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**Section: BCS-5B** 

**Course Name: Computer Networks LAB** 

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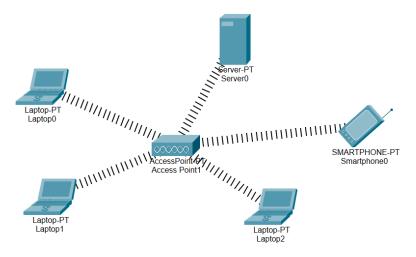
**Submitted on: 10/11/2022** 

# **LAB 07**

## **TASK 1:**

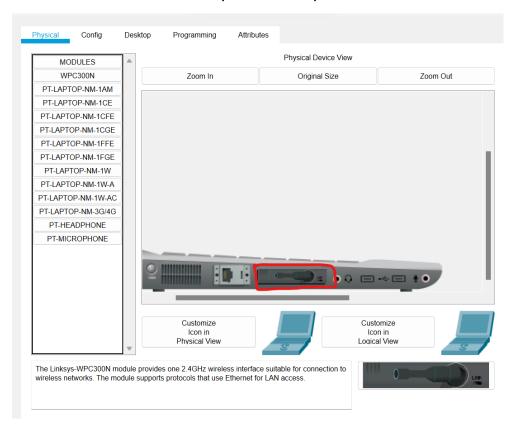
# Step 1:

Build a network topology.



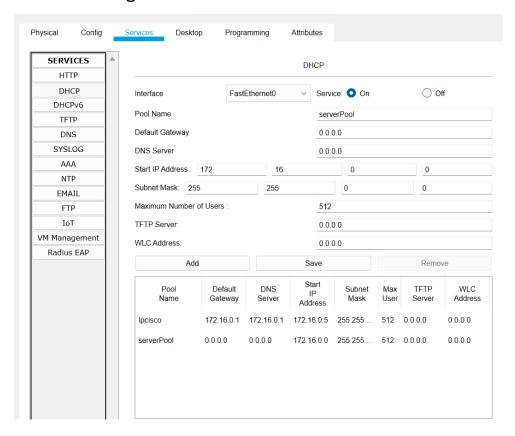
## Step 02:

We will power off laptop remove classical ethernet card and will add Wireless Interface Card (WPC300N).



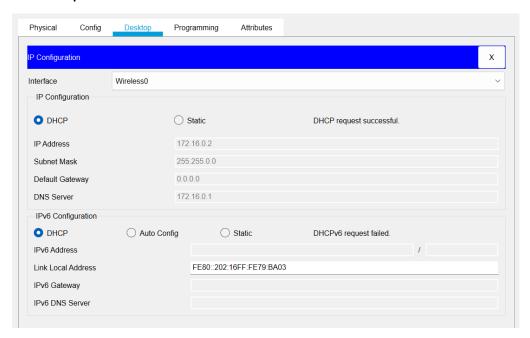
#### Step 03:

We will configure our DHCP server.



## Step 04:

We will assign dynamic ip to our laptop from DHCP server through access point.



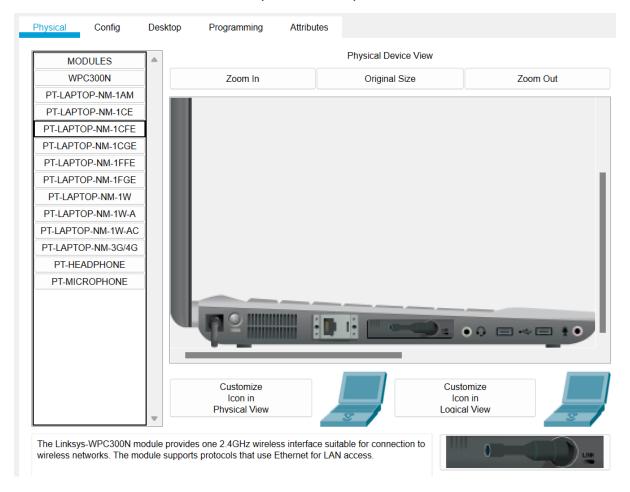
### **TASK 2:**

# Step 1:

Build a network topology.

# Step 02:

We will power off laptops remove classical ethernet card and will add Wireless Interface Card (WPC300N).

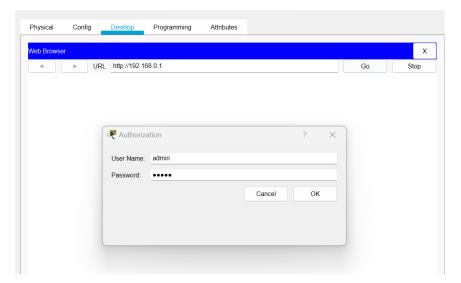


## Step 03:

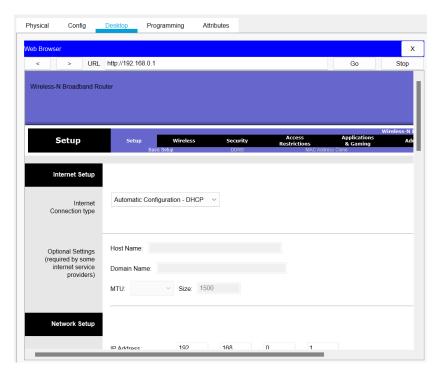
Now we will configure our wireless router. We can do it by two ways.

- 1)through directly clicking GUI of wirless router
- 2) Using a browser in a PC or laptop in the LAN.

First, we will do it by using browser in PC or laptop.

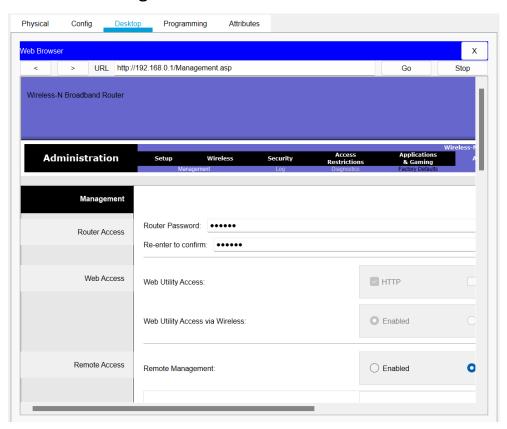


After giving default user name (admin) and password (admin) we can access the GUI of the router.

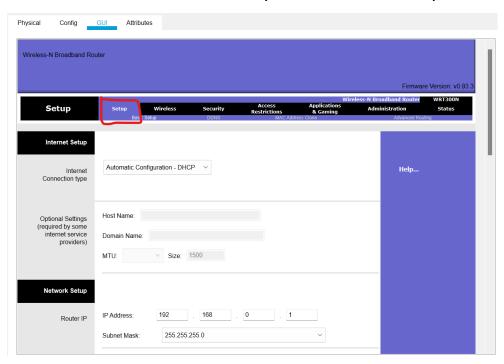


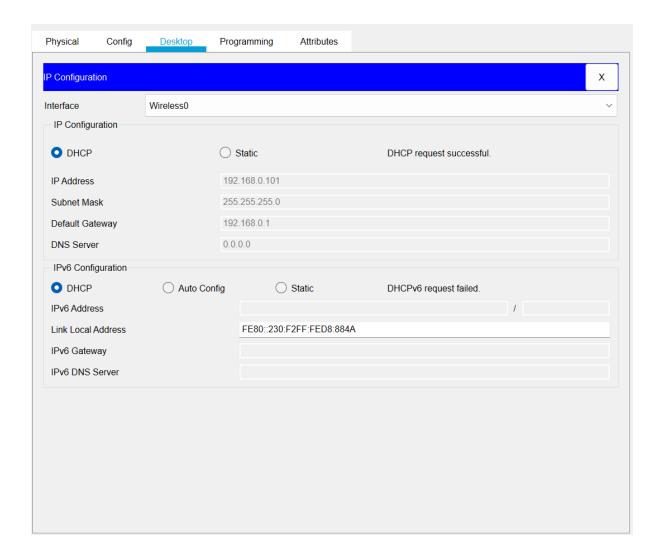
## Step 04:

We'll begin with Administration in the GUI. we will click on the Administration tab and set a new password for administrative access and save settings.

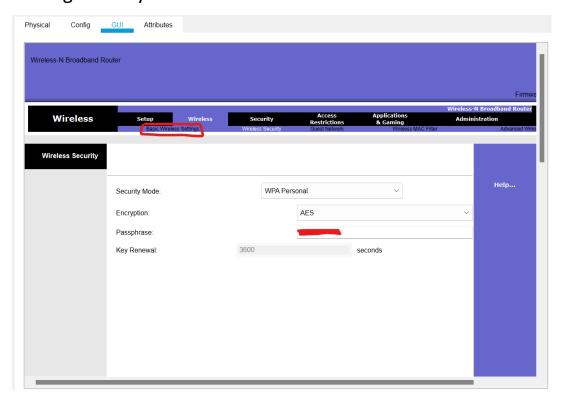


After this we will do LAN Setup and Internet Setup.



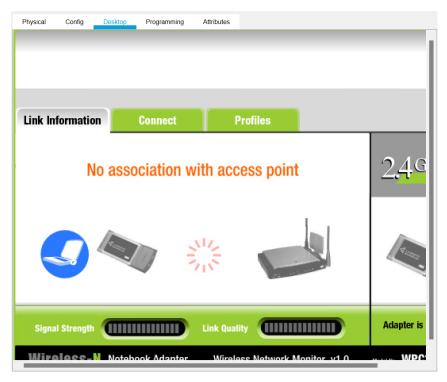


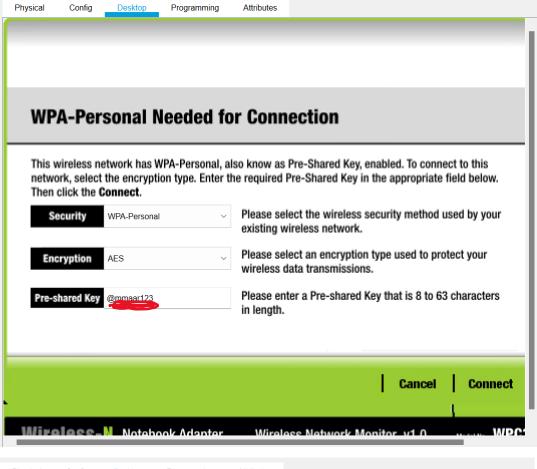
# Step 05: Adding security for wireless LAN access

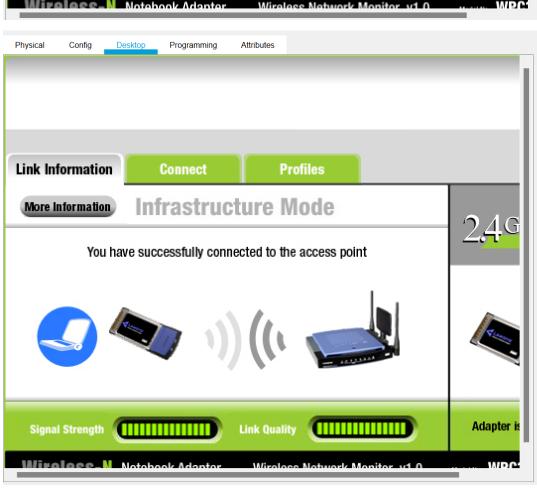


Then we will check it that whether its working or not

We go to PC or laptop and then its desktop and wireless and we will give our pass key which we have set in our router for wireless.







#### Step 06: Internet Setup

```
Router(config) #in fa0/0
Router(config-if) #ip add 155.21.21.1 255.255.0.0
Router(config-if) #no shut
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
Router(config-if) #int fa0/1
Router(config-if) #ip add 1
% Invalid input detected at '^' marker.
Router(config-if)#
 %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
Router(config-if) #ip add 1
 % Invalid input detected at '^' marker.
Router(config-if)#
Router(config-if) #exit
Router(config) #interface FastEthernet0/0
Router(config-if)#
Router(config-if) #exit
Router(config) #interface FastEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config) #interface FastEthernet0/1
Router(config-if) #ip address 200.0.0.1 255.255.255.0
Router(config-if) #ip address 200.0.0.1 255.255.255.0
Router(config-if) #ip address 200.0.0.1 255.255.255.0
Router(config-if)#
Router(config-if) #ip add 1
Router(config-if) #no shut
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
Router(config-if) #exit
Router(config) #ip dhcp pool mypool
Router(dhcp-config) #net 155.21.0.0 255.255.0.0
Router (dhcp-config) #default-router 155.21.21.1
Router(dhcp-config) #dns-server 0.0.0.0
Router (dhcp-config) #
```

### We will finally check It by pinging with other device

