

Experiment No: 06

Experiment Name: Implementation of Wireless LAN using Wireless Access Point and DHCP server.

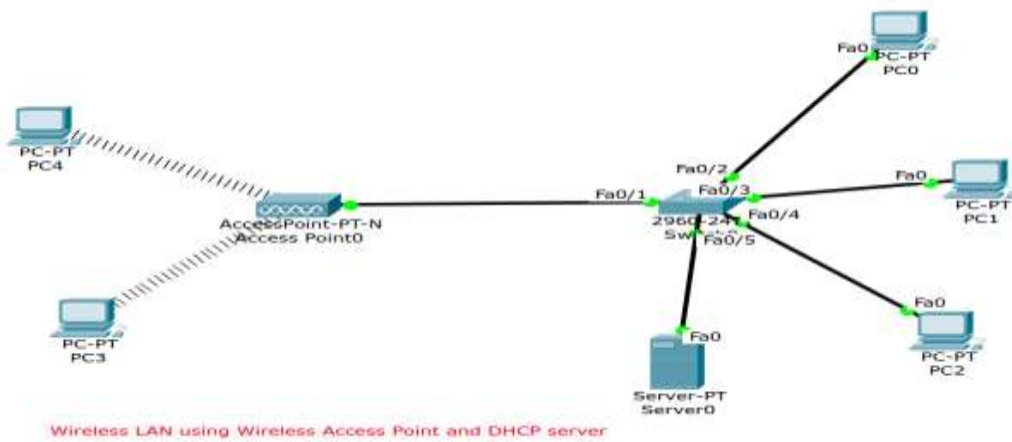
Objective:

In this experiment, we are going to implement Wireless LAN using Wireless Access Point and DHCP server on 'CISCO Packet Tracer'.

Here, we use a sample network diagram it contains 1 switch, 1 Wireless Access Point, 1 server and 5 PCs.

Design Procedure:

- Let us implement the network like below:



- Server Configuration:
 - DHCP configure:

Server0

Physical Config Services Desktop Attributes Software/Services

SERVICES

- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP
- IoE
- VM Management

DHCP

Interface: FastEthernet0 Service: ☒ On ☐ Off

Pool Name: serverPool

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

Start IP Address: 192 168 2 1

Subnet Mask: 255 255 255 0

Maximum number of Users: 512

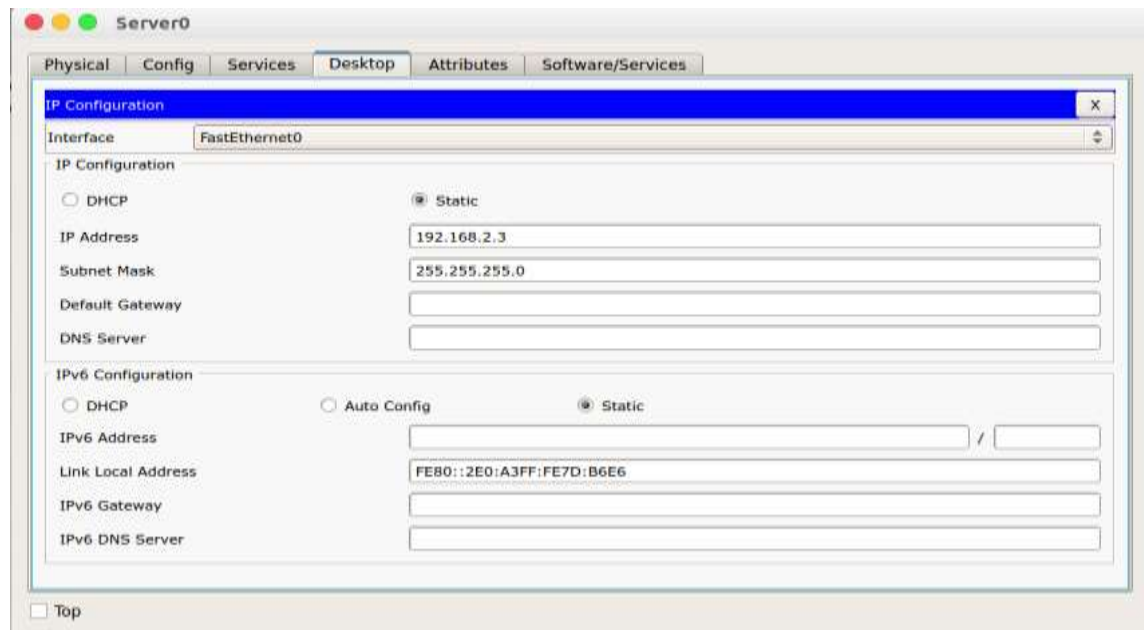
TFTP Server: 0.0.0.0

Add Save Remove

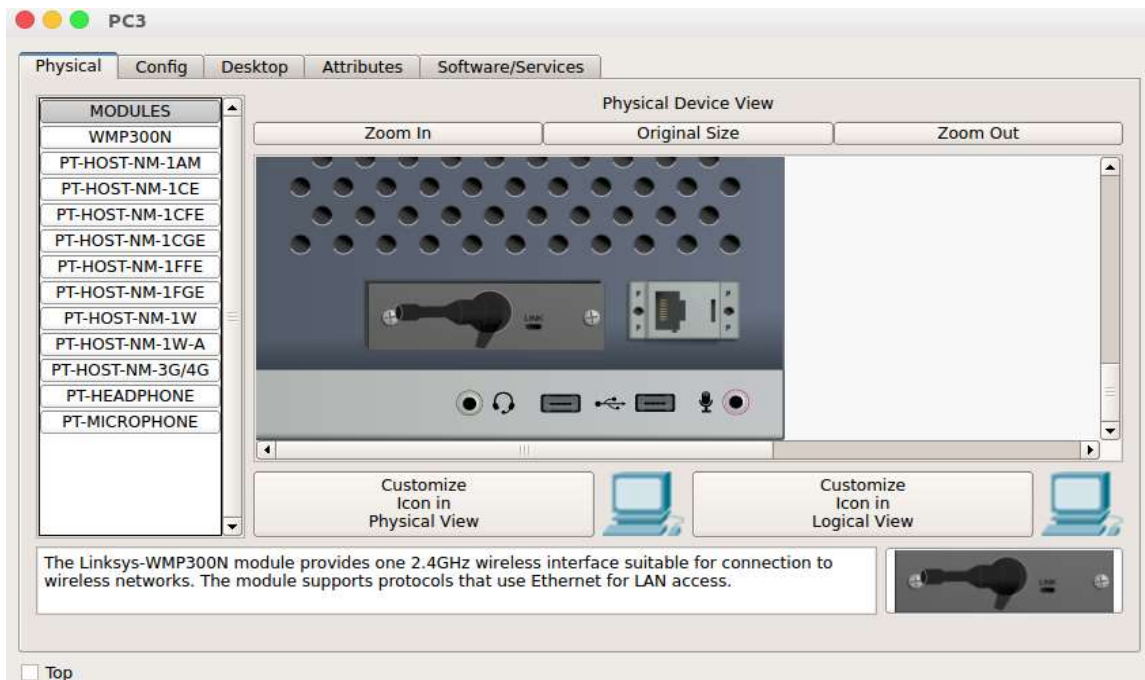
| Pool Name | Default Gateway | DNS Server | Start IP Address | Subnet Mask | Max User | TFTP Server |
|------------|-----------------|------------|------------------|-------------|----------|-------------|
| serverPool | 0.0.0.0 | 0.0.0.0 | 0.0.0.0 | 0.0.0.0 | 512 | 0.0.0.0 |

☐ Top

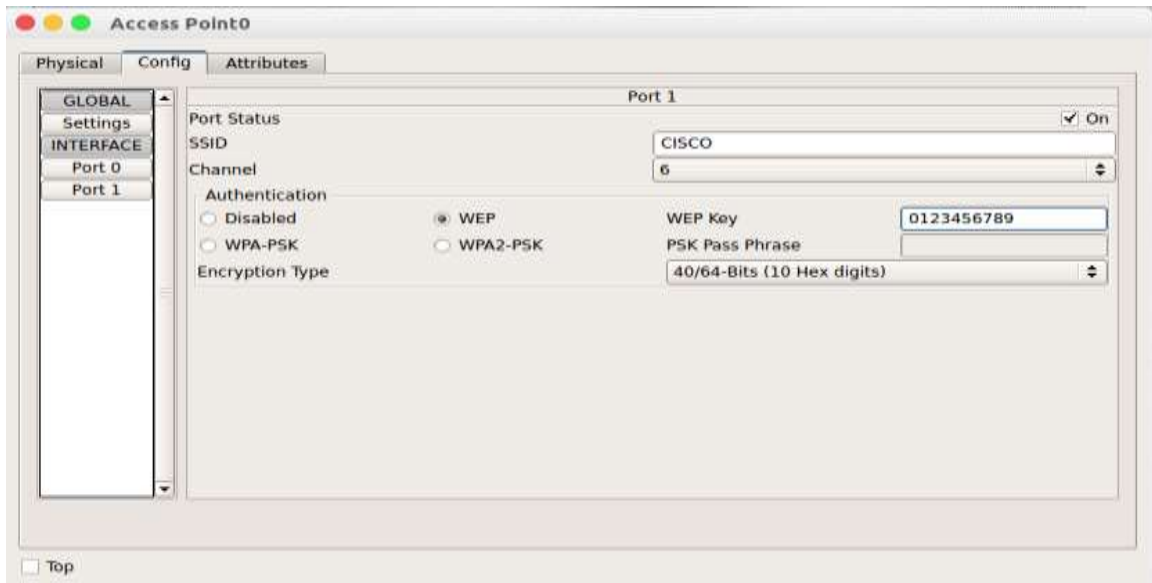
2. IP configure:



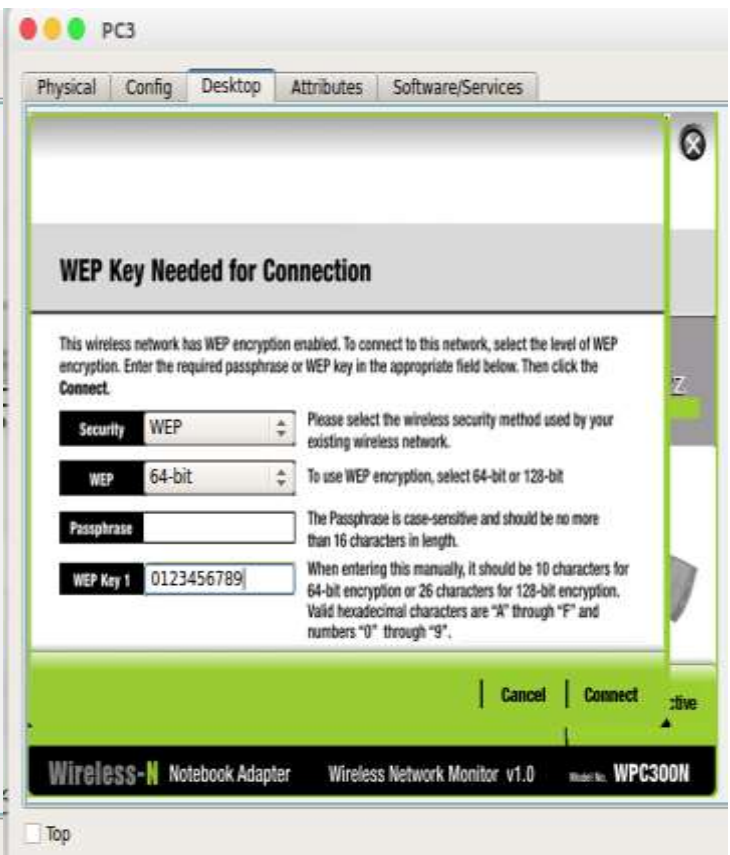
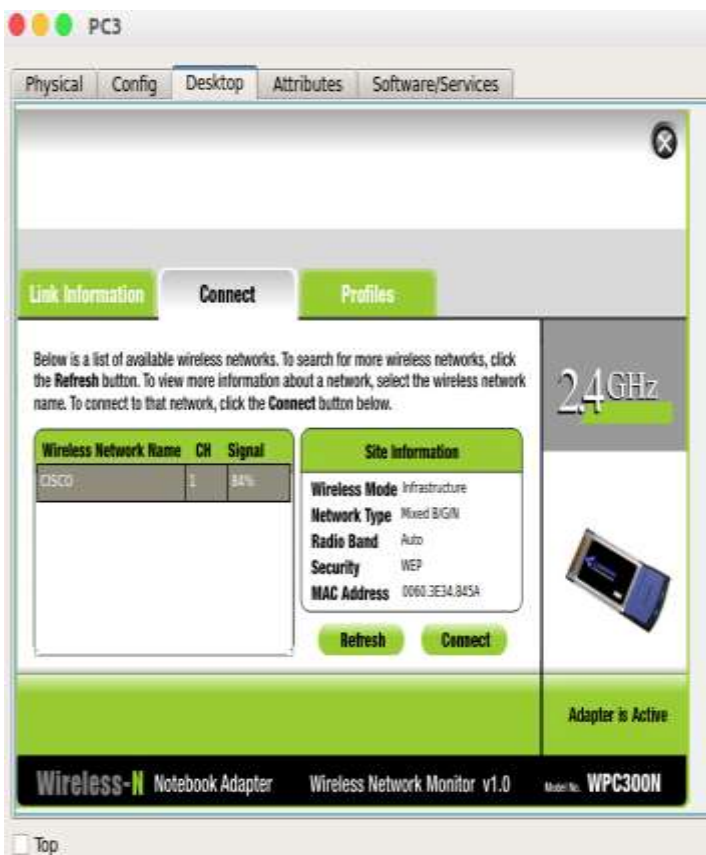
- Install WLAN card for PC-3:
 - At first off the connection. Then add the 'Linksys-WMP300N' WLAN card for PC-3 and same for PC 4.



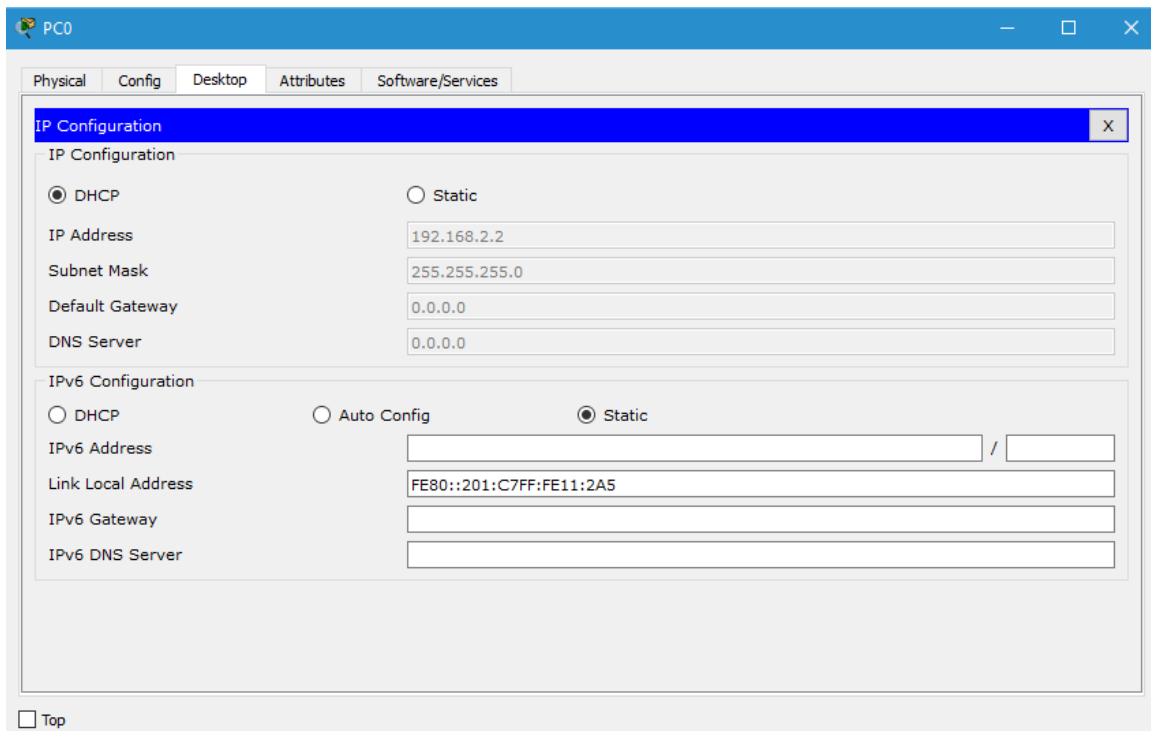
- Configure the access point like below:



- Connect it as SSID: CISCO and WEP Key: 0123456789 on PC-3 and PC-4



- Make DHCP configuration on PC0, PC1 and PC2 in IP address configuration.



- The IP of DHCP server is 192.168.2.3. Try to connect to the sever from PC3 using URL as: 192.168.2.3.

