

Expt. 12 – 18/12/2024

18/12

Expt No 12: WLAN

Aim: To construct a wireless LAN and make the nodes communicate wirelessly.

Procedure:

1. Create the topology as given above & configure the devices.
2. Configure Access Point:
 - Click Access Point → Config → Port 1:
 - SSID: brscc
 - Select: WEP
 - Set key: 1234567890

Date / /201

3. Configure PC & Laptop with wireless standards:
 - Switch off device
 - Drag the existing FI-HOST-NM-IAM to the component listed in the LHS of Physical
 - Drag WMP300N wireless interface to the empty port.
 - Switch on the device.
4. In the config tab, a new wireless interface was added.
5. Configure the device by entering SSID, WEP, WEP Key, IP address & Gateway.

Topology after Wireless Configuration:

6. Ping from every device to every other device to check for connection.

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Observation :

1. We were able to ping from every device to every other device.
2. Access Point :
Creates bridge b/w wired & wireless devices.
- SSID Broadcasting : Announces the wireless network's name (SSID) to allow devices to connect using WEP, WPA or WPA2
3. WMP300N wireless interface :
- Wireless network adapter that enables devices to communicate with access point using wireless signals.
4. Pinging: 10.0.0.1 to 10.0.0.3 :
10.0.0.1 → Switch → Access Point → 10.0.0.3
- This is after the ARP tables are updated after broadcasting.
5. Pinging: 10.0.0.3 to 10.0.0.1 :
10.0.0.3 → Access Point → Switch → 10.0.0.1
6. Pinging: 10.0.0.3 to 10.0.0.4 :
10.0.0.3 → Access Point → 10.0.0.4
7. Every device is now connected to every other device in the WLAN



