

PACKET TRACER

Cisco Packet Tracer



1. Ponemos el Router y entramos en su configuración:

Modificamos los parámetros como vemos ahí.(Setup y wireless)

Physical Config **GUI** Attributes

Setup Setup **Wireless** Security Access Restrictions Applications & Gaming Administration

Basic Setup DDNS MAC Address Clone Advanced R

Internet Setup

Internet Connection type: Automatic Configuration - DHCP ▾

Optional Settings (required by some internet service providers)

Host Name:

Domain Name:

MTU: ▾ Size: 1500

Network Setup

Router IP

IP Address: . . .

Subnet Mask: ▾

DHCP Server Settings

DHCP Server: ☒ Enabled ☐ Disabled

Start IP Address: 192.168.0.

Maximum number of Users:

IP Address Range: 192.168.0. 100 - 149

Client Lease Time: minutes (0 means one day)

Static DNS 1: . . .

WIRELESS:

Physical Config **GUI** Attributes

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: ▾

Network Name (SSID):

SSID Broadcast: ☒ Enabled ☐ Disabled

Standard Channel: ▾

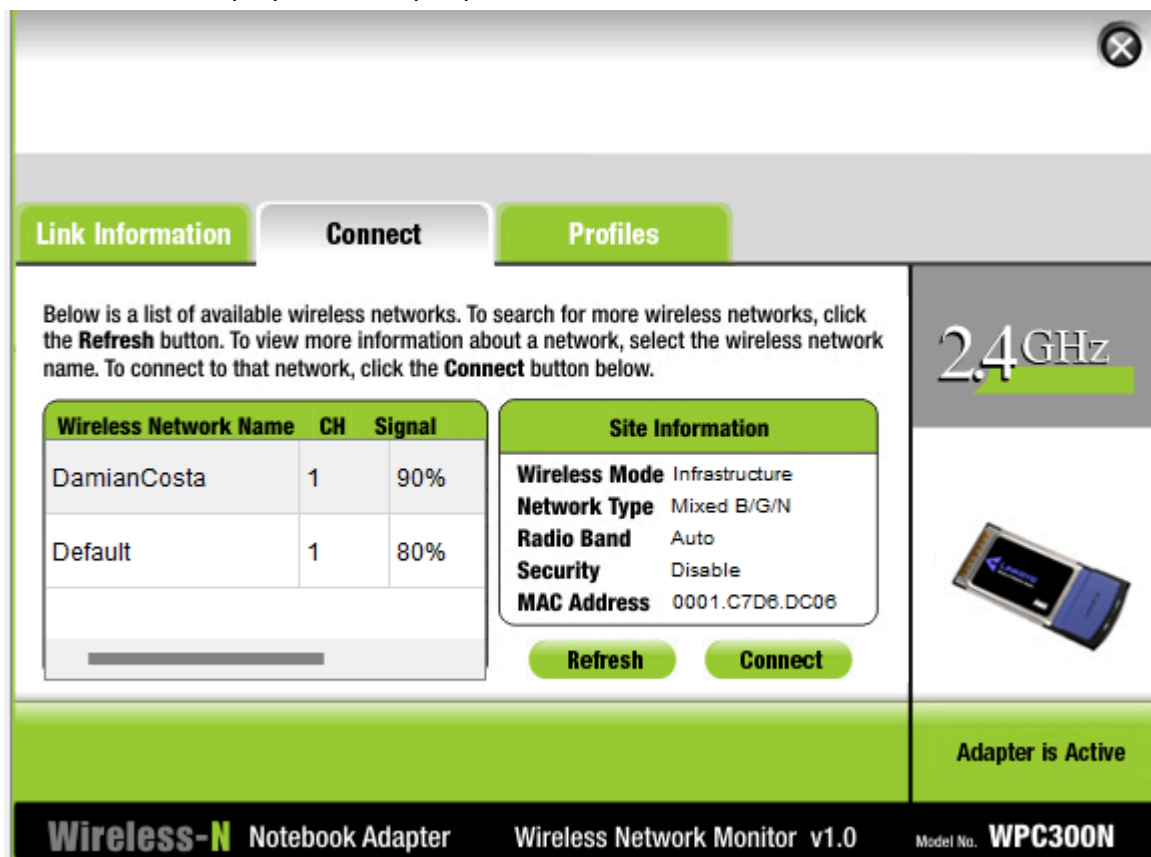
Channel Bandwidth: ▾

5 GHz - 2

2. Ahora pillamos un portátil laptop y quitamos el conector de cable e introducimos el de

wifi.

clickamos en el laptop < Desktop < pc Wireless < connect < DamianCosta



The screenshot shows the 'Wireless-N Notebook Adapter' software interface. It features three tabs: 'Link Information', 'Connect', and 'Profiles'. The 'Connect' tab is active, displaying a list of available wireless networks and site information.

Below is a list of available wireless networks. To search for more wireless networks, click the **Refresh** button. To view more information about a network, select the wireless network name. To connect to that network, click the **Connect** button below.

Wireless Network Name	CH	Signal
DamianCosta	1	90%
Default	1	80%

Site Information:

- Wireless Mode: Infrastructure
- Network Type: Mixed B/G/N
- Radio Band: Auto
- Security: Disable
- MAC Address: 0001.C7D8.DC08

Buttons: Refresh, Connect

Adapter is Active

Wireless-N Notebook Adapter Wireless Network Monitor v1.0 Model No. WPC300N

Prompt para ver la ipconfig /all del portatil

```
Physical  Config  Desktop  Programming  Attributes
Command Prompt

Cisco Packet Tracer PC Command Line 1.0
C:\>ipconfig /all

Wireless0 Connection:(default port)

Connection-specific DNS Suffix...:
Physical Address.....: 000D.BDAC.8EA4
Link-local IPv6 Address.....: FE80::20D:BDFF:FEAC:8EA4
IPv6 Address.....: ::
IPv4 Address.....: 192.168.0.101
Subnet Mask.....: 255.255.255.0
Default Gateway.....: ::
                        192.168.0.1
DHCP Servers.....: 192.168.0.1
DHCPv6 IAID.....: 1891420781
DHCPv6 Client DUID.....: 00-01-00-01-60-5C-D0-60-00-0D-BD-AC-8E-A4
DNS Servers.....: ::
                        208.67.220.220

Bluetooth Connection:
|
Connection-specific DNS Suffix...:
Physical Address.....: 0001.432B.1D69
Link-local IPv6 Address.....: ::
```

3. Ahora cogemos un pc de sobremesa y establecemos la conexión con el router a través del cable ethernet, después usamos ipconfig /all para verificar su contenido:

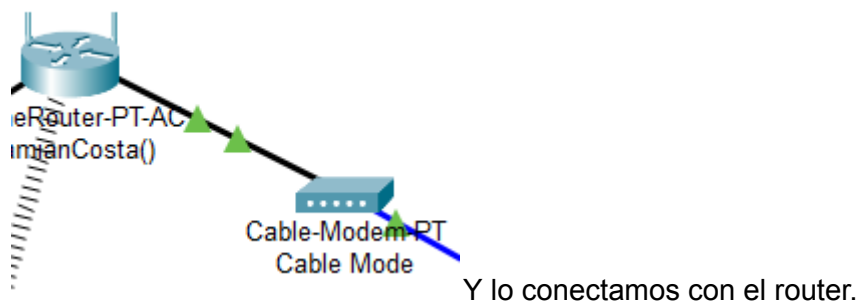
```
C:\>ipconfig /all

FastEthernet0 Connection:(default port)

Connection-specific DNS Suffix...:
Physical Address.....: 0003.E42A.3877
Link-local IPv6 Address.....: FE80::203:E4FF:FE2A:3877
IPv6 Address.....: ::
IPv4 Address.....: 192.168.0.102
Subnet Mask.....: 255.255.255.0
Default Gateway.....: ::
                        192.168.0.1
DHCP Servers.....: 192.168.0.1
DHCPv6 IAID.....:
DHCPv6 Client DUID.....: 00-01-00-01-34-9C-6C-C7-00-03-E4-2A-38-77
DNS Servers.....: ::
                        208.67.220.220

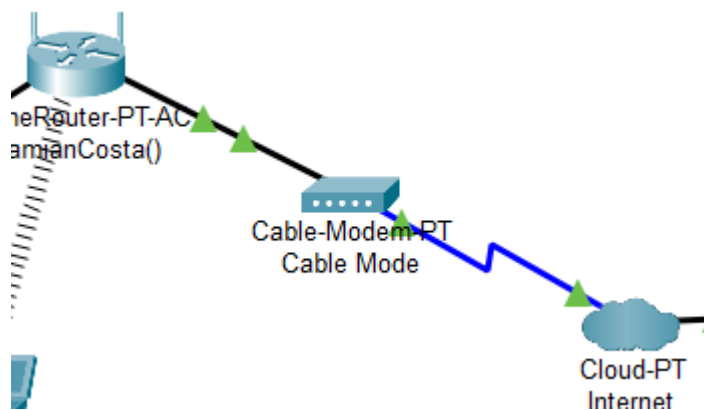
Bluetooth Connection:
```

4. Instalamos el Modem:



5. Seguimos con la nube:

Conectándolo respectivamente con el modem



Con la nube tenemos que hacer un par de ajustes a comparación del modem.

Nos dirigimos a Config < Ethernet6 y pasamos de DSL a cable.

Ahora Config < Cable:

Cable

Coaxial7

Port

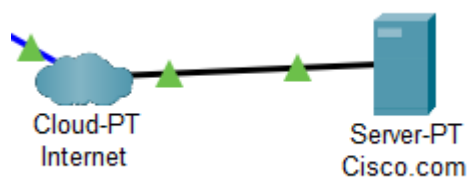
<=>

Ethernet6

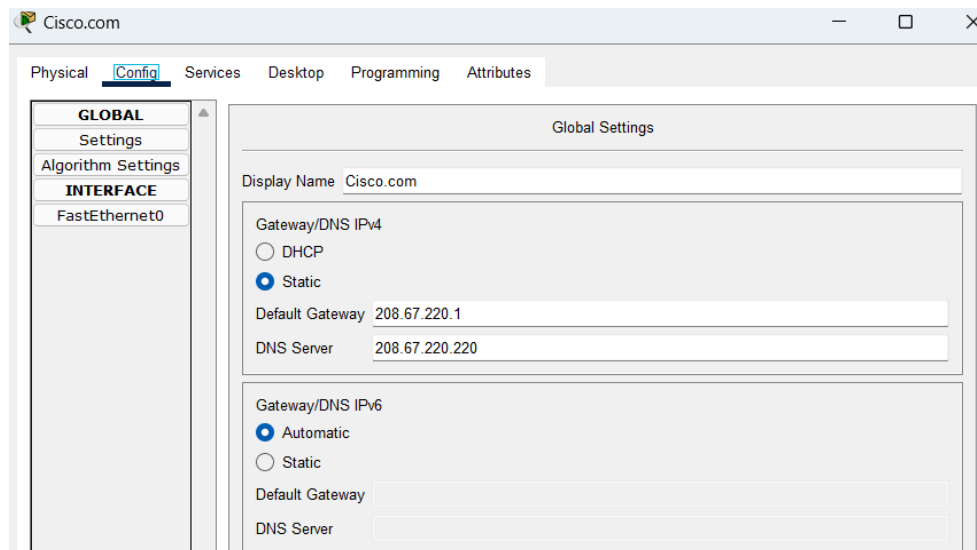
Port

From Port	To Port	
Coaxial7	Ethernet6	

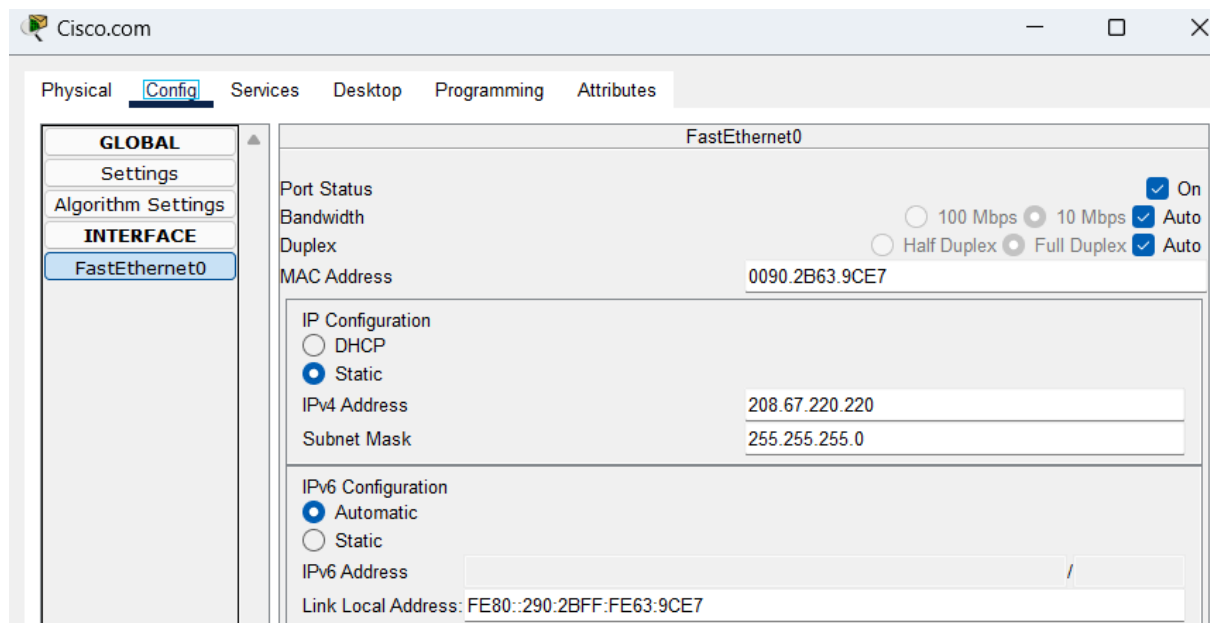
6. Por último y más datos a introducir el Servidor Cisco.com



La configuración básica del servidor:



FastEthernet0:



Servicios DHCP:

Cisco.com

Physical Config **Services** Desktop Programming Attributes

SERVICES

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

DHCP

Interface: FastEthernet0 Service: ☒ On ☐ Off

Pool Name: DHCPpool

Default Gateway: 208.67.220.200

DNS Server: 208.67.220.220

Start IP Address: 208 67 220 1

Subnet Mask: 255 255 255 0

Maximum Number of Users: 50

TFTP Server: 0.0.0.0

WLC Address: 0.0.0.0

Add Save Remove

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
DHCPpool	208.67.22...	208.67.22...	208.67.220.1	255.255.2...	50	0.0.0.0	0.0.0.0
serverPool	0.0.0.0	0.0.0.0	208.67.22...	255.255.2...	36	0.0.0.0	0.0.0.0

DNS:

Cisco.com

Physical Config **Services** Desktop Programming Attributes

SERVICES

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

DNS

DNS Service: ☒ On ☐ Off

Resource Records

Name: cisco.com Type: A Record

Address: 208.67.220.220

Add Save Remove

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

7. Comprobar conexión desde pc a servidor.

```
C:\>ipconfig /release
```

```
IP Address.....: 0.0.0.0
Subnet Mask.....: 0.0.0.0
Default Gateway...: 0.0.0.0
DNS Server.....: 0.0.0.0
```

```
C:\>ipconfig /renew
```

```
IP Address.....: 192.168.0.102
Subnet Mask.....: 255.255.255.0
Default Gateway...: 192.168.0.1
DNS Server.....: 208.67.220.220
```

```
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=6ms TTL=127
Reply from 208.67.220.220: bytes=32 time=6ms TTL=127
Reply from 208.67.220.220: bytes=32 time=6ms 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 = 6ms, Average = 5ms
```