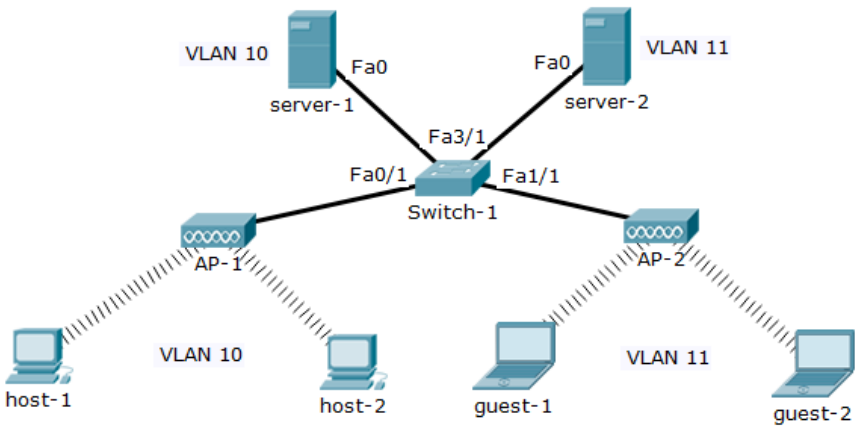
Autonomous AP - Multiple SSID

Lab Summary

Configure AP-1 and AP-2 with an SSID for employees (VLAN 10) and guests (VLAN 11) with WPA2-PSK authentication.

Figure 1 Lab Topology



Lab Configuration

Start Packet Tracer File: **Multiple AP**

Click on the *AP-1* icon and select the *Config* folder..

AP-1

Port 1

Step 1. SSID: **CCNAWIFI**

Step 2. Non-overlapping channel: (select 1) **1**,6,11

Step 3. Authentication: **WPA2-PSK**

Step 4. Passcode: **cisconet**

Step 5. Verify AES is selected

Port0

Step 6. Uplink to Switch: **Auto/Auto**

Host-1

Wireless0 Interface

Step 1. SSID: **CCNAWIFI**

Step 2. Authentication: **WPA2-PSK**

Step 3. Passcode: **cisconet**

Step 4. Verify AES is selected

Host-2

Wireless0 Interface

Step 1. SSID: **CCNAWIFI**

Step 2. Authentication: **WPA2-PSK**

Step 3. Passcode: **cisconet**

Step 4. Verify AES is selected

Click on the *AP-2* icon and select the *Config* folder..

AP-2

Port 1

Step 1. SSID: **GUEST**

Step 2. Non-overlapping channel: (select 11) 1,6,**11**

Step 3. Authentication: **WPA2-PSK**

Step 4. Passcode: **ccnaexam**

Step 5. Verify AES is selected

Port0

Step 6. Uplink to Switch: **Auto/Auto**

Guest-1

Wireless0 Interface

Step 1. SSID: **GUEST**

Step 2. Authentication: **WPA2-PSK**

Step 3. Passcode: **ccnaexam**

Step 4. Verify AES is selected

Guest-2

Wireless0 Interface

Step 1. SSID: **GUEST**

Step 2. Authentication: **WPA2-PSK**

Step 3. Passcode: **ccnaexam**

Step 4. Verify AES is selected

Verify Lab

Ping server-1 and server-2 to verify there is network connectivity.

host-1: **ping 192.168.1.3**

host-2: **ping 192.168.1.3**

guest-1: **ping 192.168.2.3**

guest-2: **ping 192.168.2.3**

Lab Notes

- Switch-1 port **Fa0/1** uplink was configured as an access port in host VLAN 10.
- Switch-1 port **Fa1/1** uplink was configured as an access port in guest VLAN 11.
- Connecting multiple VLANs to **AP-1** for example, would require you to configure switch-1 port **Fa0/1** as a trunk interface and allow all VLANs.
- AP-1 would require bridge groups and radio subinterfaces for each VLAN to trunk multiple VLANs across the switch uplink.