## <u>Aim-11</u>

11. To construct a WLAN and make the nodes communicate wirelessly

## Topology:

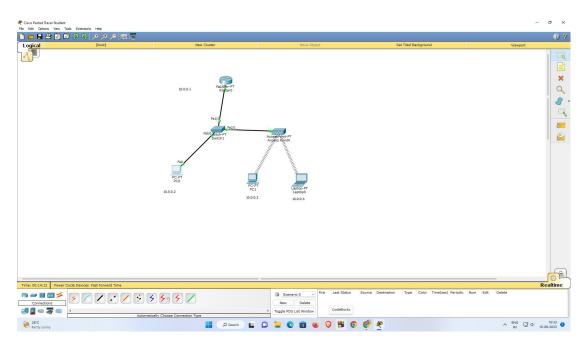


Fig 1: Topology

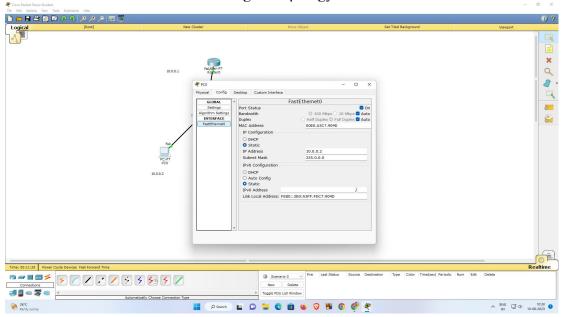


Fig 2: Pco configuration

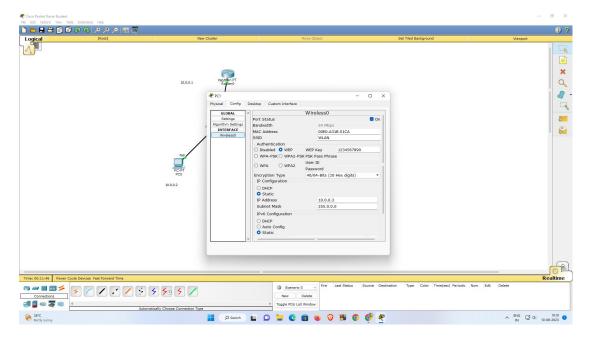


Fig 3: Pc1 configuration

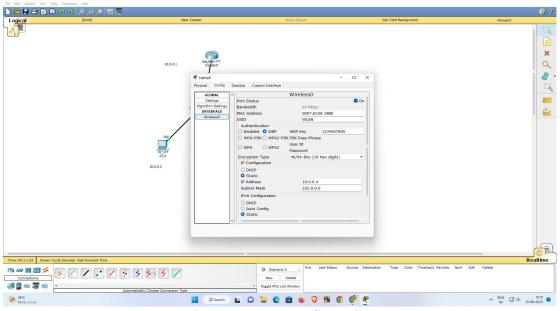


Fig 4: Laptop0 Configuration

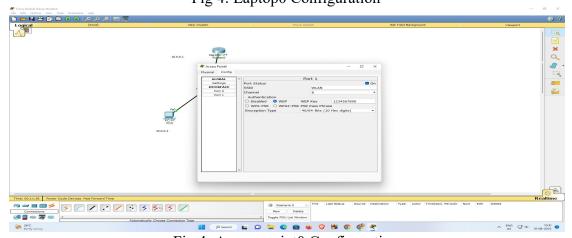


Fig 4: Access point0 Configuration

## Procedure and Observation:

(d8/2) Aim-11
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fall  Oxo: 920 det  Switch 1  Faol:  Access point of
Fao 1.0.0.01 9 397
Procedure  Procedure  Procedure
2) Create a topology of a contre 2 pcs and a laptopand a suess point.
roundly done.

- 4 configure Access point 1 - pout 1 + \$510 Nome - any name (for example LILAN).

- Select WEP and give any 10 digit her key - (for example 1234567890).

Handards.

- I Switch off the device. Drag the existing PT-HOST-NM-I AM to the Component listed in the LHS. Drag ElMP300N wireless interface to the empty pout. Switch on the device.

a new winders interface would We been added. Now Configure SSID, WIEP, WIEP Key, IP address and Caturay (as normally done) to the device.

pinging from pro to pri

Per Ping 10.0.0.3

Pinging 10.0.0.3 with 32 bytes of data, Reply from 10.0.0.3: bytes=32 time=8 ms Reply from 10.0.0.3: bytes = 32 time = 11mg Reply from 10.0.0.3! bytes = 32 time = 7 mg Reply from 10.0.0.3: bytes = 32 time = 8ms Ping statistics for 10.0.0.3: Packets: Sent 24, Received 24, Lost 20 Codology Approximate round trip times in millipolinimum = 7 ms, Marimum = 11 ms, Avage = 8 ms -> Pinging from per to laptop pe & Ping 10.0.0.4 Pinging 10.0.0.4 with 32 bytes of datatal Reply from 10.0.0.4! bytes = 32 time 2 9mg

1 Reply from 10.0.0.4: bytes=32 time=11 ms perly from 10.0.0.4: bytes= 8ms time= 8 ms paly from 10.0.0.4: bytes=32 time = 6 ms. my statistics for 10.0.0.4: padats: Sentz4, Received 24, bost =0 (0% long Approximate round trip times in milli-seconds: Minimum 2 bms, Maximum 211 ms, Average -6 Now pinging from laptopo to per pc & Ping 10.0.0.3 linging 10-0.0.3 with 32 bytes of data: Reply from 10.0.0.3: bytes = 32 time 2 33,ms leply from 10.0.0.3: bytes=32 time=21 my TTL= leply from 10.0.0.3 bytes = 32 time = 12ms Tt= leply from 10.0.0.3 by fas = 32 time = 12 ms TTL=

Ping statistics for 10.0.0.3! Padato: Sent=4, Received 24, bost=0 (0% lon Approximate round trip fines in milli-Surands Minimum =12 ms, Maximum = 33 ms, Avuage 2) Pinging from laptopo to pro perping 10.0.0.2 Pinging 10.0.0.2 with 32 bytes of data: Reply from 10.0.0.2! by tes = 32 timez 23 ms Reply from 10.0.0.21 bytes=32 fime = 9 ms Reply from 10.0.0.2! bytes = 32 time = 12 ms Reply from 10.0.0.2: bytes = 32 time = 16 mg Ping statistics 10.0,0,2 ! Parkets! Sent=4, Received=4, bost =0 loots long

Approximate round trip times in milliplinimum = 9 ms, Marinum = 23 ms, Avuage of Now Pinging from perto laptopy per ping 10.0.0.4 Pinging 10.0.0.4 with 32 bytes of data: uply from 10.0.0.4! by tes 232 time216 ms TTL=12p peply from 10.0.0.4: bytes=32 time=18ms TTL=128 leply from 10.0.0.4! bytes=32 time=13 mg TTL=12p Reply from 1000.0.4! bytes=32 time=14ms TTL=129 By statistics for 10.0.0.4! Packets: Sent 24, Received = 4, Lost 20 (00/010m); Approximate round trip times in milli-Seconds: Minimum = 13 ms, Wasinum = 18 ms, Avage=15 ms 2) Now ping from pc1 to pc0
Pc/ Ping 10.0.0.2 linging from 10.0.0.2 with 32 bytes of data liply from 10.0.0.2 : bytes = 32 time = 27 ms

Reply from 10.0.0.2: bytes=32 time=13 mg Reply from 10.0.0.2: bytes=32 time=8mg Reply from 10.0.0.2! bytes = 31 time = 8 mg Ping Statistics for 10.0.0.2! Packets: Sent 24, Received 24, Lost =0 (0% loss) Approximate round trip Lines in milli-seconds: Minimum =0 ms, Maximum = 27 ms, Avuage Output Using the la concept of WLAN we Jetup à winders Communication with the help of access point device. a ping from per to peo a from 10.0.0.2 with 81 bytes of dates from 10.0.0.22 before se three sy mo

## Output:

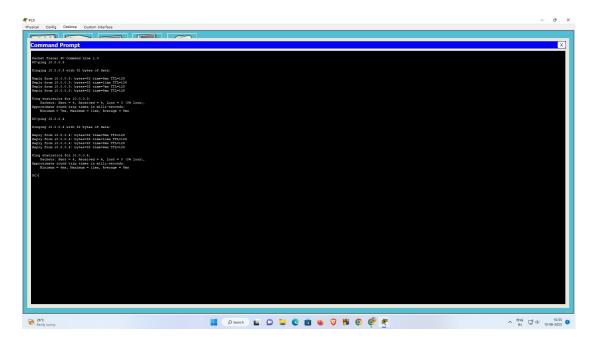


Fig 5: Ping responses from pc1 and laptop0

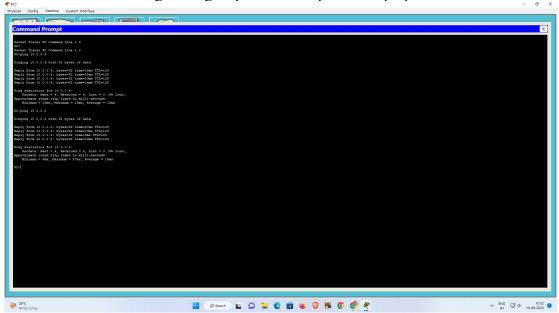


Fig 6: Ping responses from pc0 and laptop0

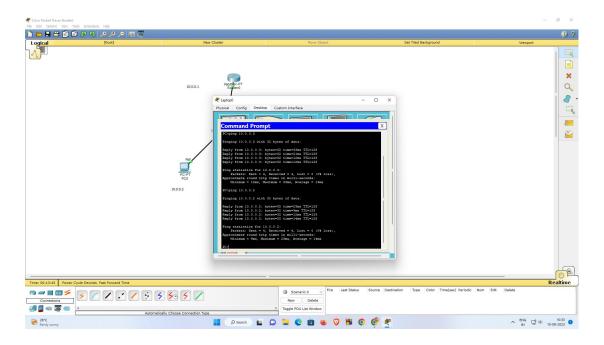


Fig 7: Ping responses from pc0 and pc1