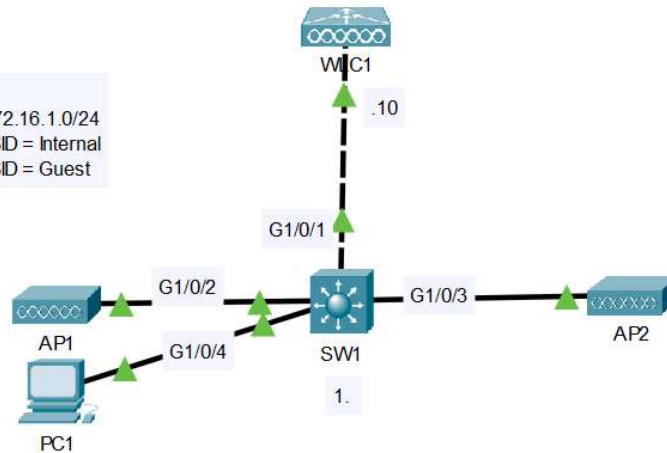


Wireless Lan Controller (WLC) Configuration

In this lab, we'll configure a WLC that supports two Lightweight Access Points (LAPs). You can follow along by downloading this [Wireless LANs Packet Tracer File](#) and opening it in [Cisco's Free Packet Tracer Simulator](#) (create a free account, enroll in one of the free courses and download the free software).

VLAN/WLAN info:
VLAN10 (Management)= 172.16.1.0/24
VLAN100 = 10.0.0.0/24, SSID = Internal
VLAN200 = 10.1.0.0/24, SSID = Guest



1. Use the web browser on PC1 to access the GUI of WLC1.
Username: admin
Password: Cisco123
*you must use HTTPS
2. Spend some time familiarizing yourself with the WLC GUI.
What information can be viewed from each tab?
What is the current state of the network?
3. Configure dynamic interfaces for the Internal & Guest VLANs.
4. Create the Internal & Guest WLANs using WPA2+PSK.
5. Add a wireless client to the network and associate it with an AP.

LAB STEPS:

TASK	WLC STEPS
<p>Create New Dynamic Interface: (a new <i>Dynamic Interface</i> should be created every VLAN connected to your WLC Split-Mac deployment)</p>	<p>CONTROLLER tab > New > Port num [1] > Name of int [<i>Internal</i>] > VLAN ID [100] > IP Address [10.0.0.10] > Mask [255.255.255.0] > Gateway [10.0.0.1] > DHCP Server [10.0.0.1] > Apply (screen won't change) > Back</p> <p>CONTROLLER tab > New > Port num [1] > Name of int [<i>Guest</i>] > VLAN ID [200] > IP Address [10.1.0.10] > Mask [255.255.255.0] > Gateway [10.1.0.1] > DHCP Server [10.1.0.1] > Apply (screen won't change) > Back</p>
<p>Create new WLAN: (a new <i>WLAN</i> should be created for every VLAN on the network)</p>	<p>WLANs tab > Create New (dropdown) > Go (button) > Type: WLAN, Profile Name: [<i>Internal</i>] > SSID: [<i>Internal</i>] > ID: [1] > Apply</p> <p>Brings you to new screen: WLANs > Edit 'Internal' > General tab > Status: [check 'Enabled'] > Interface/Interface Group(G): [<i>Internal</i>] maps WLAN to Interface</p> <p>Move to Security tab > Layer 2 > [WPA+WPA2] > WPA2 Policy [enable via check box] > WPA2 Encryption [AES] > PSK [enable via check box] > Config password in blank text field [<i>Cisco123</i>] > Apply (screen won't change) > Back</p> <p>Repeat same steps as above for the Guest WLAN</p>
Associate Wireless Clients	Config > Wireless > SSID [<i>Internal</i>] > Authentication > WPA2-PSK [<i>Cisco123</i>]

Shown below, we are able to connect a wireless tablet to the **Internal** SSID using the password **Cisco123**:

VLAN/WLAN info:
VLAN10 (Management)= 172.16.1.0/24
VLAN100 = 10.0.0.0/24, SSID = Internal
VLAN200 = 10.1.0.0/24, SSID = Guest

