

Configure a Basic WLAN on the WLC

Prepared by: Ayobami Omotayo Odulaja

Part 1: Monitor the WLC

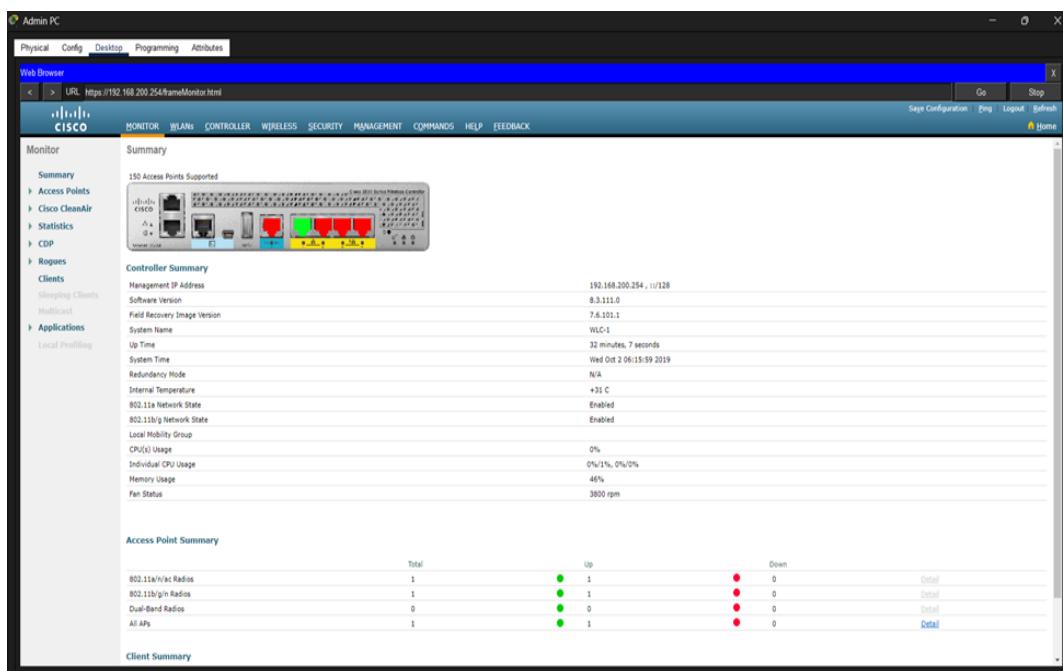


Figure 1 – WLC Monitor Summary

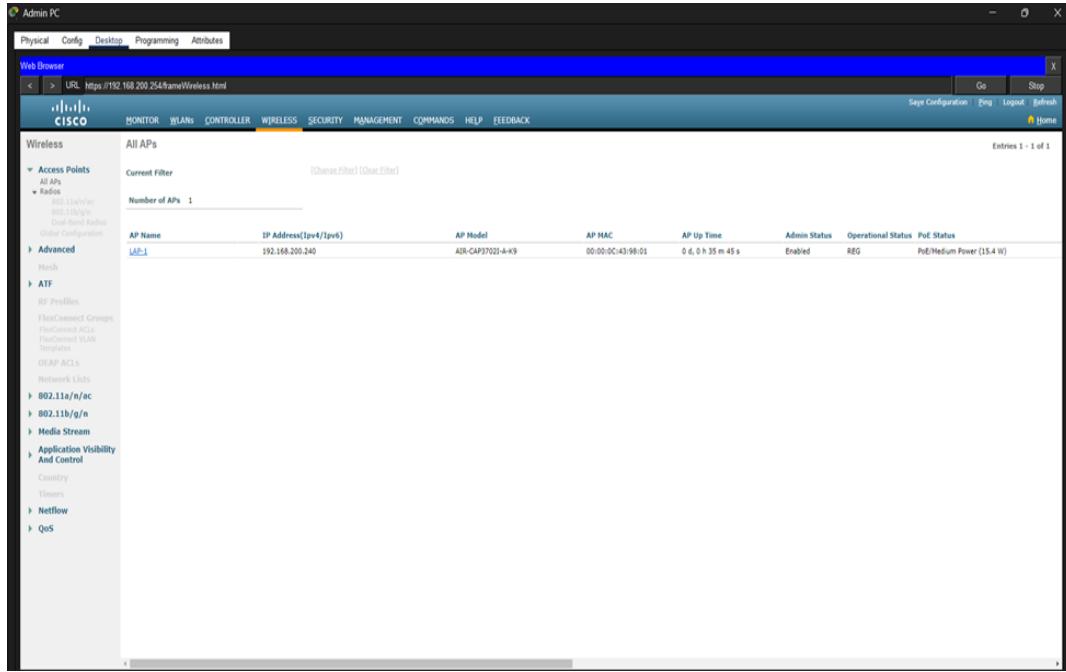


Figure 2 – All APs Details

Part 2: Create a Wireless LAN

Addressing Table:

Device	Interface	IP Address
R-1	G/0/0	172.31.1.1/24
	G/0/0/1.5	192.168.5.1/24
	G/0/0/1.200	192.168.200.1/24
SW-1	VLAN 200	192.168.200.100/24
LAP-1	G0	DHCP
WLC-1	Management	192.168.200.254/24
Server	NIC	172.31.1.254/24
Admin PC	NIC	192.168.200.200/24
Wireless Host	Wireless NIC	DHCP

Figure 3 – WLANs Initial Screen

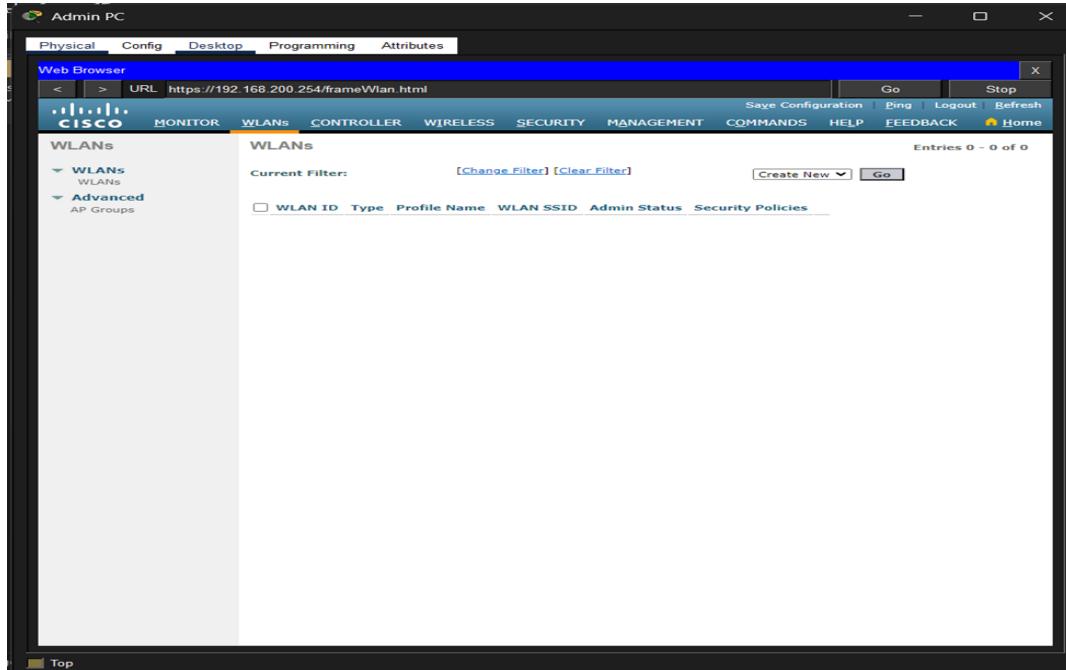


Figure 4 – WLAN Creation Settings

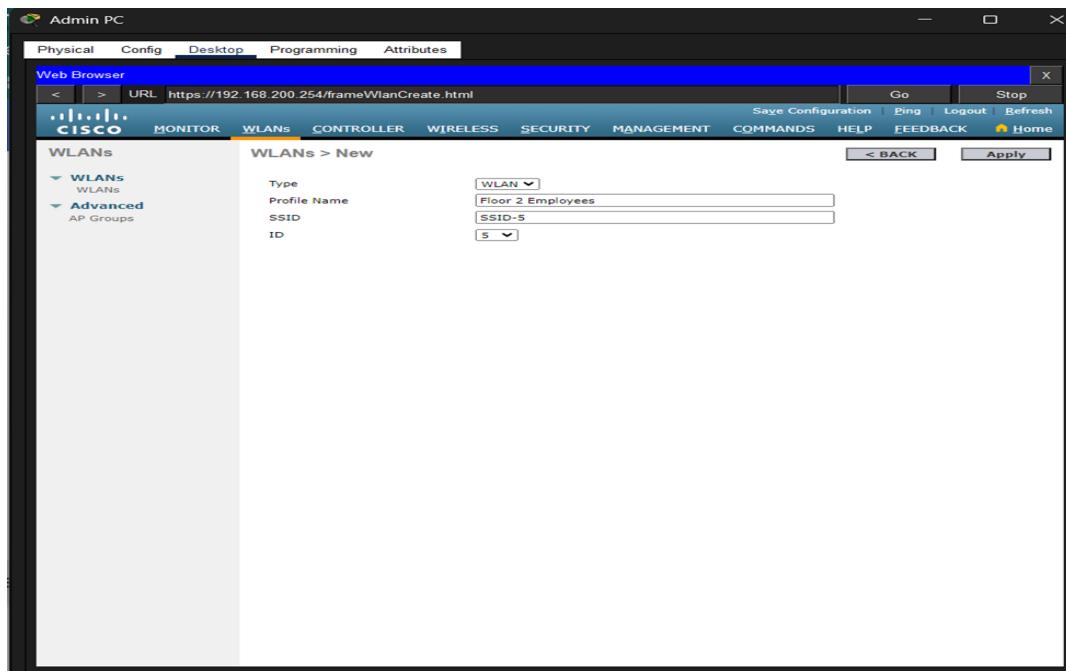


Figure 5 – WLAN Enabled and Interface Assigned

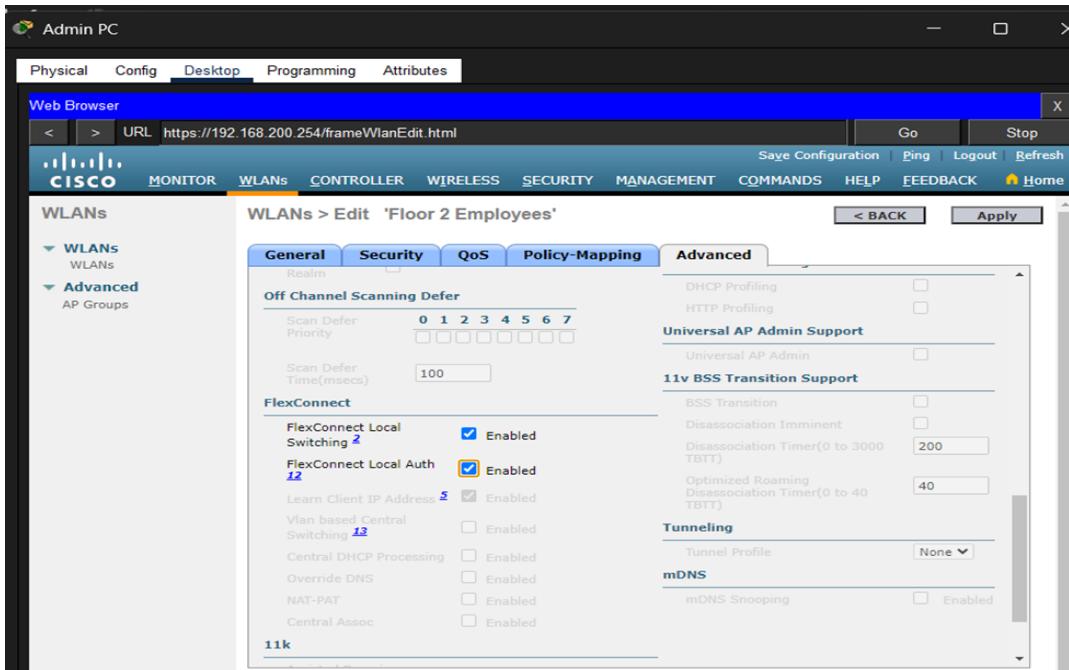


Figure 6 – FlexConnect Settings Enabled

WLAN Security Configuration

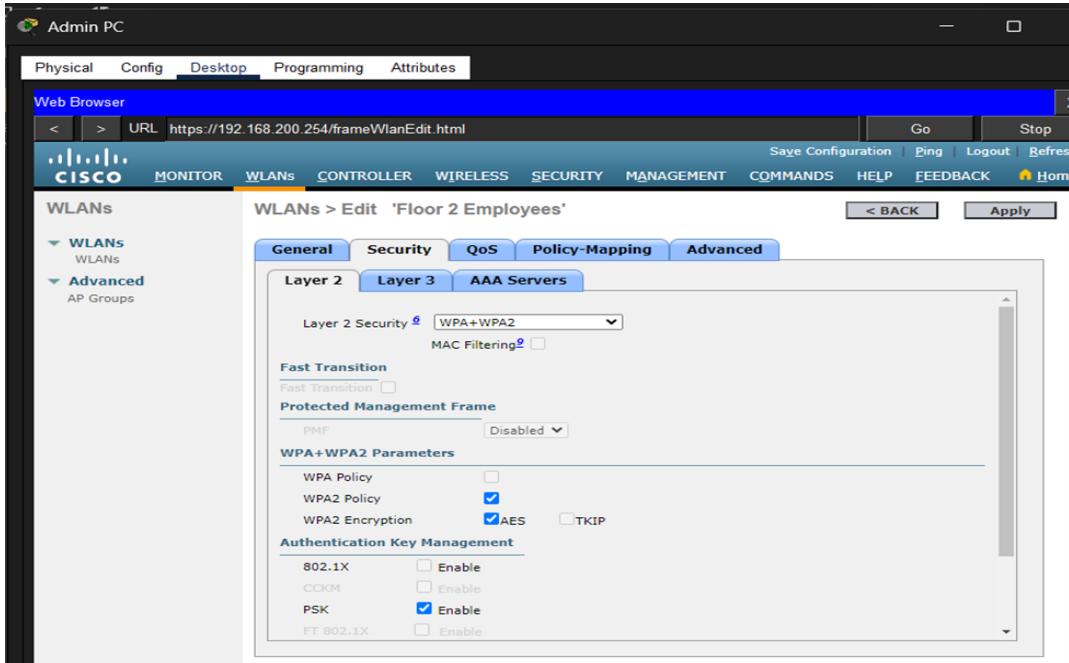


Figure 7 – WLAN Security WPA2-PSK

Part 3: Connect Host and Verify Connectivity

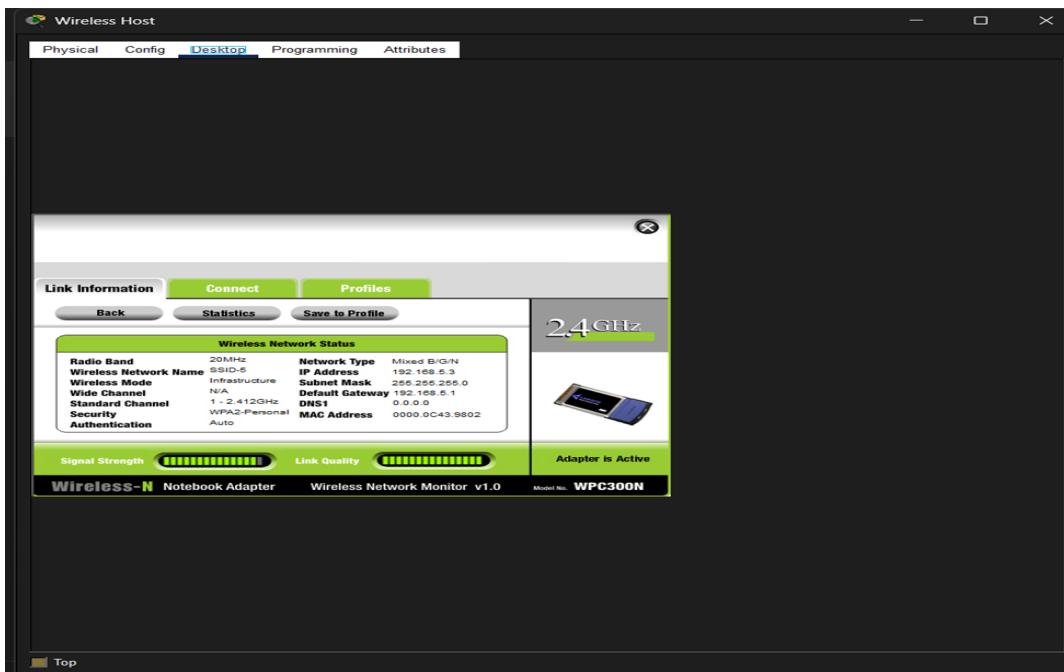


Figure 8 – Wireless Host Connected to SSID-5

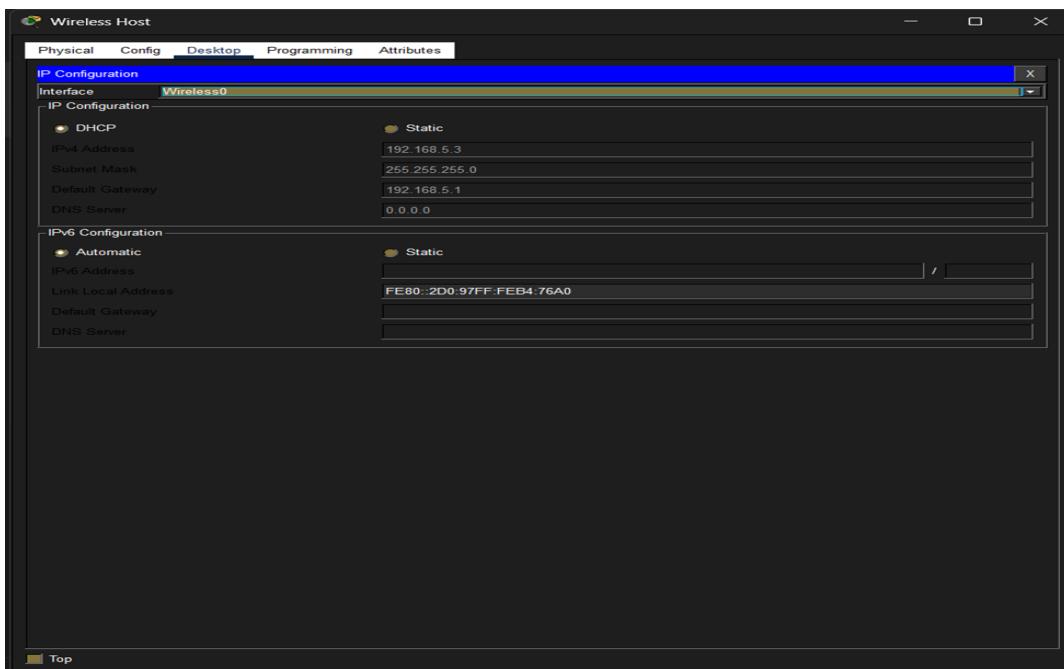


Figure 9 – DHCP IP Assigned

```

Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.5.1

Pinging 192.168.5.1 with 32 bytes of data:
Reply from 192.168.5.1: bytes=32 time=6ms TTL=255
Reply from 192.168.5.1: bytes=32 time=4ms TTL=255
Reply from 192.168.5.1: bytes=32 time=5ms TTL=255
Reply from 192.168.5.1: bytes=32 time=26ms TTL=255

Ping statistics for 192.168.5.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 6ms, Maximum = 68ms, Average = 32ms

C:\>ping 172.31.1.254

Pinging 172.31.1.254 with 32 bytes of data:
Request timed out.
Reply from 172.31.1.254: bytes=32 time=33ms TTL=127
Reply from 172.31.1.254: bytes=32 time=33ms TTL=127
Reply from 172.31.1.254: bytes=32 time=63ms TTL=127

Ping statistics for 172.31.1.254:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 33ms, Maximum = 63ms, Average = 43ms

C:\>

```

Figure 10 – Successful ICMP Ping Tests

Final Topology Screenshot

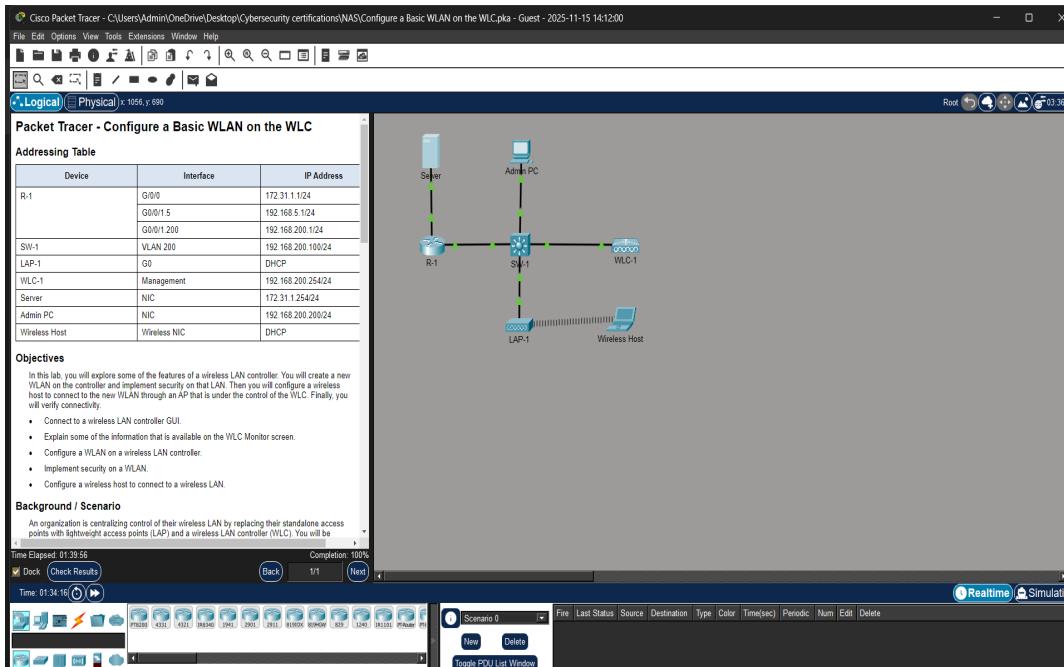


Figure 11 – Final Packet Tracer Topology