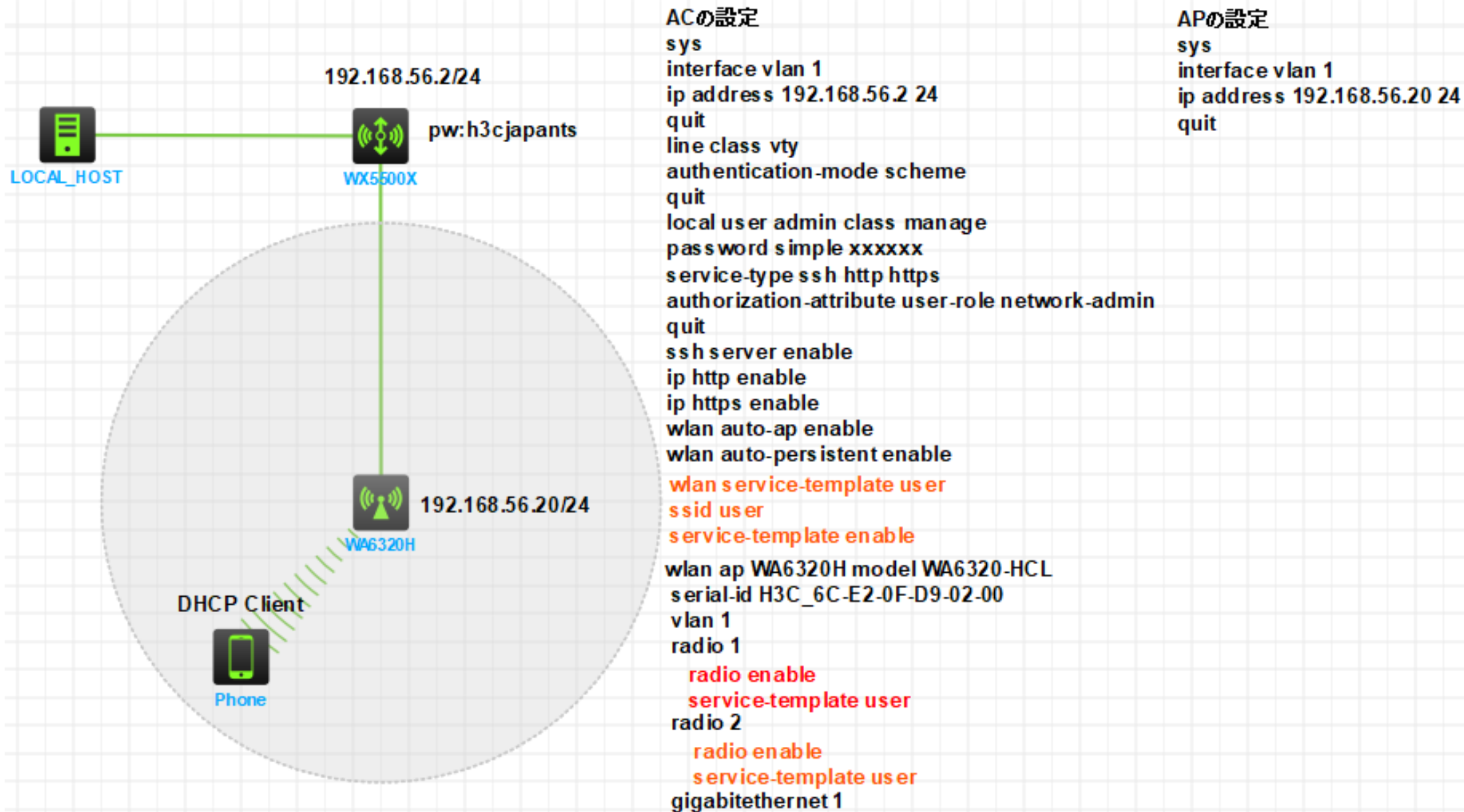


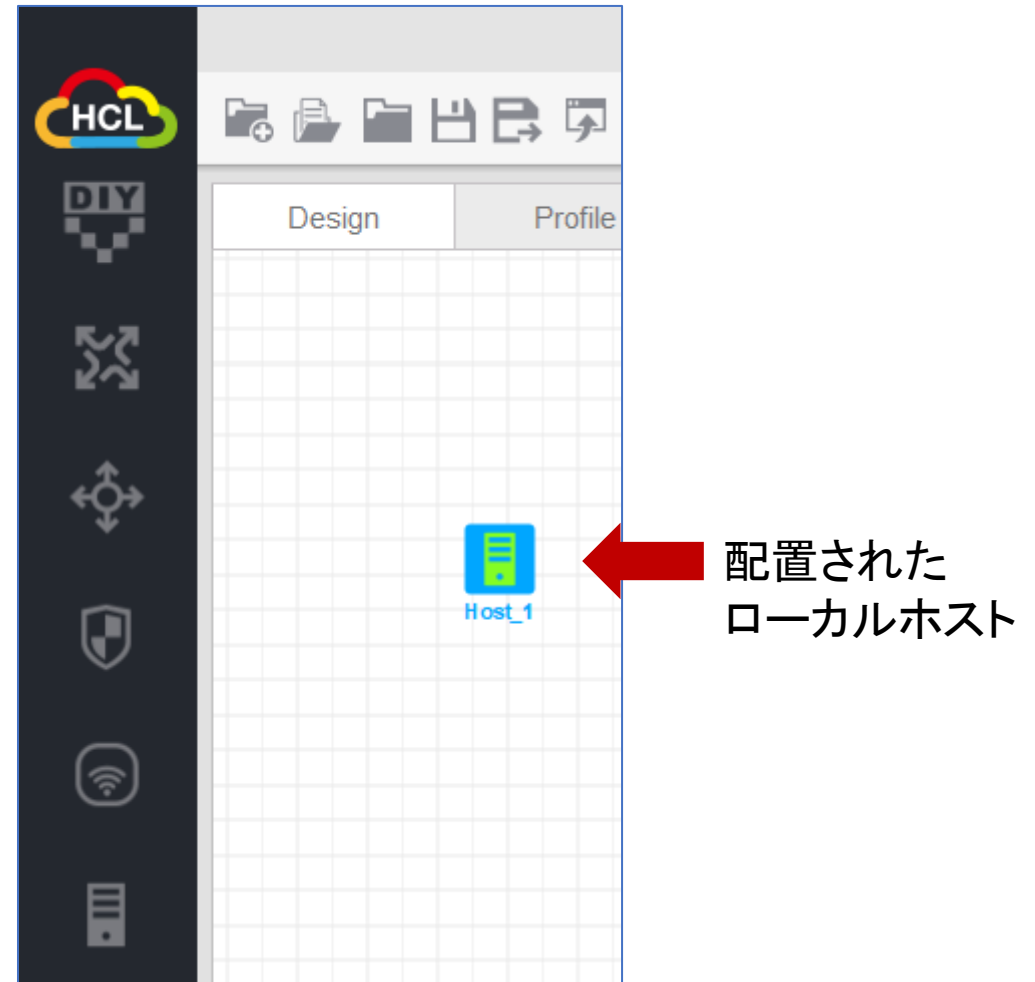
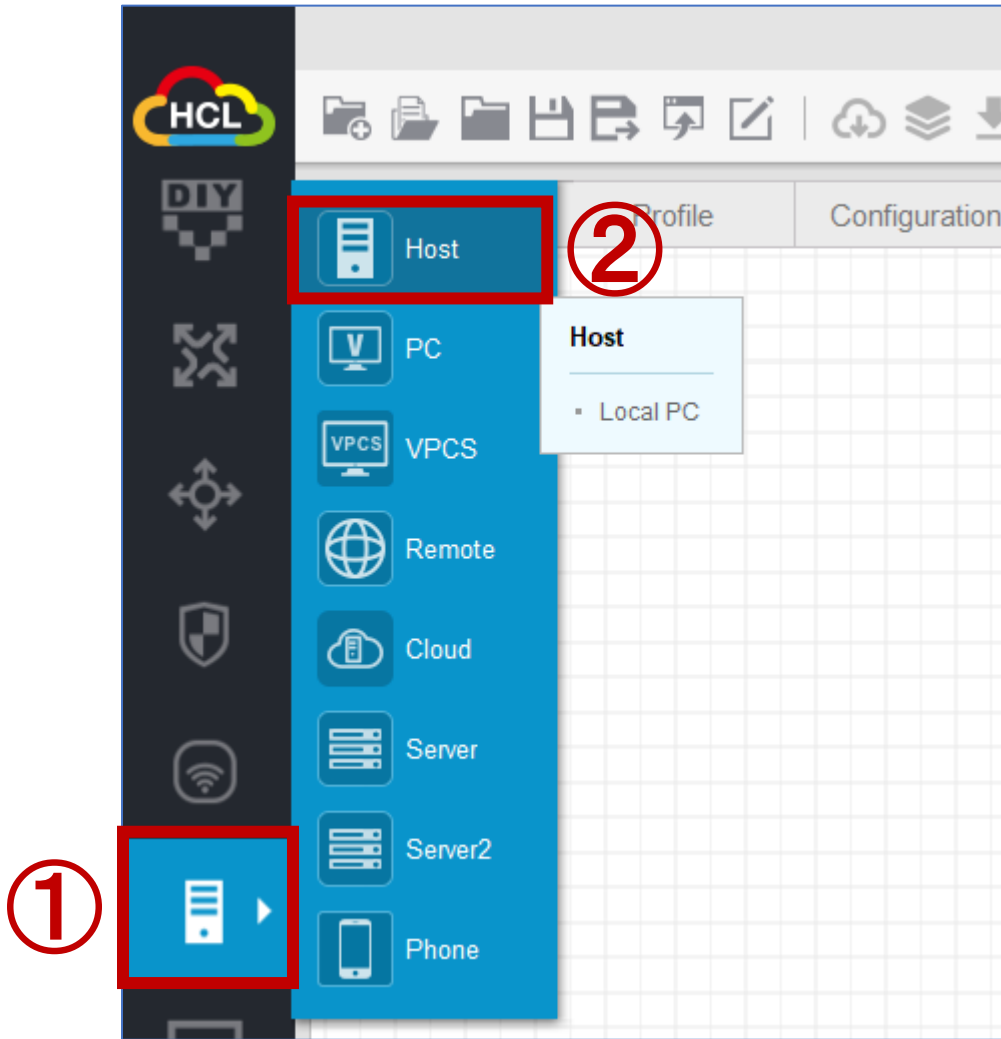


 H3C 無線製品実習(シミュレーターを利用)

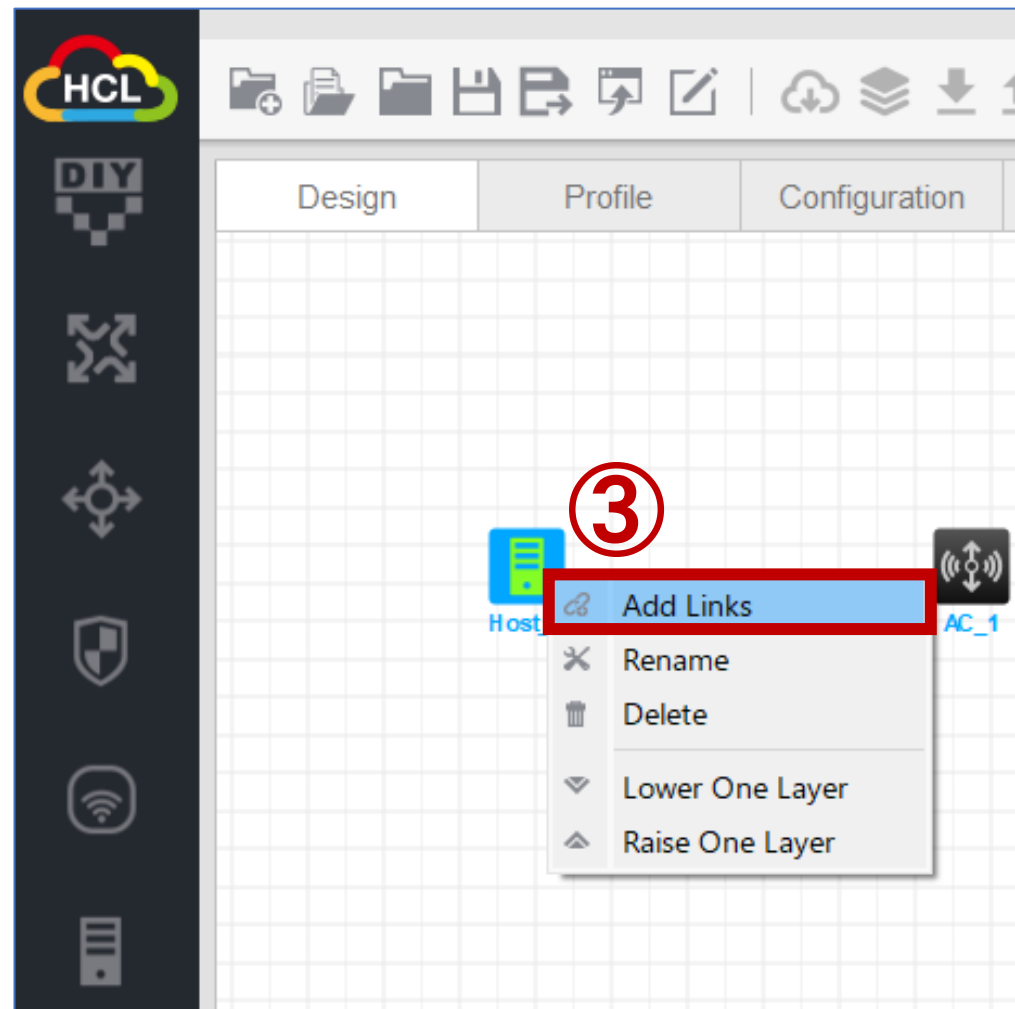
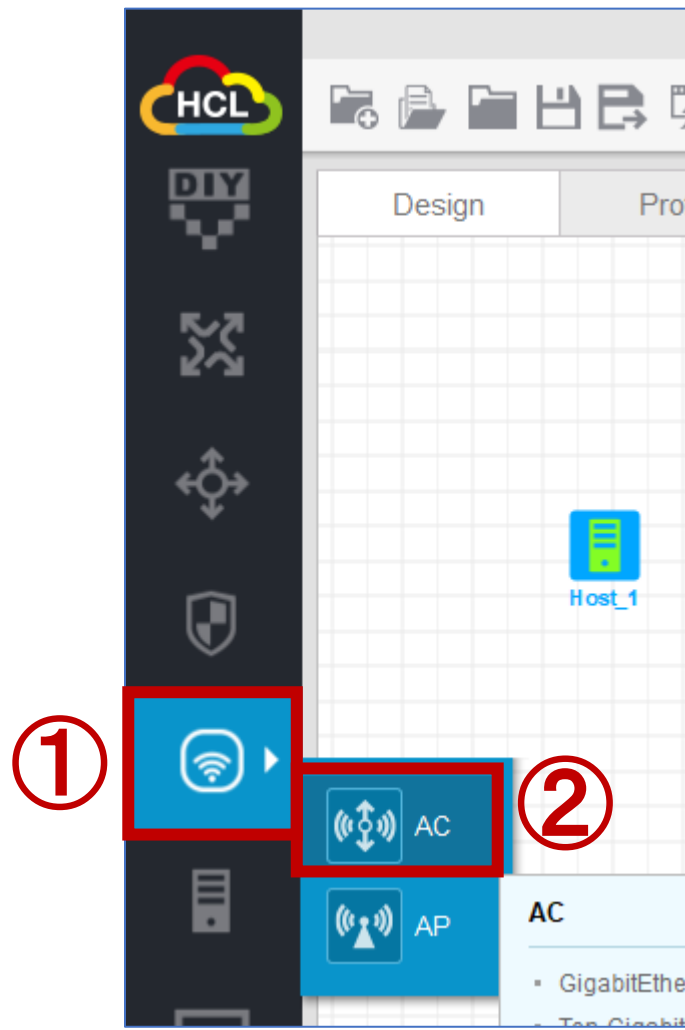
シミュレーターでの無線構成完成図



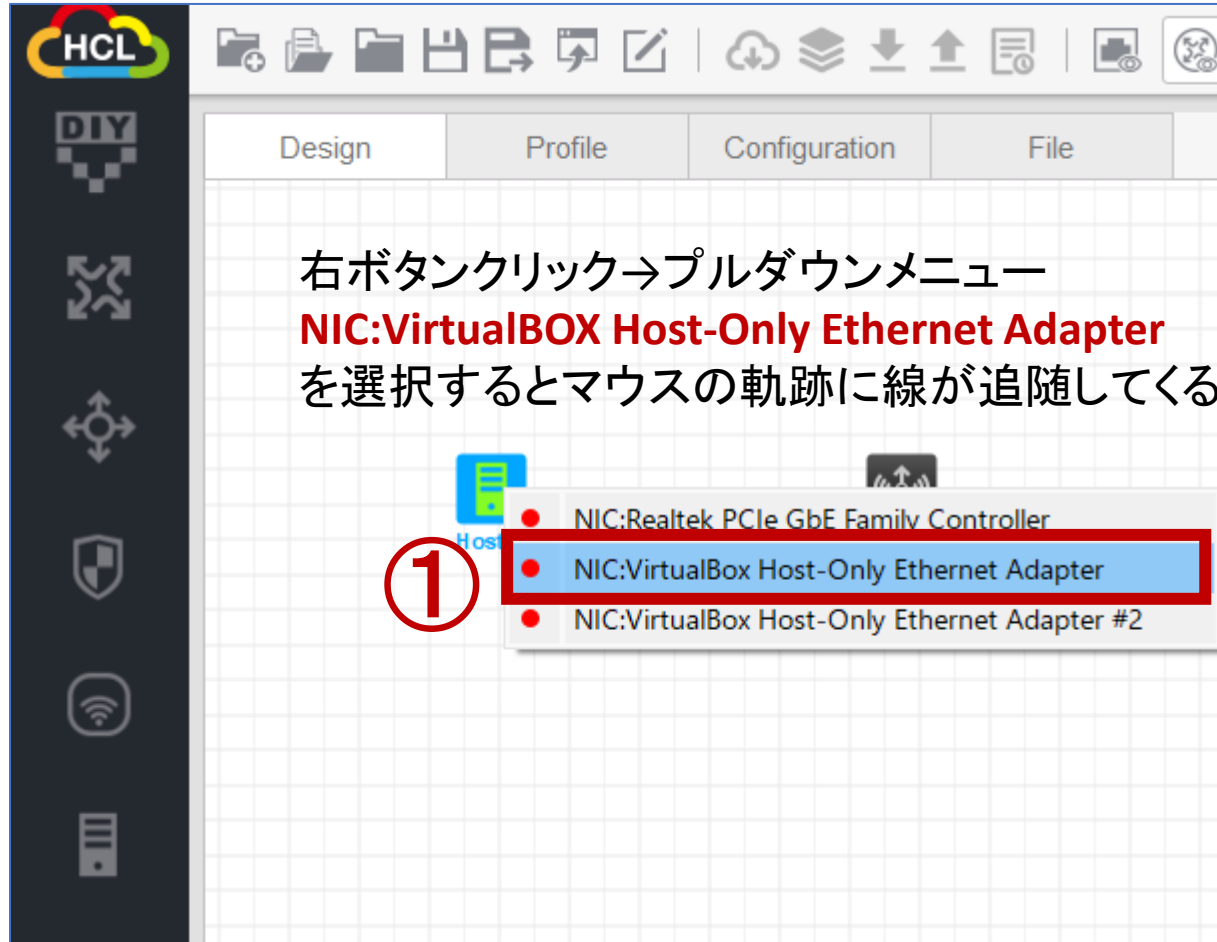
ワークスペースへローカルホストを配置



ACを配置し、ローカルホスト間にリンクを作成



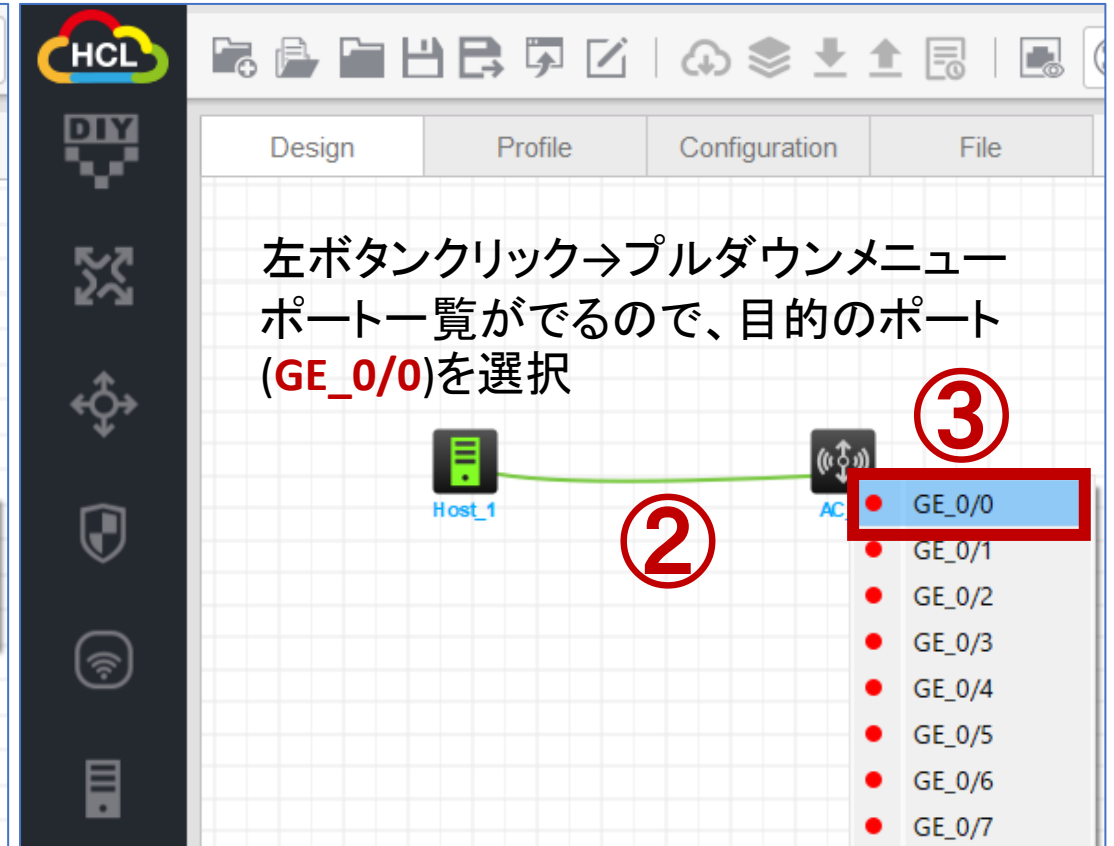
ACを配置し、ローカルホスト間にリンクを作成



右ボタンクリック→プルダウンメニュー
NIC:VirtualBOX Host-Only Ethernet Adapter
を選択するとマウスの軌跡に線が追従してくる

①

- NIC:Realtek PCIe GbE Family Controller
- **NIC:VirtualBox Host-Only Ethernet Adapter**
- NIC:VirtualBox Host-Only Ethernet Adapter #2



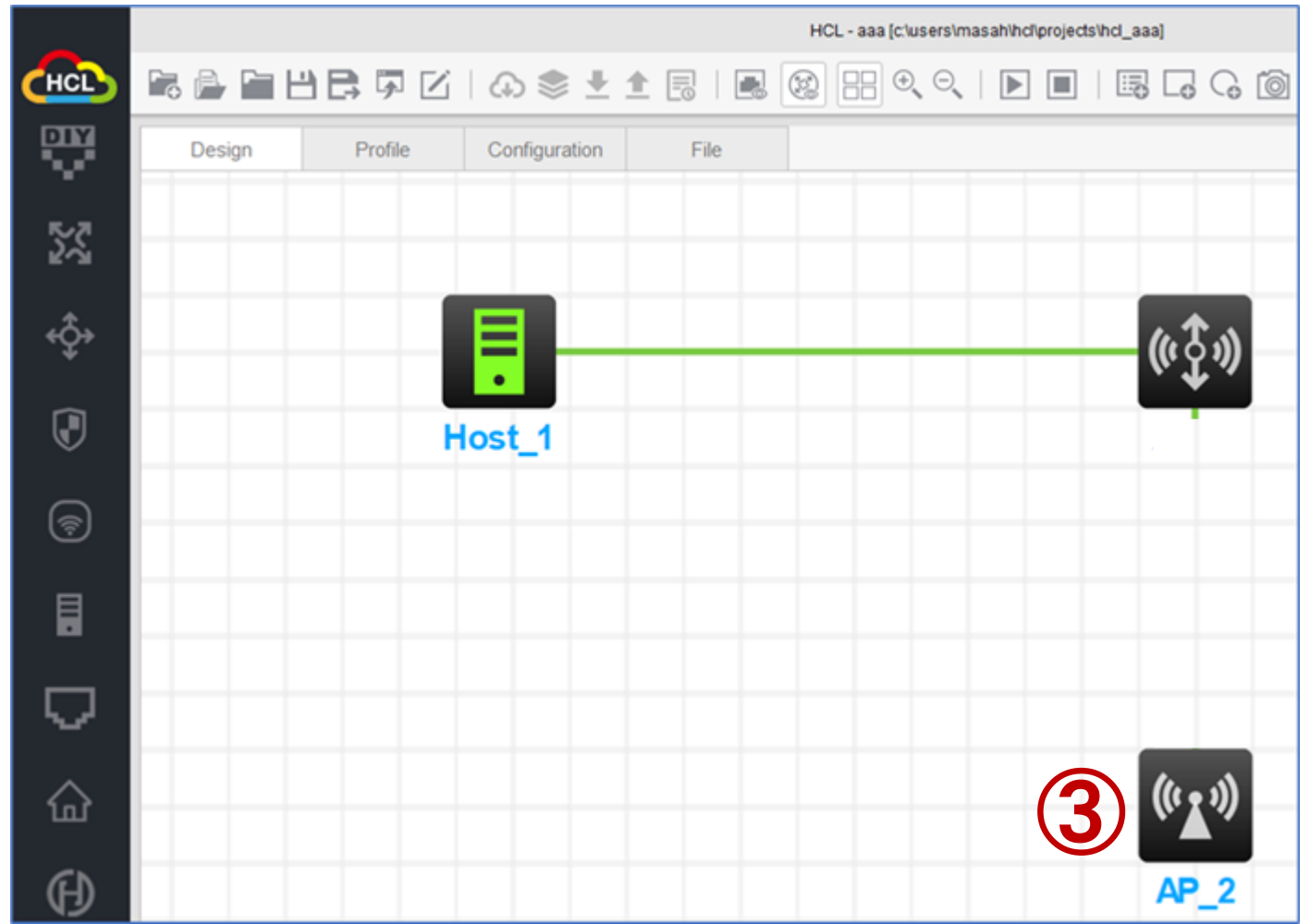
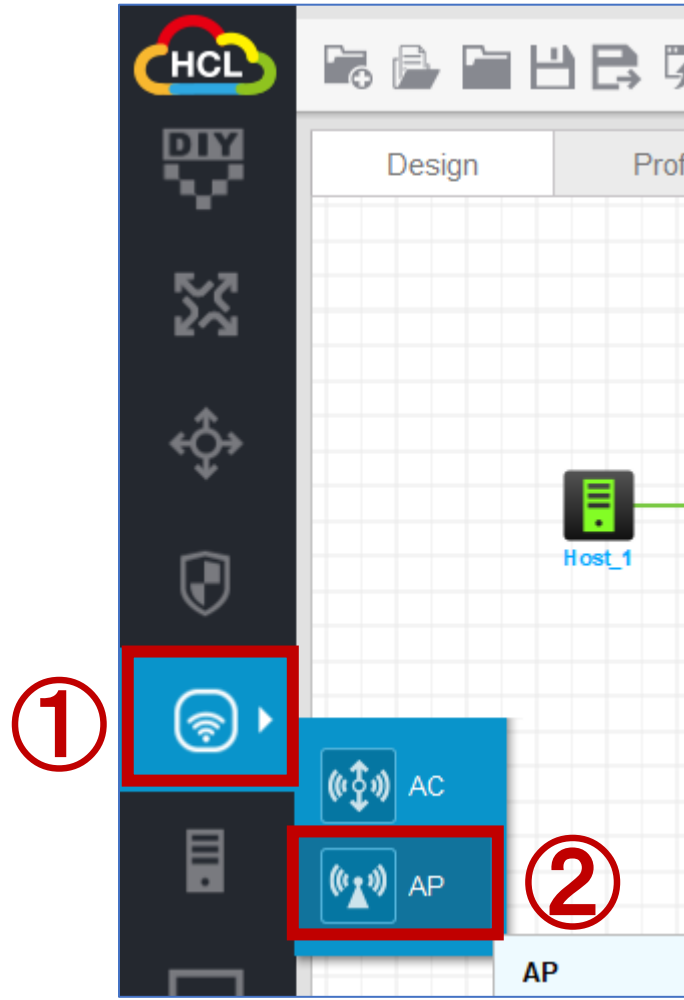
左ボタンクリック→プルダウンメニュー
ポート一覧がでるので、目的のポート
(**GE_0/0**)を選択

②

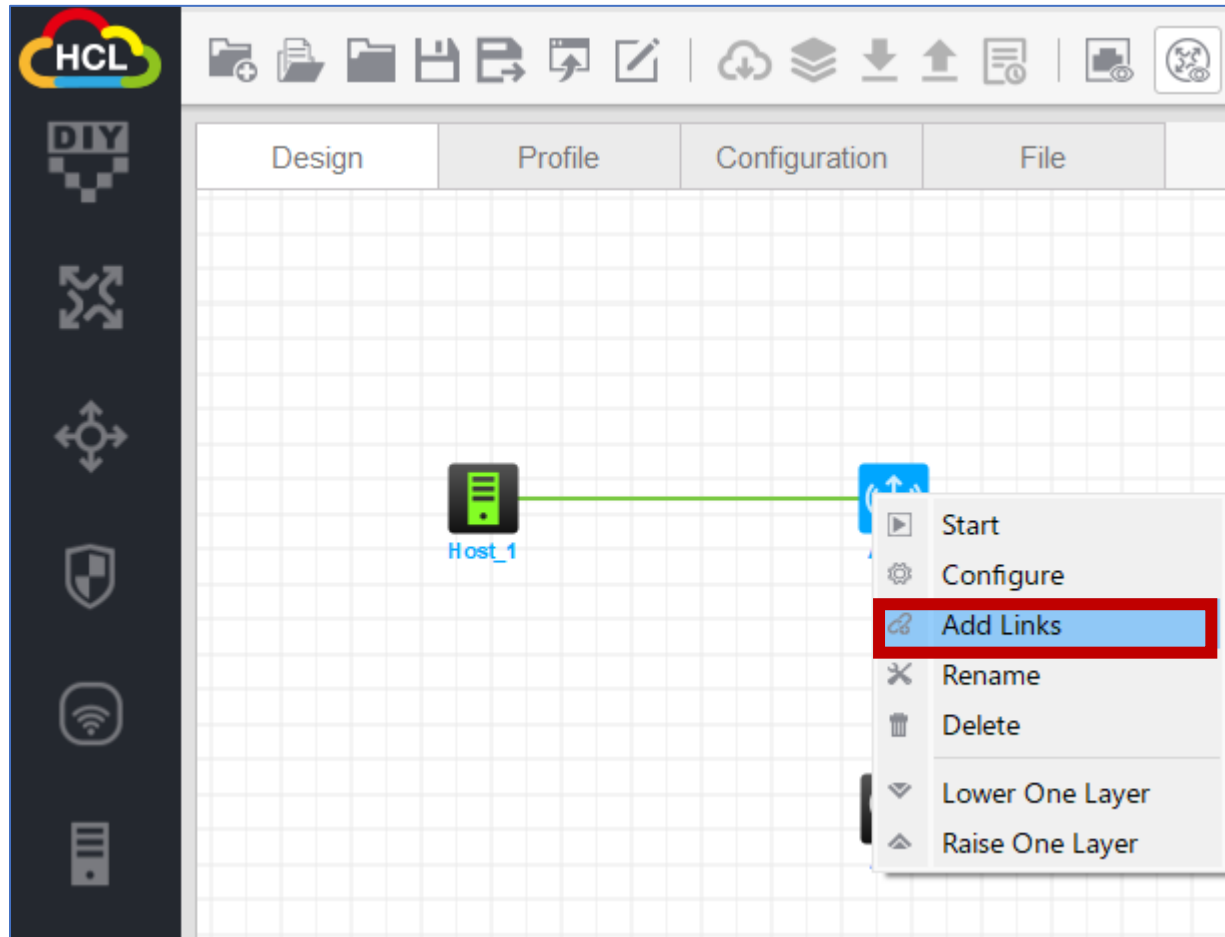
③

- **GE_0/0**
- GE_0/1
- GE_0/2
- GE_0/3
- GE_0/4
- GE_0/5
- GE_0/6
- GE_0/7

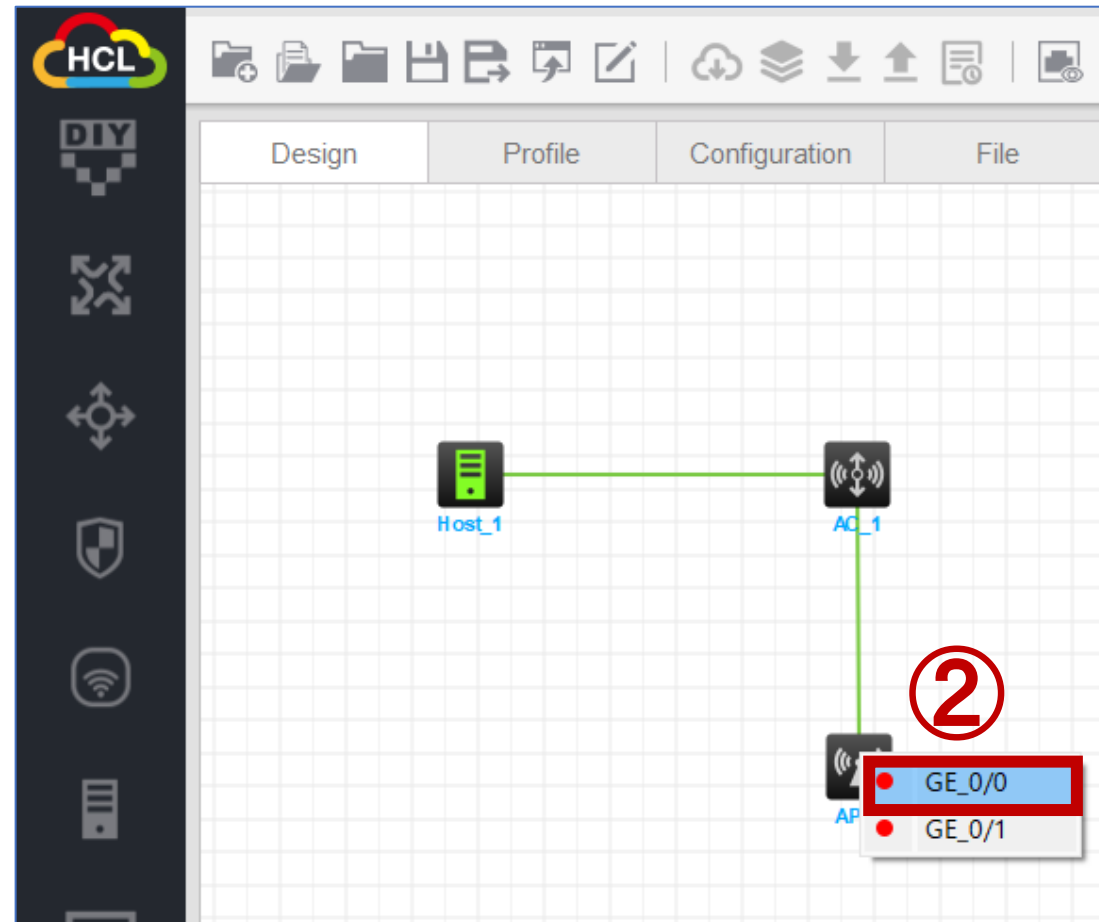
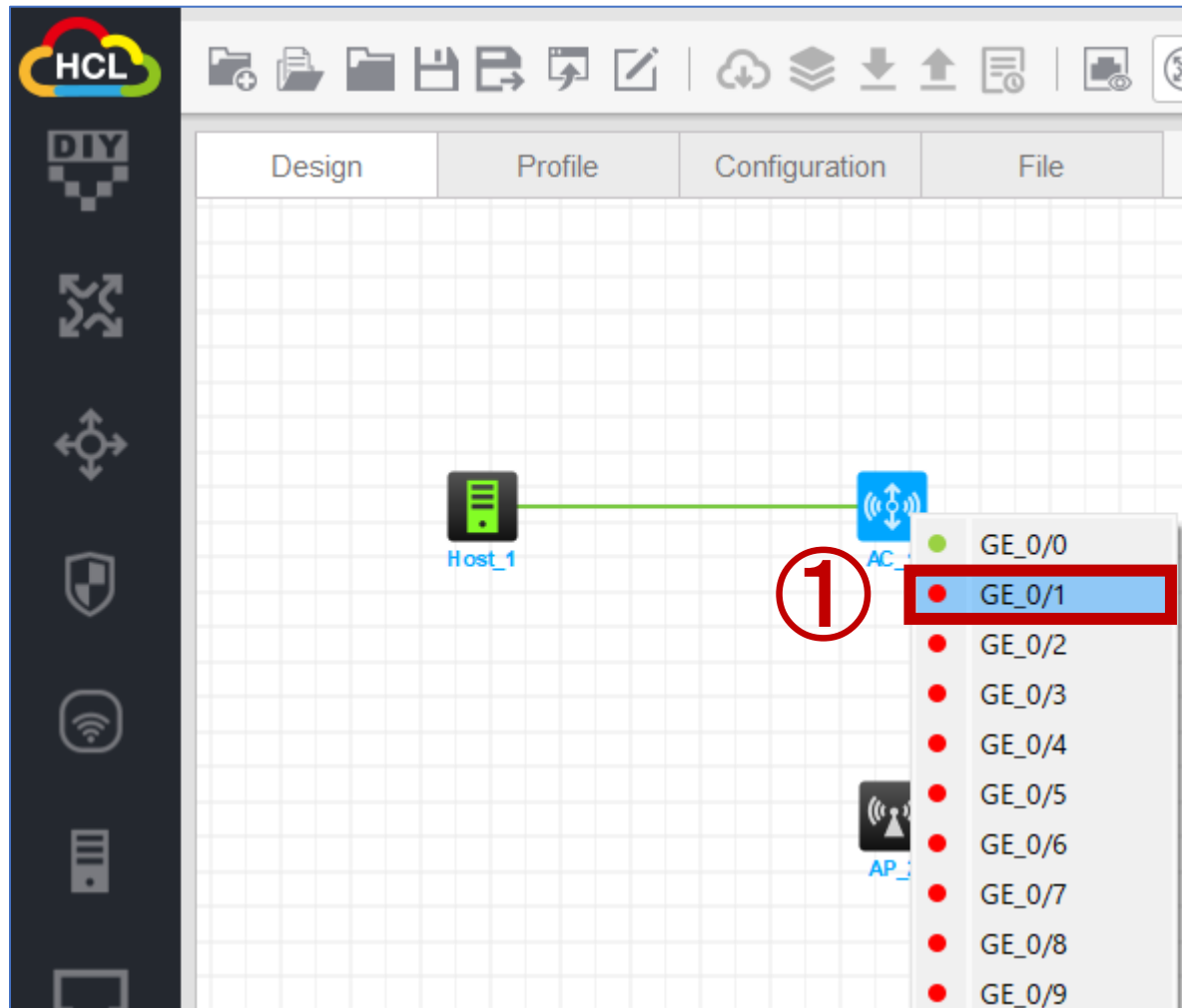
APの配置



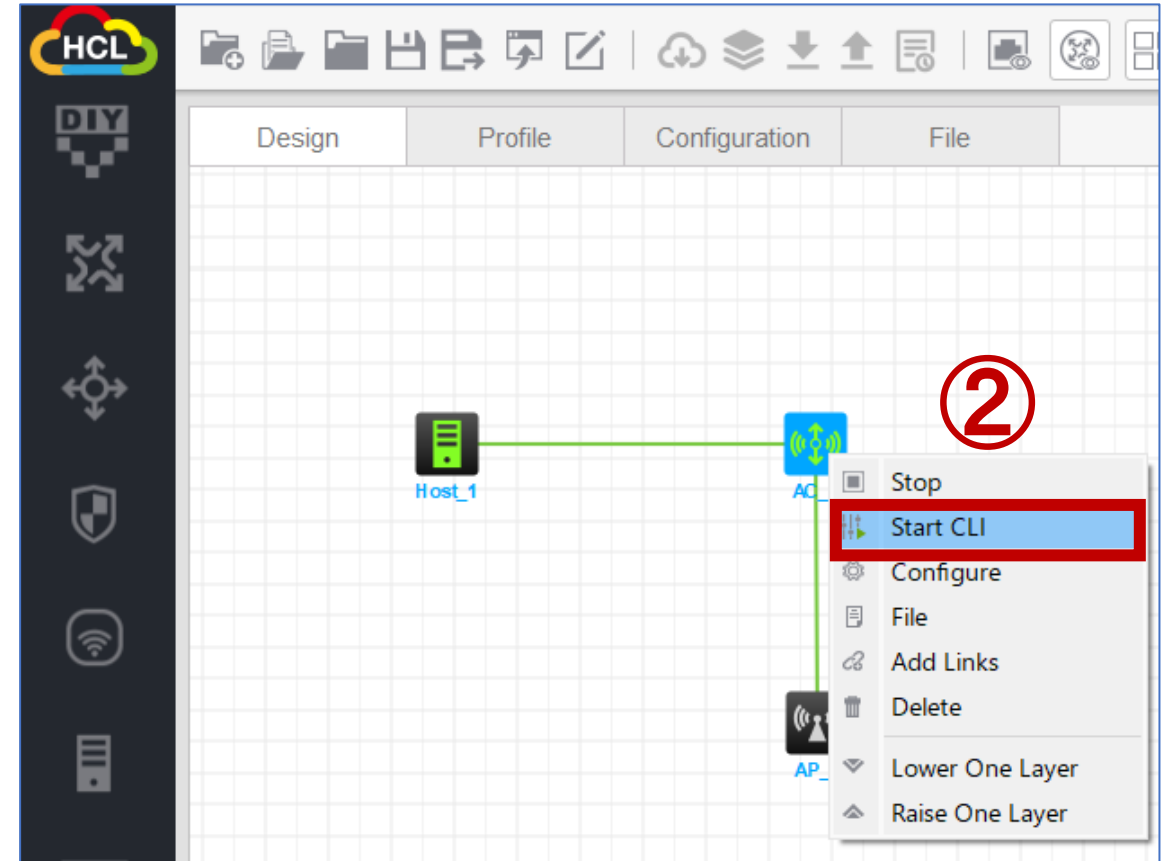
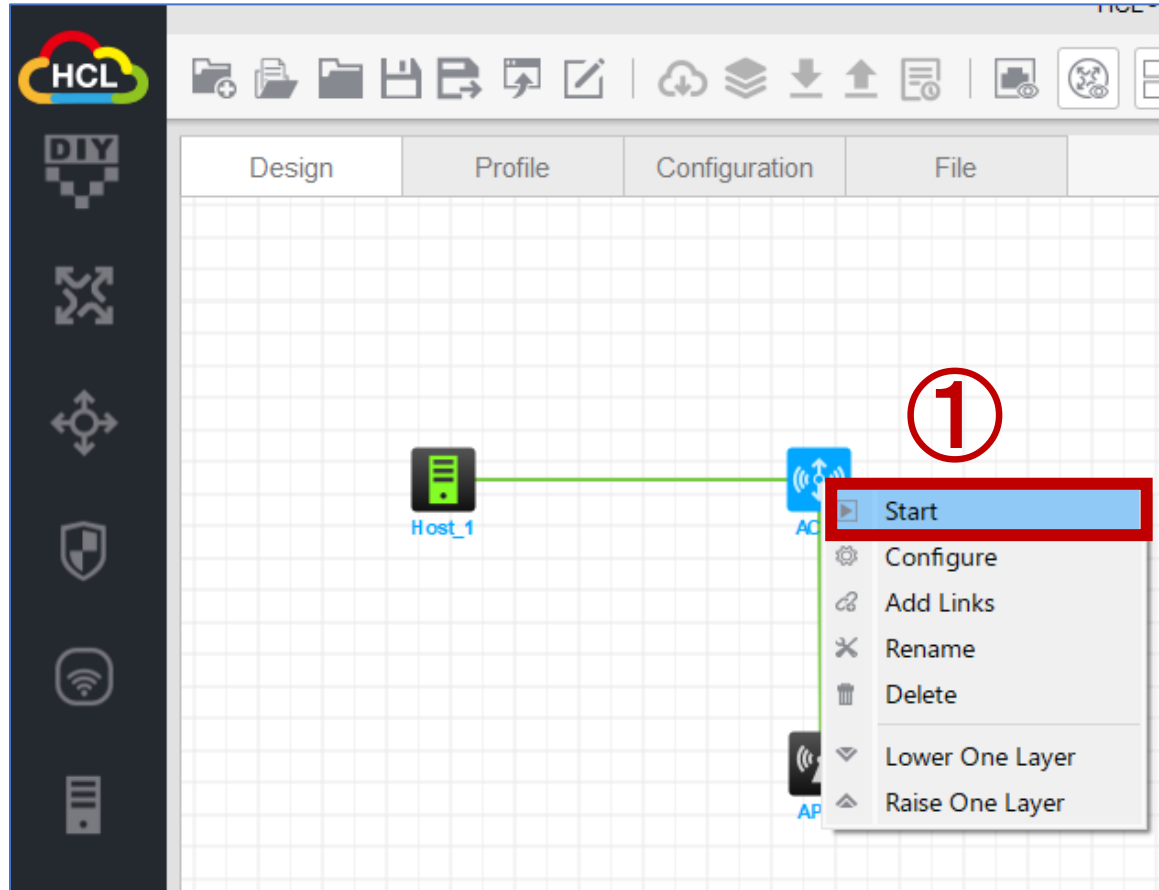
ACからAPへ結線



ACからAPへ結線



ACを起動し、コンソールを開く



ACの設定(コンソールから入力)

Automatic configuration attempt: 2.

Interface used: Vlan-interface1.

Enable DHCP client on Vlan-interface1.

Automatic configuration is running, press CTRL_C or CTRL_D to break.

CTRL_Cを入力して自動コンフィグを中断する

Automatic configuration is aborted.

Line con0 is available.

Press ENTER to get started.

ENTERキーを入力

<H3C>%Sep 20 10:50:00:523 2025 H3C SHELL/5/SHELL_LOGIN: -MDC=1;

Console logged in from con0.

<H3C>**sys** **sysを入力するとコンフィグモードになる**

System View: return to User View with Ctrl+Z.

[H3C]

ACの設定(続き)

```
[H3C] interface vlan 1  
[H3C-Vlan-interface1] ip address 192.168.56.2 24  
[H3C-Vlan-interface1] quit
```

VLANインタフェースにIPアドレスを設定する

```
[H3C] line class vty  
[H3C-line-class-vty] authentication-mode scheme  
[H3C-line-class-vty] quit
```

外部からIPでのアクセス(ssh, telnet, http, https, ftp,,,等)の入口でユーザー名、パスワードのログインを求める

```
[H3C] local-user admin class manage  
[H3C-luser-manage-admin] password simple xxxxx  
[H3C-luser-manage-admin] service-type ssh http https  
[H3C-luser-manage-admin] authrization-attribute user-role network-admin  
[H3C-luser-manage-admin] quit
```

ssh, http, httpsでのログイン用のユーザーアカウント作成

```
[H3C] ssh server enable  
[H3C] ip http enable  
[H3C] ip https enable
```

ACで ssh, http, https サーバー機能を有効にする

ACの設定(続き)

```
[H3C]wlan service-template user  
[H3C-wlan-st-user]ssid user  
[H3C-wlan-st-user]service-template enable  
[H3C-wlan-st-user]quit
```

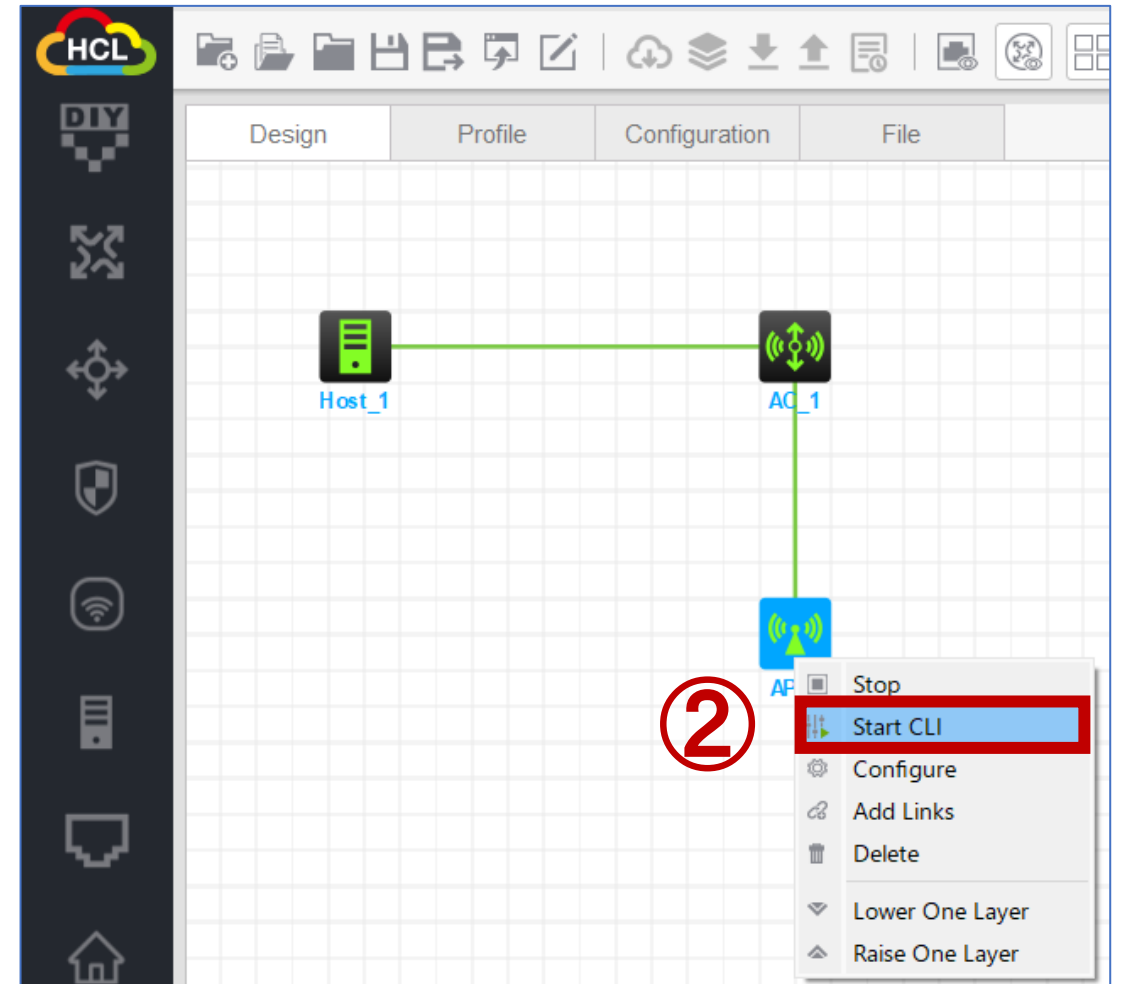
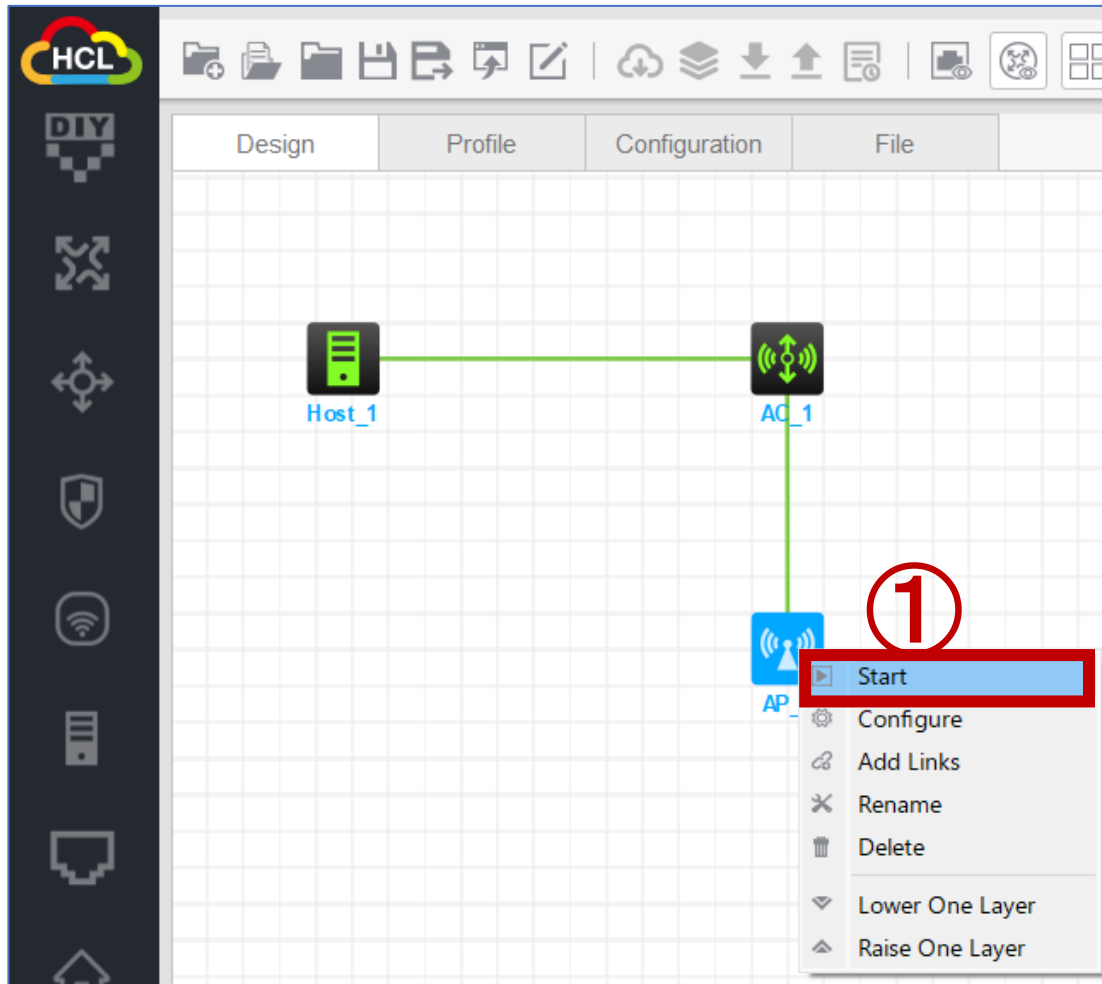
```
[H3C] wlan auto-ap enable
```

```
[H3C] wlan auto-persistent enable
```

ssidはservice-templateとして定義する

APからCAPWAPパケットでのアクセスがあった場合、そのコンフィグ情報から自動的にAPの設定を作成する

APを起動し、コンソールを開く



APの設定(コンソールから入力)

Automatic configuration attempt: 2.

Interface used: Vlan-interface1.

Enable DHCP client on Vlan-interface1.

Automatic configuration is running, press CTRL_C or CTRL_D to break.

CTRL_Cを入力して自動コンフィグを中断する

Automatic configuration is aborted.

Line con0 is available.

Press ENTER to get started.

ENTERキーを入力

<H3C>%Sep 20 10:50:00:523 2025 H3C SHELL/5/SHELL_LOGIN: -MDC=1;

Console logged in from con0.

<H3C>**sys**

System View: return to User View with Ctrl+Z.

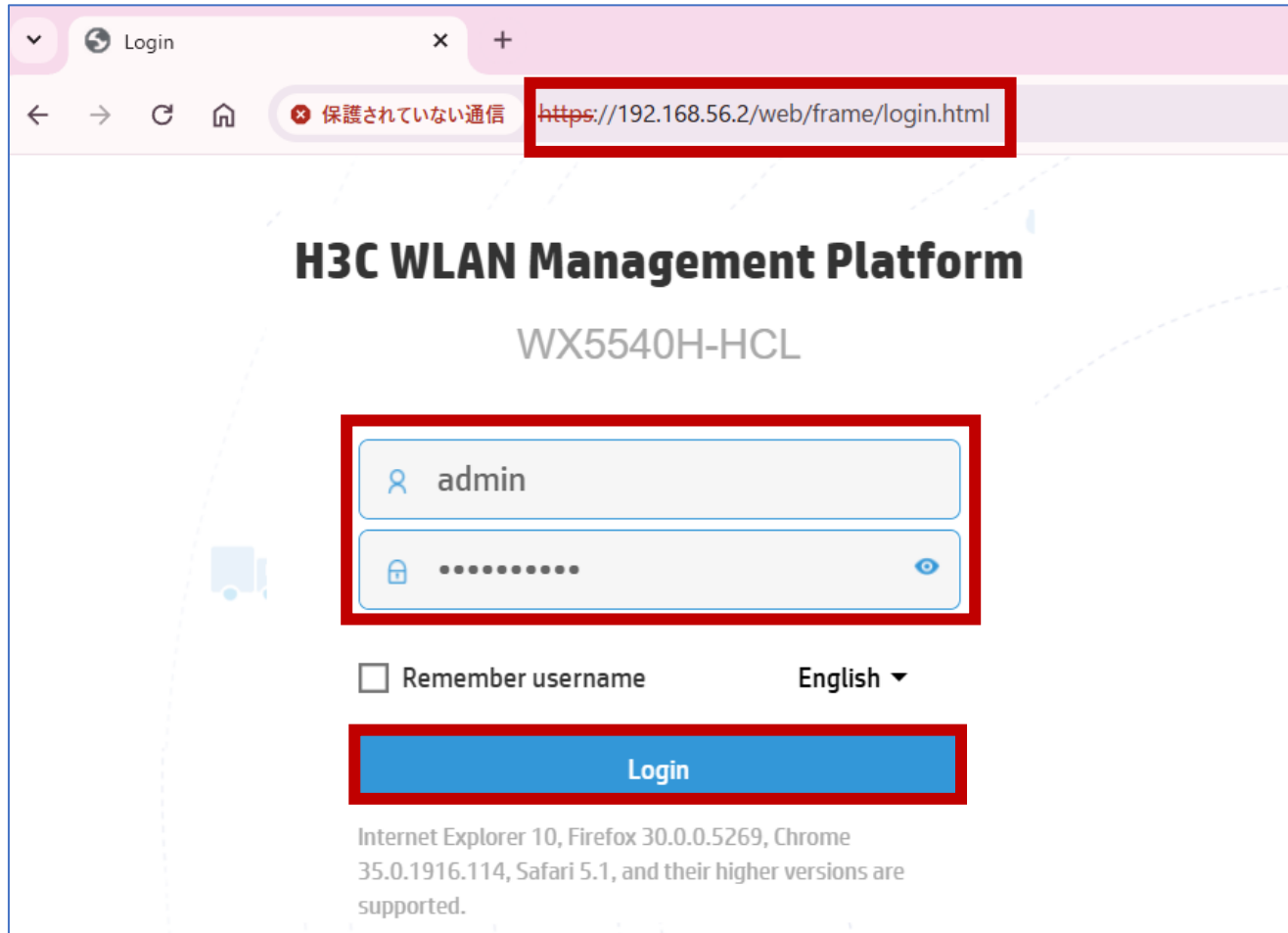
[H3C] interface vlan 1

[H3C -Vlan-interface1] ip address 192.168.56.2 24 VLANインタフェースにIPアドレスを設定する

[H3C -Vlan-interface1] quit

ACのGUIにアクセス

https://192.168.56.2/





APからuserというssidを2.4GHz, 5GHzに乗せる

The screenshot shows the H3C WX5540H-HCL web interface. The top navigation bar includes the H3C logo, the device model 'H3C WX5540H-HCL', and user options for 'Save', 'Roadmap', and 'admin'. A left sidebar contains navigation items: 'Actions', 'Dashboard', 'Quick Start', 'Monitoring', 'Wireless Configuration', 'Wireless Networks', 'AP Management', and 'Wireless QoS'. The main content area displays the 'Wireless Networks' configuration page, with a breadcrumb trail: 'All Networks > Wireless Configuration > Wireless Networks > Wireless Networks'. A table lists wireless networks, with one entry for 'user' SSID. The table columns are: 'Wireless Service Name', 'SSID', 'Wireless Service', 'Forwarding Type', 'Authentication Mode', 'Cipher Suite', 'Default VLAN', and 'Actions'. The 'user' row shows 'user' for SSID, 'ON' for Wireless Service, 'Centralized' for Forwarding Type, 'Open' for Authentication Mode, and '1' for Default VLAN. The 'Actions' column for the 'user' row contains a pencil icon for editing and a trash icon for deletion. Three red circles with numbers 1, 2, and 3 are overlaid on the image to indicate steps: 1 points to 'Wireless Configuration' in the sidebar, 2 points to 'Wireless Networks' in the sidebar, and 3 points to the edit icon in the table's actions column.

Actions

All Networks > Wireless Configuration > Wireless Networks > Wireless Networks

Wireless Networks

<input type="checkbox"/>	Wireless Service Name ▲	SSID	Wireless Service	Forwarding Type	Authentication Mode	Cipher Suite	Default VLAN	Actions
<input type="checkbox"/>	user	user	ON	Centralized	Open		1	 

APからuserというssidを2.4GHz, 5GHzに乗せる

The screenshot shows the H3C WX5540H-HCL web interface. The top navigation bar includes 'Save', 'Roadmap', and 'admin'. The breadcrumb trail is 'All Networks > Wireless Configuration > Wireless Networks > Wireless Networks > Advanced Settings(user)'. The 'Binding' tab is selected, showing a table with 'Bind to APs', 'Candidate', and 'Selected' columns. The 'Candidate' search field is empty, and the 'Selected' list contains two entries: '7206-552c-0200 (Radio1 5G)' and '7206-552c-0200 (Radio2 2.4G)'. The 'Apply' button is highlighted.

① Wireless Configuration

② Wireless Networks

③ [Candidate Search Field]

④ Apply

7206-552c-0200 (Radio1 5G)
7206-552c-0200 (Radio2 2.4G)

APの2.4GHz, 5GHzの電波回路をONにする

The screenshot shows the H3C WX5540H-HCL management interface. The left sidebar contains a menu with the following items: Actions, Dashboard, Quick Start, Monitoring, **Wireless Configuration** (highlighted with a red box and circled '1'), Wireless Networks, **AP Management** (highlighted with a red box and circled '2'), Wireless QoS, and Wireless Security. The main content area displays the breadcrumb 'All Networks > Wireless Configuration > AP Management > AP' and sub-tabs for 'AP', 'AP Groups', 'AP Global Settings', 'AP Provisioning', and 'AP Group Provisioning'. The 'AP Groups' tab is active, showing a search bar and a table of AP groups. The table has columns: Name, Installation Date, Description, AP Group, Type, Model, Serial ID, MAC Address, Radios, Status, and Actions. One row is visible with the following data: Name: 7206-552c..., Installation: 2025-09-22, Description: default-group, AP Group: default-group, Type: Manual AP, Model: WA6320..., Serial ID: H3C_72-06..., MAC Address: 72-06-55-2C-0..., Radios: 802.11ax(5...), Status: Online, and Actions: Edit (highlighted with a red box and circled '3') and Delete.

Name	Installation ...	Description...	AP Group	Type	Model	Serial ID	MAC Address	Radios	Status...	Actions
7206-552c...	2025-09-22	default-group	default-group	Manual AP	WA6320...	H3C_72-06-...	72-06-55-2C-0...	802.11ax(5...	Online	Edit, Delete

APの2.4GHz, 5GHzの電波回路をONにする

The screenshot shows the H3C WX5540H-HCL management interface. The left sidebar contains a menu with 'Wireless Configuration' (1) and 'AP Management' (2) highlighted. The main content area shows the 'Edit AP (7206-552c-0200)' configuration page. The 'Basic Settings' tab is active, displaying fields for Name, Installation date, Description, and various identification numbers. At the bottom, the 'Firmware upgrade' section has '5GHz(1) radio' and '2.4GHz(2) radio' both set to 'ON' (3). The 'Apply' button (4) is also highlighted. A red horizontal line is drawn across the bottom of the configuration area.

① Wireless Configuration

② AP Management

③ 5GHz(1) radio ON
2.4GHz(2) radio ON

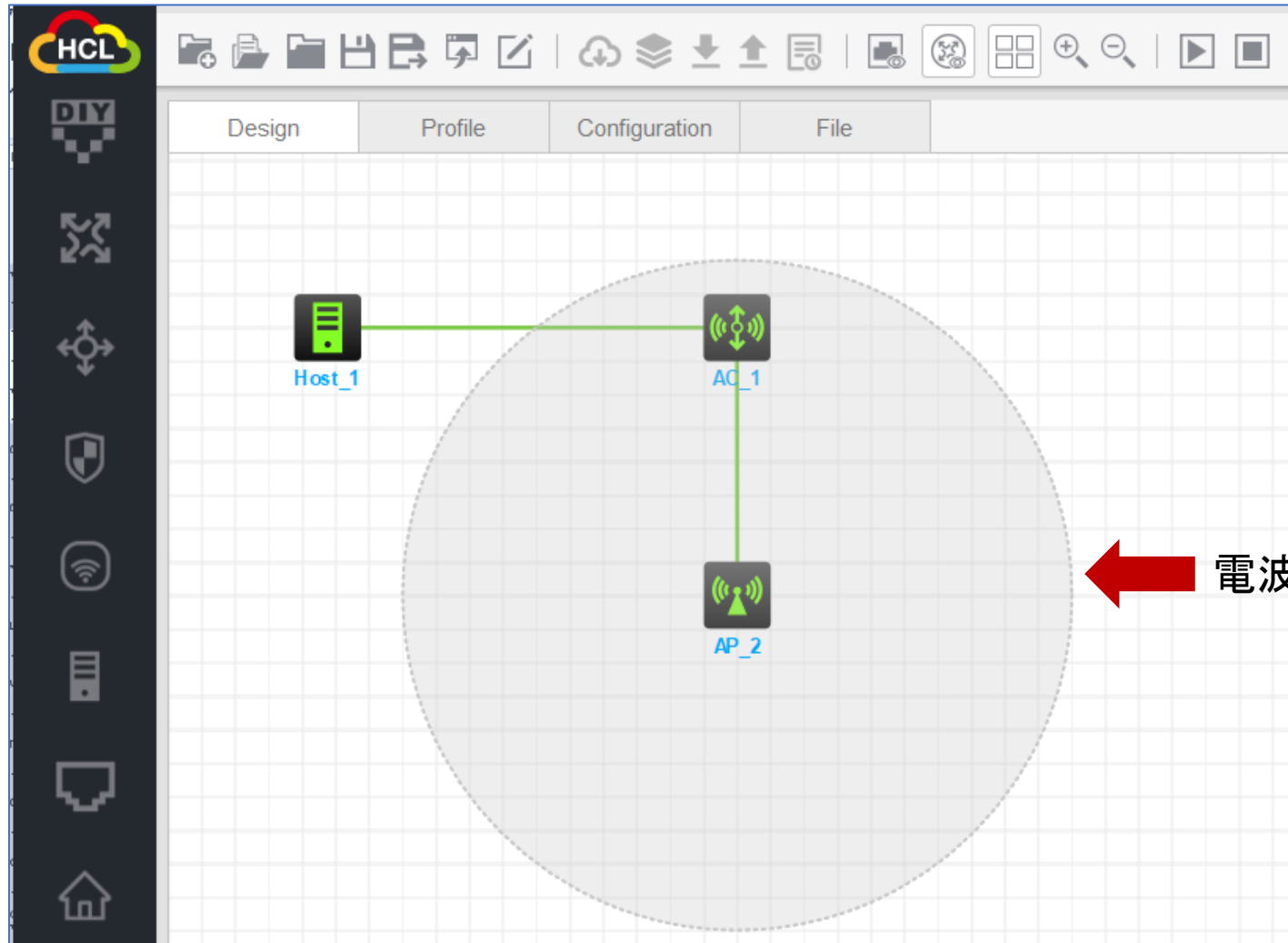
④ Apply

途中省略

GUIでの操作ではAPのssid, 電波のONを行った

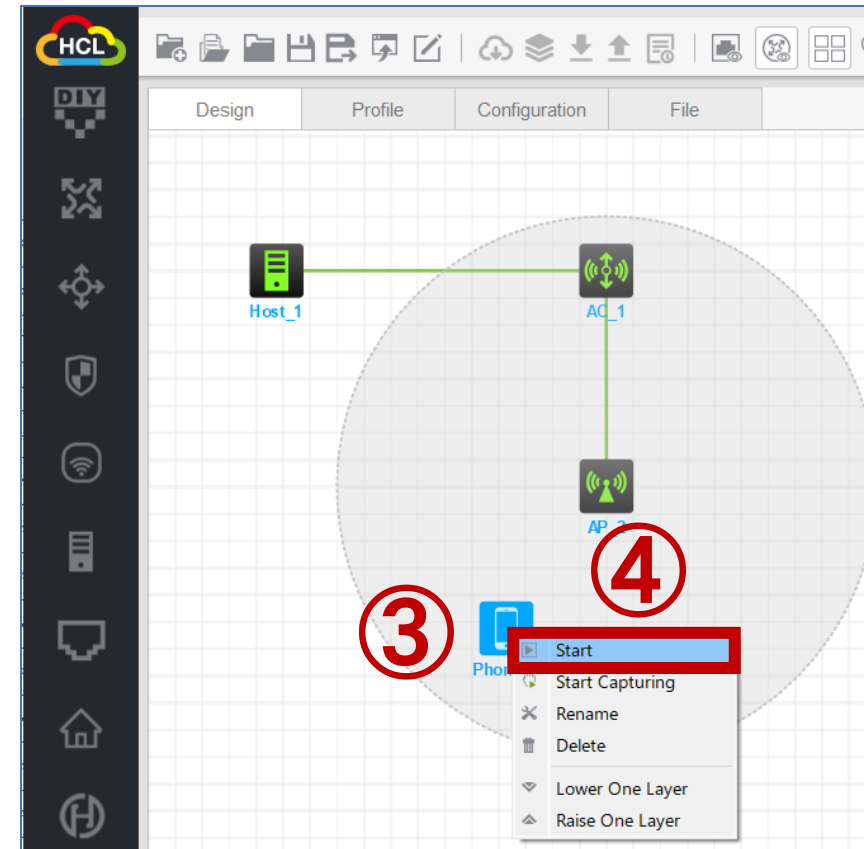
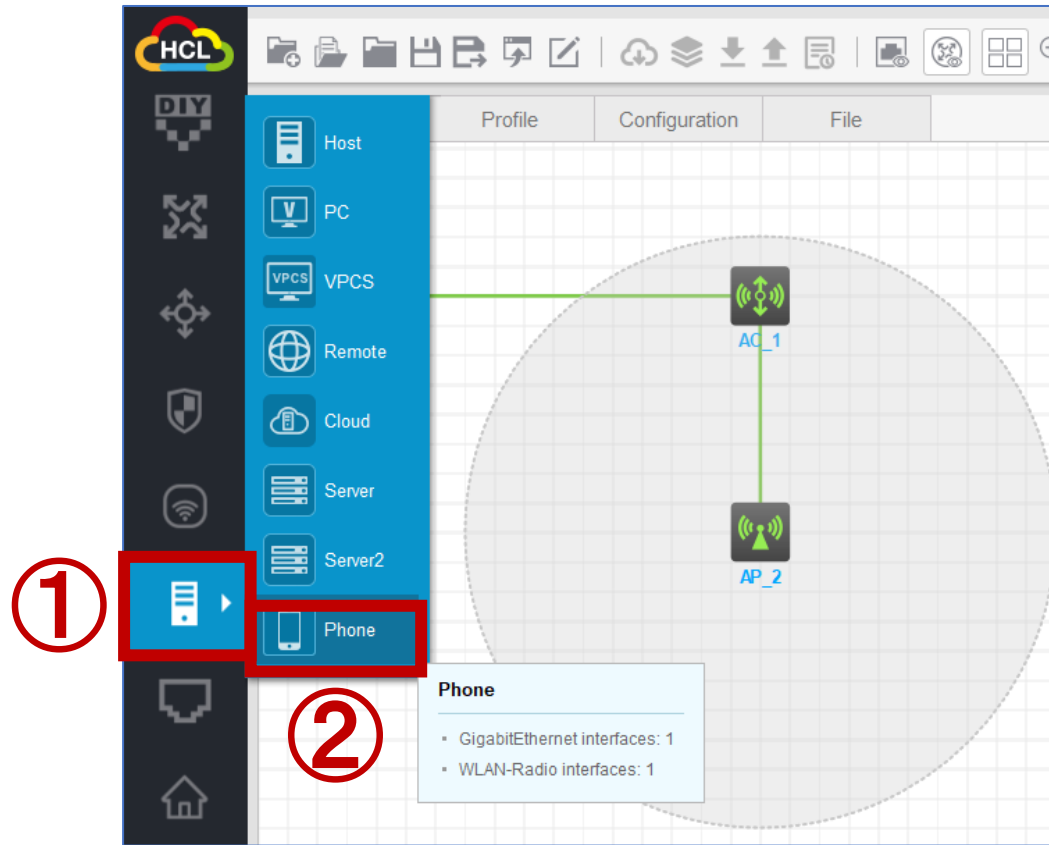
```
[H3C] wlan ap 7206-552c-0200 model WA6320-HCL
[H3C-wlan-ap-7206-552c-0200] serial-id H3C_72-06-55-2C-02-00
[H3C-wlan-ap-7206-552c-0200] vlan 1
[H3C-wlan-ap-7206-552c-0200-vlan1] quit
[H3C-wlan-ap-7206-552c-0200-vlan1] radio 1 radio 1は5GHzの電波
[H3C-wlan-ap-7206-552c-0200-vlan1-radio-1] radio enable 電波のハード ON
[H3C-wlan-ap-7206-552c-0200-vlan1-radio-1] service-template user 送出するssidはuserで定義されたもの
[H3C-wlan-ap-7206-552c-0200-vlan1-radio-1] quit
[H3C-wlan-ap-7206-552c-0200-vlan1] radio 2 radio 2は2.4GHzの電波
[H3C-wlan-ap-7206-552c-0200-vlan1-radio-2] radio enable
[H3C-wlan-ap-7206-552c-0200-vlan1-radio-2] service-template user
[H3C-wlan-ap-7206-552c-0200-vlan1-radio-2] quit
[H3C-wlan-ap-7206-552c-0200] gigabitethernet 1
[H3C-wlan-ap-7206-552c-0200] quit
```

APからssid userを乗せた電波が出ている

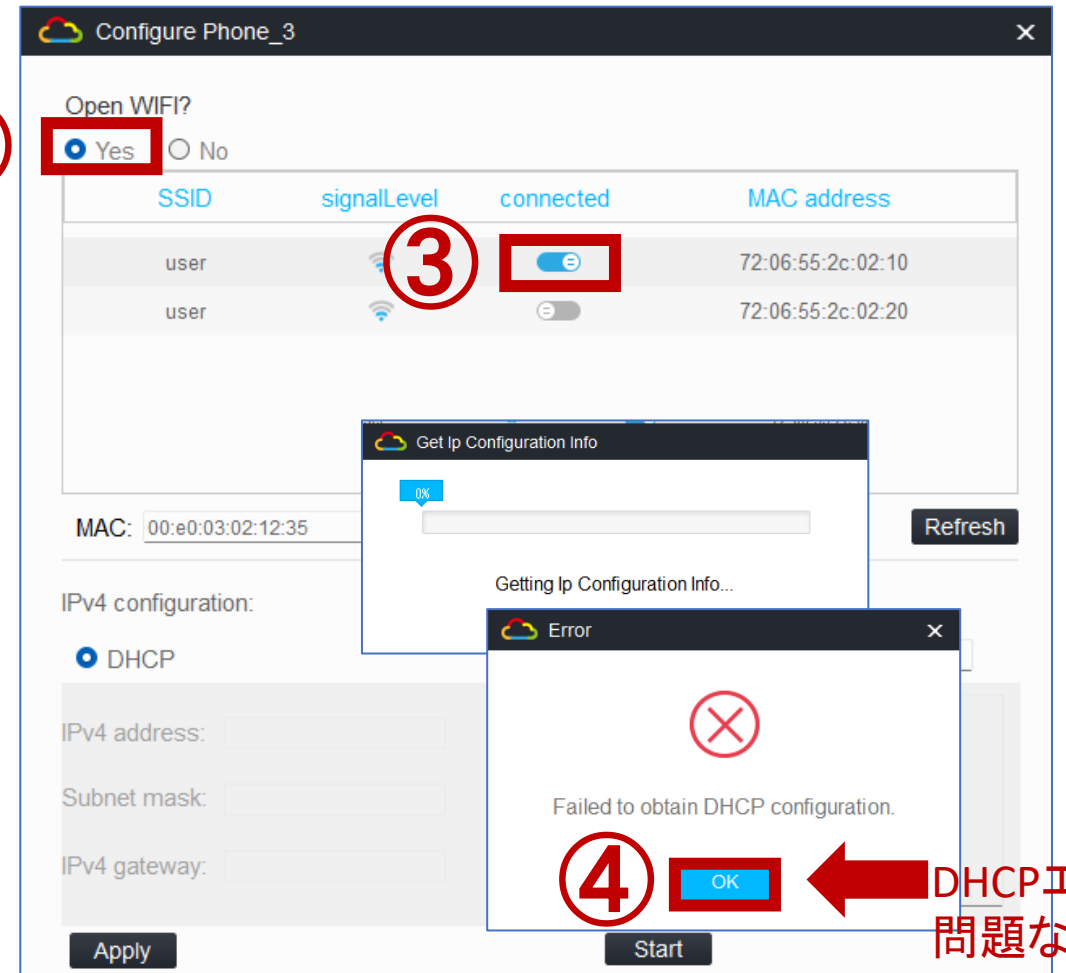
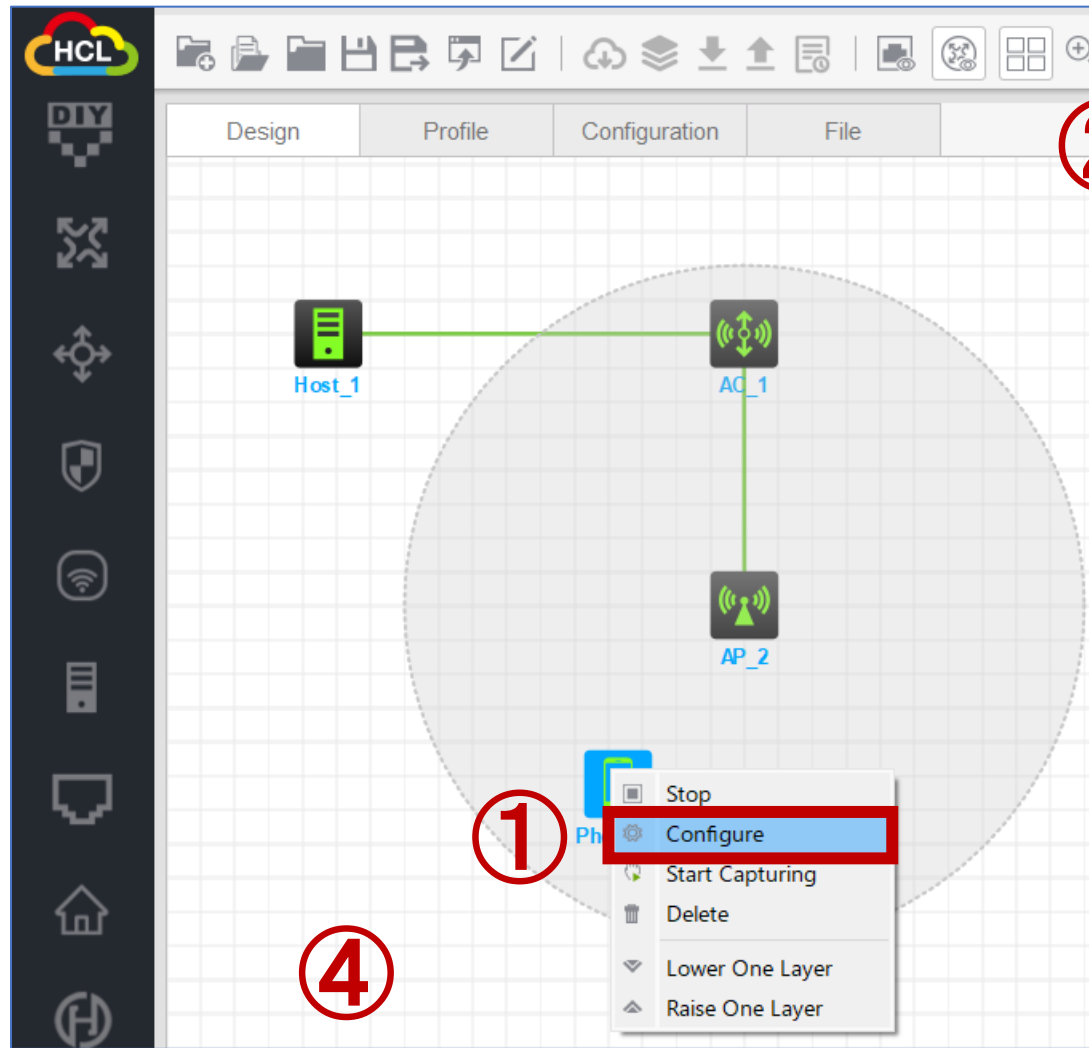


電波の到達範囲

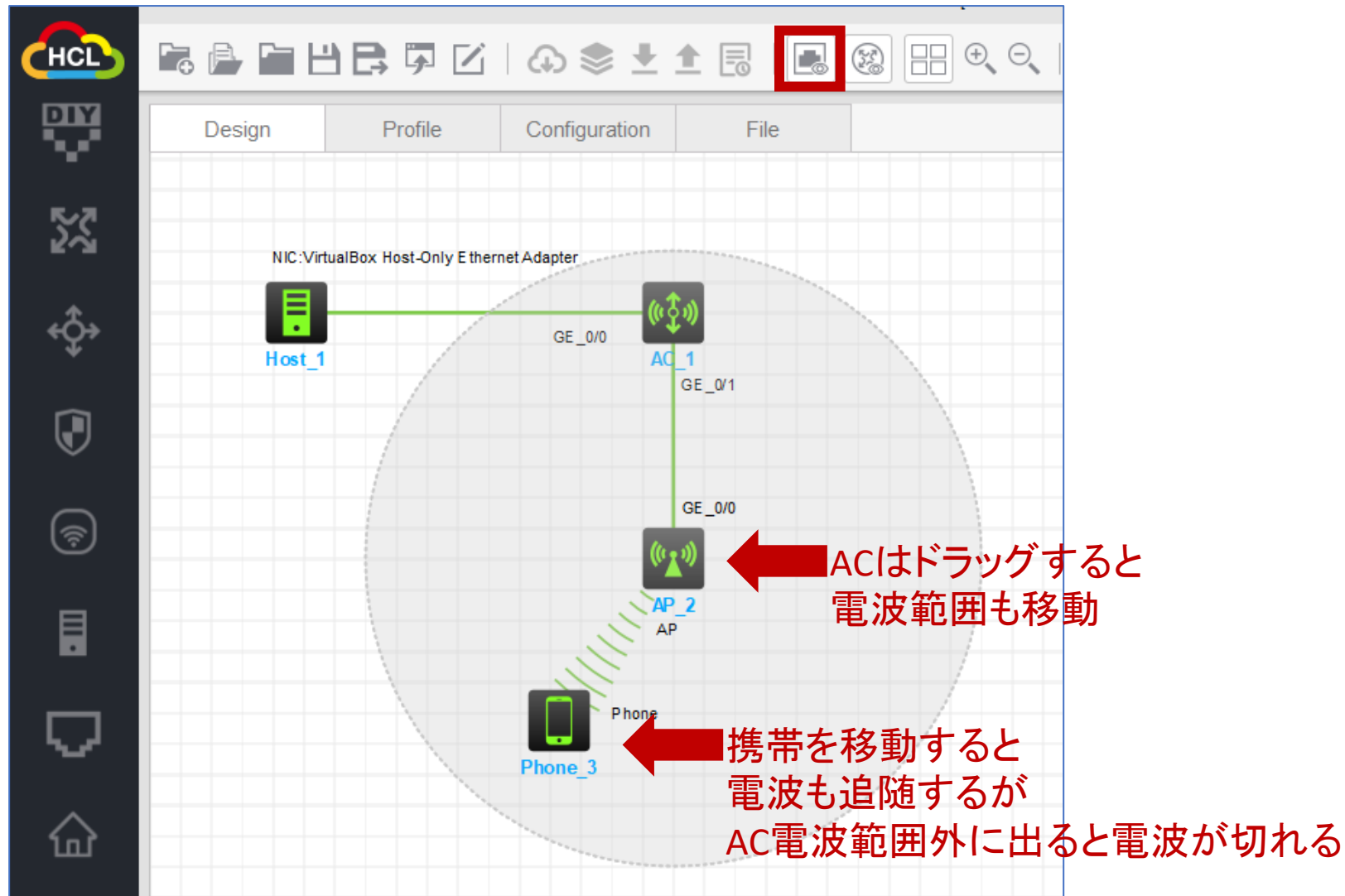
電波を受ける携帯を配置して起動



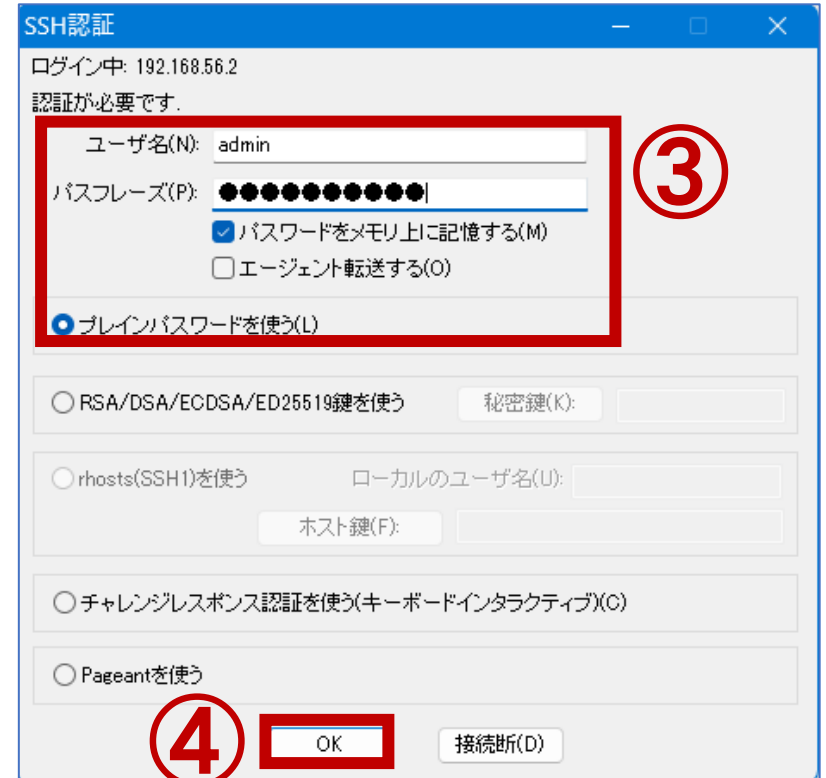
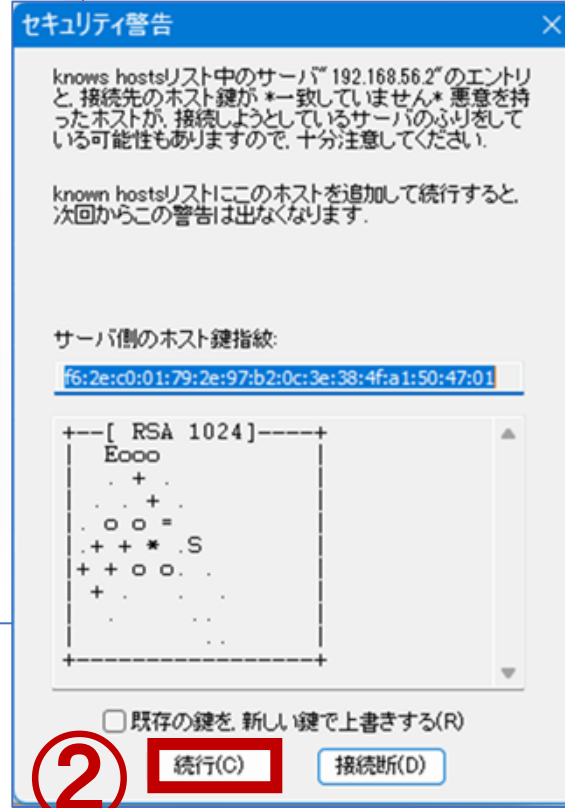
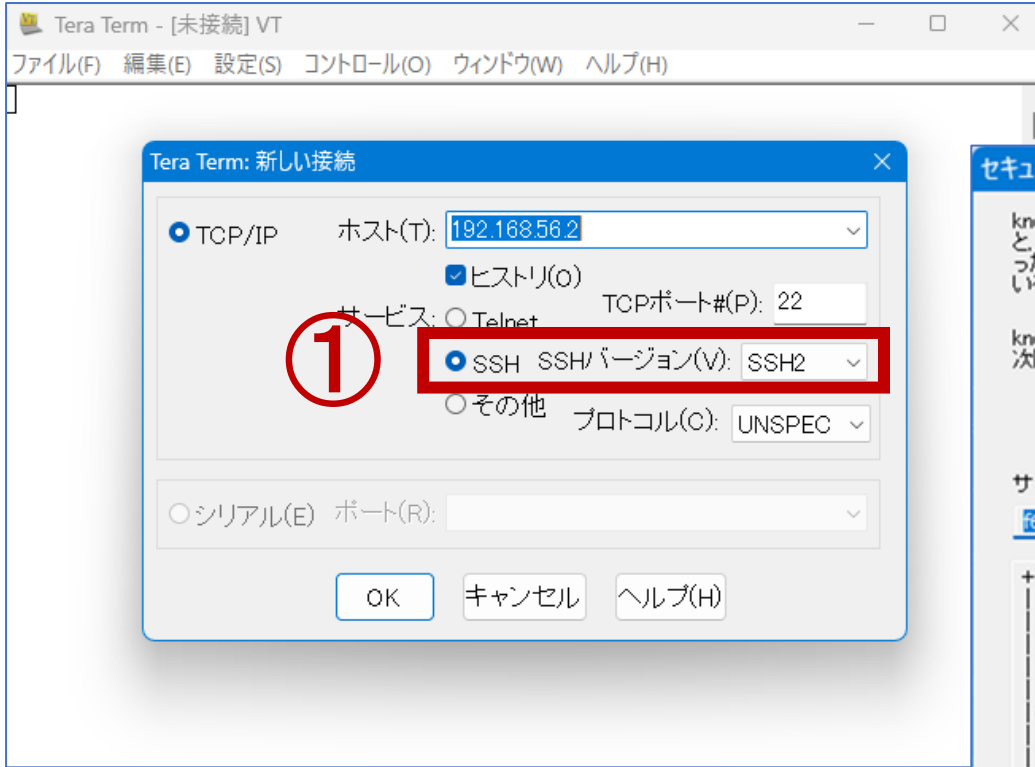
携帯で電波受信ON, 電波を選択



携帯が電波を捉えた



SSH2でのログイン



SSH2でログインしてAPとクライアントを確認

```
192.168.56.2:22 - Tera Term VT
ファイル(F) 編集(E) 設定(S) コントロール(O) ウィンドウ(W) ヘルプ(H)
<H3C>dis wlan ap all
Total number of APs: 1
Total number of connected APs: 1
Total number of connected manual APs: 1
Total number of connected auto APs: 0
Total number of connected common APs: 1
Total number of connected WTUs: 0
Total number of inside APs: 0
Maximum supported APs: 60000
Remaining APs: 59999
Total AP licenses: 60000
Local AP licenses: 60000
Server AP licenses: 0
Remaining local AP licenses: 59999
Sync AP licenses: 0

AP information
State : I = Idle,      J = Join,      JA = JoinAck,  IL = ImageLoad
        C = Config,   DC = DataCheck, R = Run,      M = Master,  B = Backup

AP name          APID  State Model          Serial ID
7206-552c-0200   1     R/M  WA6320-HCL         H3C_72-06-55-2C-02-00

<H3C>dis wlan client
Total number of clients: 1

MAC address      User name          AP name          R IP address      VLAN
00e0-0302-1235  N/A                7206-552c-0200  1                  1
<H3C>
```

コンフィグを保存して終了

CLIの場合

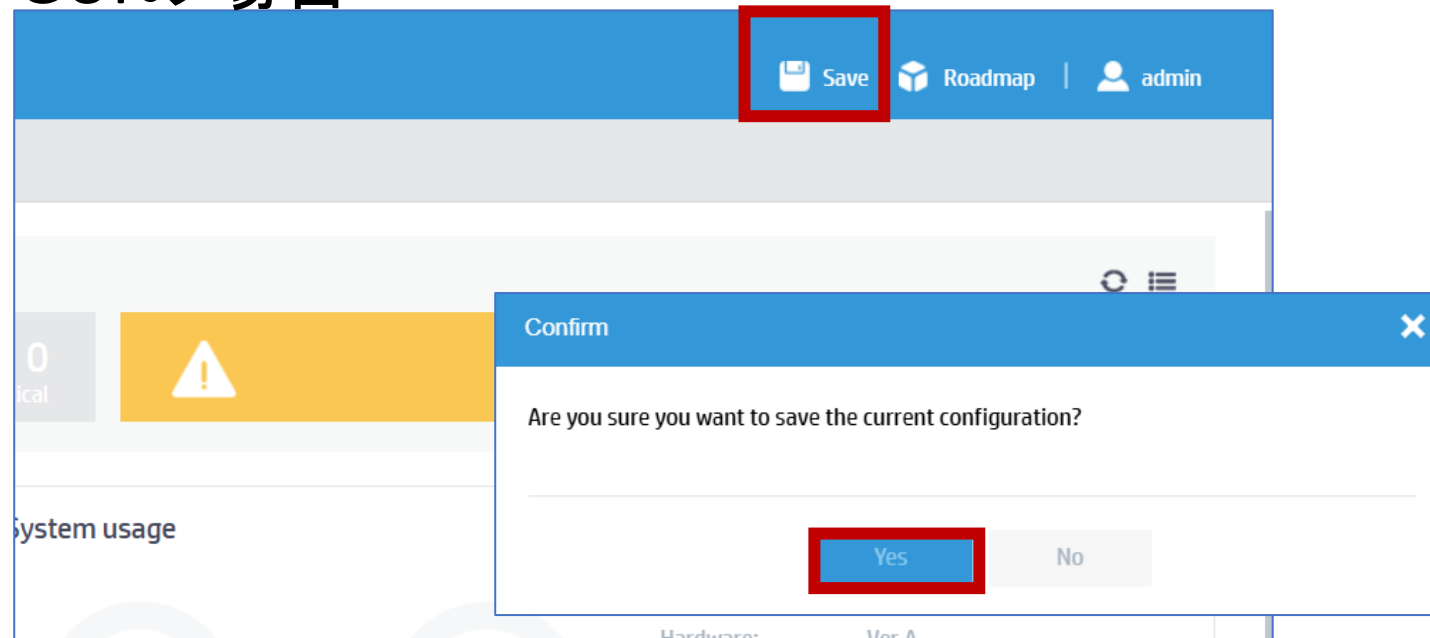
[H3C]**save force**

Validating file. Please wait...

Saved the current configuration to mainboard device successfully.

[H3C]

GUIの場合



H3C

www.h3c.com