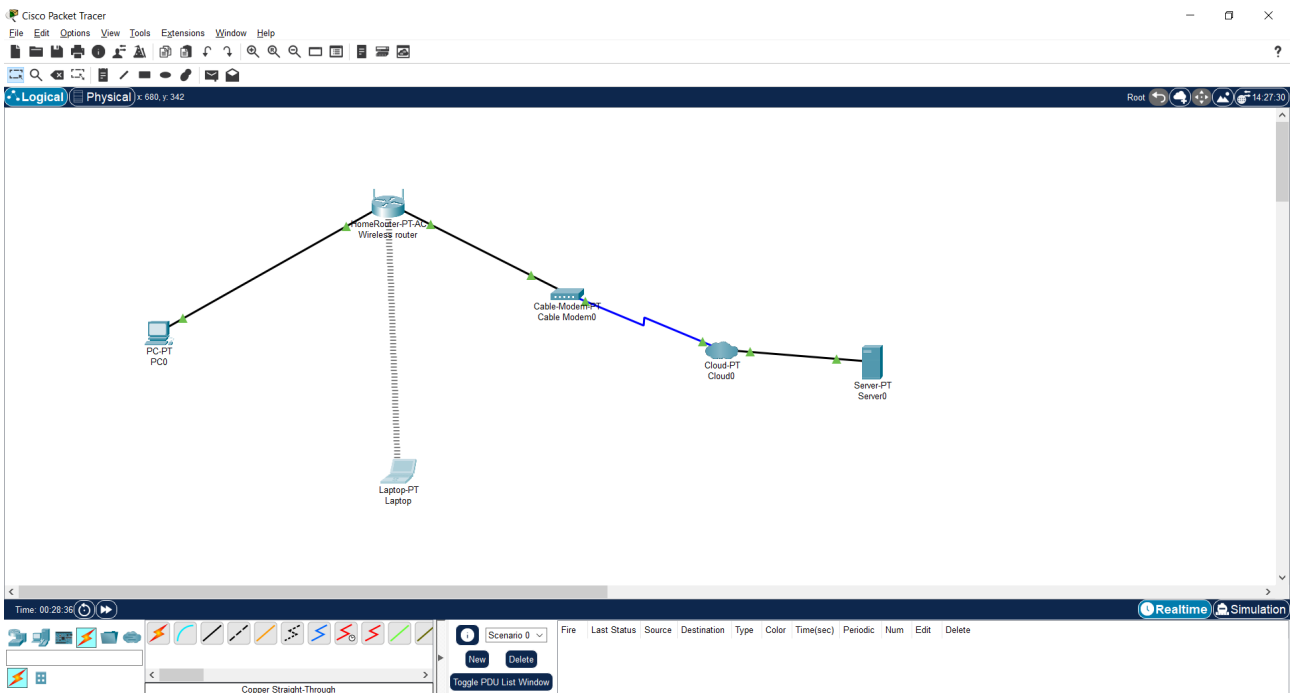


“Red doméstica y servidor web con
Cisco Packet Tracer”,
Javier Esmorís Barreira,
2º DAW

Ejercicios protocolo de red

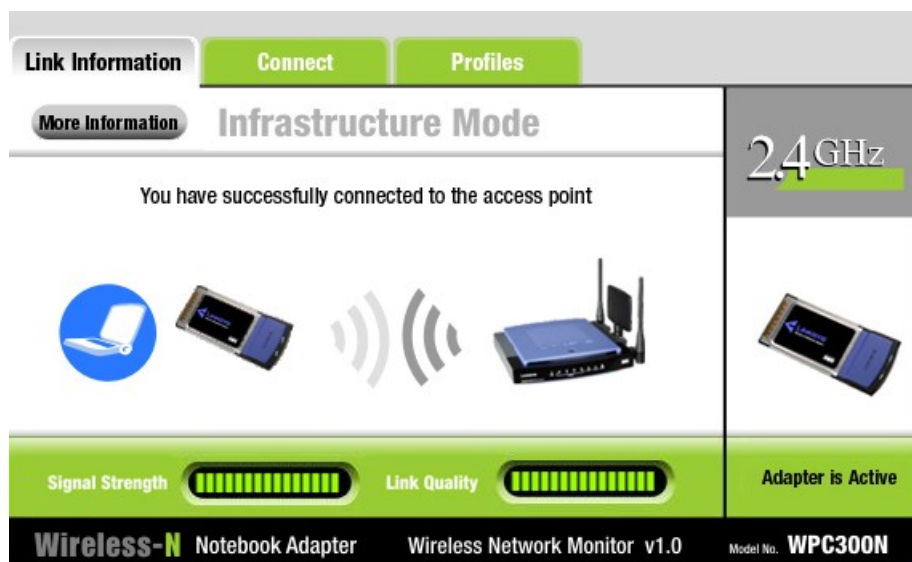
Ejercicio 1. Imagen de topografía de red.



Ejercicio 2. Pestaña wireless de configuración del router con su SSID.

Wireless	Setup	Wireless	Security	Access Restrictions	Applications & Gaming	Administration
	Basic Wireless Settings	Wireless Security	Guest Network	Wireless MAC Filter		
Basic Wireless Settings						
2.4 GHz						
Network Mode:		Auto				
Network Name (SSID):		JavierEsmoris				
SSID Broadcast:		<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled				
Standard Channel:		1 - 2.412GHz				
Channel Bandwidth:		Auto				
5 GHz - 2						
Network Mode:		Auto				
Network Name (SSID):		JavierEsmoris				
SSID Broadcast:		<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled				
Standard Channel:		Auto				
Channel Bandwidth:		Auto				
5 GHz - 1						
Network Mode:		Auto				
Network Name (SSID):		JavierEsmoris				
SSID Broadcast:		<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled				
Standard Channel:		Auto				
Channel Bandwidth:		Auto				

Ejercicio 3. Conexión del portátil a la red Wi-Fi.



Ejercicio 4. Salida de comando ipconfig /all en el PC

```
FastEthernet0 Connection:(default port)

Connection-specific DNS Suffix...:
Physical Address.....: 00E0.A3C8.A014
Link-local IPv6 Address.....: FE80::2E0:A3FF:FEC8:A014
IPv6 Address.....: ::
Autoconfiguration IP Address.....: 169.254.160.20
Subnet Mask.....: 255.255.0.0
Default Gateway.....: ::
                        0.0.0.0
DHCP Servers.....: 0.0.0.0
DHCPv6 IAID.....:
DHCPv6 Client DUID.....: 00-01-00-01-2E-5A-E2-D6-00-E0-A3-C8-A0-14
DNS Servers.....: ::
                        0.0.0.0
```

Ejercicio 5. Configuración del servidor DNS cisco.com.

DNS

DNS Service

☒ On ☐ Off

Resource Records

Name

Type

A Record

Address

Add

Save

Remove

No.	Name	Type	Detail
0	cisco.com	A Record	208.67.220.220

Ejercicio 6. Captura de la configuración de la conexión FastEthernet0.

Physical **Config** Services Desktop Programming Attributes

GLOBAL

Settings

Algorithm Settings

INTERFACE

FastEthernet0

FastEthernet0

Port Status ☒ On

Bandwidth ☐ 100 Mbps ☒ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0090.21C2.EC16

IP Configuration

☐ DHCP

☒ Static

IPv4 Address 208.67.220.220

Subnet Mask 255.255.255.0

IPv6 Configuration

☐ Automatic

☒ Static

IPv6 Address

Link Local Address: FE80::290:21FF:FEC2:EC16

Ejercicio 7. Salida del comando ping cisco.com en PC y portátil

Laptop0

Physical Config **Desktop** Programming Attributes

Command Prompt

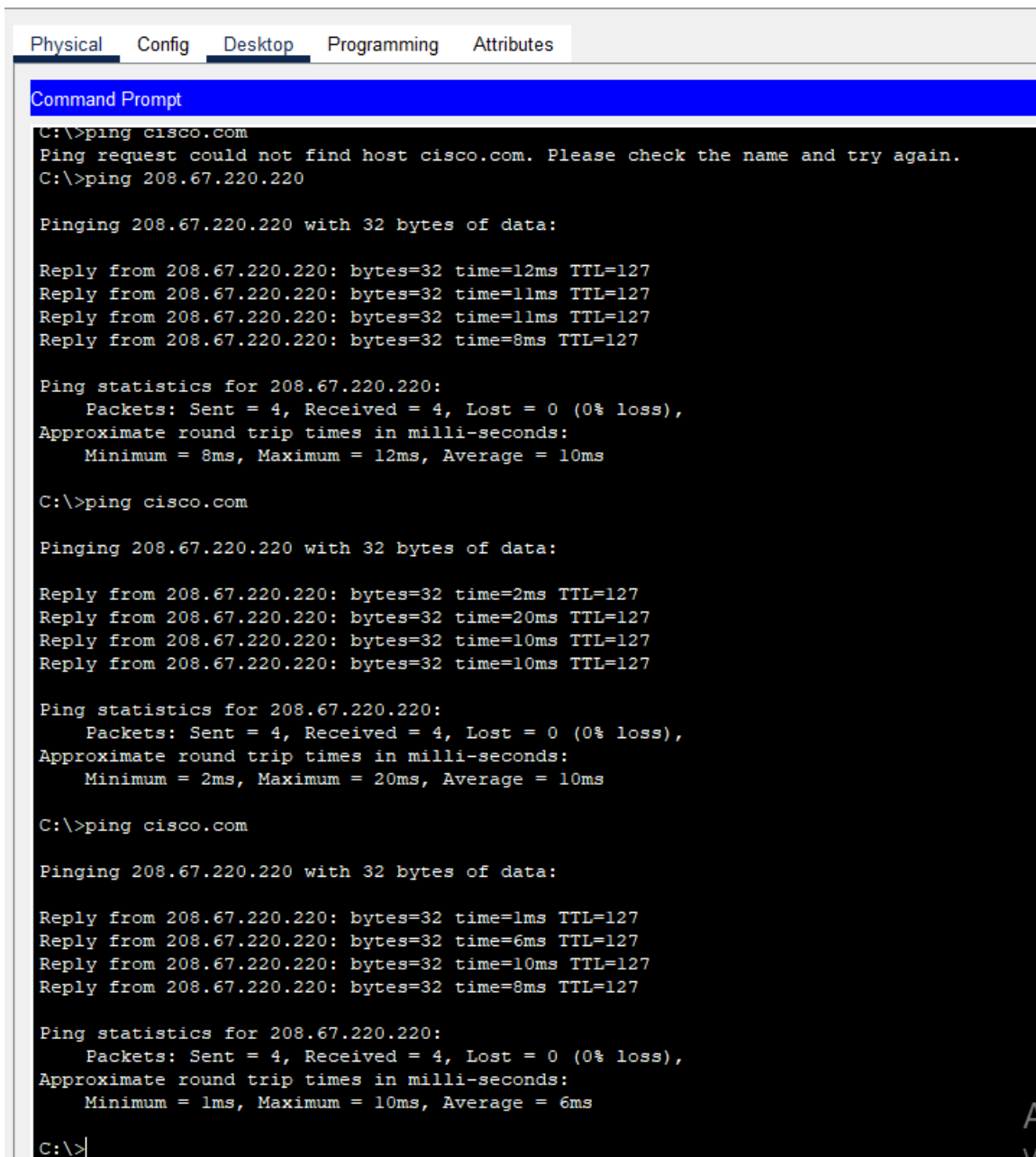
```
Cisco Packet Tracer PC Command Line 1.0
C:\>
ping cisco.com

Pinging 208.67.220.220 with 32 bytes of data:

Reply from 208.67.220.220: bytes=32 time=11ms TTL=127
Reply from 208.67.220.220: bytes=32 time=8ms TTL=127
Reply from 208.67.220.220: bytes=32 time=15ms TTL=127
Reply from 208.67.220.220: bytes=32 time=16ms TTL=127

Ping statistics for 208.67.220.220:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 8ms, Maximum = 16ms, Average = 12ms

C:\>
```



The screenshot shows a Packet Tracer interface with a PC0 icon and a desktop window titled 'Command Prompt'. The window has tabs for 'Physical', 'Config', 'Desktop', 'Programming', and 'Attributes', with 'Desktop' selected. The Command Prompt displays the following text:

```
C:\>ping cisco.com
Ping request could not find host cisco.com. Please check the name and try again.
C:\>ping 208.67.220.220

Pinging 208.67.220.220 with 32 bytes of data:

Reply from 208.67.220.220: bytes=32 time=12ms TTL=127
Reply from 208.67.220.220: bytes=32 time=11ms TTL=127
Reply from 208.67.220.220: bytes=32 time=11ms TTL=127
Reply from 208.67.220.220: bytes=32 time=8ms TTL=127

Ping statistics for 208.67.220.220:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 8ms, Maximum = 12ms, Average = 10ms

C:\>ping cisco.com

Pinging 208.67.220.220 with 32 bytes of data:

Reply from 208.67.220.220: bytes=32 time=2ms TTL=127
Reply from 208.67.220.220: bytes=32 time=20ms TTL=127
Reply from 208.67.220.220: bytes=32 time=10ms TTL=127
Reply from 208.67.220.220: bytes=32 time=10ms TTL=127

Ping statistics for 208.67.220.220:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 20ms, Average = 10ms

C:\>ping cisco.com

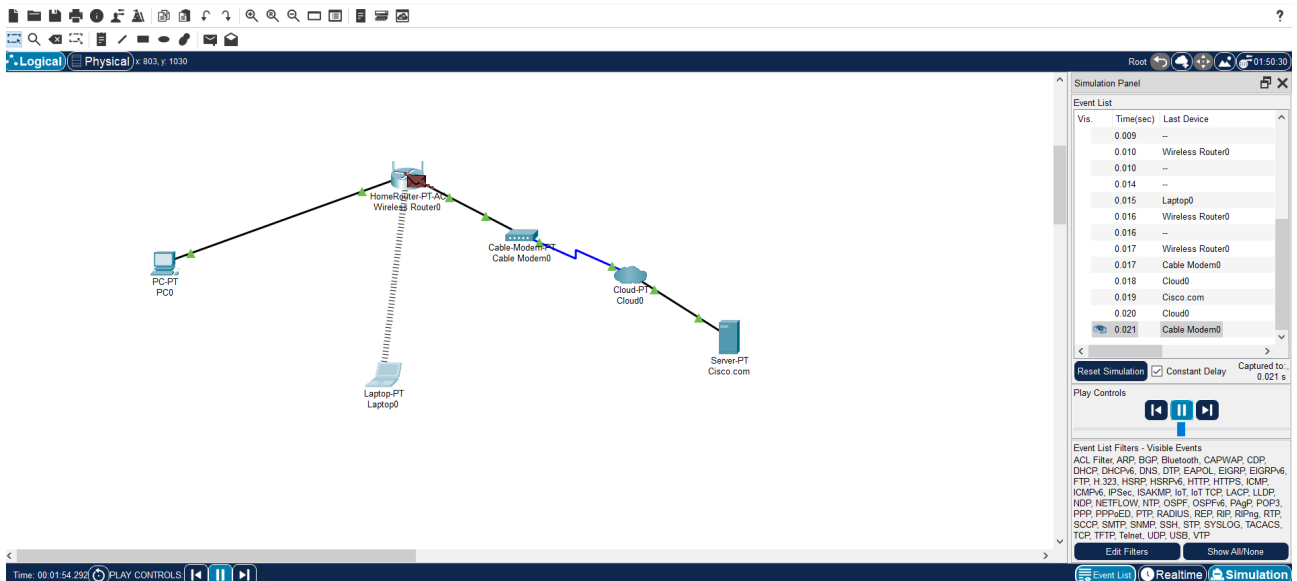
Pinging 208.67.220.220 with 32 bytes of data:

Reply from 208.67.220.220: bytes=32 time=1ms TTL=127
Reply from 208.67.220.220: bytes=32 time=6ms TTL=127
Reply from 208.67.220.220: bytes=32 time=10ms TTL=127
Reply from 208.67.220.220: bytes=32 time=8ms TTL=127

Ping statistics for 208.67.220.220:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 10ms, Average = 6ms

C:\>
```

Ejercicio 8. Simulación de ping cisco.com (captura de paquetes ICMP).



Ejercicio 9. Captura de Service > HTTP

Cisco.com

Physical Config **Services** Desktop Programming Attributes

SERVICES

- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP
- IoT
- VM Management

HTTP

HTTP ☒ On ☐ Off

HTTPS ☒ On ☐ Off

File Manager

	File Name	Edit	Delete
1	condiciones.html	(edit)	(delete)
2	index.html	(edit)	(delete)

Ejercicio 10. Código fuente de index.html y condiciones.html

Physical Config **Services** Desktop Programming Attributes**SERVICES**

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

Radius EAP

File Name: index.html

```
<html>
<head>
<meta charset="UTF-8">
</head>
<center><font size="+2" color="blue">Cisco Packet Tracer</font></center>
<body>
<h1>Javier Esmoris Barreira</h1>

<p>Me llamo Javier y estoy estudiando el ciclo de Desarrollo de aplicaciones Web. Sé utilizar tecnologías como bases de datos en MySQL, programación en Java y lenguajes de marcas como HTML.<br>Aquí os dejo un enlace a otra página web.</p>
<a href="condiciones.html">Condiciones</a>
</body>
</html>
```

Physical Config **Services** Desktop Programming Attributes**SERVICES**

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

Radius EAP

File Name: condiciones.html

```
<html>
<ul>
<li>3 dias a la semana para tiempo libre</li>
<li>mucho dinero al año (imprescindible)</li>
<li>poder llevar a tu gato/perro a la oficina</li>
<li>un jardin muy grande</li>
</ul>
<br>
<a href="index.html">Pagina principal</a>
</html>
```


Ejercicio 11. Captura de ambas páginas desde el portátil

