

# INTRODUCCIÓN A CISCO PACKET TRACER



*Imagen: Creada en Blender por Diego Pastrana Monzón*

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## INTRODUCCIÓN:

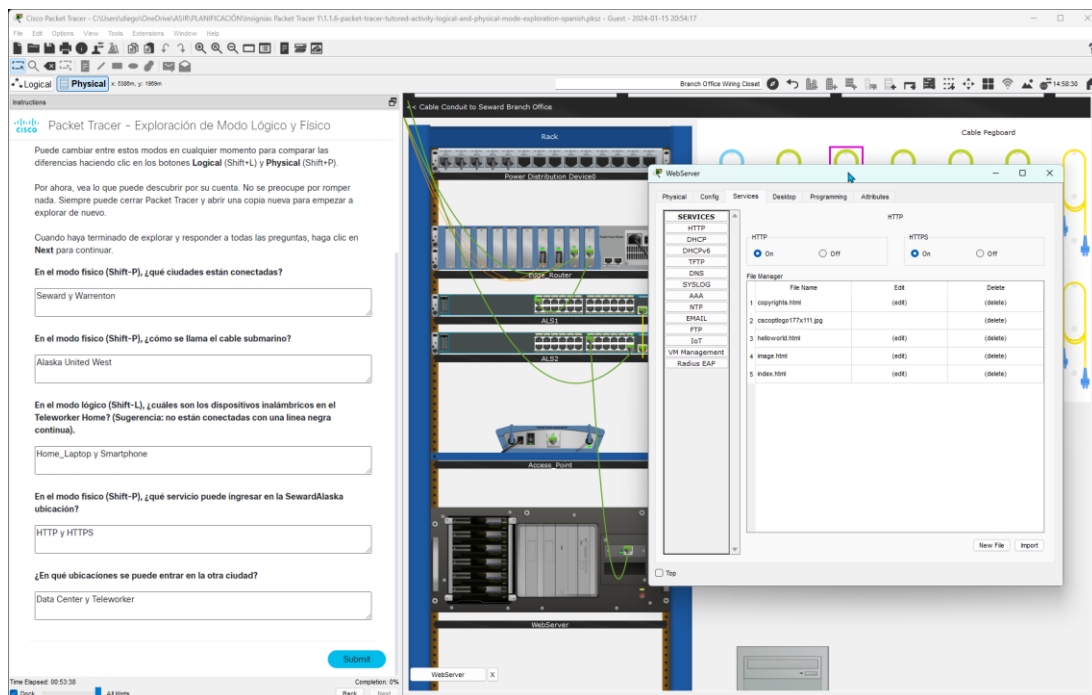
Este curso debe aportar los principales conocimientos sobre Packet Tracer además de hacerte practicar las habilidades aprendidas.

## DESARROLLO:

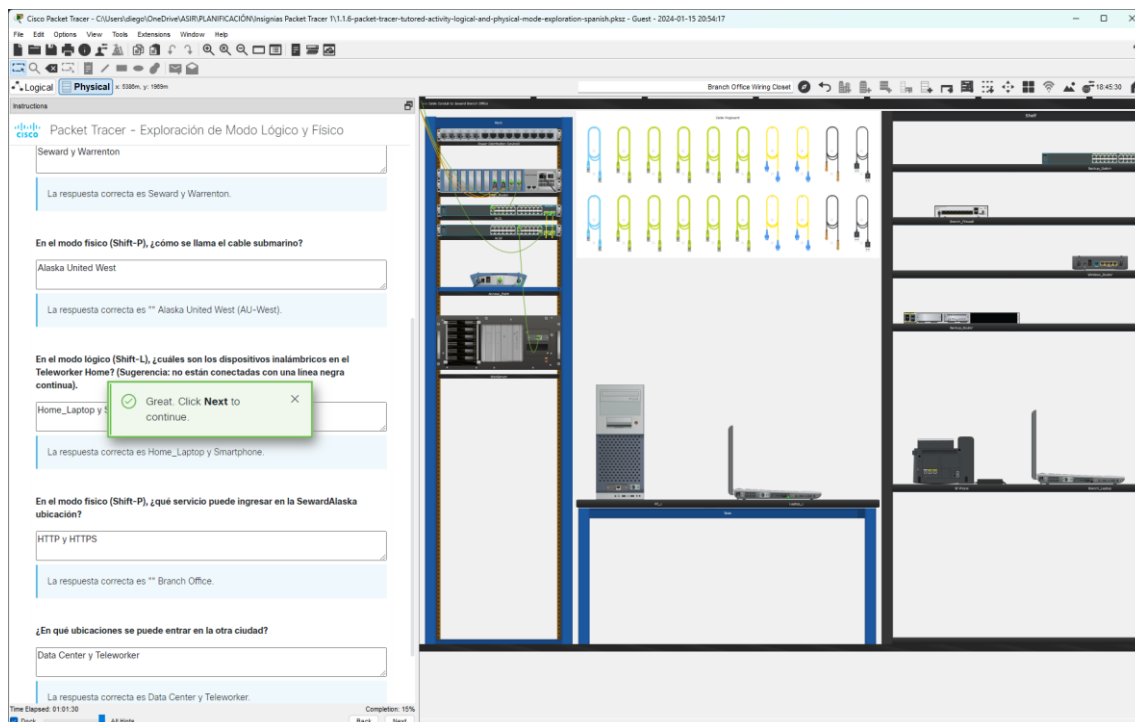
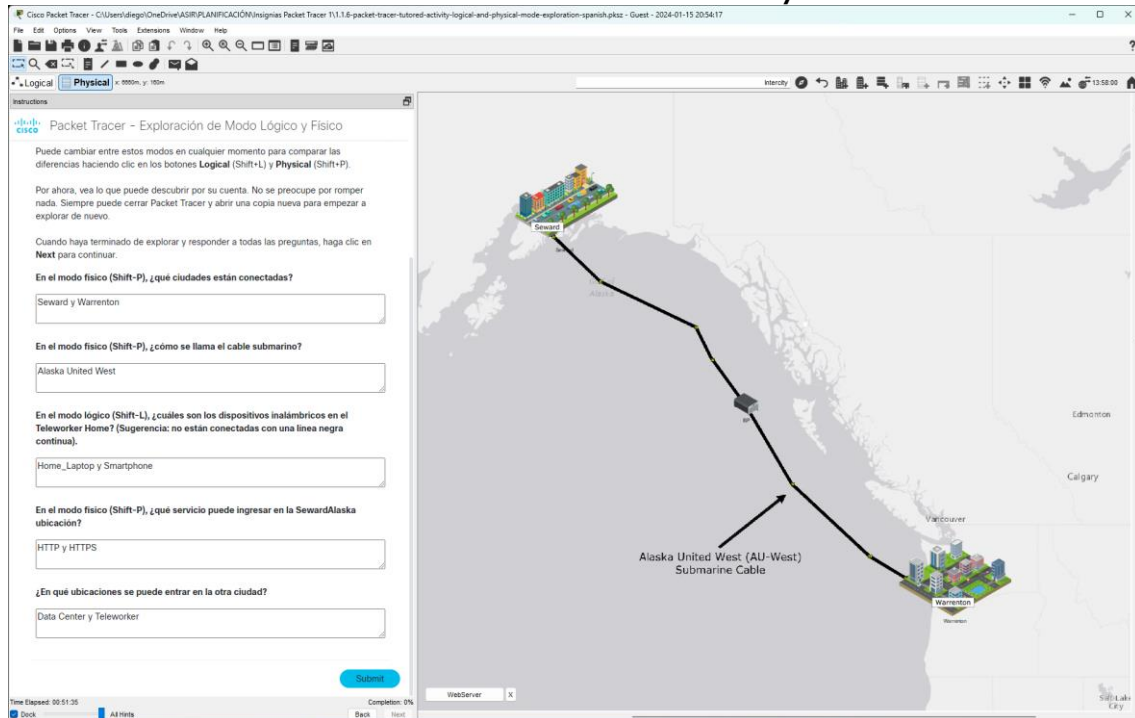
### Actividad 1.1.6

#### Parte 1

Nos vamos moviendo por el mapa mientras usamos a petición el modo lógico o físico y vamos respondiendo las preguntas a medida que vamos avanzando.



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1º de ASIR  
Planificación y Administración de Redes



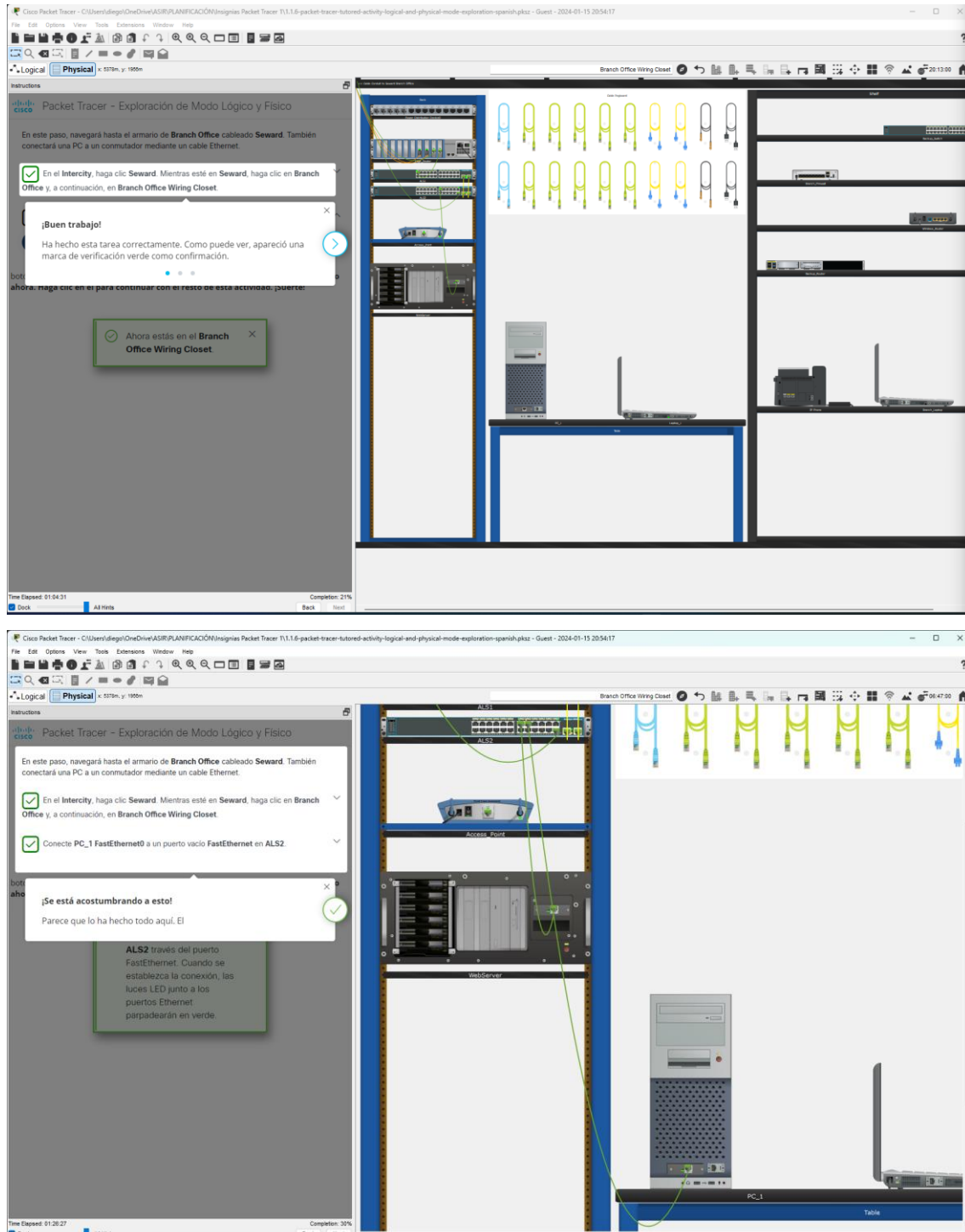
**Diego Fermín Pastrana Monzón**  
**1º de ASIR**  
**Planificación y Administración de Redes**

Physical Locations	
Current Location: Intercity	
Name	Type
Intercity	Intercity
Warrenton	City
Warrenton Data Center	Building
Warrenton Data Center Server Room	Wiring Closet
Rack_0	Rack
Power Distribution Device4(1)	Device
Warrenton_DC_Rack0_Switch1	Device
W-DC-R0_S3	Device
W-DC-R0_S2	Device
Warrenton_DC_Rack0_Switch2	Device
W-DC-R0_S1	Device
Warrenton_DC_MasterSwitch_2	Device
Warrenton_DC_MasterSwitch_1	Device
Warrenton_DC_Router_2	Device
Warrenton_DC_Router_1	Device
Rack_1	Rack
Power Distribution Device9	Device
Warrenton_DC_Rack1_Switch2	Device
Warrenton_DC_Rack1_Switch1	Device
W-DC-R1_S1	Device
W-DC-R1_S2	Device
W-DC-R1_S3	Device
W-DC-R1_S5	Device
W-DC-R1_S4	Device
Rack_2	Rack
Warrenton_DC_Rack2_Switch1	Device
Warrenton_DC_Rack2_Switch2	Device
Power Distribution Device1(1)	Device
W-DC-R2_S1	Device
W-DC-R2_S2	Device
W-DC-R2_S3	Device
W-DC-R2_S4	Device
W-DC-R2_S5	Device
Cable Pegboard	Cable Pegboard
Table	Table
Warrenton_DC_Admin	Device
Shelf	Shelf
Server2	Device
Backup_R2	Device
Backup_S1	Device
Backup_S2	Device
Server1	Device
Server0	Device
Cisco Firewall	Device
Backup_R1	Device
Teleworker Home	Building
Home_Gateway	Device
Laser_Printer	Device
Home_PC	Device
Smartphone	Device
Home_Laptop	Device
Network_Switch	Device
Seward	City
Seward Branch Office	Building
Branch Office Wiring Closet	Wiring Closet
Rack	Rack
Power Distribution Device0	Device
WebServer	Device
Edge_Router	Device
ALS1	Device
ALS2	Device
Access_Point	Device
Table	Table
PC_1	Device
Laptop_1	Device
Shelf	Shelf
Branch_Firewall	Device
Backup_Switch	Device
Wireless_Router	Device
IP Phone	Device
Branch_Laptop	Device
Backup_Router	Device
Cable Pegboard	Cable Pegboard
ISP	Wiring Closet
Rack	Rack
Power Distribution Device1	Device
ISP	Device

En el modo físico también podemos movernos de manera más sencilla usando esta ventana, la cual se abre usando la brújula de la parte superior de nuestro Packet Tracer.

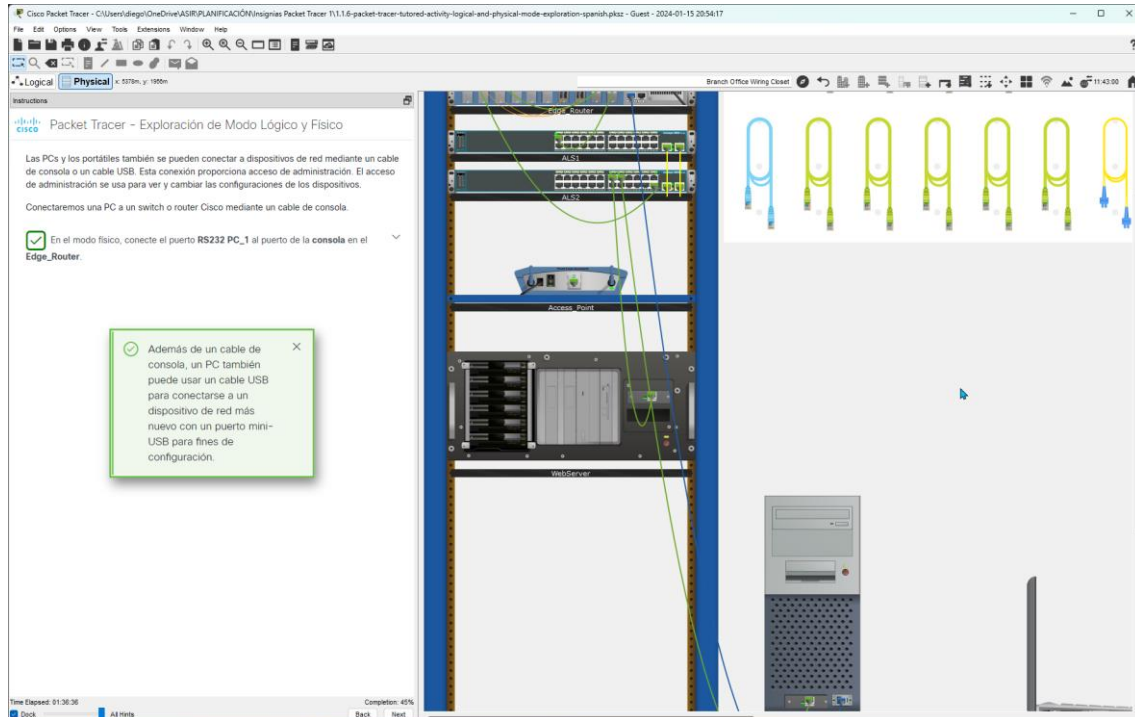
## Parte 2

En esta parte tenemos que navegar hasta el sitio solicitado y conectar el PC\_1 al ALS2 mediante FastEthernet en un puerto vacío.



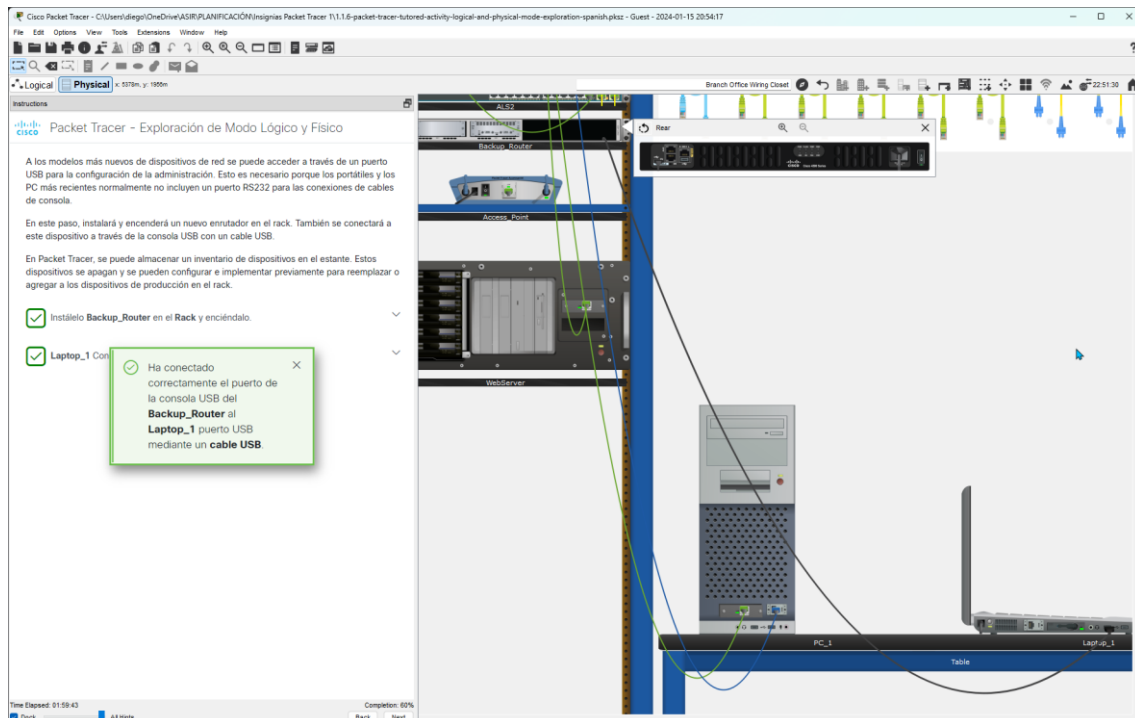
### Parte 3

En el modo físico conectamos mediante el cable de consola al Edge\_Router



### Parte 4

Tenemos que instalar el Backup\_Router que estaba en la estantería y conectarlo a Laptop\_1 mediante cable USB



## Parte 5

Desde Laptop\_1 tenemos que abrir el terminal y desde ahí iniciamos la conexión de los terminales. Después usamos los comandos solicitados.

The image displays two screenshots of the Cisco Packet Tracer interface, illustrating the configuration of a terminal on a laptop to connect to a router.

**Top Screenshot:** The interface shows the 'Physical' tab selected. A terminal window is open on 'Laptop\_1', displaying the router's boot sequence and configuration. The terminal output includes the following text:

```
--- System Configuration Dialog ---
Would you like to enter the initial configuration dialog? [yes/no]: no

Router> enable
Router> configure terminal
Router(config)# hostname Edge_Router_Backup
Edge_Router_Backup(config)# end
```

The terminal window also shows the router's boot sequence and configuration, including the following text:

```
...
cisco IOS4211/9 (M) processor with 1795392K/6147K bytes of memory.
Processor board ID F4H2320
3 Gigabit Ethernet interfaces
2 Serial interfaces
32768K bytes of non-volatile configuration memory.
4194304K bytes of physical memory.
3287167K bytes of flash memory at bootflash:
8K bytes of WebUI ODM files at webui:

Please RETURN to get started!

*Mar 1 00:00:00.000 : WTDRIVER - 6 - INHERITED : SIP1 : load : transceiver module
inserted in GigabitEthernet0/0/0

*Mar 1 00:00:00.000 : WTDRIVER - 6 - INHERITED : SIP1 : load : transceiver module
inserted in GigabitEthernet0/0/0

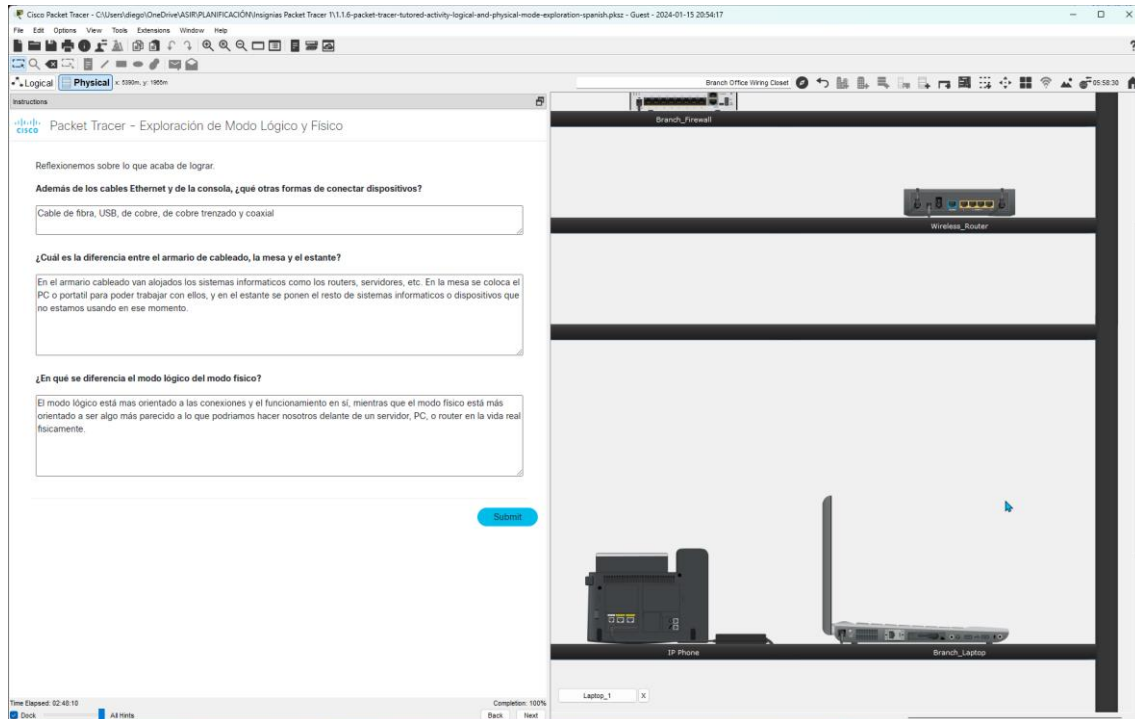
Router>
```

**Bottom Screenshot:** The interface shows the same setup, but the terminal window now displays the router's configuration, including the hostname 'Edge\_Router\_Backup' and the configuration command 'hostname Edge\_Router\_Backup'.

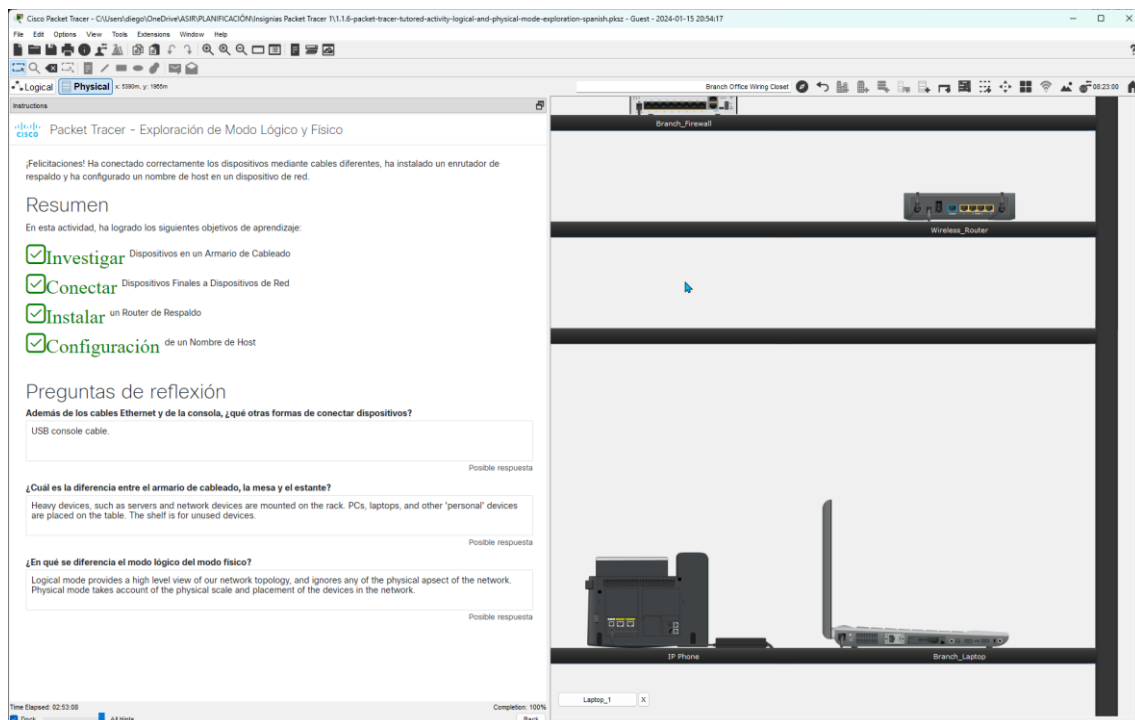


## Parte 6

Respondemos a las preguntas solicitadas acorde a este tema.



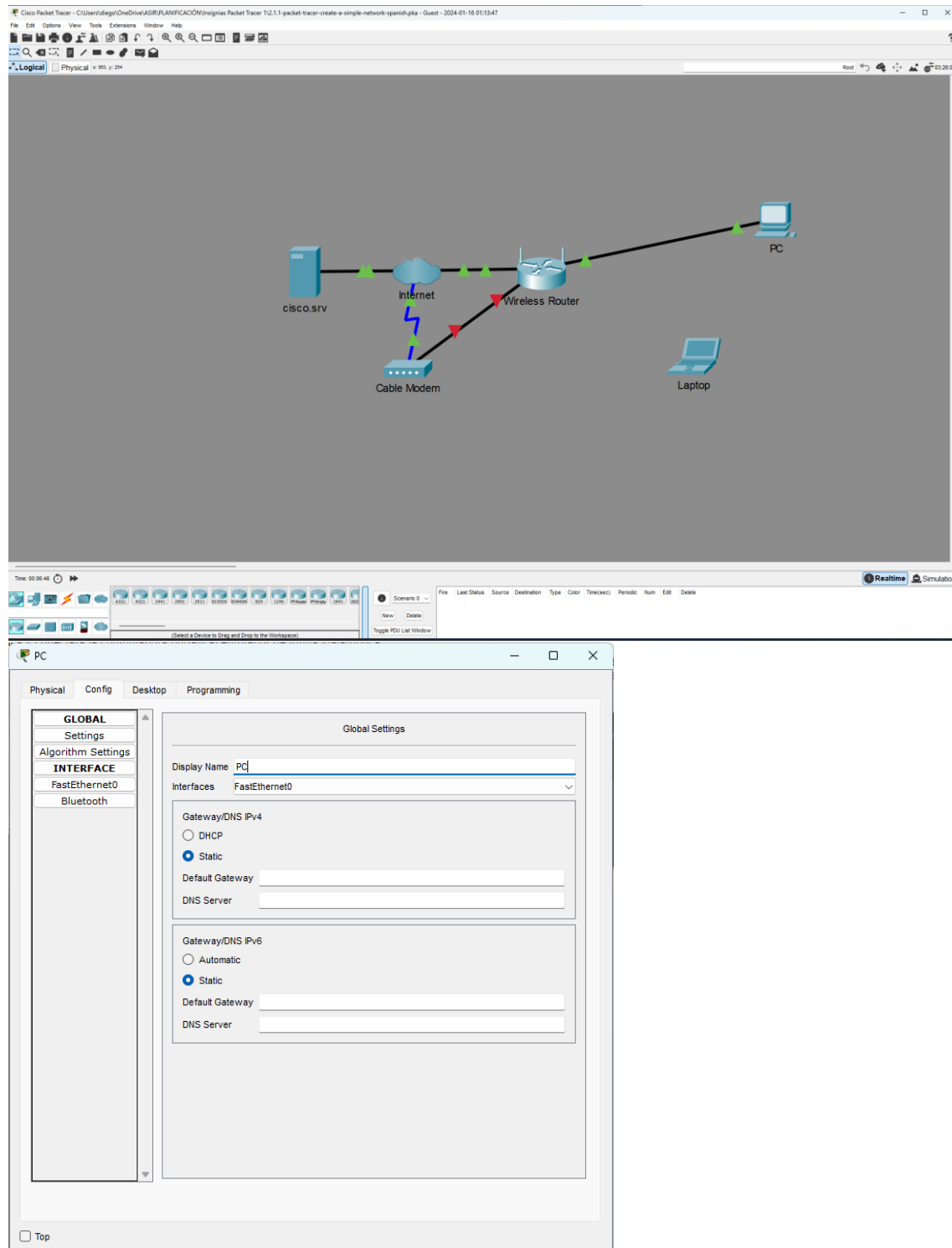
## Parte final





### Actividad 2.1.1

Tenemos crear una red simple con la cual al final podamos conecarnos y acceder a la web alojada en cisco.srv



The image displays a Cisco Packet Tracer environment. The top window shows a PC configuration for 'FastEthernet0' with the following details:

- Connection-specific DNS Suffix...: 0002.16D4.CADE
- Physical Address...: FE80::202:16FF:FED4:CADE
- Link-local IPv6 Address...: ::
- IPv6 Address...: 192.168.0.2
- Subnet Mask...: 255.255.255.0
- Default Gateway...: 192.168.0.1
- DHCP Servers...: 192.168.0.1
- DHCPv6 IAID...: ::
- DHCPv6 Client DUID...: 00-01-00-01-7C-4E-D9-30-00-02-16-D4-CA-DE
- DNS Servers...: 209.165.200.225

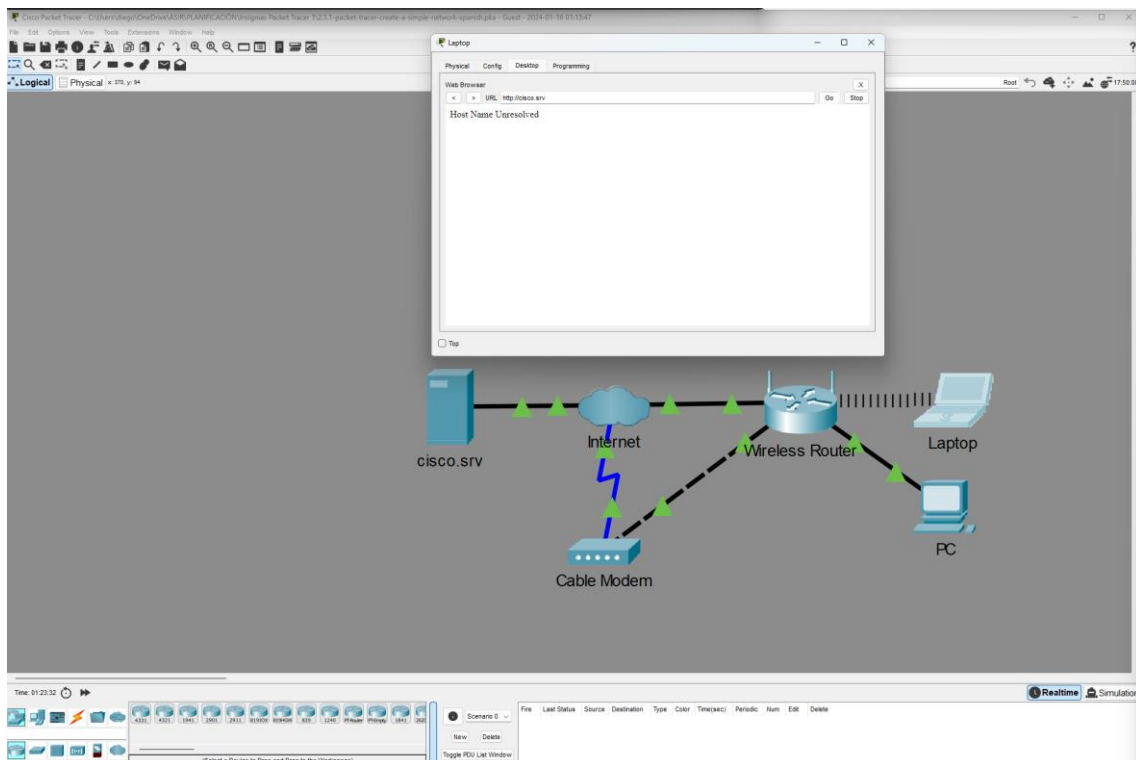
The bottom window shows a network diagram with the following components and connections:

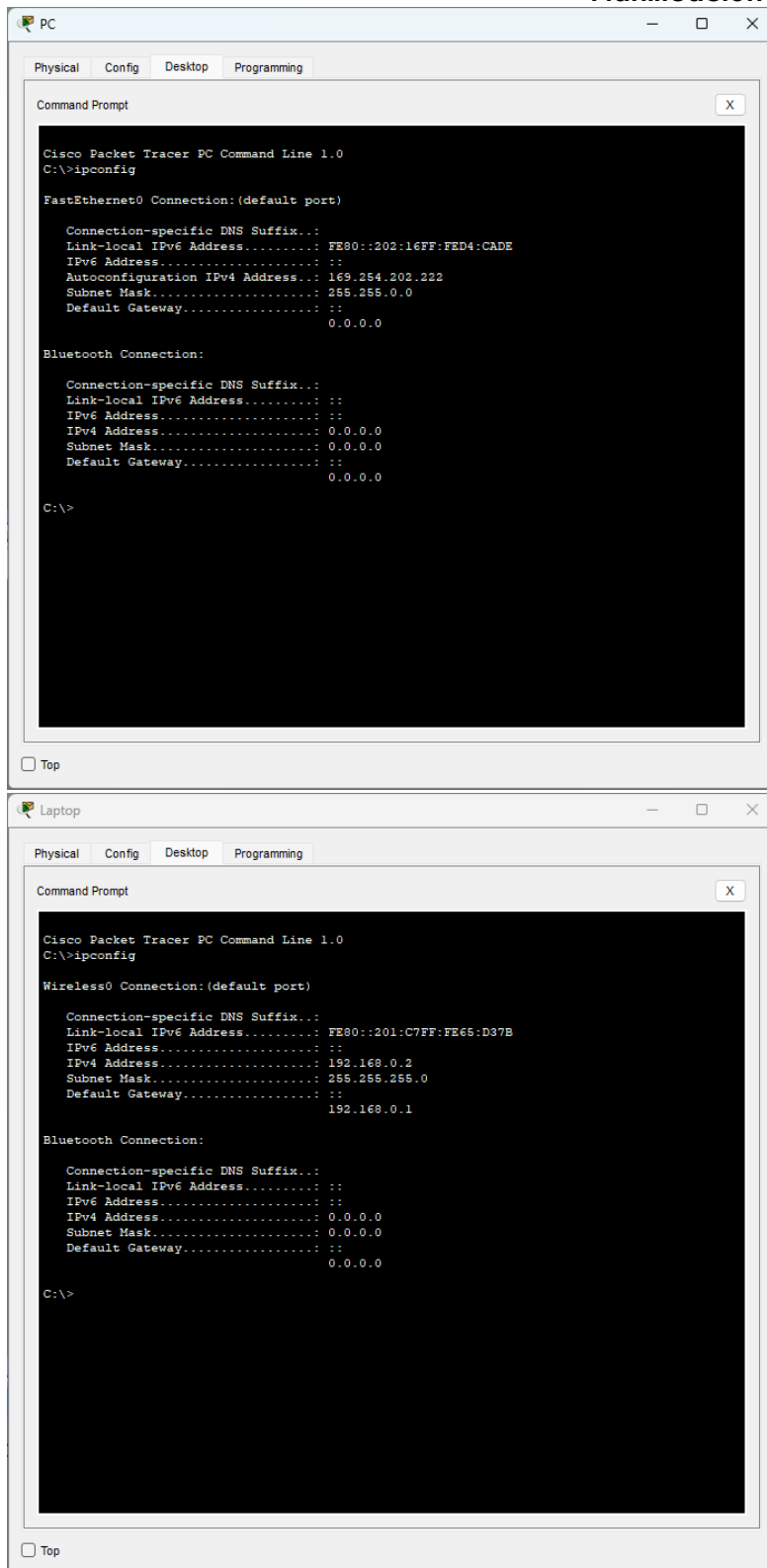
- Network Topology:**
  - cisco.srv** is connected to the **Internet** cloud.
  - The **Internet** cloud is connected to a **Wireless Router**.
  - The **Wireless Router** is connected to a **Cable Modem**.
  - The **Cable Modem** is connected to a **PC**.
  - A **Laptop** is also connected to the **Wireless Router**.
- PC Configuration Window:** Shows a command prompt with the following output:

```
C:\>ping cisco.srv
Ping request could not find host cisco.srv. Please check the name and try again.
C:\>ping cisco.srv
Ping request could not find host cisco.srv. Please check the name and try again.
C:\>ping cisco.srv
Pinging 209.165.200.225 with 32 bytes of data:
Reply from 209.165.200.225: bytes=32 time=4ms TTL=128
Reply from 209.165.200.225: bytes=32 time=4ms TTL=128
Reply from 209.165.200.225: bytes=32 time=4ms TTL=128
Reply from 209.165.200.225: bytes=32 time=4ms TTL=128
Ping statistics for 209.165.200.225:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 4ms, Maximum = 4ms, Average = 4ms
```



Nos conectamos a la red Wi-Fi





[illegible]

Esquema de Curso

Recursos

Buscar esquema del curso

Módulo 1: Descargue y Use Cisco Packet Tracer

100%

✓

1.0. Instale Cisco Packet Tracer

5 / 5

✓

1.1. La interfaz de Cisco Packet Tracer

6 / 6

Módulo 2: Creación de una red Cisco Packet Tracer

100%

✓

2.0. Tipos de archivos de Packet Tracer

2 / 2

✓

2.1. Construya una red doméstica

3 / 3

✓

2.2. Resumen del curso

1 / 1

Introducción al examen final del curso Cisco Packet Tracer

100%

✓

Examen final del curso

1 / 1

✓

Encuesta final del curso

## CONCLUSIÓN:

Este primer curso para conseguir las insignias de Packet Tracer me ha sido de gran utilidad para aprender los principios de este programa de simulación de redes, por lo cual ahora lo puedo usar con mucha más soltura y conozco una mayor variedad de funciones o atajos.