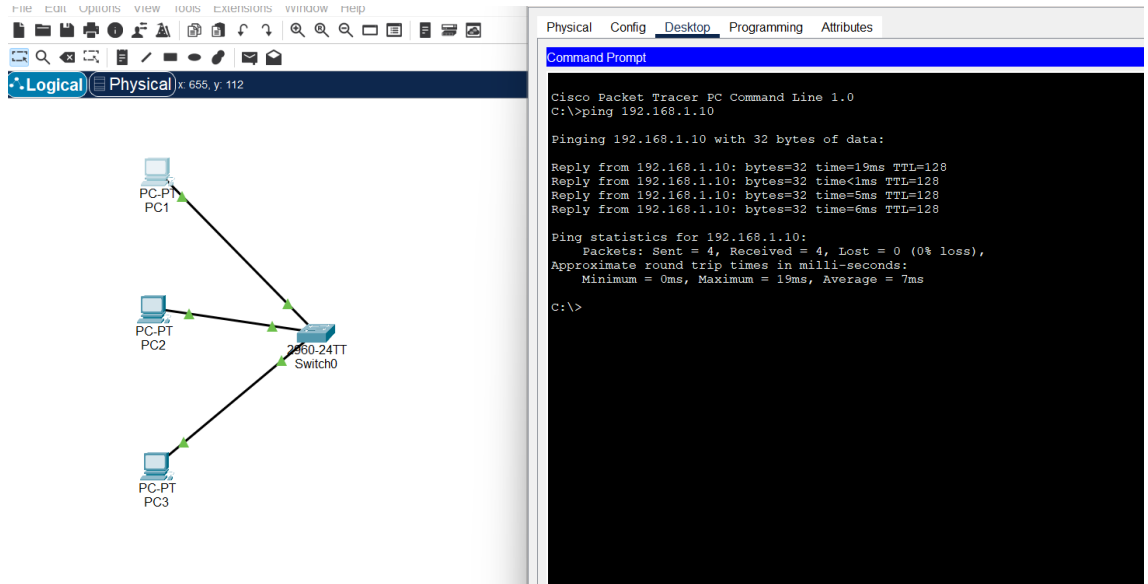


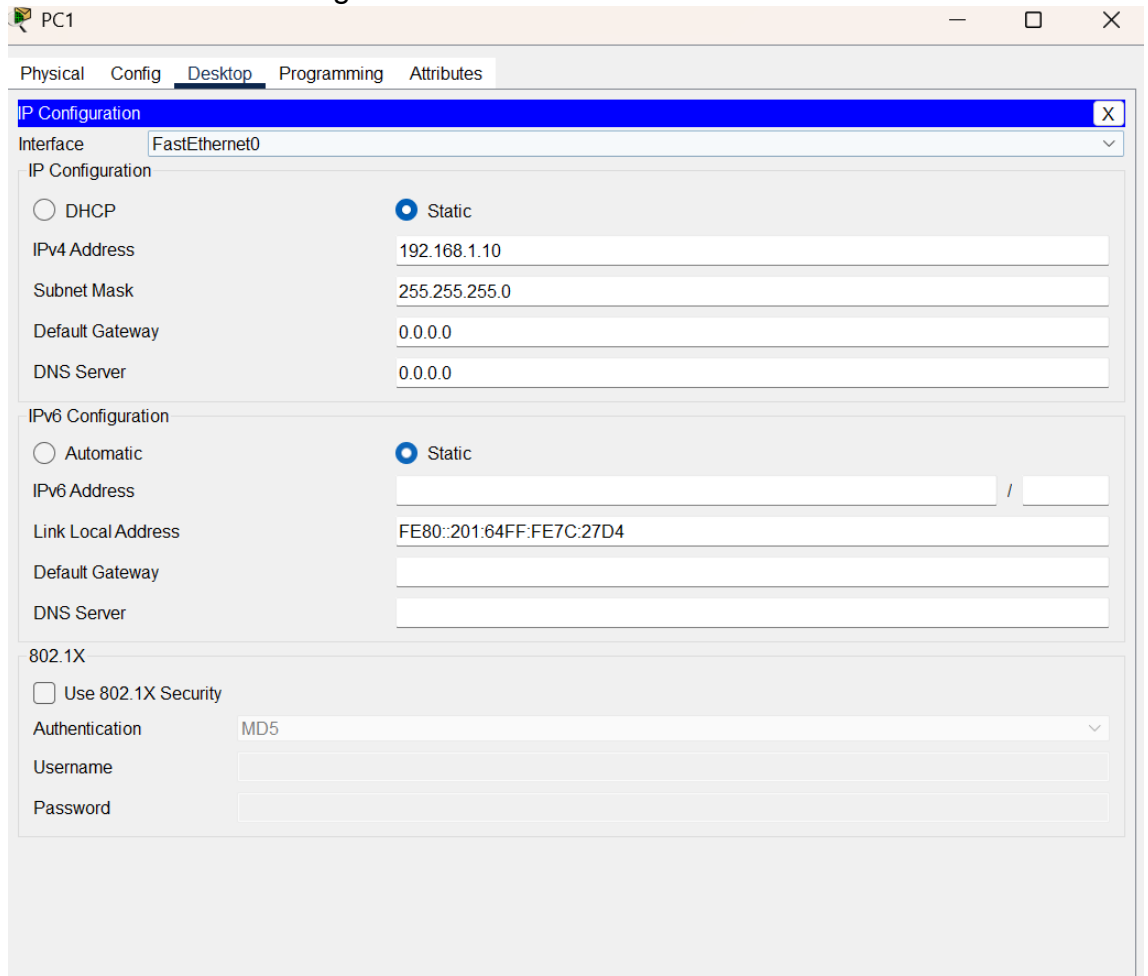
## Laboratorio 15: Configuración de una red LAN

Juliana Torres Aarón

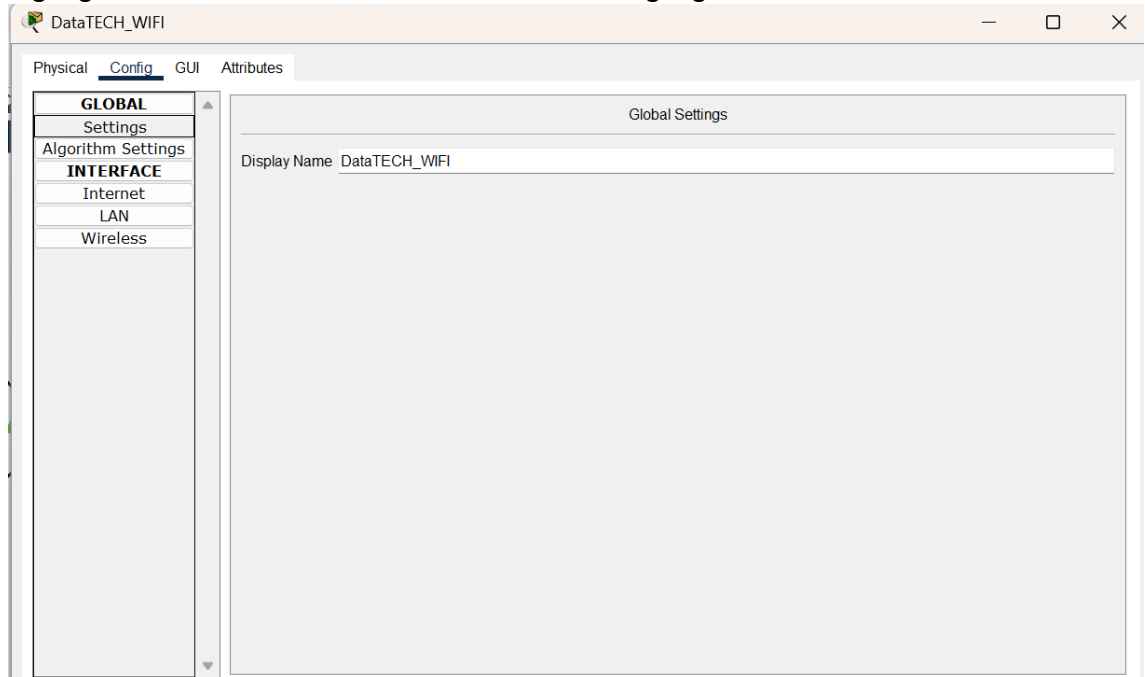
1. Agregamos un Switches con 3 computadores y le hacemos ping



2. Paso de como se configuró la red



### 3. Agregamos Wireless Devices en este caso agregamos WRT300N



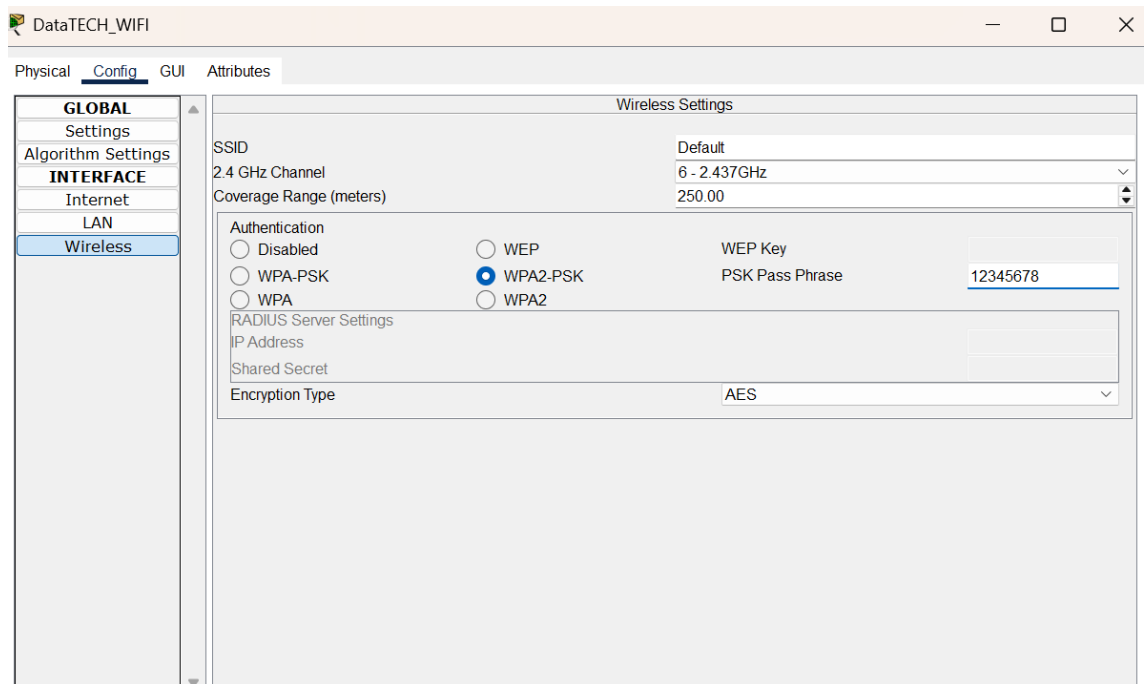
The screenshot shows the 'DataTECH\_WIFI' configuration window. The 'Config' tab is selected, and the 'Global Settings' section is visible. The 'Display Name' is set to 'DataTECH\_WIFI'. The left sidebar shows the 'Wireless' option under the 'INTERFACE' section.

| GLOBAL             |
|--------------------|
| Settings           |
| Algorithm Settings |
| INTERFACE          |
| Internet           |
| LAN                |
| Wireless           |

Global Settings

Display Name: DataTECH\_WIFI

### Colocamos una contraseña



The screenshot shows the 'DataTECH\_WIFI' configuration window with the 'Wireless Settings' tab selected. The 'Wireless' option in the left sidebar is highlighted. The 'Authentication' section shows 'WPA2-PSK' selected, and the 'PSK Pass Phrase' is set to '12345678'.

| GLOBAL             |
|--------------------|
| Settings           |
| Algorithm Settings |
| INTERFACE          |
| Internet           |
| LAN                |
| Wireless           |

Wireless Settings

SSID: Default

2.4 GHz Channel: 6 - 2.437GHz

Coverage Range (meters): 250.00

Authentication:

- ☐ Disabled
- ☐ WEP
- ☒ WPA2-PSK
- ☐ WPA
- ☐ WPA2

WEP Key: [Empty]

PSK Pass Phrase: 12345678

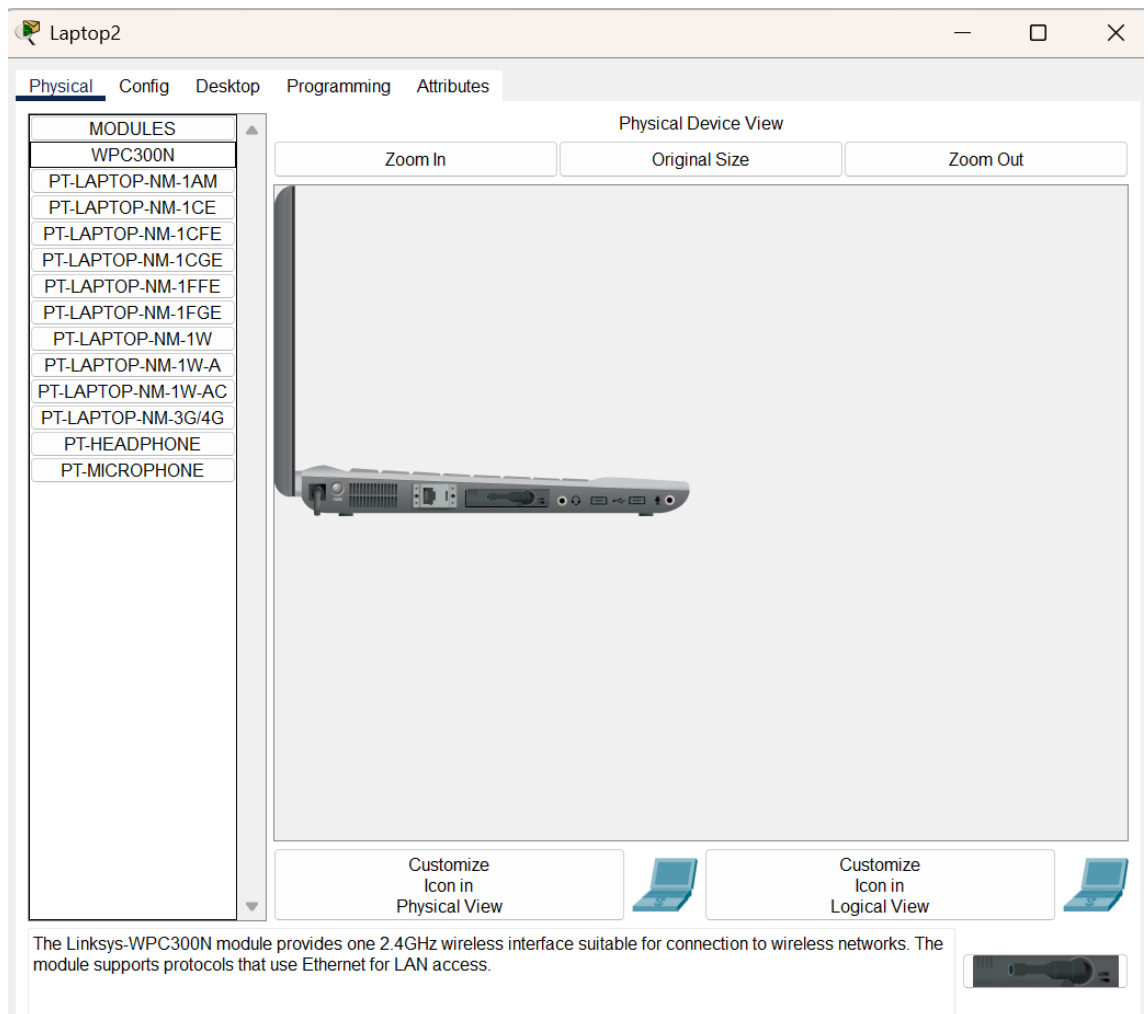
RADIUS Server Settings:

IP Address: [Empty]

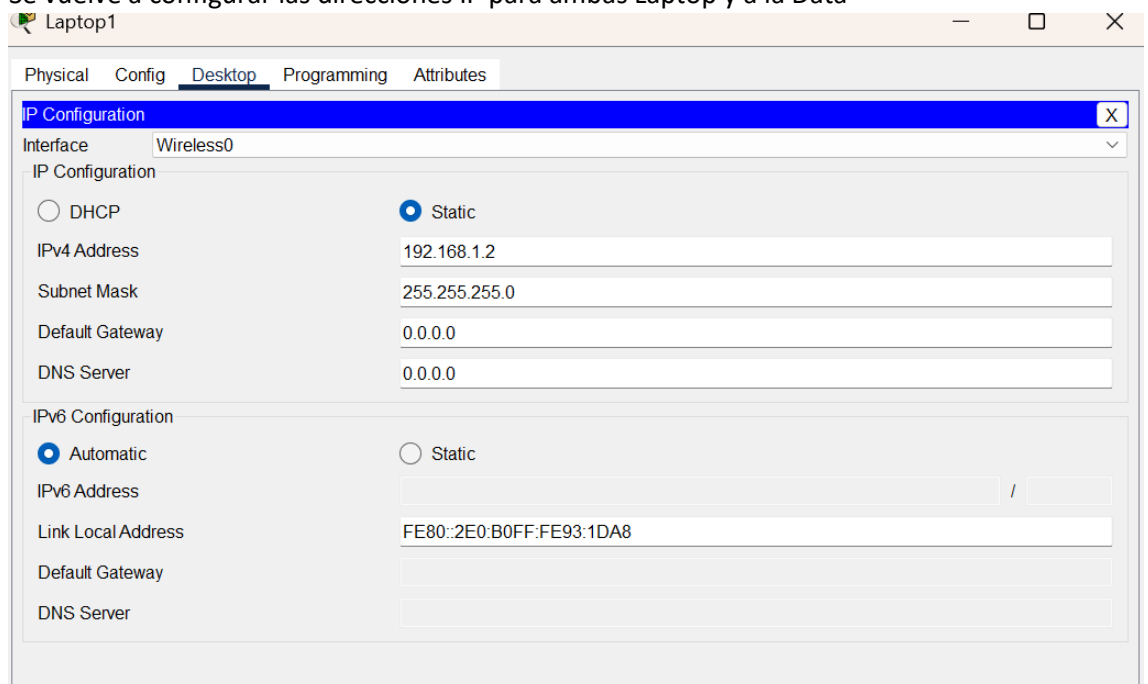
Shared Secret: [Empty]

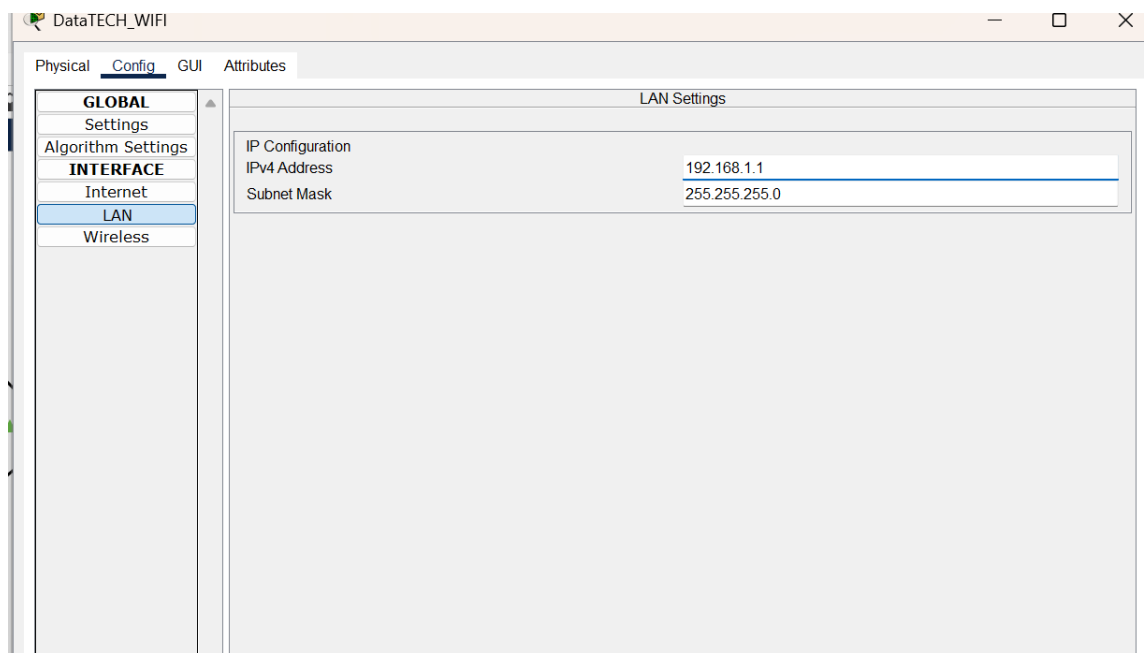
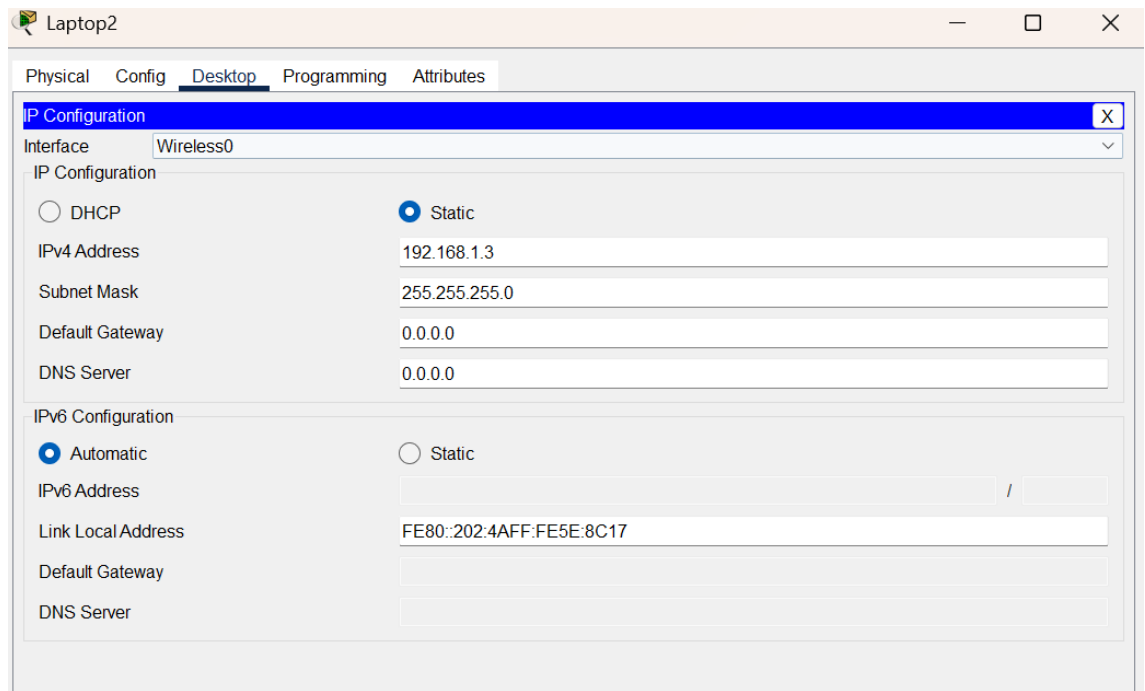
Encryption Type: AES

### 4. Configuramos WRT300N

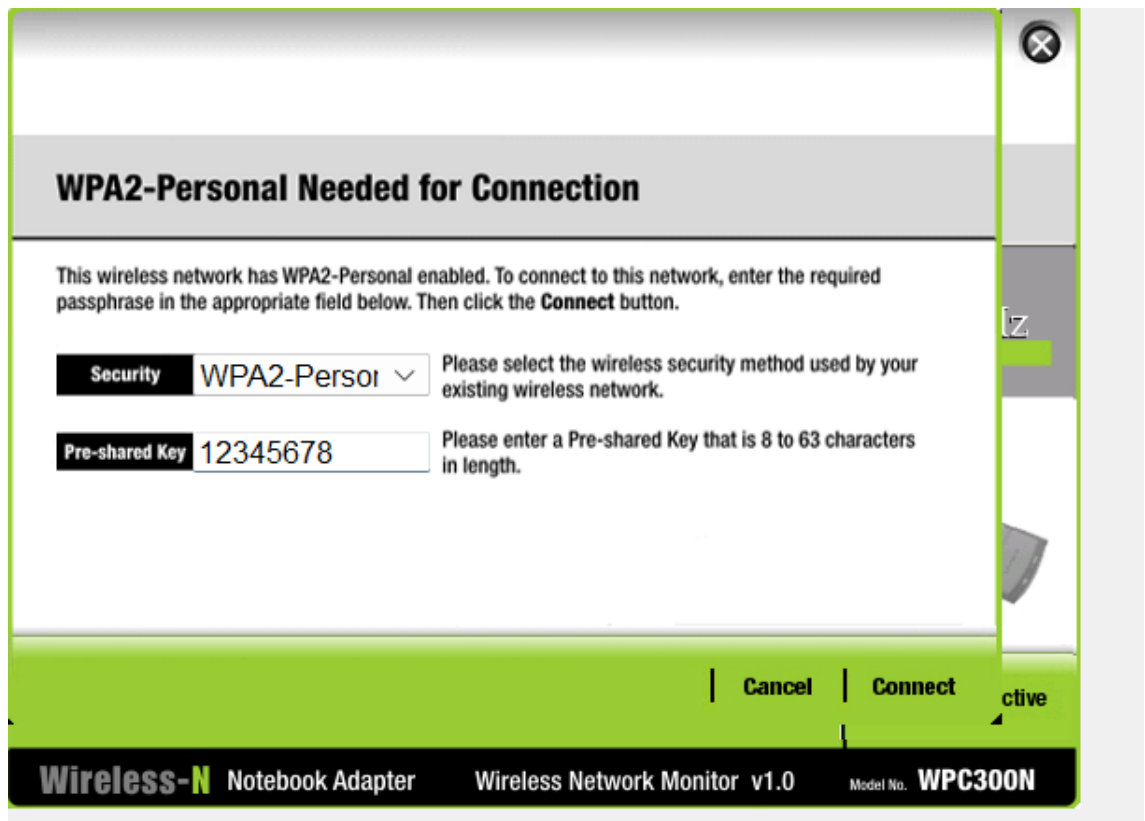


5. Se vuelve a configurar las direcciones IP para ambas Laptop y a la Data





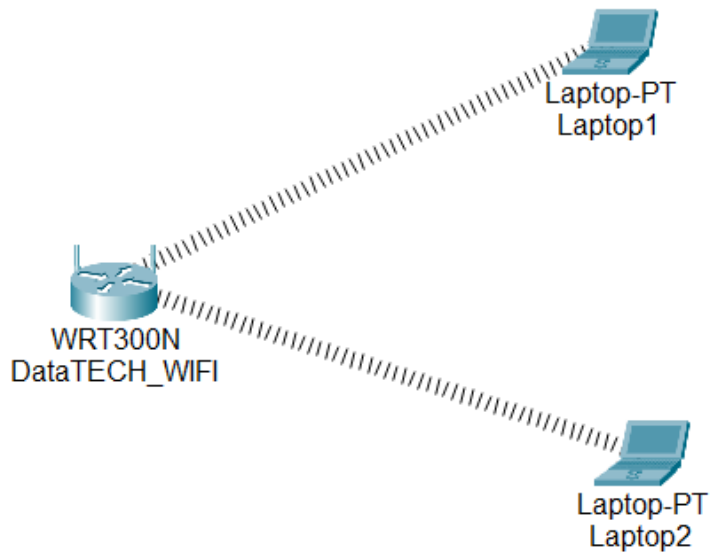
## 6. Coonectando las Laptop a la Data



Así vemos que está conectado



Y vemos que ya quedó conectado ambas laptops



## 7. Hacemos ping en las Laptops

Physical Config Desktop Programming Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>

ping 192.168.1.2

Pinging 192.168.1.2 with 32 bytes of data:

Reply from 192.168.1.2: bytes=32 time=4ms TTL=128
Reply from 192.168.1.2: bytes=32 time=6ms TTL=128
Reply from 192.168.1.2: bytes=32 time=6ms TTL=128
Reply from 192.168.1.2: bytes=32 time=6ms TTL=128

Ping statistics for 192.168.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 4ms, Maximum = 6ms, Average = 5ms

C:\>ping 192.168.1.3

Pinging 192.168.1.3 with 32 bytes of data:

Reply from 192.168.1.3: bytes=32 time=60ms TTL=128
Reply from 192.168.1.3: bytes=32 time=36ms TTL=128
Reply from 192.168.1.3: bytes=32 time=29ms TTL=128
Reply from 192.168.1.3: bytes=32 time=33ms TTL=128

Ping statistics for 192.168.1.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 29ms, Maximum = 60ms, Average = 39ms

C:\>|
```

Agregamos un Switches y configuramos enseguida con los PC

Switch1

Physical

Config

CLI

Attributes

MODULES

PT-SWITCH-NM-1CE

PT-SWITCH-NM-1CFE

PT-SWITCH-NM-1CGE

PT-SWITCH-NM-1FFE

PT-SWITCH-NM-1FGE


PT-SWITCH-NM-COVER

Physical Device View

Zoom In

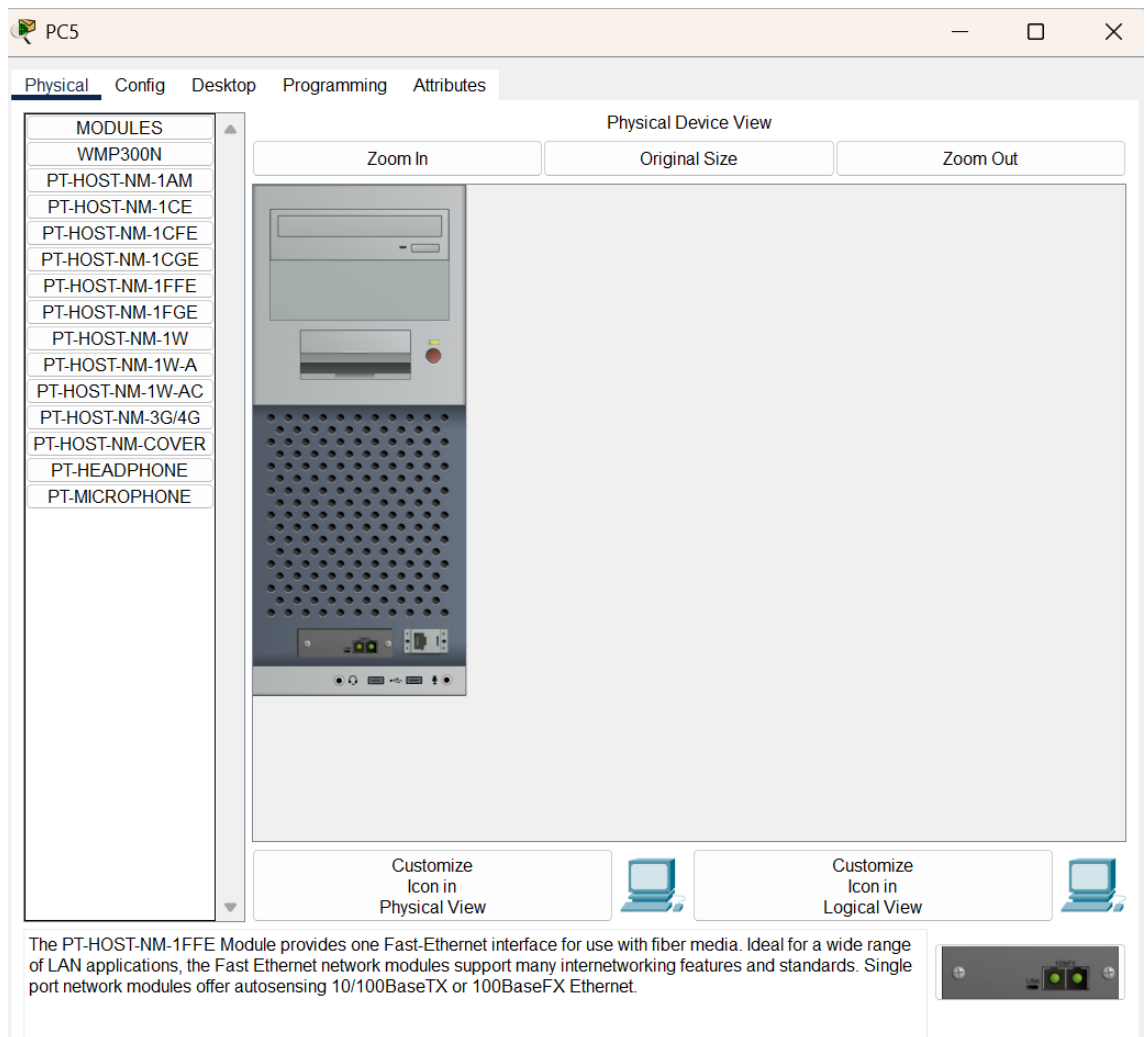
Original Size

Zoom Out



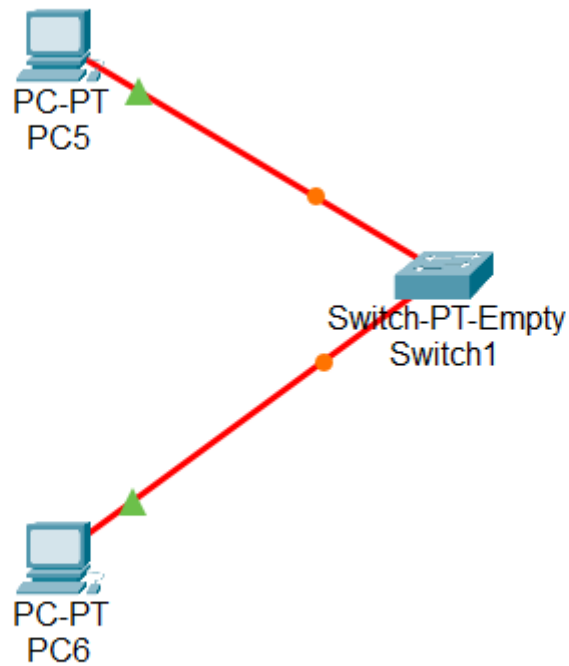
Customize Icon in Physical View

Customize Icon in Logical View



8. Ya conectamos el Fiber





## 9. Configuramos las IP en los PC

PC5

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.1.4

Subnet Mask 255.255.255.0

Default Gateway 0.0.0.0

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80::20A:41FF:FE1C:13AB

Default Gateway

DNS Server

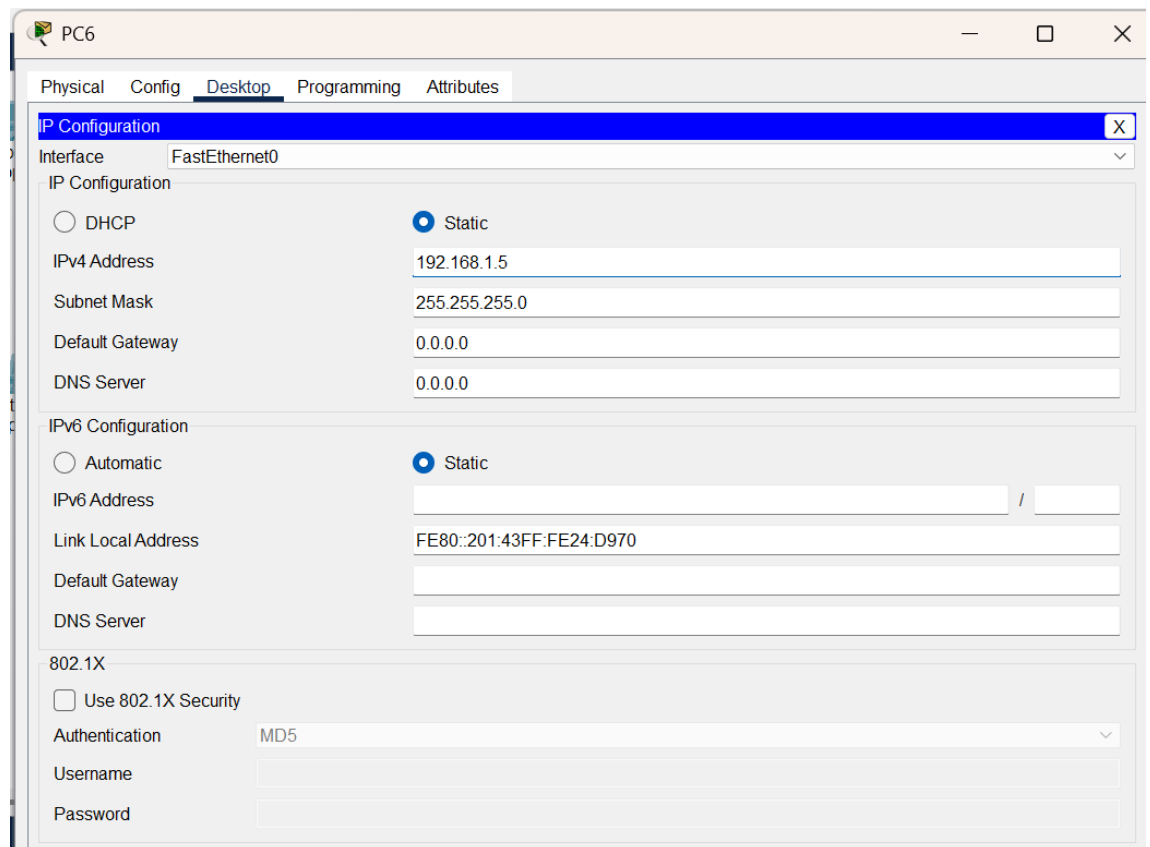
802.1X

☐ Use 802.1X Security

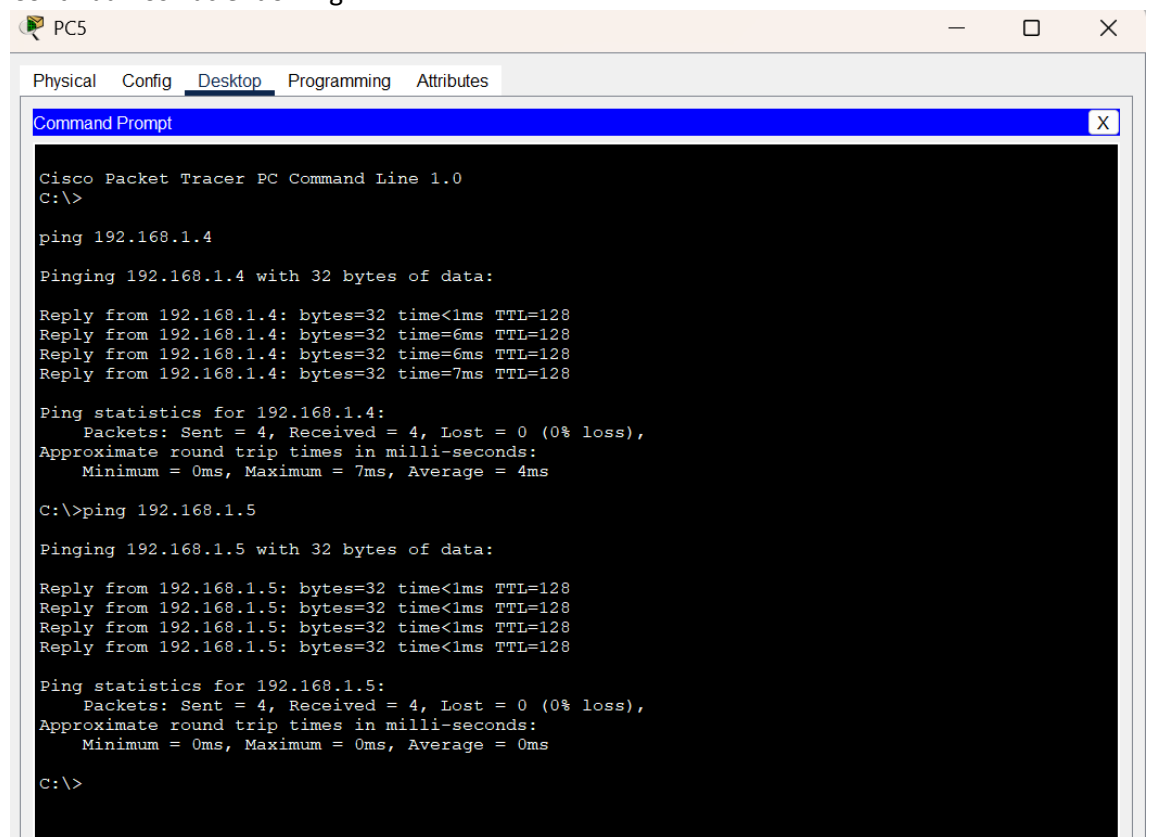
Authentication MD5

Username

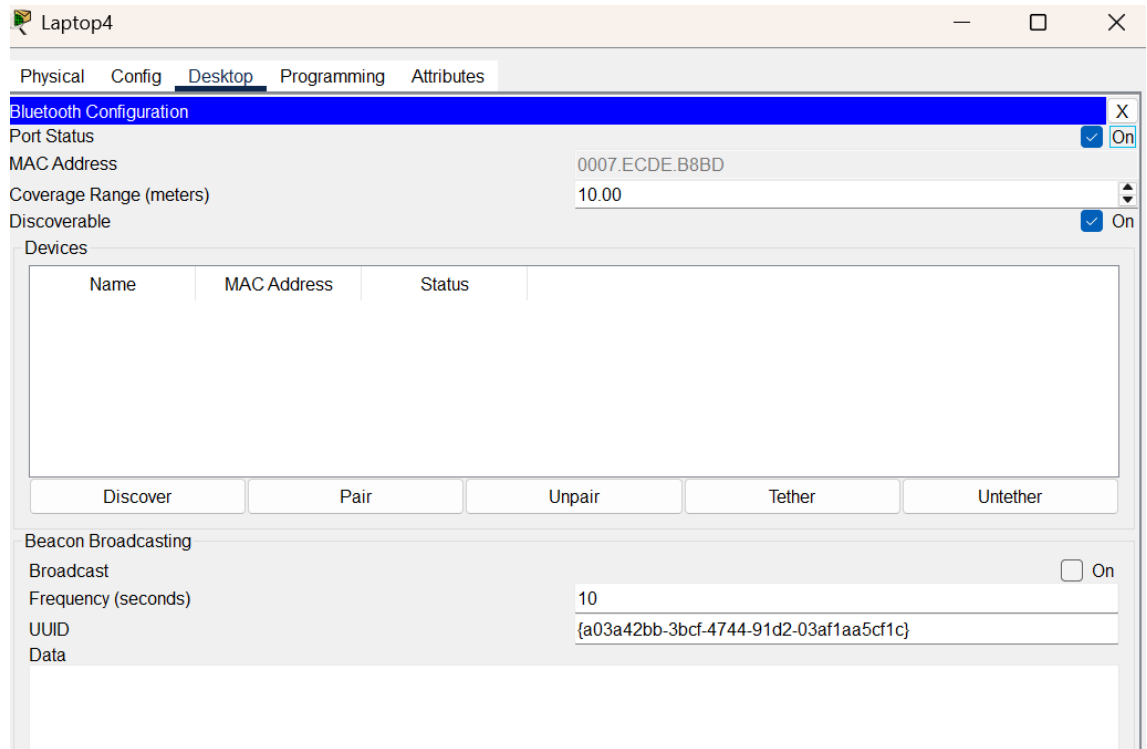
Password



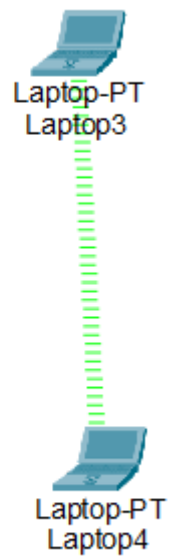
## Continuamos haciendo Ping



10. Conexiones a Bluetooth
11. Configuramos las laptops



Y conectamos ambas a Bluetooth



12. Así queda nuestro laboratorio

