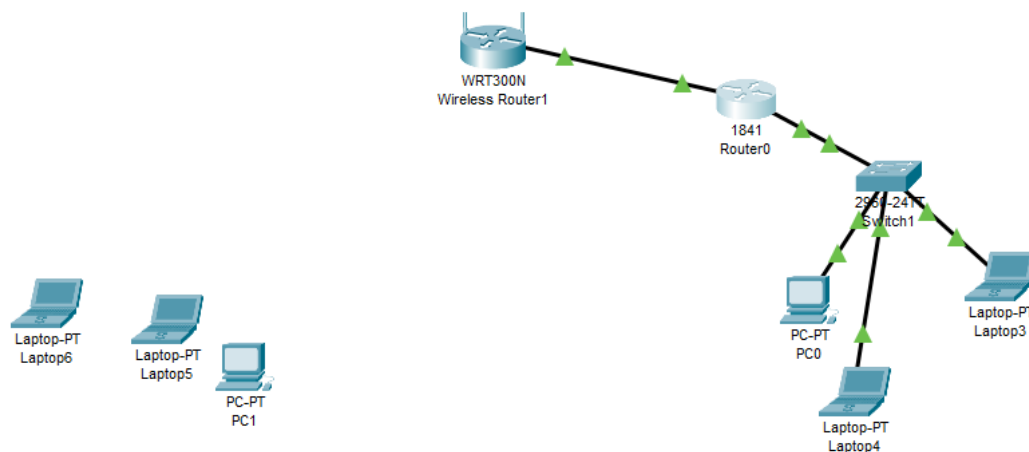


PRACTICAL 7

AIM: To create Wireless Local Area Network

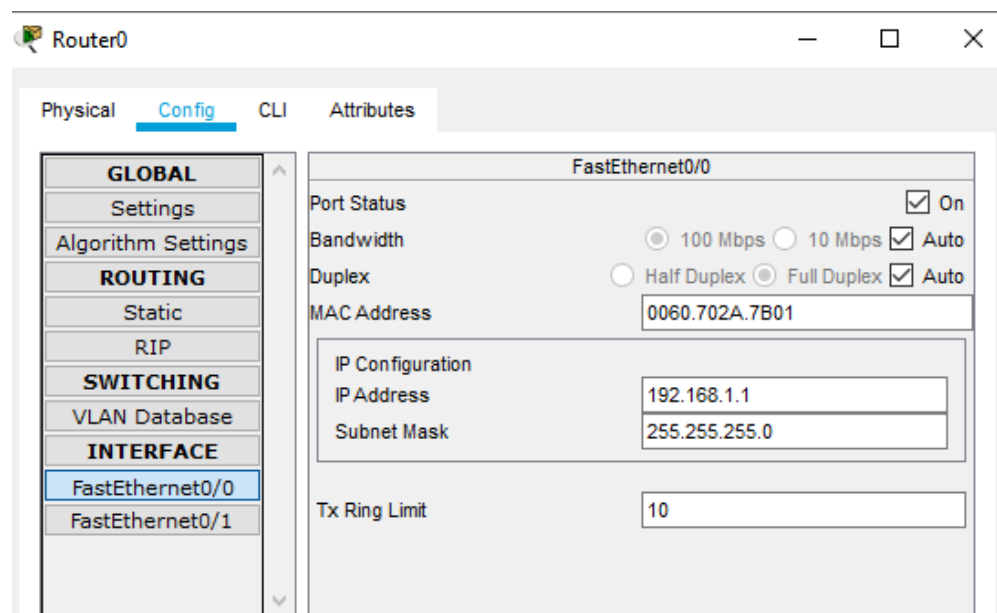
First, select all devices routers and switch

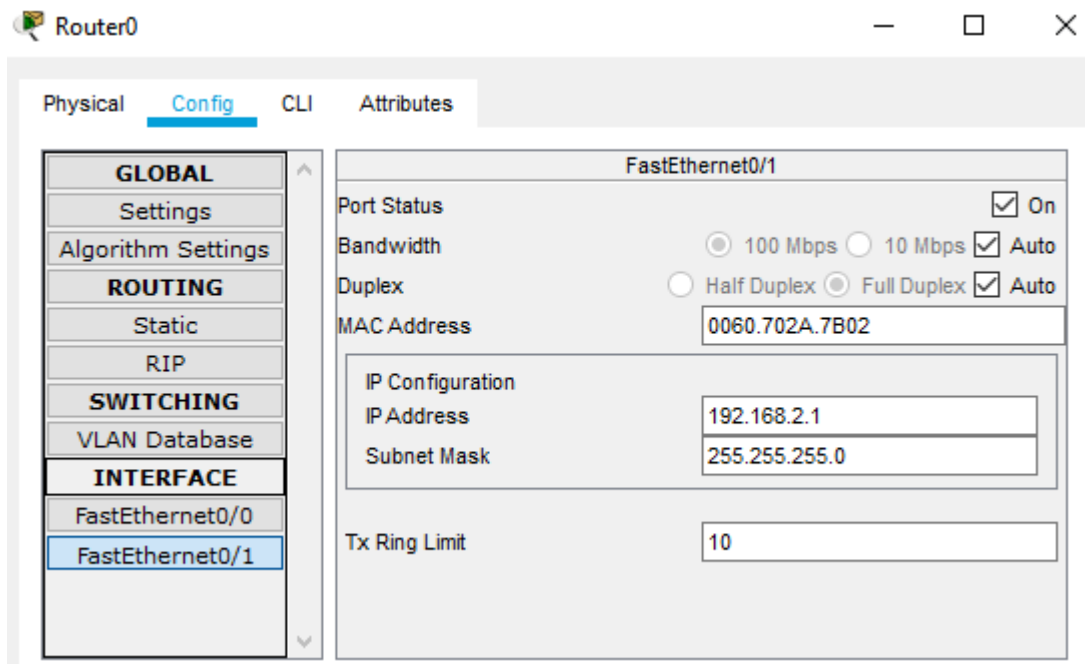


Then let's configure router 0 wired one

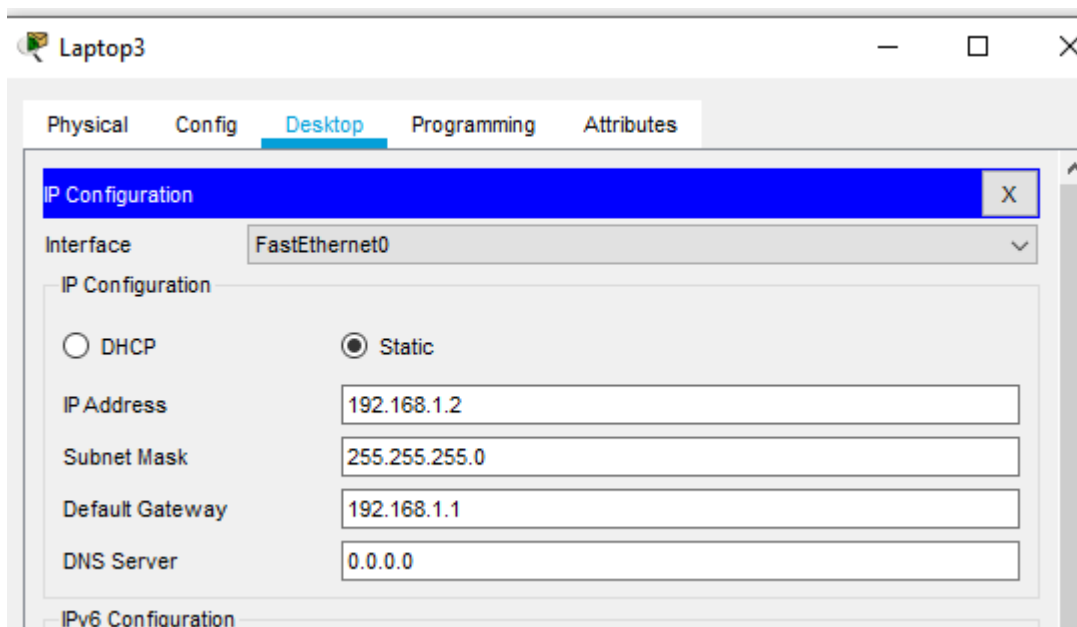
On ethernet0/0/0, we have connected switch network whose ip address is 192.168.1.1/24

On 0/0/1, we have connected wireless one whose ip address is 192.168.2.1/24

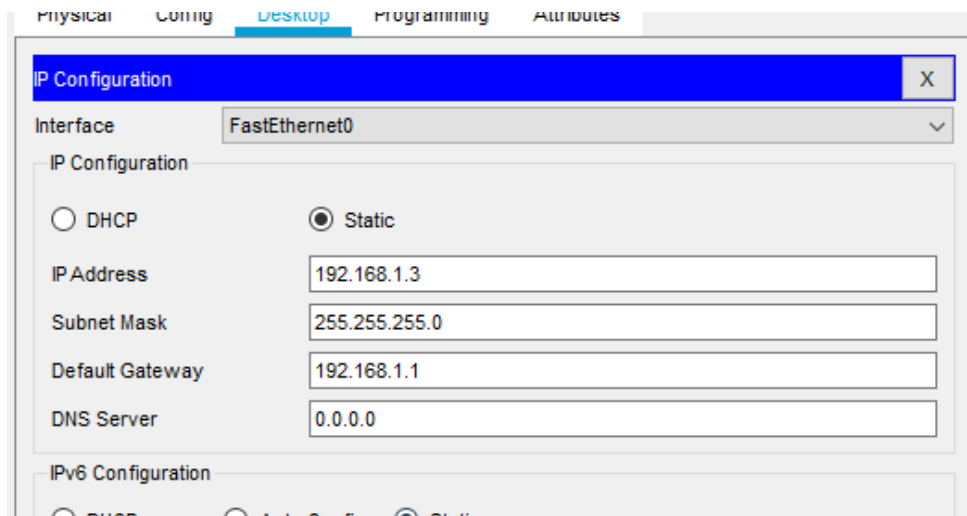




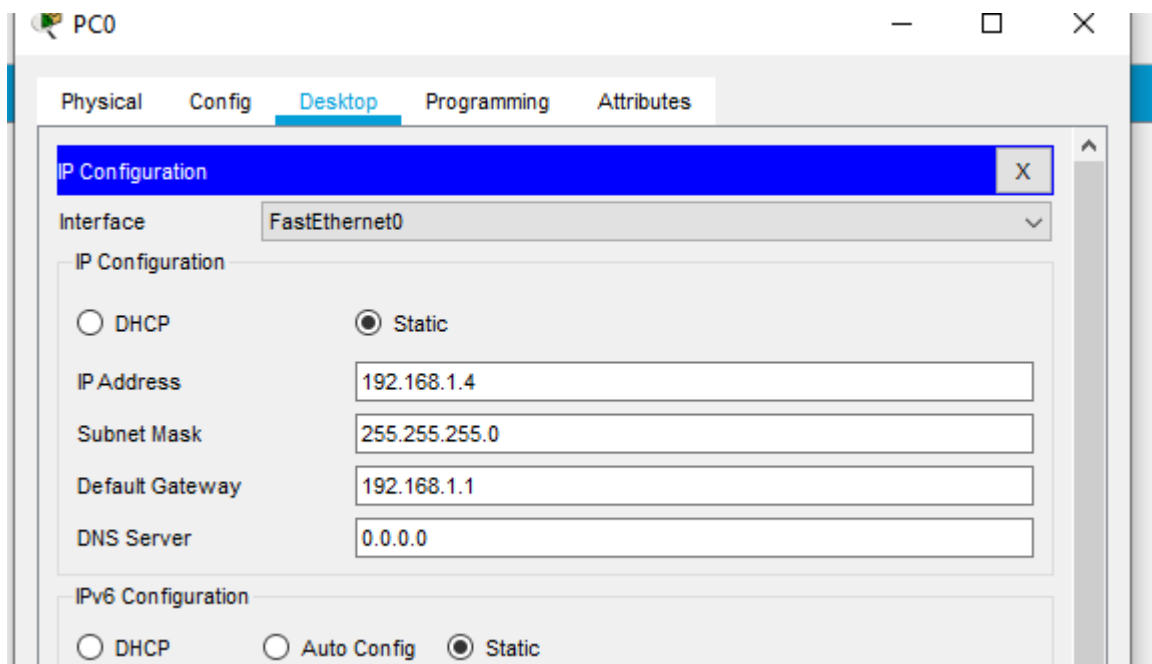
Now let's give ip address to pcs connected to wired router through switch
Laptop 3 ip address



Laptop 4



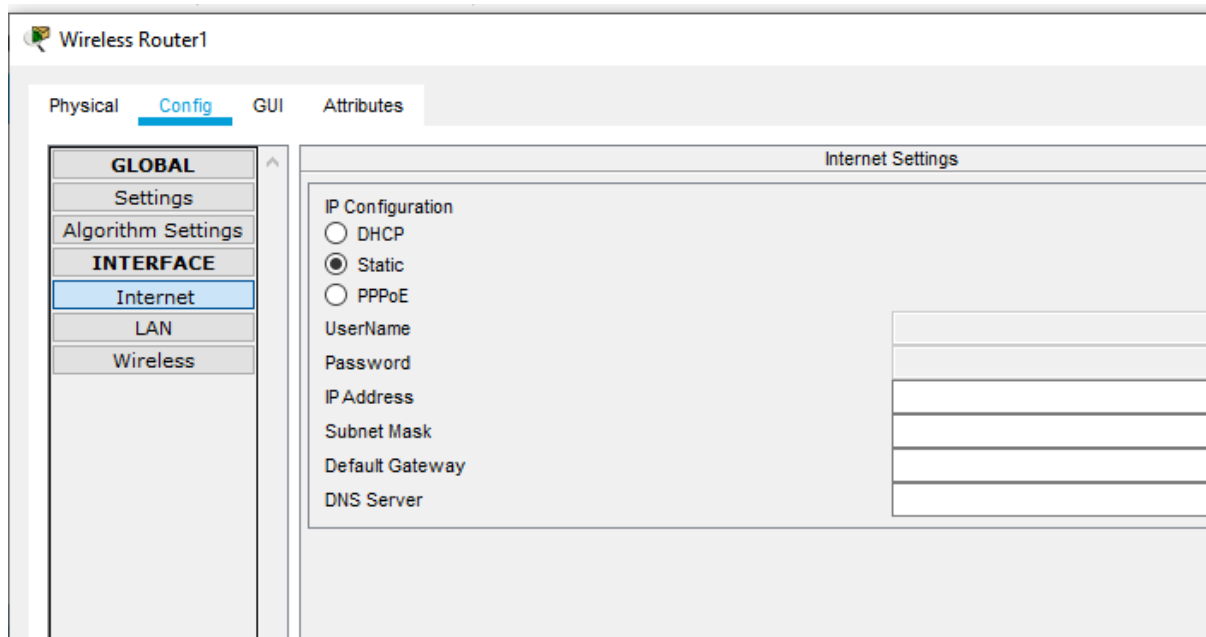
Pc0



Hence, all wired network side is cleared and we have given ip address to it

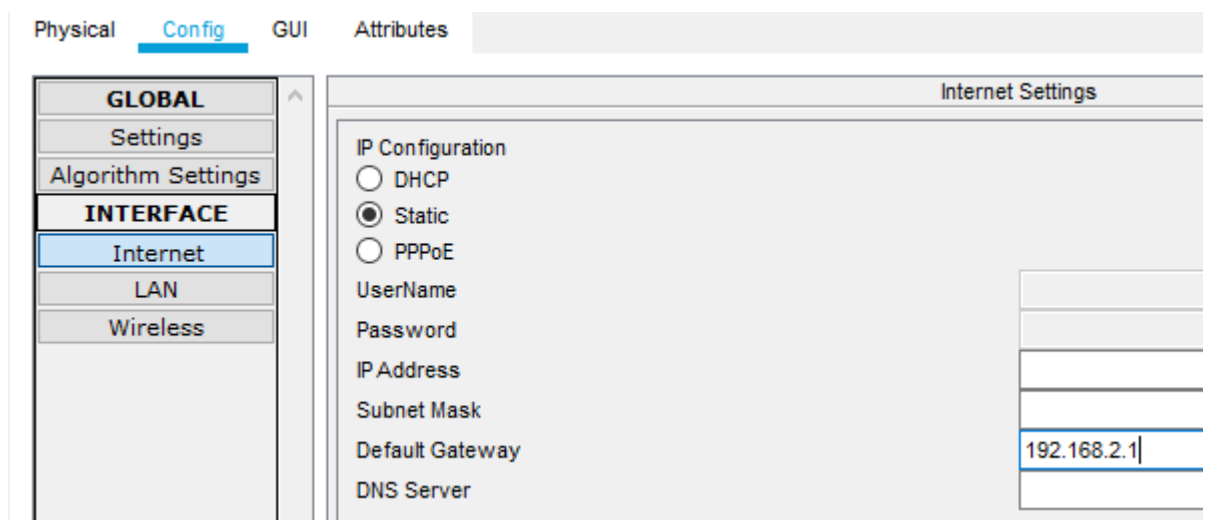
Then now configuration of wireless router.

Then in wireless router open internet static like below



Configure that

Then give default gateway as 192.168.2.1 which is 0/0/1 interface ip of wired router which is connected to wireless router



Then select next option lan and give ip address as below

Physical **Config** GUI Attributes

GLOBAL	LAN Settings	
Settings		
Algorithm Settings		
INTERFACE		
Internet		
LAN		
Wireless		

IP Configuration	
IP Address	192.168.2.2
Subnet Mask	255.255.255.0

Then give security key network name to router wireless its not mandatory but always secure to use

So I will use it

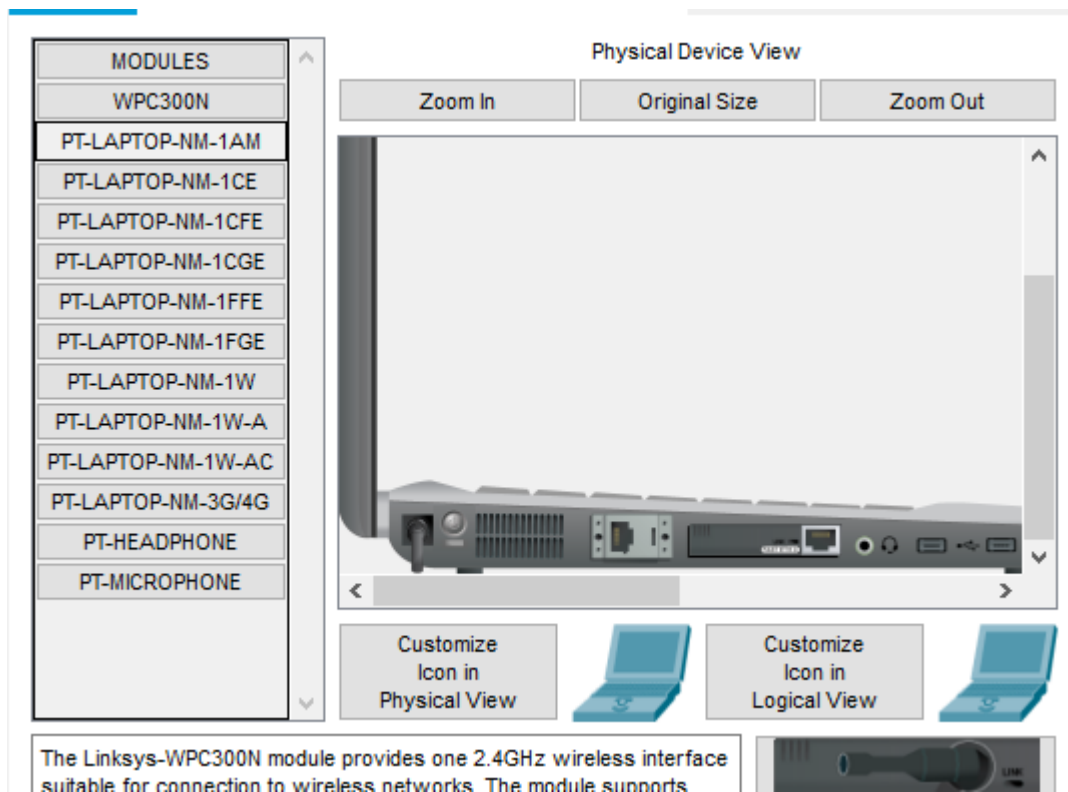
Wireless Settings	
SSID	AMISHA
2.4 GHz Channel	6 - 2.437GHz
Authentication <input type="radio"/> Disabled <input checked="" type="radio"/> WEP WEP Key 1234567890 <input type="radio"/> WPA-PSK <input type="radio"/> WPA2-PSK PSK Pass Phrase <input type="radio"/> WPA <input type="radio"/> WPA2	
RADIUS Server Settings	
IP Address	
Shared Secret	
Encryption Type	40/64-Bits (10 Hex digits)

AS I have given name and WEP key and password

Now for devices connected in wireless router network should need to add wireless port so remove one port and add another port

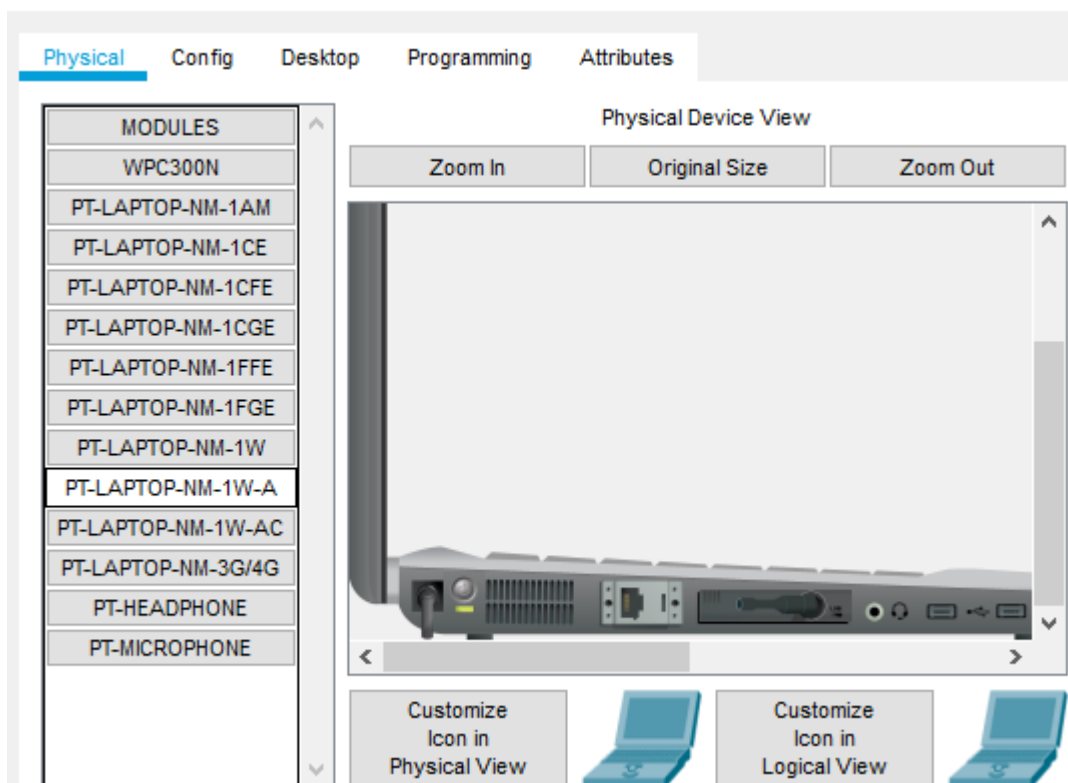
Follow below mentioned method for all pcs and laptop see the one configuration of laptop

Click on laptop turn it off



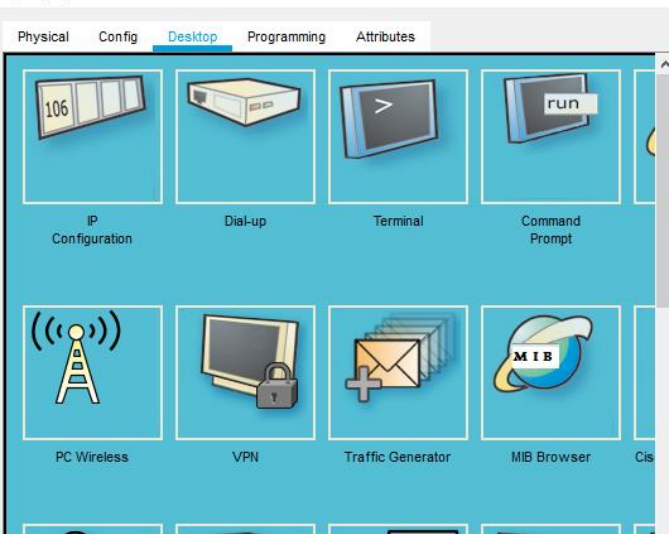
Then add port WPC300n

REMOVE one module and add that module

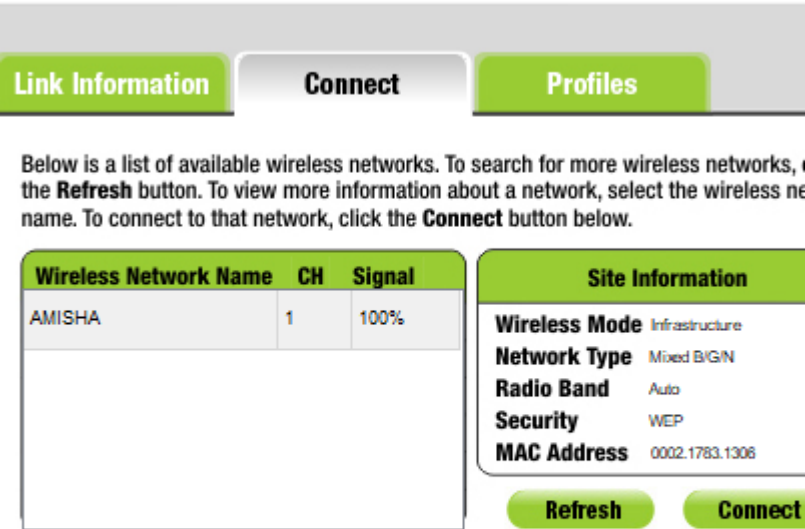


Then turn it on

Don't forget to turn on
Go to desktop wireless



Then



Connect with wireless LAN amisha
Type security key and get connection

Connect.

Security WEP

Please select the wireless security method used by your existing wireless network.

WEP 64-bit

To use WEP encryption, select 64-bit or 128-bit

Passphrase

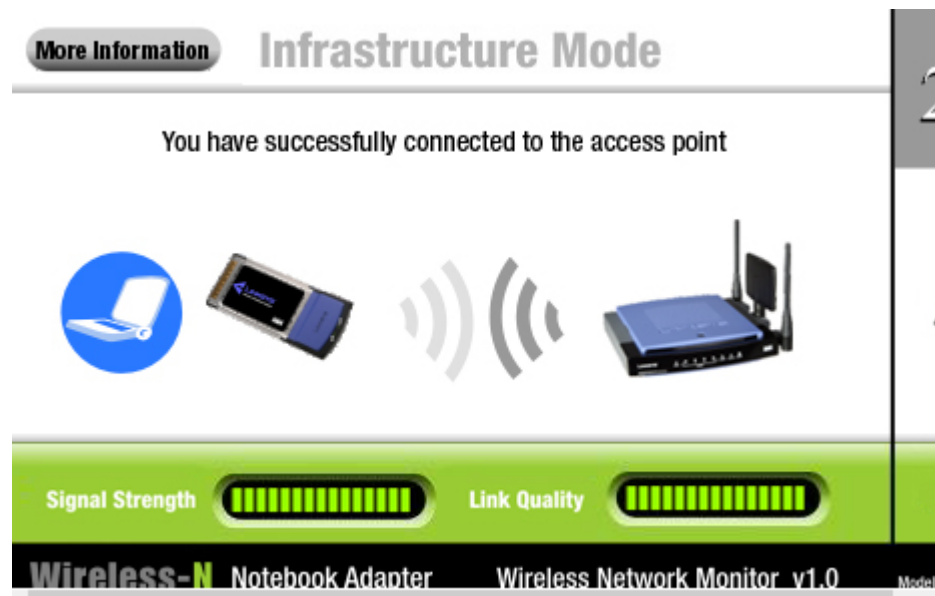
The Passphrase is case-sensitive and should be no more than 16 characters in length.

WEP Key 1 1234567890

When entering this manually, it should be 10 characters 64-bit encryption or 26 characters for 128-bit encryption. Valid hexadecimal characters are "A" through "F" and numbers "0" through "9".

| Cancel | Con

See it also shows that link has been connected and securely connected



Then give static ip to it (device) because it has been connected to wireless LAN it has the default ip address 192.168.2.2 and one of the network ip of this network has been given to wired router so it is successfully communicating.

Interface: Wireless

IP Configuration

☐ DHCP ☒ Static

IP Address: 192.168.2.3

Subnet Mask: 255.255.255.0

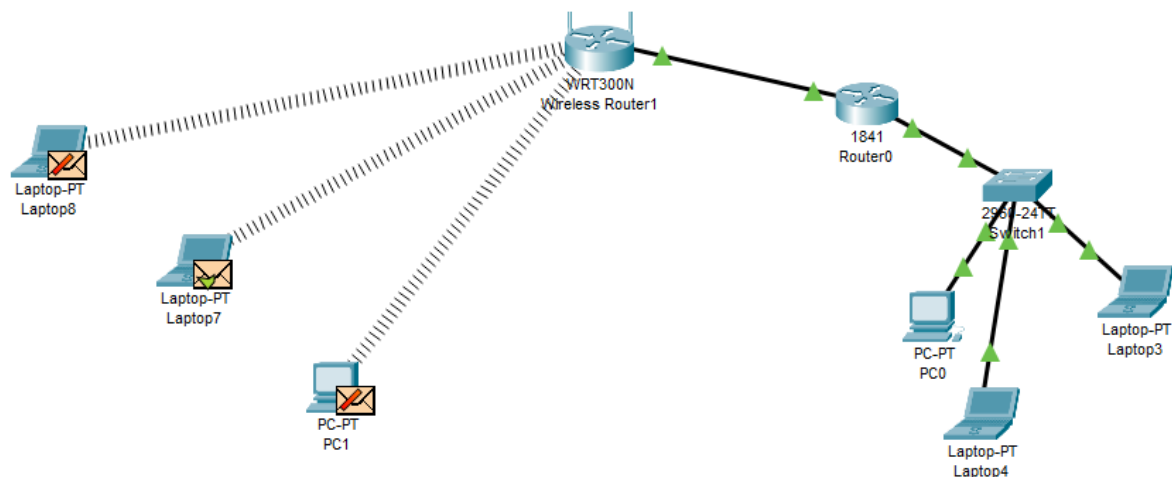
Default Gateway: 192.168.2.2

DNS Server: 0.0.0.0

IPv6 Configuration

☒ DHCP ☐ Auto Config ☐ Static DHCPv6 request failed.

IPv6 Address: /



It shows successful at laptop 7 to pc0

POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Event List Realtime Simulation

Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Ec
Successful	Laptop7	PC0	ICMP		0.000	N	0	(€

Event List Realtime Simulation

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Ec
	Successful	Laptop8	Laptop3	ICMP		0.000	N	0	(€