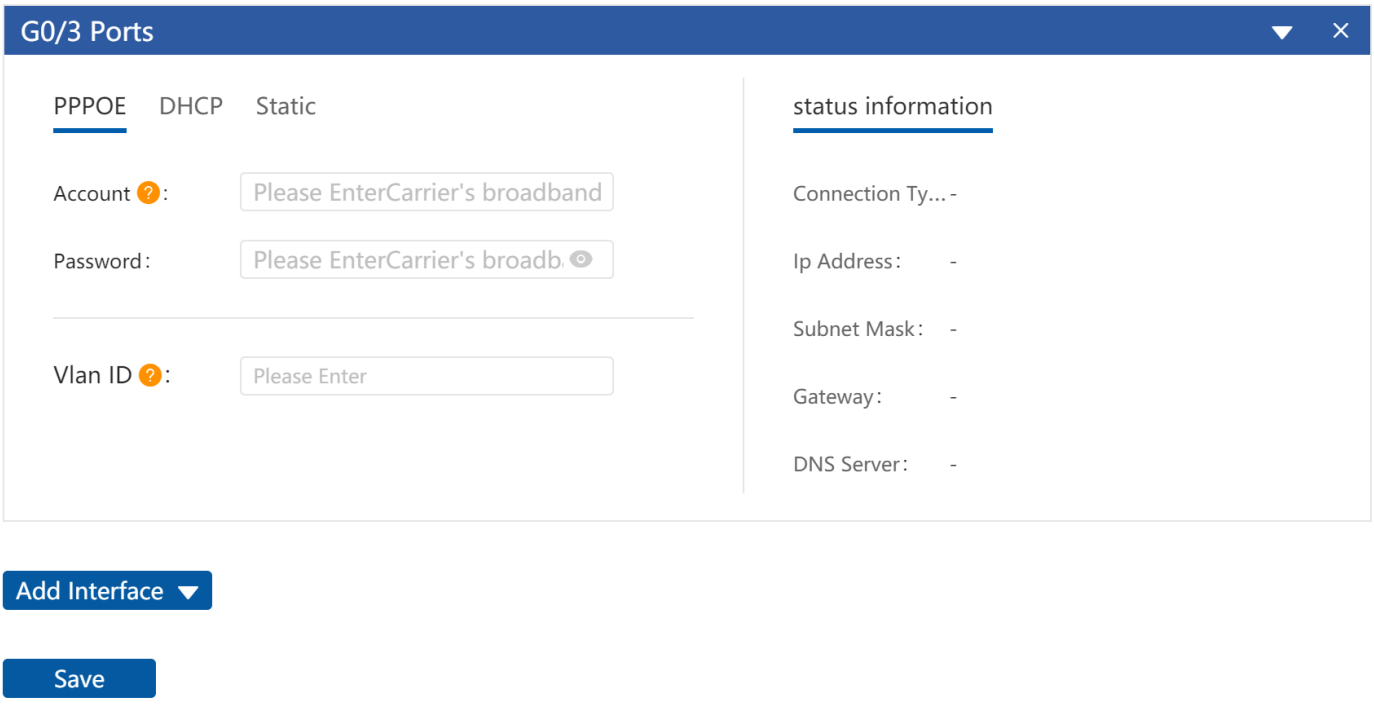
WAN port can select three kinds of mode: PPPOE, DHCP and Static

DHCP (default): When WAN port connect to DHCP network, status information will show the detail.

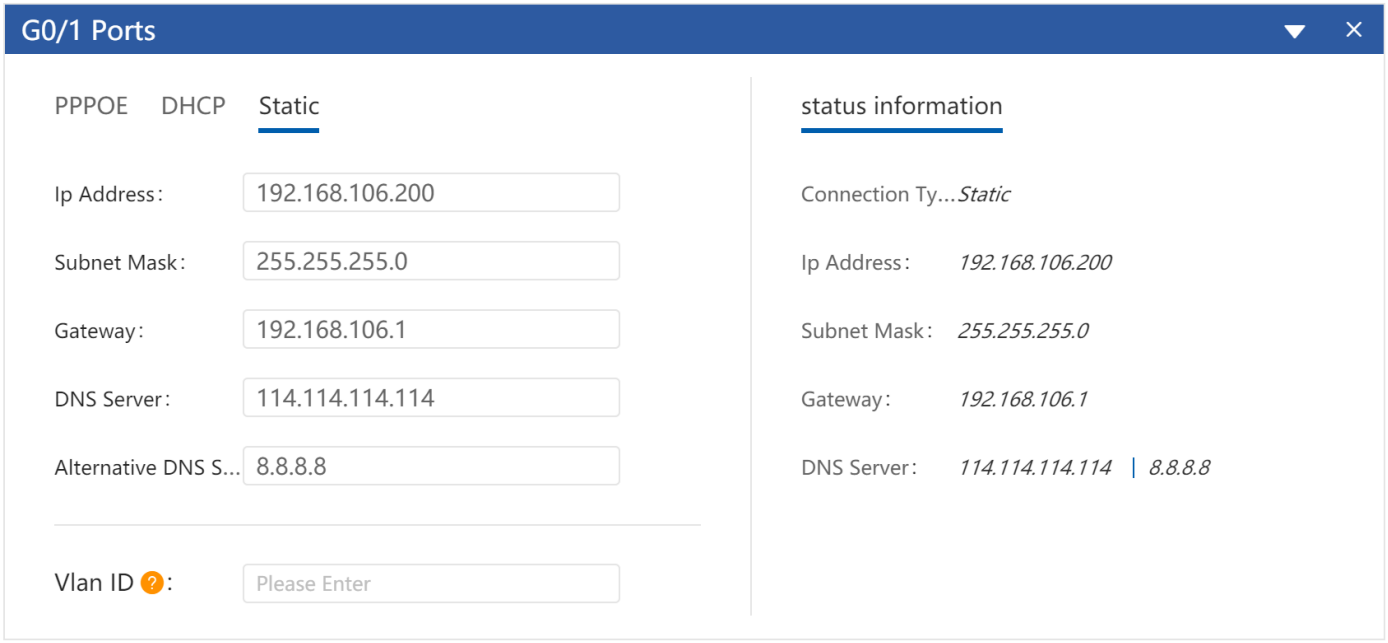
Note: DNS will be obtained automatically from the network or you can config static DNS by youself.



PPPOE: Enter username, password and save. Status information will show the detail if connected successfully.

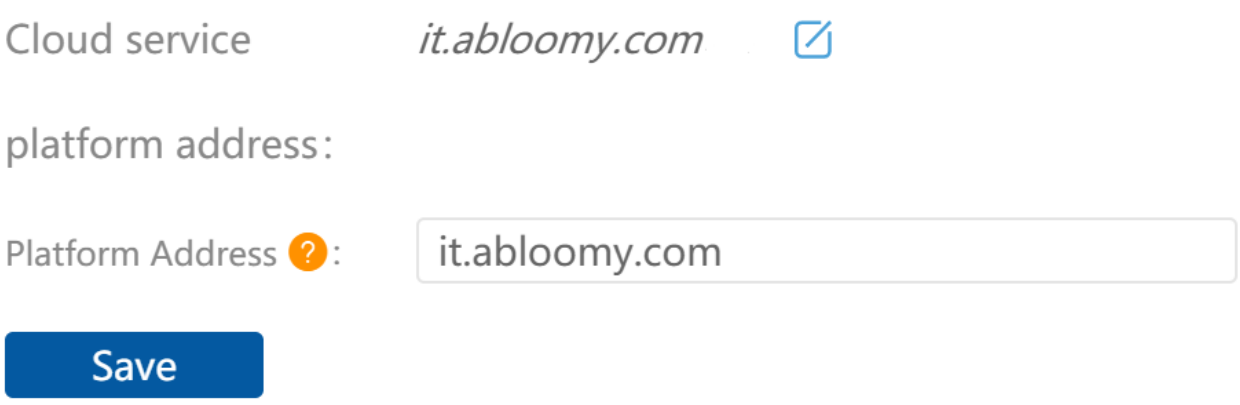


Static: Enter IP, mask, gateway and DNS



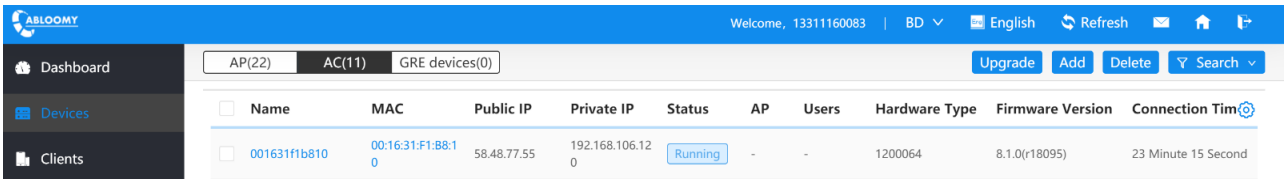
WAN Configuration will display “Access to address success” when WAN connect to the network.

2.3.1.2 Config cloud platform address



After cloud service address is configured, and WAN port is connected to internet, VSM will register to ACS/CSP automatically.

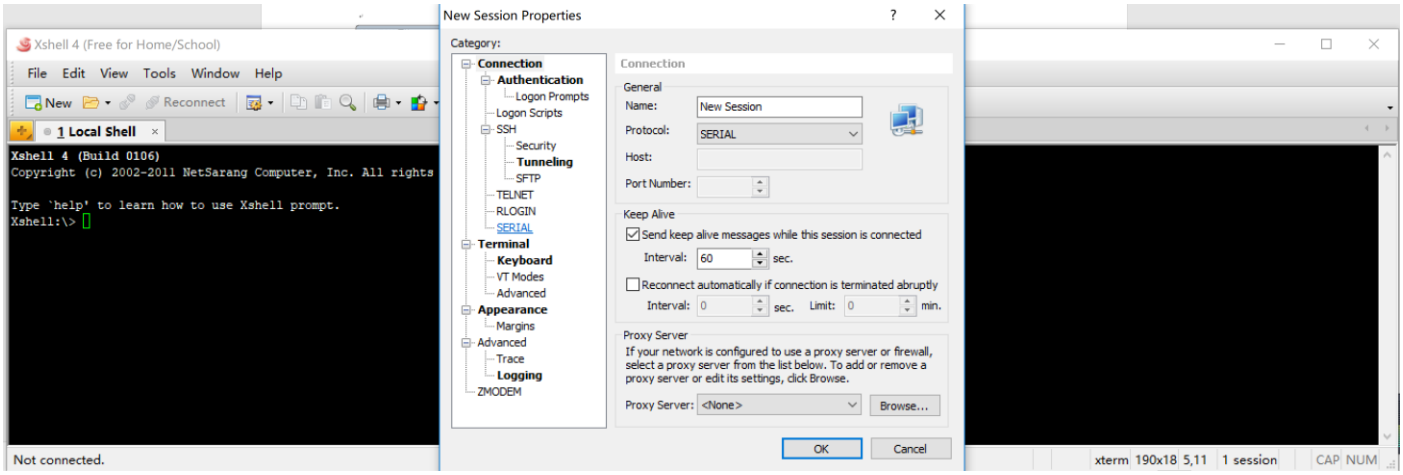
Enter WiFi module, and we can see VSM Status is “Running” under AC.



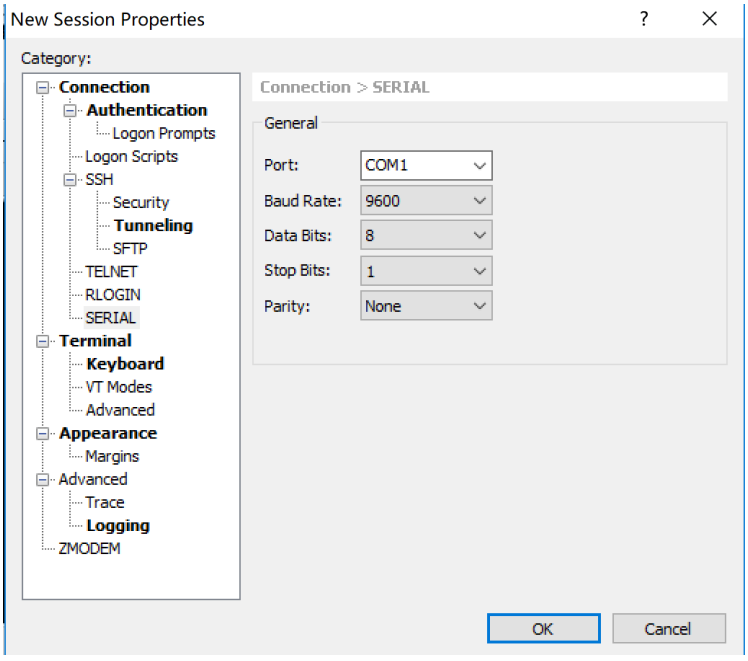
2.3.2 CLI config

Console cable connect to VSM console port and PC NIC.

Open Xshell, click new—connection—Protocol—SERIAL.



Select the right COM port and click ok.



Enter VSM username and password to login.

Username: admin

Password: admin.01

2.3.2.1 Config WAN port

1. WAN get IP by DHCP

   set wan 0/1 dhcp weight 1

```
Abloomy@[192.168.106.158]: set wan 0/1 dhcp weight 1
```

2. WAN get IP by PPPOE

   set wan 0/1 pppoe abloomy 123456 weight 1

   Note: abloomy 123456 is the username password for pppoe.

```
Abloomy@[192.168.106.158]: set wan 0/1 pppoe abloomy 123456 weight 1
```

3. WAN get IP by Static

   set wan 0/1 192.168.106.200/24 gateway 192.168.106.1 weight 1 114.114.114.114 8.8.8.8

```
Abloomy@[192.168.106.158]: set wan 0/1 192.168.106.200/24 gateway 192.168.106.1 weight 1 114.114.114.114 8.8.8.8
```

2.3.2.2 Config cloud platform address

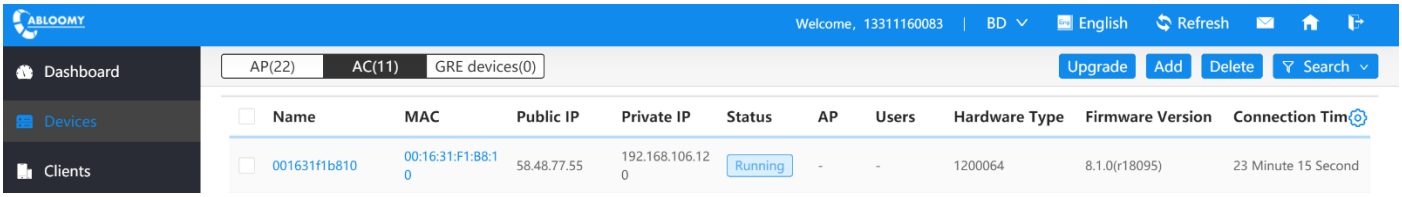
set controlserver it.abloomy.com (ACS IP or domin) or XX.XX.XX.XX (CSP IP or domin)

```
Abloomy@[192.168.106.158]: set controlserver it.abloomy.com.cn
 Set controlserver: it.abloomy.com    successful!

Abloomy@[192.168.106.158]: show controlserver
  Control Server:  it.abloomy.com
```

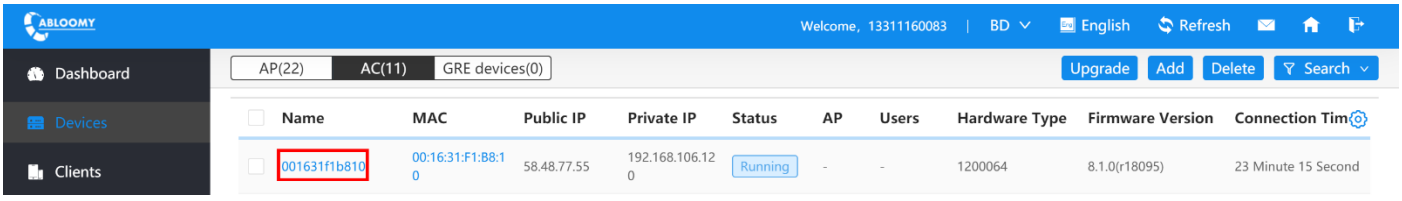
After cloud service address is configured, and WAN port is connected to internet, VSM will register to ACS/CSP automatically.

Enter WiFi module, and we can see VSM Status is “Running” under AC.

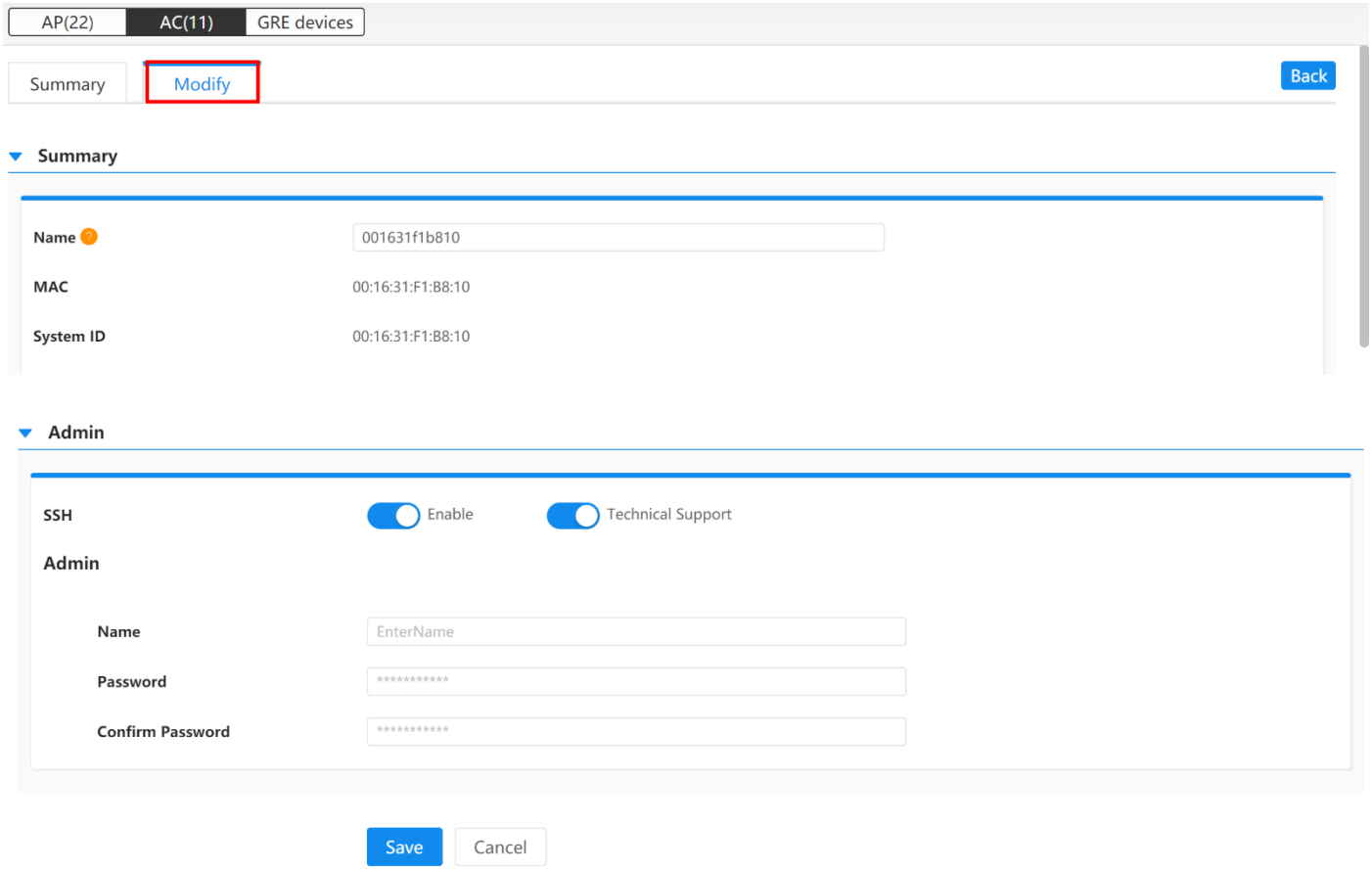


2.3.3 Modify VSM username & password

- Enter WiFi Module, Click Devices—AC, select your VSM.

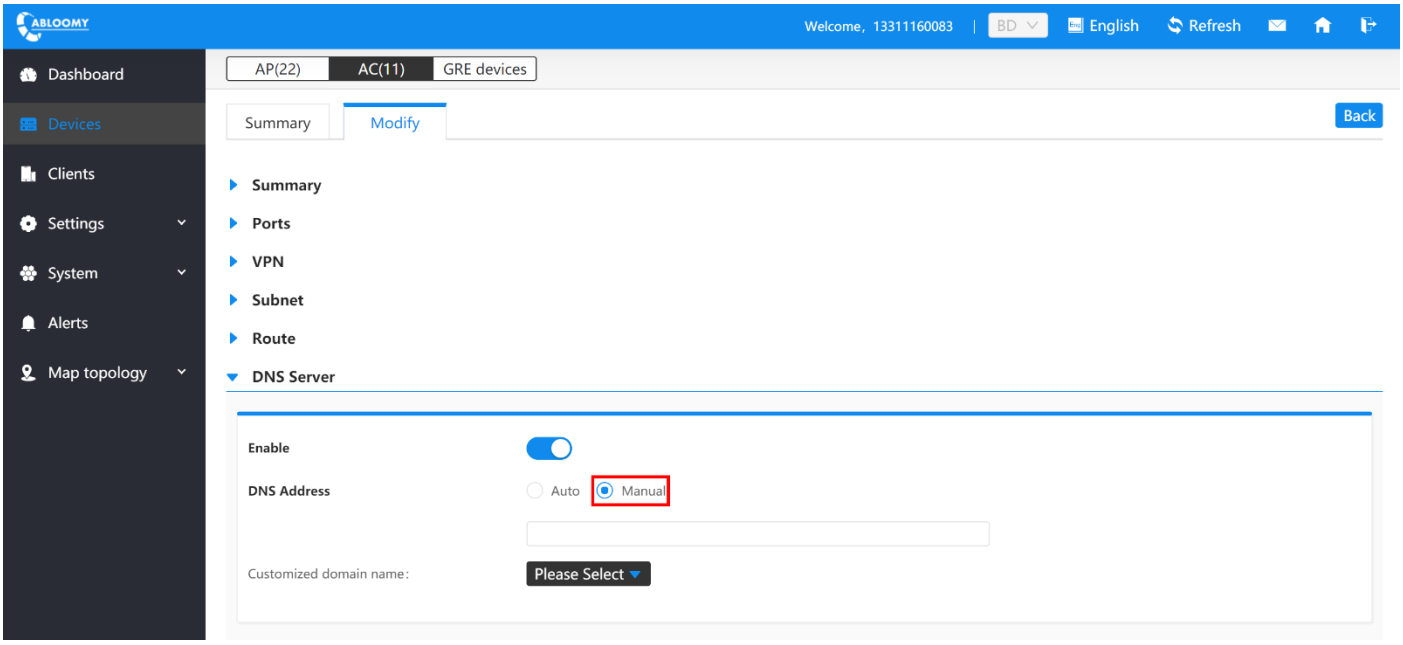


Click Modify—Admin to modify VSM username & password



2.3.4 Config DNS

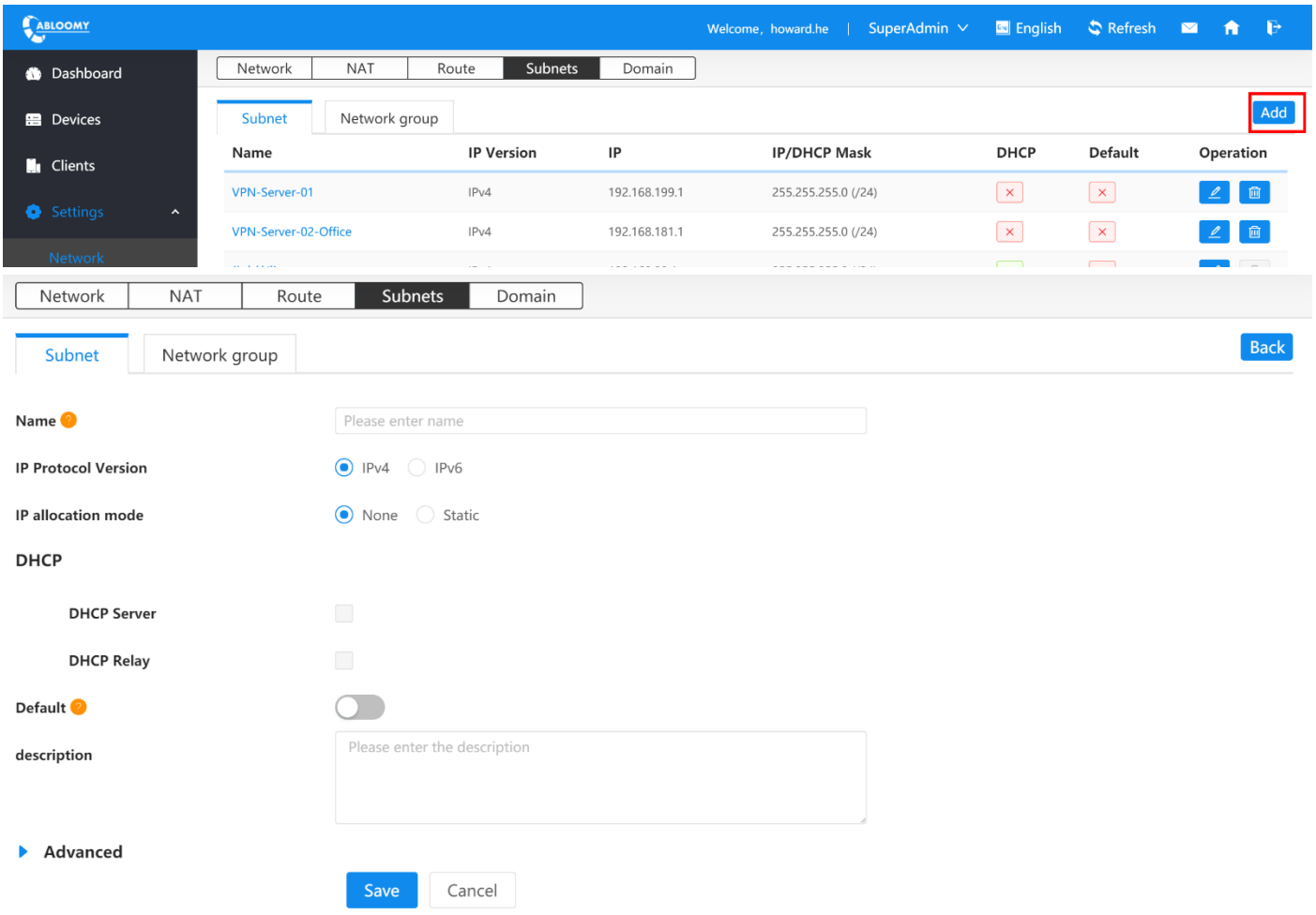
- Click Modify—DNS Server, set DNS Address manually.



2.3.5 Config DHCP server

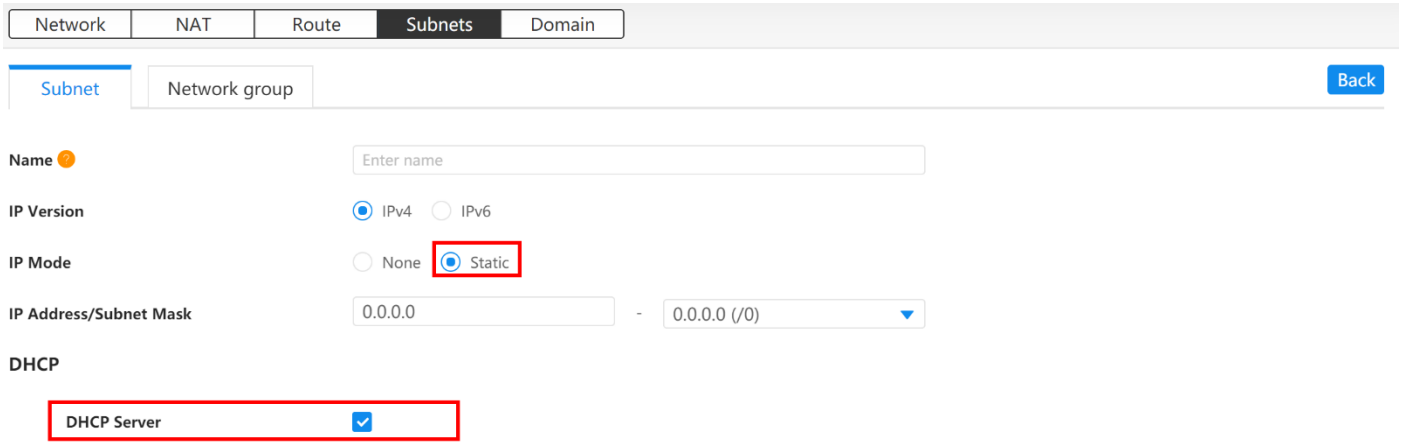
2.3.5.1 Config subnet IP

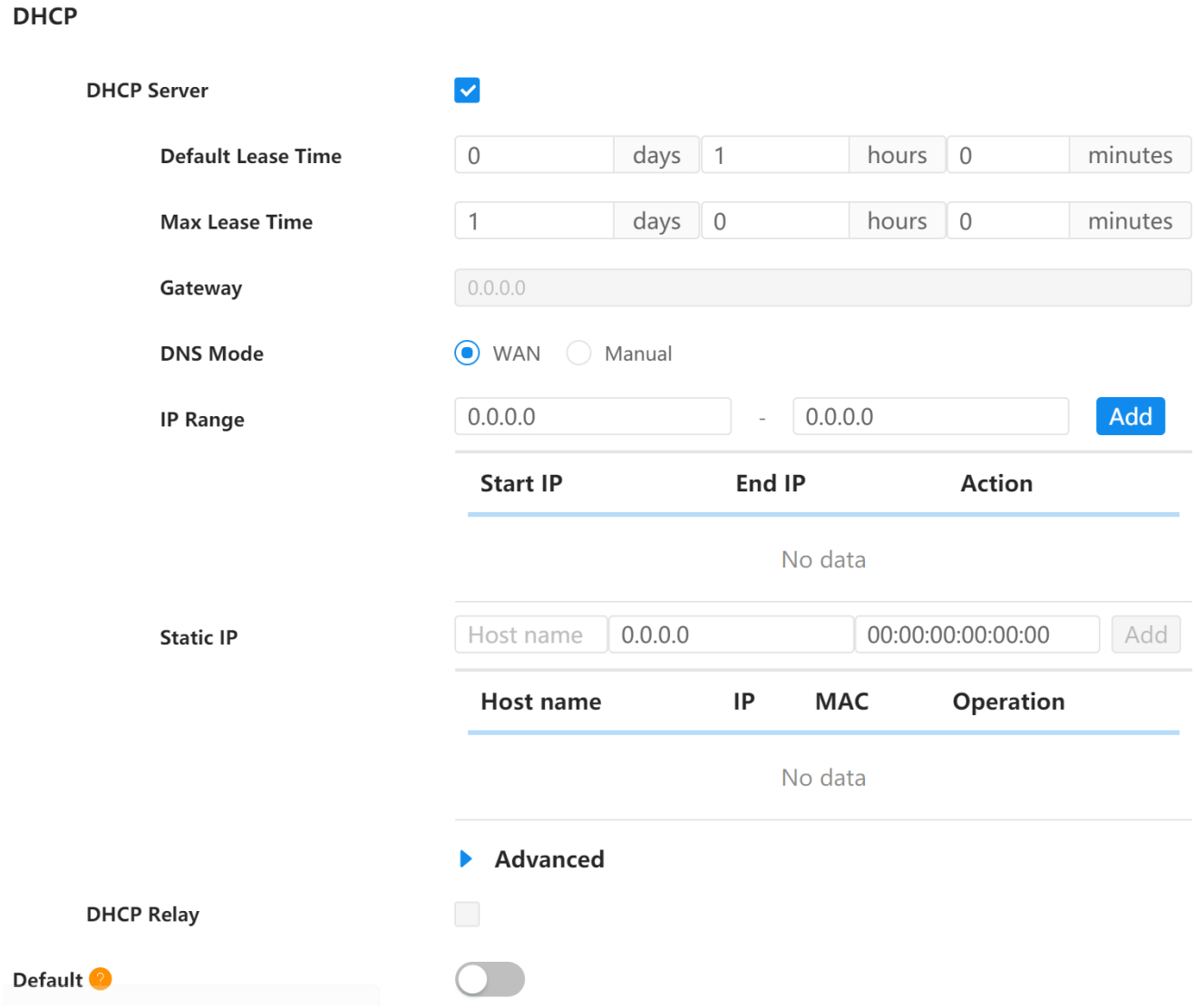
Click Network—Subnets—Add.



2.3.5.2 Config DHCP pool

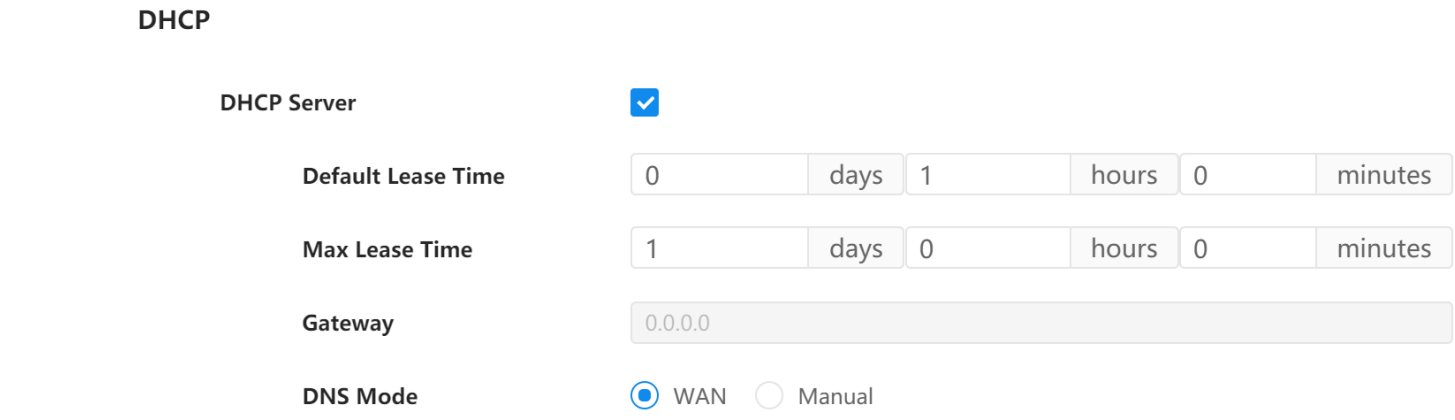
Click IP Mode to Static and you can set DHCP pool





2.3.5.3 Config DHCP lease time

Default lease time is 1 hours and max lease time is 1day. You can modify by yourself.

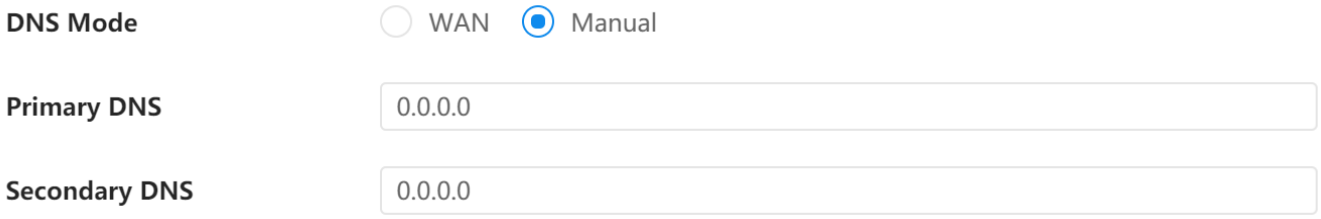


2.3.5.4 DHCP pool gateway

Set subnet IP address/mask as a DHCP pool gateway address

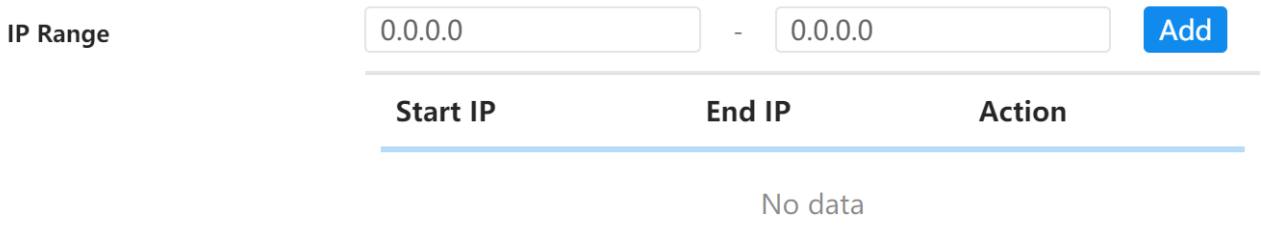
2.3.5.5 Config DHCP Pool DNS

You can get DHCP pool DNS IP by WAN or Manual.



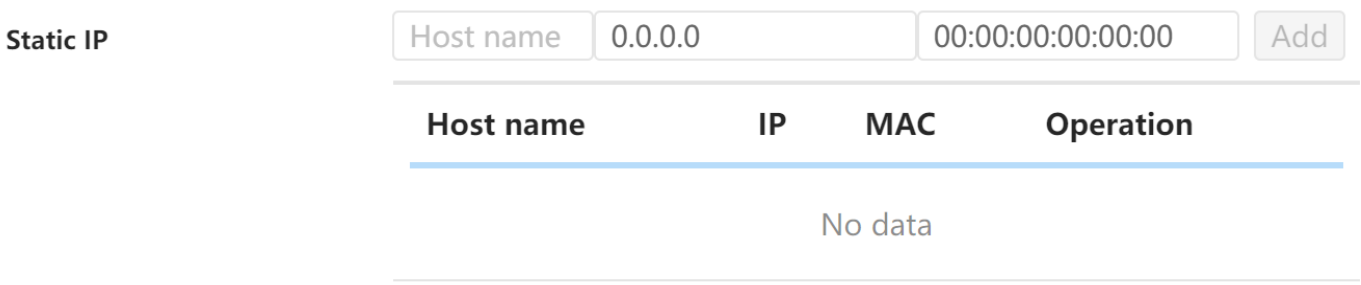
2.3.5.6 DHCP Pool IP range

Set IP Range and click Add. For example: 192.168.1.1~192.168.1.200.



2.3.5.7 Static IP and MAC binding

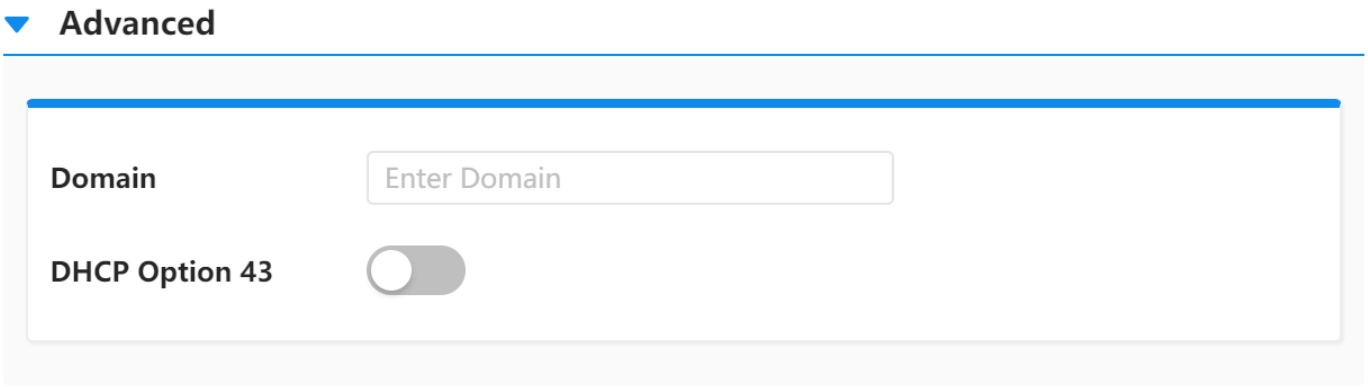
Set static IP and mac to binding



Note: this is optional

Advanced

Set Domain name and DHCP Option 43 if you need.

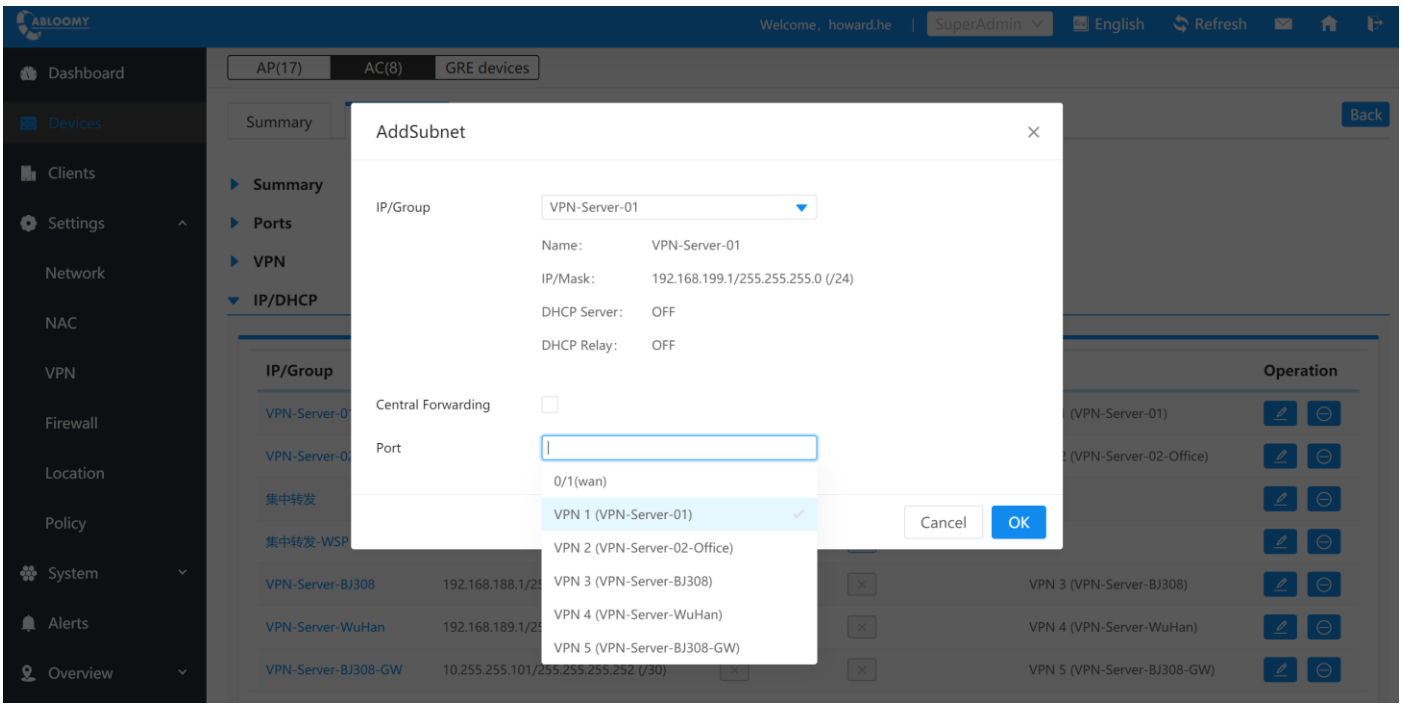


2.3.5.8 Default

Except of VSM WAN port (0/1), the rest ports will follow the subnet DHCP default policy.

2.4 Assign policy to the port

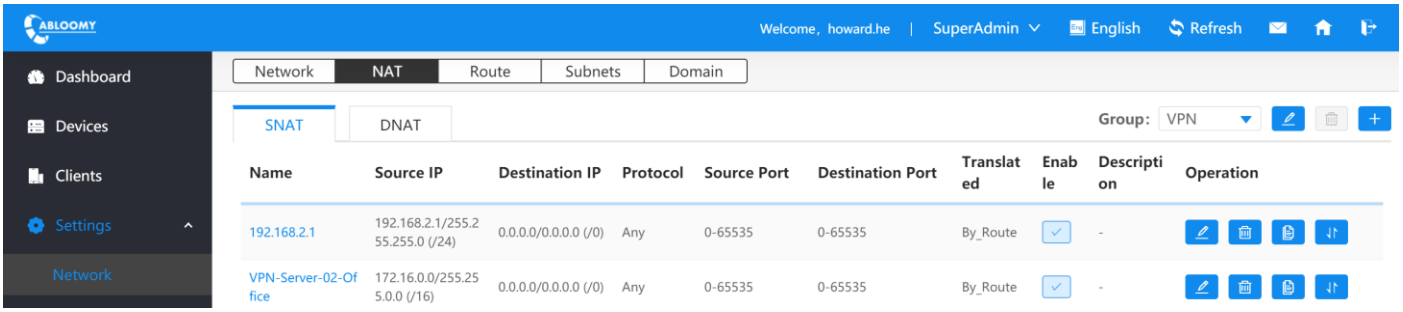
- Click Devices—AC, select your VSM
- Click Modify—IP/DHCP—Add
- Choose subnet policy under Port.



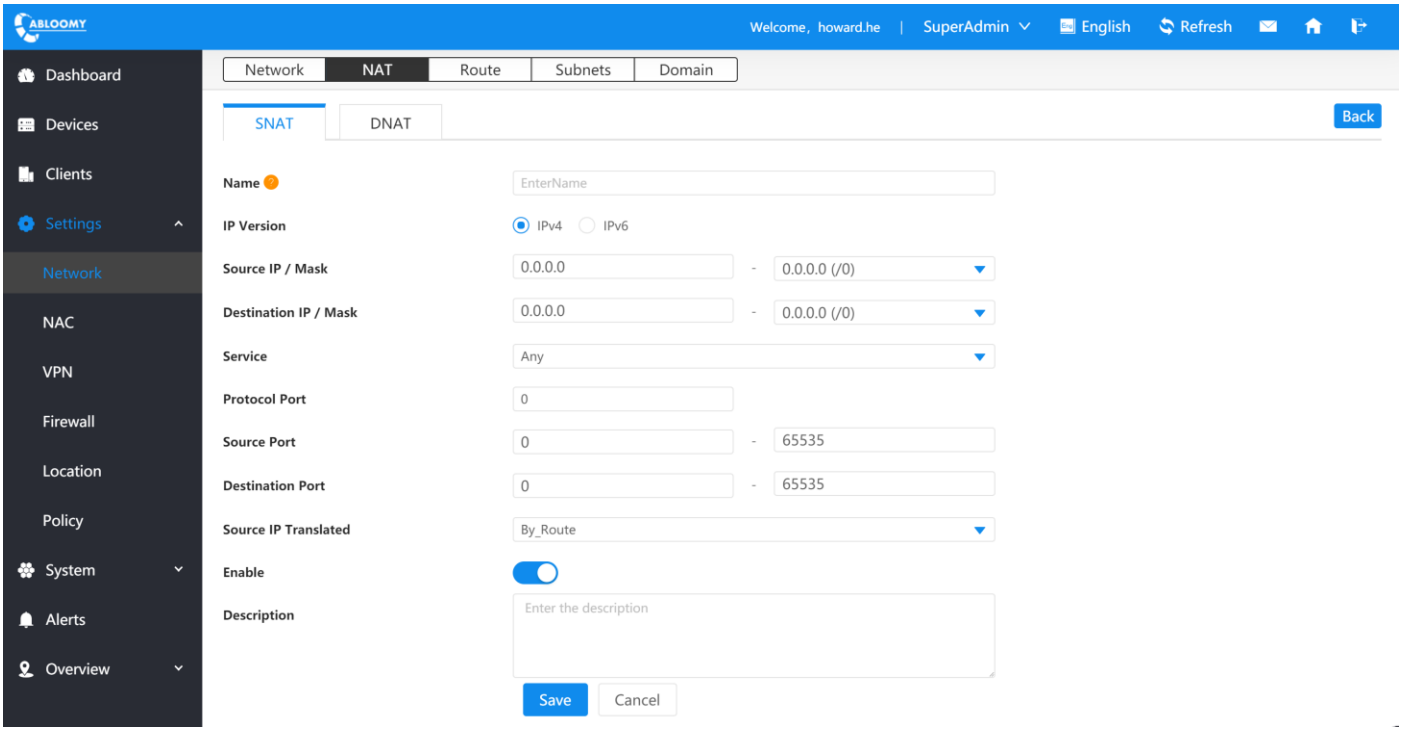
2.5 Config NAT

2.5.1 Config SNAT

Click Network—NAT, Create a new Group



Click Add--SNAT

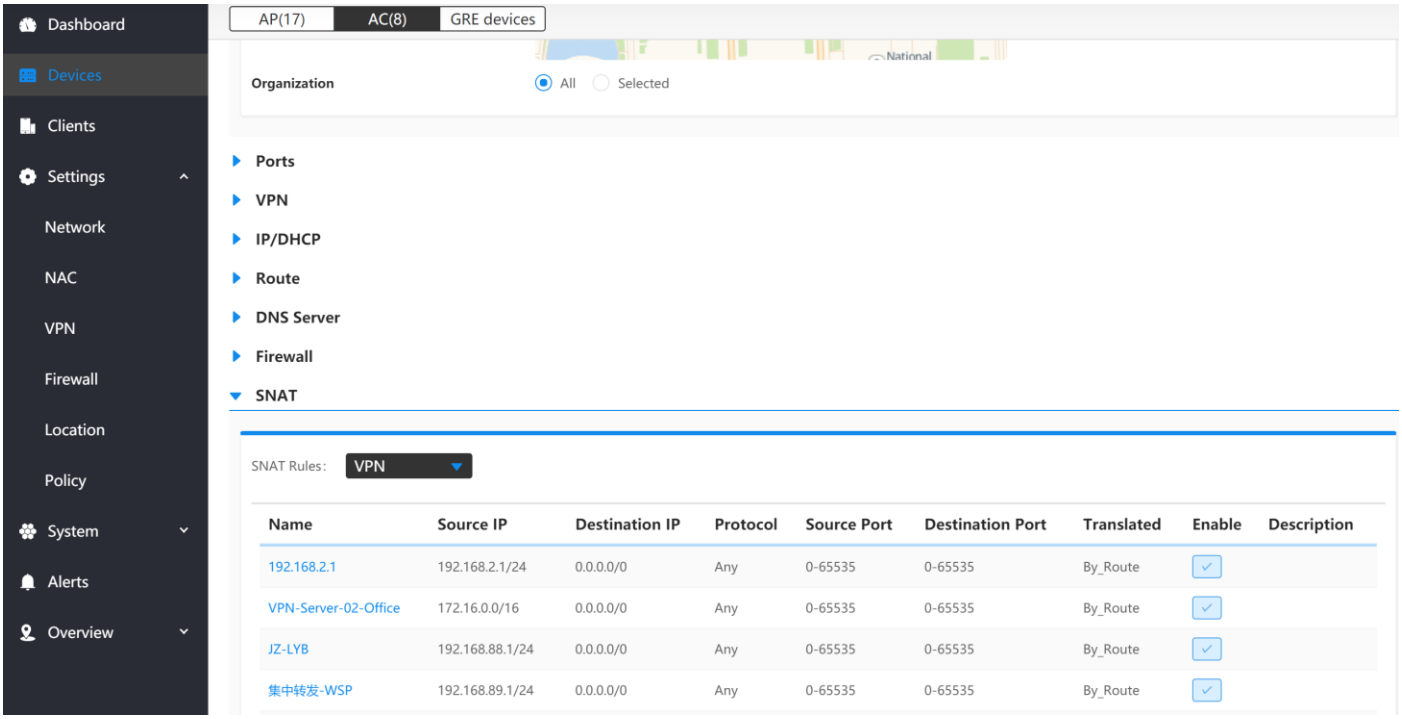


Enter Name

All default is ok, click save.

The system can do SNAT by route.

- Click Devices—AC, select your AC
- Click Modify—SNAT, select your SNAT rule



If you customize by yourself, you should understand the following:

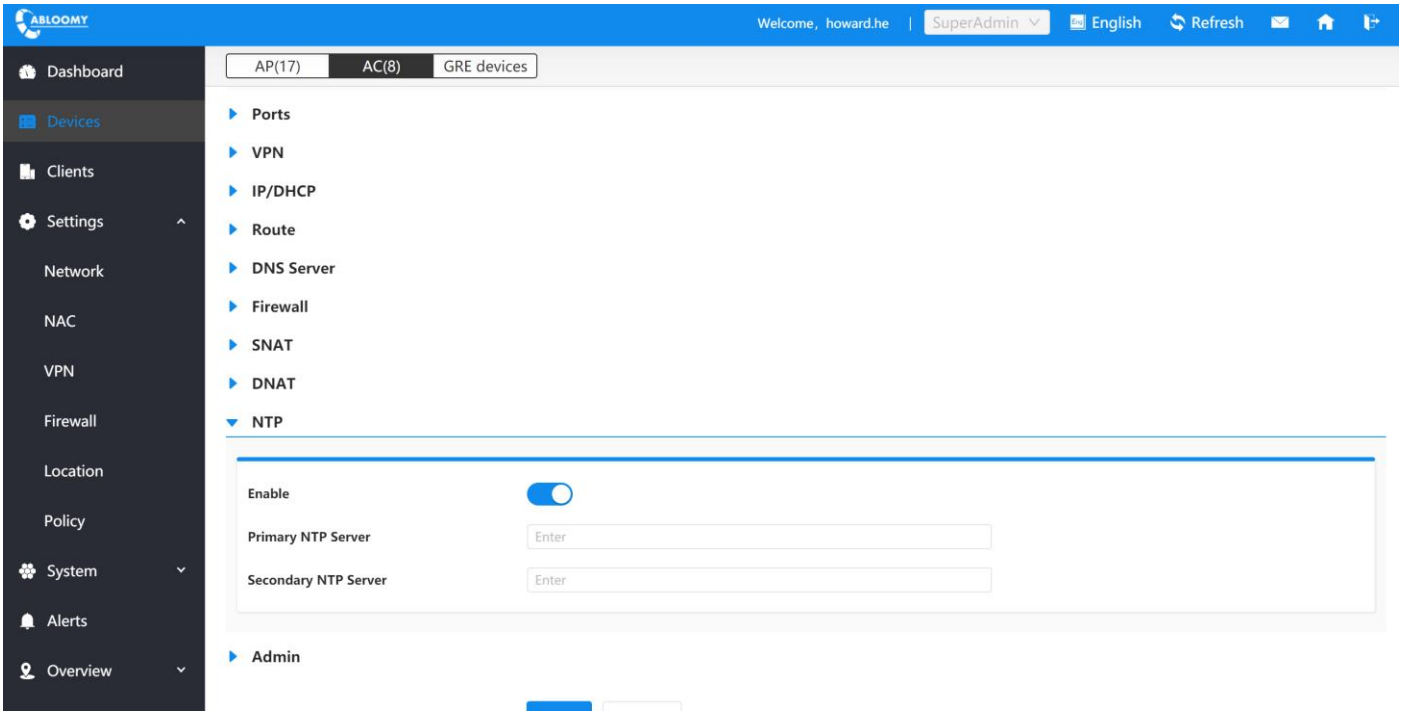
Source IP/ Mask: IP network segment which need to network address transform as a source

Destination IP/ Mask: IP network segment which you want to access, 0.0.0.0 mean all.

Source IP Translated: Transform Source IP network segment to specified IP. Default route will select automatically.

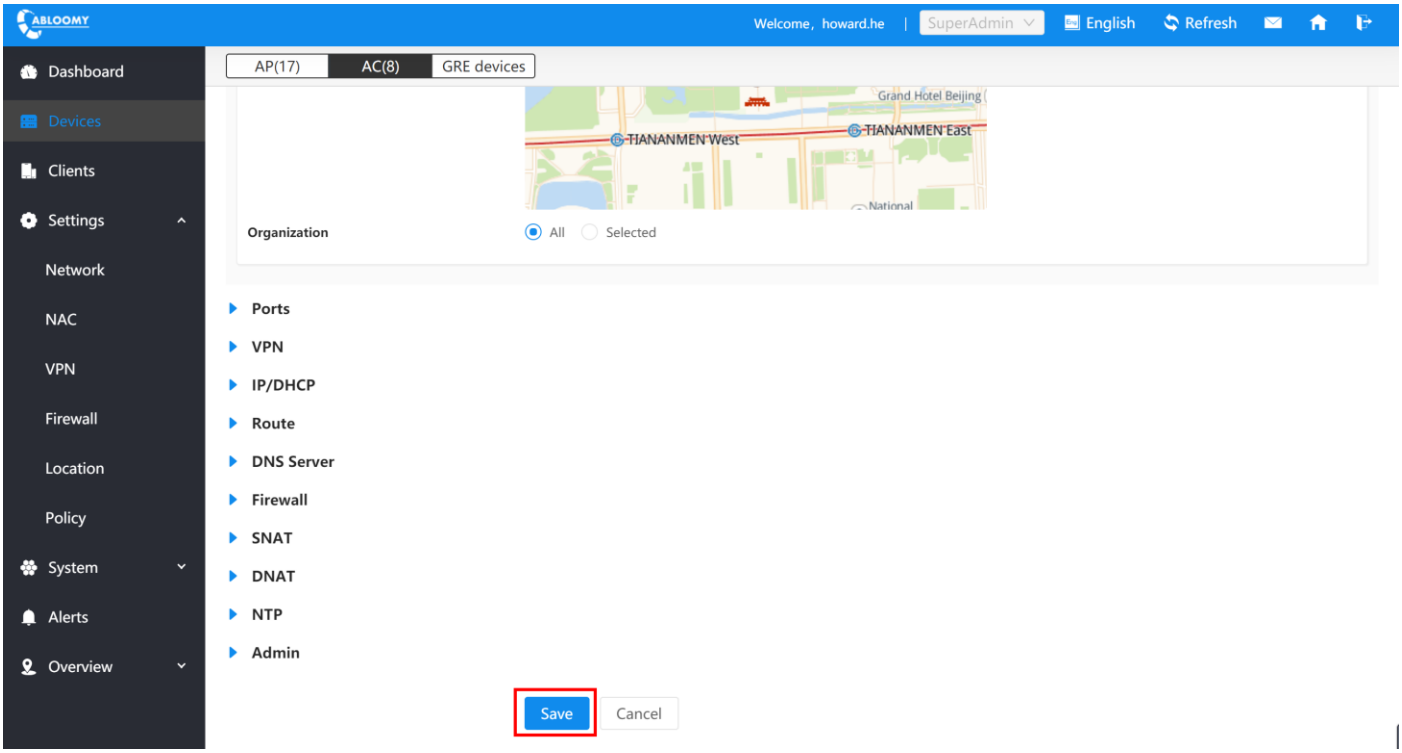
2.6 Modify VSM time

- Click Devices—AC, select your VSM
- Click NTP—Enable, enter Primary NTP server and Secondary NTP server address, make sure VSM and ACS/CSP time is synchronized.



2.7 Save

Click Save button after all config is done. If you forget to click Save button, all configuration will be lost.



3. CLI command

- show ip (show ip configuration)

```
Abloomy@[192.168.100.122]: show ip
Interface               IP/Netmask                      CS_Control      TYPE            Admin
Slot/Port 0/1           192.168.100.122/255.255.255.0   on              STATIC          on
VSLAN 1                 1.1.1.1/128.0.0.0               off             STATIC          off
```

- show ports (show ports configuration)

```
Abloomy@[192.168.100.122]: show ports
Slot 0: 4 ports
Slot/Port  MAC               Type      Mtu   Mode    Br         Trunk  Speed  VSLAN  ByIP  Status   PseudoMac    PPPOE_user
           PPPOE_pass
0/1        00:16:31:f1:65:ac  Uplink    1500  Route   -          Off    Auto   1      Off   Enable   00:00:00:00:00:00
  -                           -
0/2        00:16:31:f1:65:ad  Uplink    1500  Route   -          Off    Auto   1      Off   Enable   00:00:00:00:00:00
  -                           -
0/3        00:16:31:f1:65:ae  Downlink  1500  Route   -          Off    Auto   1      Off   Enable   00:00:00:00:00:00
  -                           -
0/4        00:16:31:f1:65:af  Downlink  1500  Route   -          Off    Auto   1      Off   Enable   00:00:00:00:00:00
  -                           -
```

- show route (show route configuration)

```
Abloomy@[192.168.100.122]: show route
DestIP/Netmask          Gateway         Metric
0.0.0.0/0.0.0.0     192.168.100.1    0
```

- show controlserver (show ACS/CSP address)

```
Abloomy@[192.168.100.122]: show controlserver
  Control Server:  192.168.100.166
```

- show vlanif（show vlan ports configuration）

```
Slot/Port               MAC                 Mtu     Mode    Br          VSLAN    ByIP    Status
Slot/Port 0/2.100       00:16:31:f1:65:ad   1500    Switch  VSLAN 1     1        off     Enable
Abloomy@[192.168.100.122]: Write failed: Broken pipe
```

- show time

```
Abloomy@[192.168.100.122]: show time
  Timezone:     Asia/Shanghai
  NTP Service:  Enabled
  NTP Servers:  ntp.nasa.gov
  Time:         2014/11/26 13:31:18
```

- show dhcpserver

```
Abloomy@[192.168.100.122]: show dhcpserver ?

        show dhcpserver ;
        show dhcpserver status;
        show dhcpserver default_lease_time;
        show dhcpserver max_lease_time;
        show dhcpserver if;
        show dhcpserver subnet ...;
        show dhcpserver fixaddress ...;
        show dhcpserver client
        show dhcpserver ?
```

- show ambit ip (show DNS configuration)

```
Abloomy@[192.168.100.122]: show ambit_ip
    Hostname:
    Domain Name:
    IP address:          192.168.100.122/24
    DHCP enabled:        No
    Default gateway:     None configured
    DNS servers:         202.106.0.20 8.8.8.8
    Management VLAN:     Not_tagged
```

- save main

```
Abloomy@[192.168.100.122]: save main
 saving configuration....
save configuation success
```

- factoryreset

```
Abloomy@[192.168.100.122]: factoryreset

  This operation will erase all configuration information and
  return this system to factory default settings.

  Are you sure you want to perform a factory reset [n]?
```