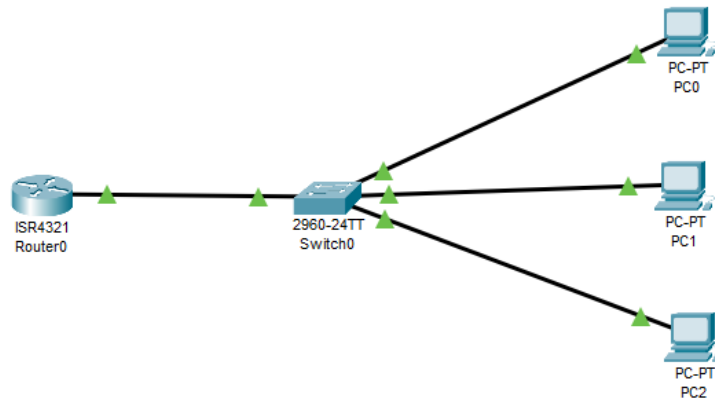


Laboratorio Redes LAN Packet Tracer

En este laboratorio simularemos varios entornos de red LAN



Activacion del puerto ethernet del router

The screenshot shows the Packet Tracer interface with the Router0 configuration window open. The 'Config' tab is selected, and the 'GigabitEthernet0/0/0' interface is chosen from the left sidebar. The configuration details for this interface are displayed on the right:

- Port Status:** On (checked)
- Bandwidth:** 1000 Mbps (selected), 100 Mbps, 10 Mbps, Auto (checked)
- Duplex:** Half Duplex, Full Duplex (checked), Auto (checked)
- MAC Address:** 000C.85EE.8901
- IP Configuration:**
 - IPv4 Address: 192.168.1.1
 - Subnet Mask: 255.255.255.0
- Tx Ring Limit:** 10

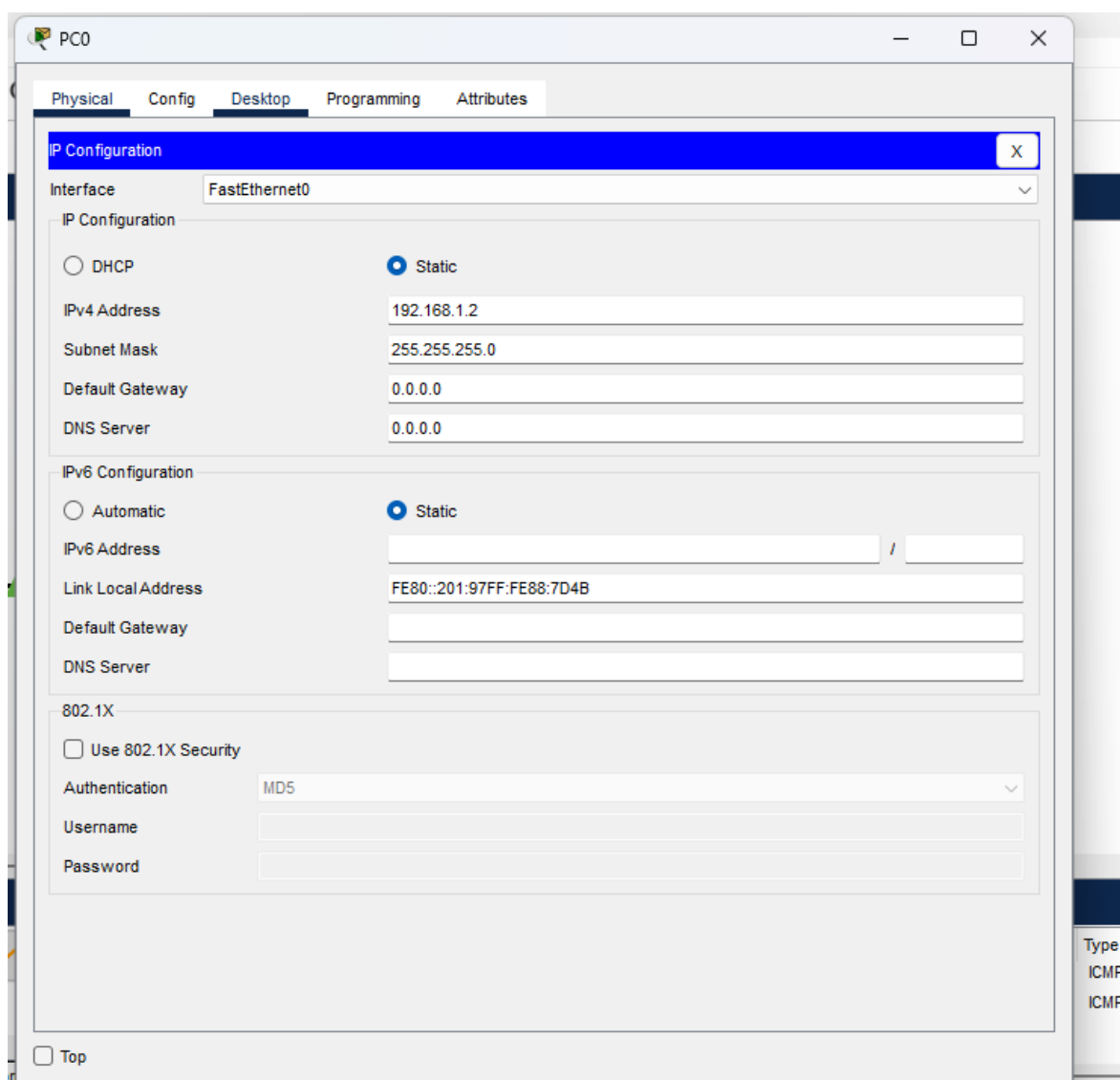
Below the configuration details, the 'Equivalent IOS Commands' section shows the following commands:

```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface GigabitEthernet0/0/0
Router(config-if)#ip address 192.168.1.1 255.255.255.0
Router(config-if)#ip address 192.168.1.1 255.255.255.0
Router(config-if)#
```

The bottom right corner of the interface shows a 'Real' time display and a table of network statistics:

Type	Color	Time(sec)
ICMP	Red	0.000
ICMP	Green	0.000
ICMP	Purple	0.000

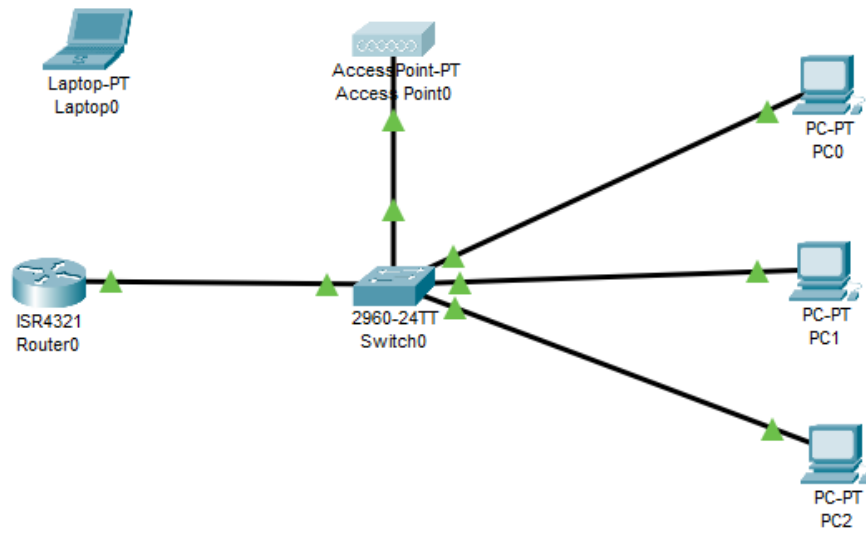
Asignación de direcciones IP a los diferentes pc



Envío de paquetes para la prueba de conexión

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit
	Successful	PC0	PC2	ICMP		0.000	N	0	(edit)
	Successful	PC1	PC0	ICMP		0.000	N	1	(edit)

Ahora agregamos un Access Point

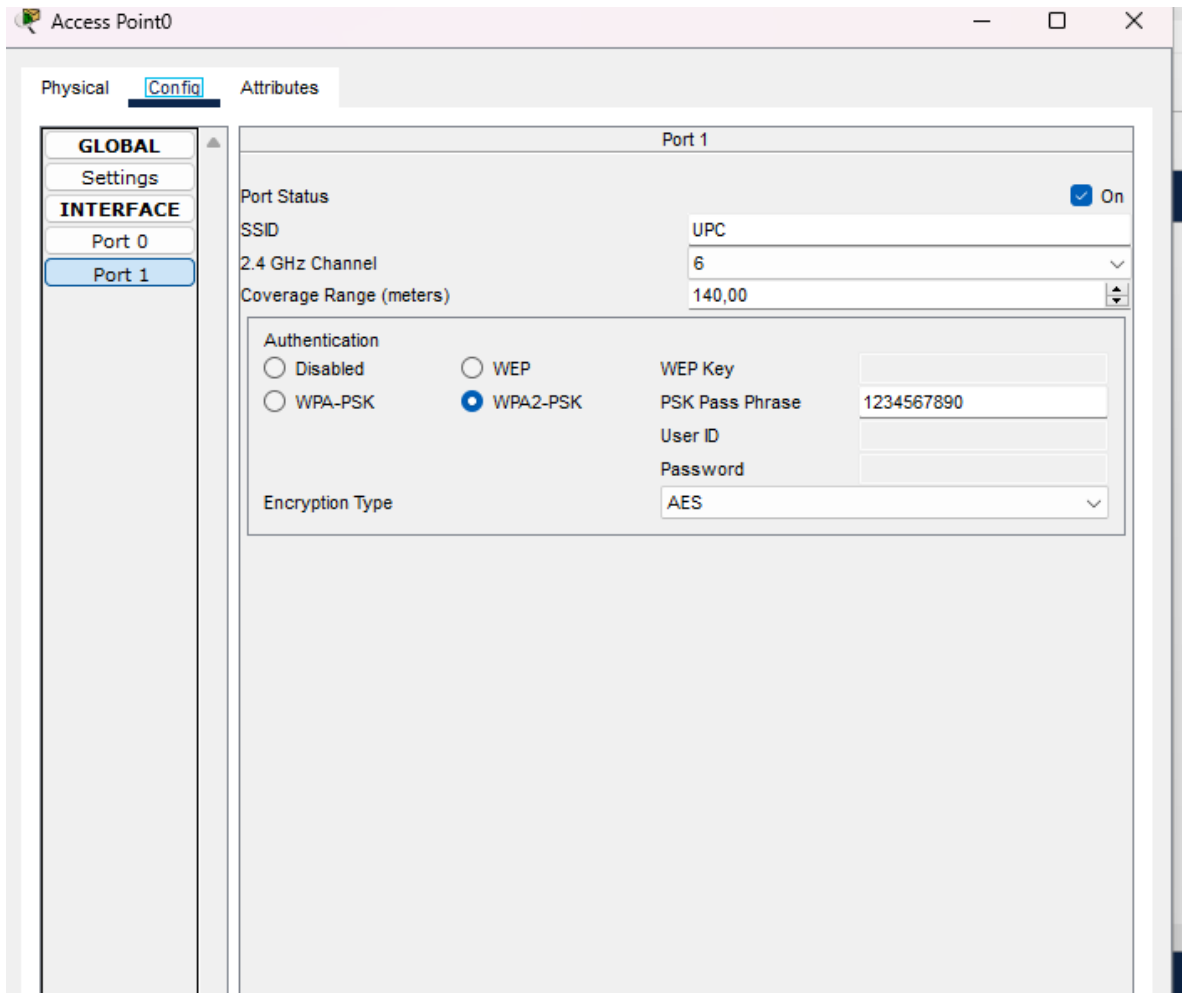


Configuramos el Access Point

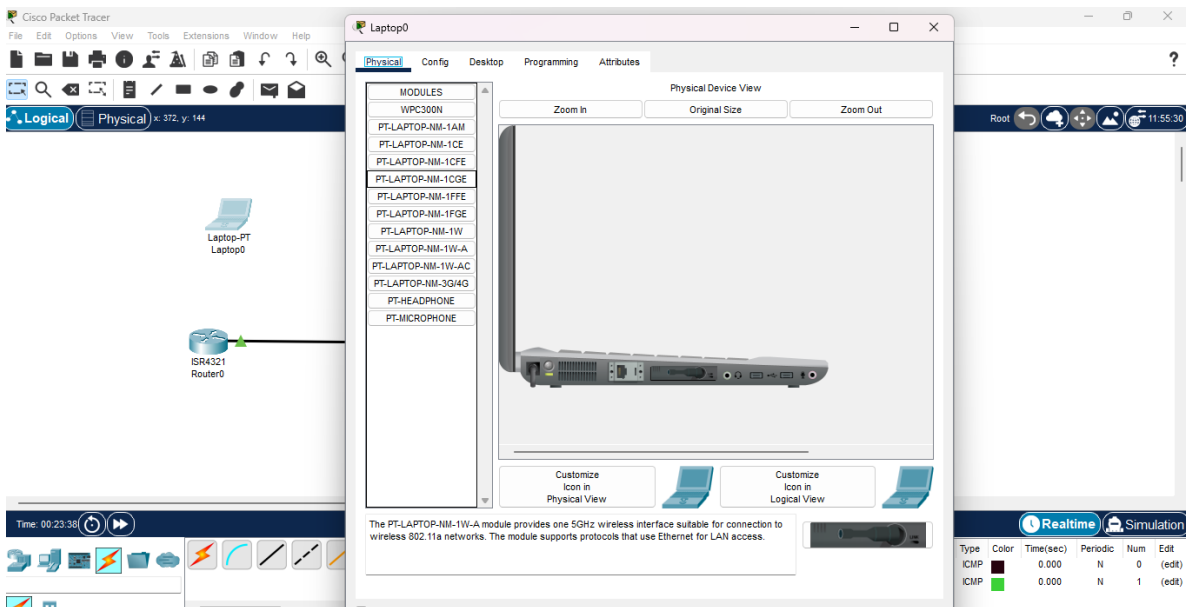
The screenshot shows the Cisco Packet Tracer interface with the following components:

- Physical Tab:** Displays the PT-REPEATER-NM-1CE module in the Modules list.
- Physical Device View:** Shows the physical components of the device, including the Ethernet port and the RJ45 port.
- Customize Icon in Physical View:** A button to customize the icon of the device in the Physical View.
- Customize Icon in Logical View:** A button to customize the icon of the device in the Logical View.
- Status Bar:** Shows the simulation is running in Realtime mode.

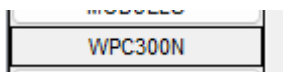
The PT-REPEATER-NM-1CE features a single Ethernet port that can connect a LAN backbone which can also support either six PRI connections to aggregate ISDN lines, or 24 synchronous/asynchronous ports.



Ahora configuramos el laptop

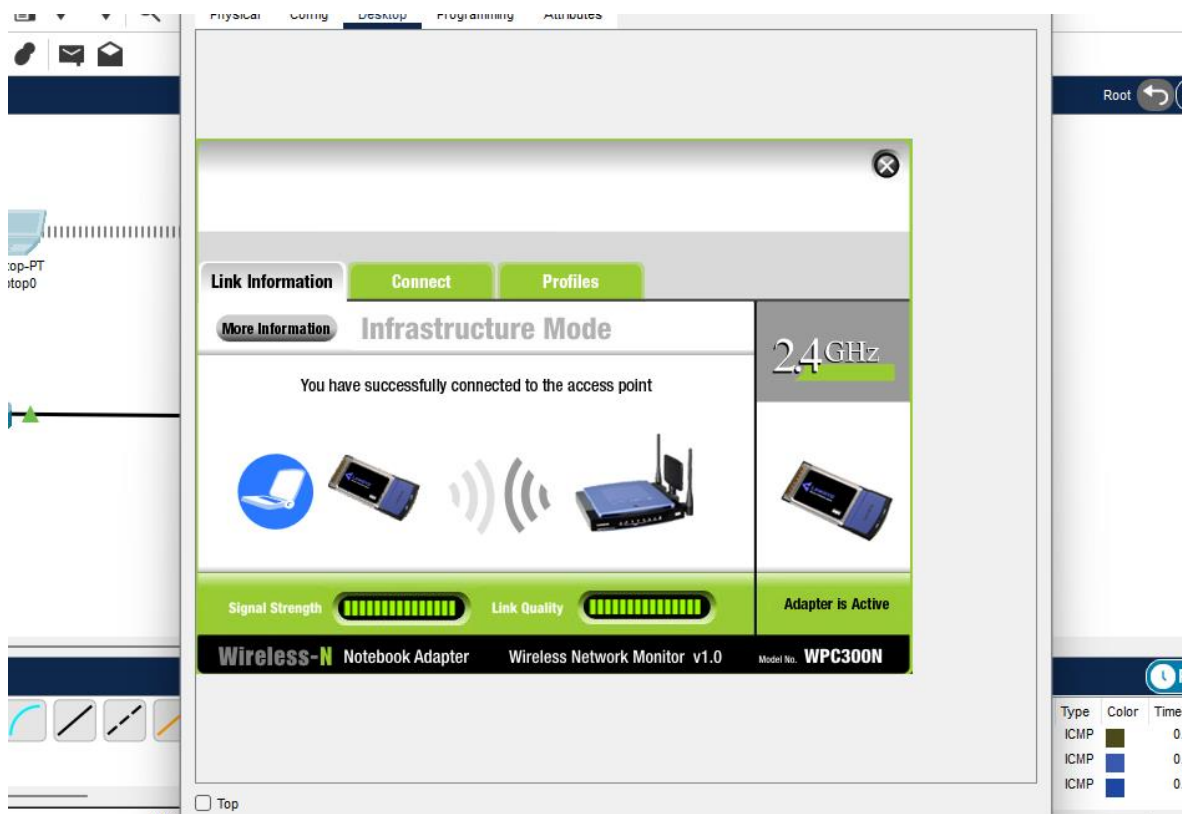
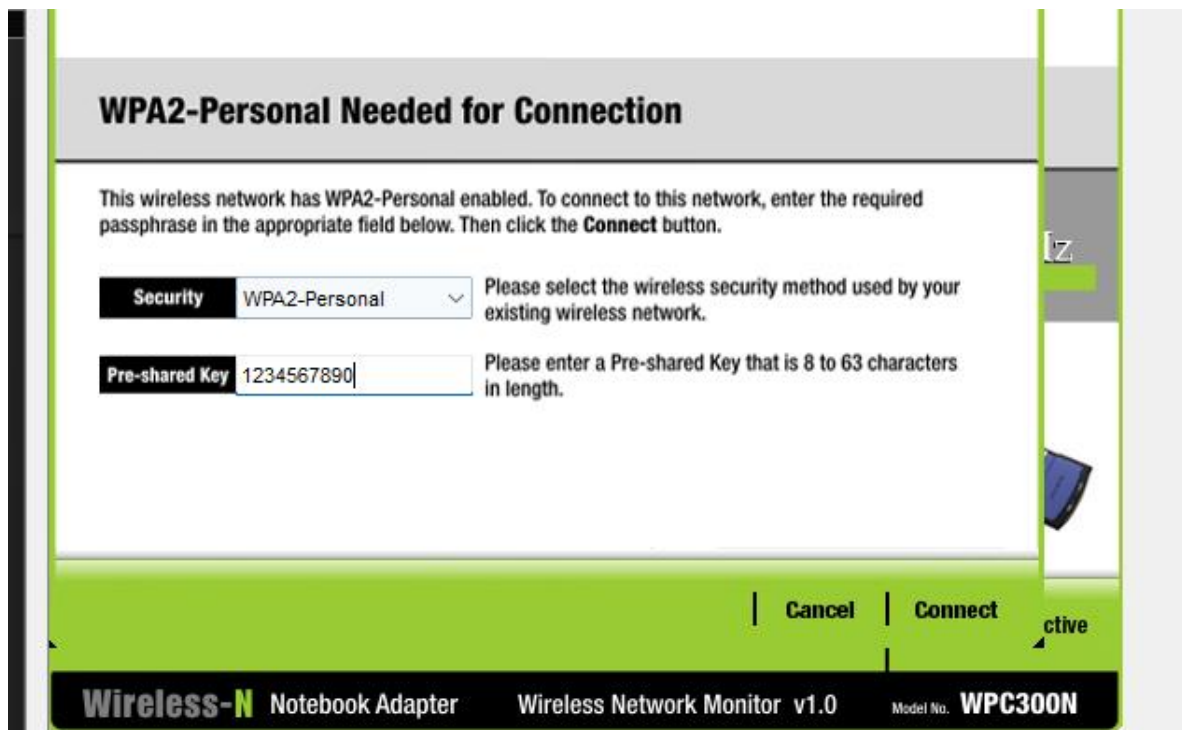


en este paso debemos cambiar su modulo para que acepte conexiones Wireless, en este caso utilizamos WPC300N

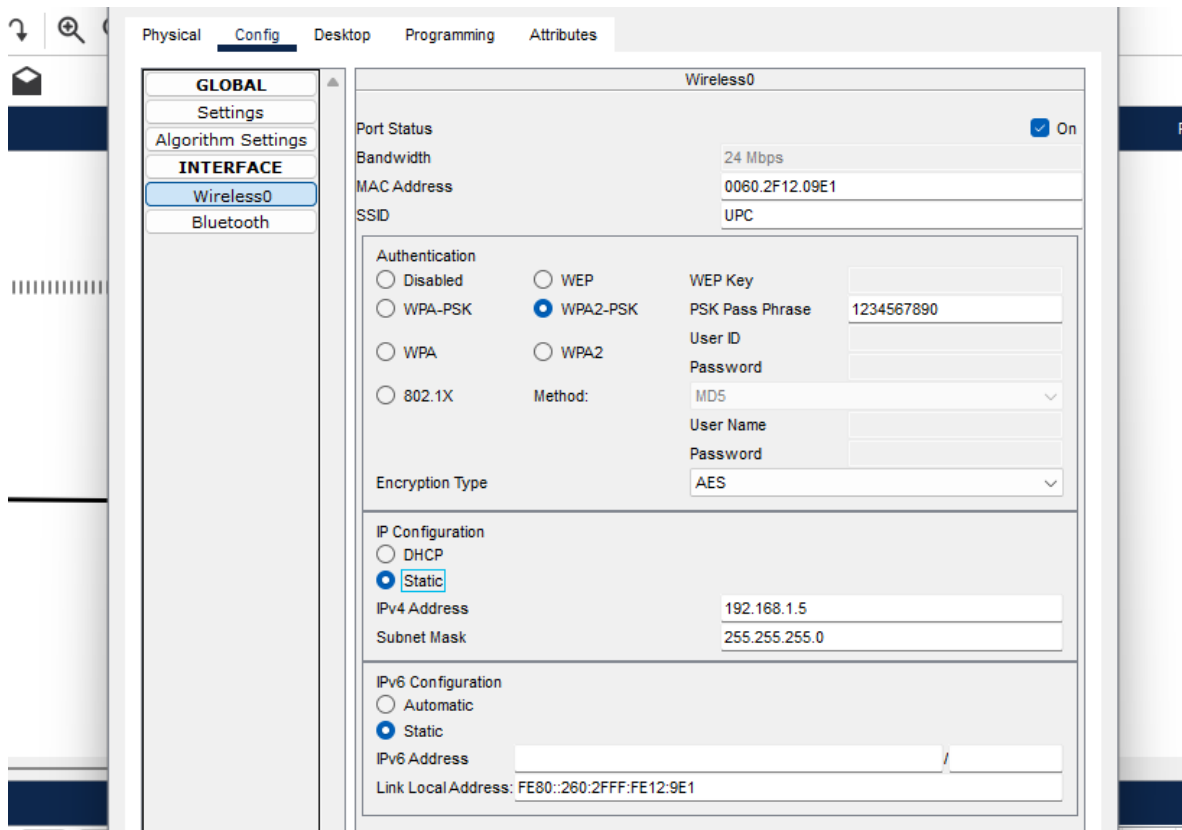


Ahora configuramos el Wireless de acuerdo a la configuración del Access Point para acceder a ella



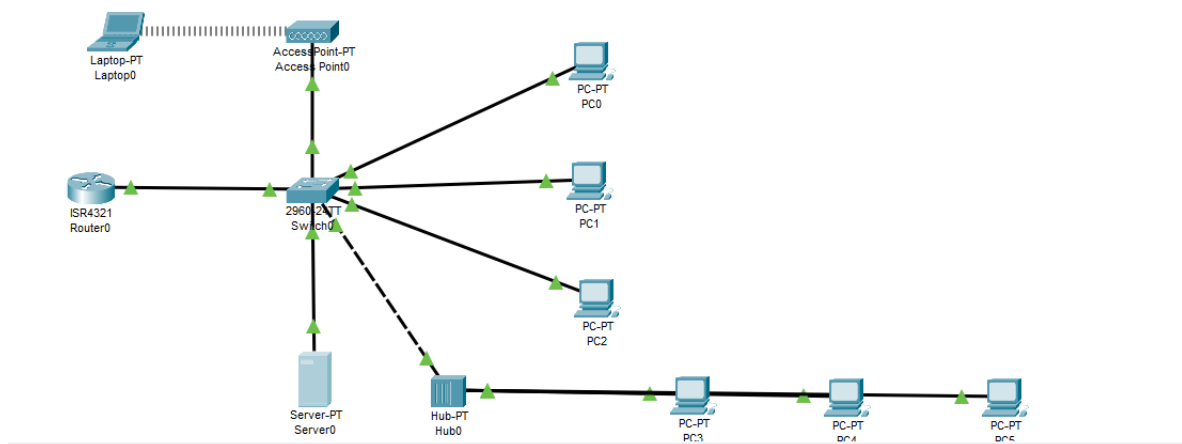


Ahora configuramos la ip de la laptop



Simulacion de una red en Bus

Diseño en Packet Tracer



Configuramos el servidor

PhysicalConfigServicesDesktopProgrammingAttributes

SERVICES

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

Radius EAP

FTP

Service

On

Off

User Setup

Username

Password

Write

Read

Delete

Rename

List

	Username	Password	Permission
1	admin	admin	RWDNL
2	manager	manager	RWNL
3	operator	operator	RW

Add

Save

Remove

File

1

asa842-k8.bin

2

asa923-k8.bin

3

c1841-advipservicesk9-mz.124-15.T1.bin

4

c1841-ipbase-mz.123-14.T7.bin

5

c1841-ipbasek9-mz.124-12.bin

6

c1900-universalk9-mz.SPA.155-3.M4a.bin

Remove

Configuramos la ipv4

GLOBAL	FastEthernet0
Settings	Port Status <input checked="" type="checkbox"/> On
Algorithm Settings	Bandwidth <input checked="" type="radio"/> 100 Mbps <input type="radio"/> 10 Mbps <input checked="" type="checkbox"/> Auto
INTERFACE	Duplex <input type="radio"/> Half Duplex <input checked="" type="radio"/> Full Duplex <input checked="" type="checkbox"/> Auto
FastEthernet0	MAC Address 0005.5E91.9773
	<div>IP Configuration</div> <div> <input type="radio"/> DHCP <input checked="" type="radio"/> Static </div> <div> IPv4 Address 192.168.1.20 Subnet Mask 255.255.255.0 </div>
	<div>IPv6 Configuration</div> <div> <input type="radio"/> Automatic <input checked="" type="radio"/> Static </div> <div> IPv6 Address <input type="text"/> / <input type="text"/> Link Local Address: FE80::205:5EFF:FE91:9773 </div>

Probamos el acceso al servidor a través de ftp

```
C:\>ftp 192.168.1.20
Trying to connect...192.168.1.20
Connected to 192.168.1.20
220- Welcome to PT Ftp server
Username:admin
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>
```

Ahora probamos si el servidor funciona correctamente

```
C:\>mkdir CONTABILIDAD:EXE
The filename, directory name, or volume label syntax is incorrect.

C:\>mkdir CONTABILIDAD.EXE
C:\>dir

Volume in drive C has no label.
Volume Serial Number is 5E12-4AF3
Directory of C:\

3/1/1993    1:5 PM    <DIR>          CONTABILIDAD.EXE
12/31/1969  19:0 PM    26            sampleFile.txt
```

```

C:\>ftp 192.168.1.20
Trying to connect...192.168.1.20
Connected to 192.168.1.20
220- Welcome to PT Ftp server
Username:admin
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>put CONTABILIDAD.EXE

Writing file CONTABILIDAD.EXE to 192.168.1.20:
File transfer in progress...

```

Ahora intentamos borrar un archivo

```

C:\>ftp 192.168.1.20
Trying to connect...192.168.1.20
Connected to 192.168.1.20
220- Welcome to PT Ftp server
Username:admin
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>dir

Listing /ftp directory from 192.168.1.20:
0   : asa842-k8.bin                               5571584
1   : asa923-k8.bin                               30468096
2   : cl841-advipservicesk9-mz.124-15.T1.bin      33591768
3   : cl841-ipbase-mz.123-14.T7.bin               13832032
4   : cl841-ipbasek9-mz.124-12.bin                16599160

ftp>delete asa842-k8.bin

Deleting file asa842-k8.bin from 192.168.1.20: ftp>
[Deleted file asa842-k8.bin successfully ]
ftp>dir

Listing /ftp directory from 192.168.1.20:
0   : asa923-k8.bin                               30468096
1   : cl841-advipservicesk9-mz.124-15.T1.bin      33591768
2   : cl841-ipbase-mz.123-14.T7.bin               13832032
3   : cl841-ipbasek9-mz.124-12.bin                16599160
4   : cl900-universalk9-mz.SPA.155-3.M4a.bin      33591768
5   : c2600-advipservicesk9-mz.124-15.T1.bin      33591768

```