# CREATING A HOME WIFI NETWORK USING CISCO PACKET TRACER

### **Topology:**

- 1. Home Router PT-AC Wireless Router.
- 2. Laptop-PT Laptop 0.
- 3. Laptop-PT Laptop 1.
- 4. Laptop-PT Laptop 2.

# **Objectives:**

- 1. Connecting Laptops to the internet through the Home Router PT-AC Wireless Router.
- 2. Configuring basic network settings to Home Router PT-AC Wireless Router.
- 3. Assigning each IP Address to Laptops-PT.
- 4. Testing connectivity between devices.

### **Step by step procedures:**

## Part 1: Setting up Devices

- 1. Open Cisco Packet Tracer 8.2.1 and create a new project.
- 2. Drag and drop the following devices onto the workshop:
  - Home Router PT-AC Wireless Router
  - Laptop-PT
- 3. Arrange devices to resemble a home network.



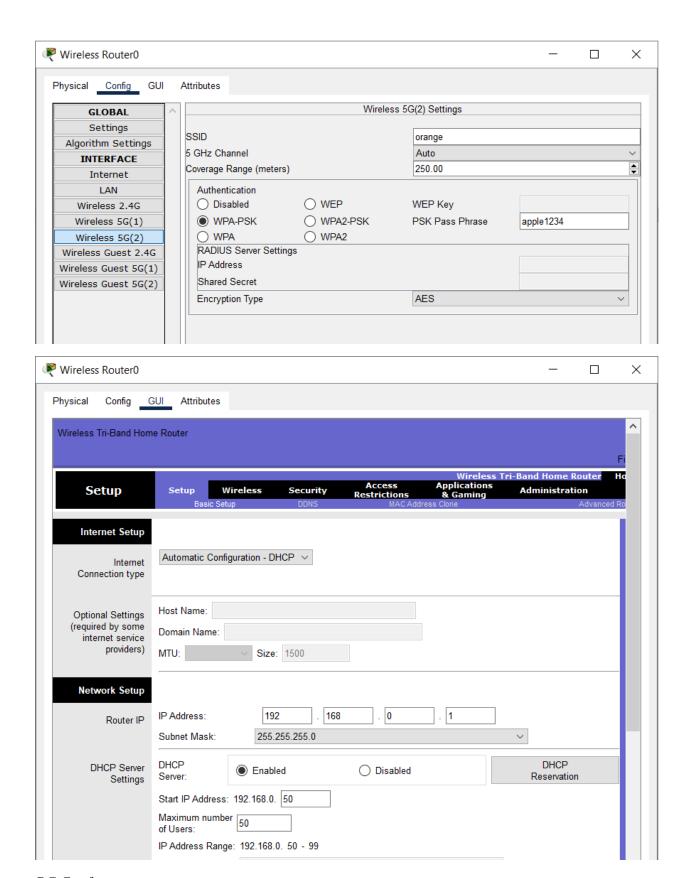






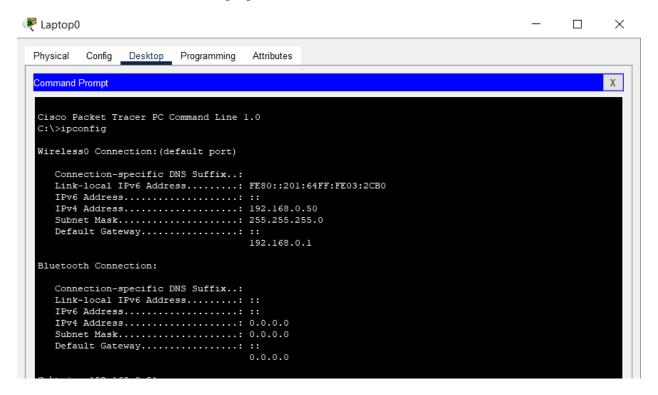
#### Part 2: Configuring Devices

- 1. Click on the Home Router-PT-AC Wireless Router0 and select "Config" tab.
- 2. Set SSID name, Check Authentication WPA-PSK and Assign PSK Pass Phase.
- 3. Click on the Home Router-PT-AC Wireless Router0 and select "GUI" tab.
- 4. Assing start IP Address 192.168.0.50.



PC Configuration

- 1. Click on each laptop and select "Config" tab.
- 2. Set the routers IP addresses range 192.168.0.50 or your preferred IP range.
- 3. Set the default gateway: 192.168.1.1
- 4. Check if each Laptop has it's on IP Address as shown below.

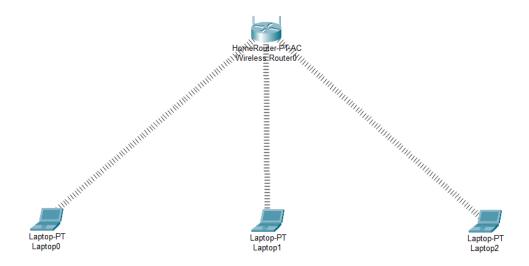


#### Part 3: Connecting Devices.

- 1. Connect Laptops to Home Router-PT-AC Wireless Router0 wirelessly.
- 2. Assign each Laptop with a SSID name, WPA-PSK and PSK Pass Phase: apple1234.
- 3. Assign each Wireless LAN based on SSID and PSK Pass Phase based on wireless bandwidth type.

#### Part 4: Testing Connectivity.

- 1. Connect Laptops to Home Router-PT-AC Wireless Router0 wirelessly.
- 2. Assign each Laptop with a SSID name, WPA-PSK and PSK Pass Phase: apple1234.
- 3. Check if each Laptop is connected wirelessly as shown in the figure below.



- 4. Save the file as Home WiFi Network.pkt file.
- 5. Export your configurations files for future reference.