Tutorial introductorio de Packet Tracer. El Simulador de red.

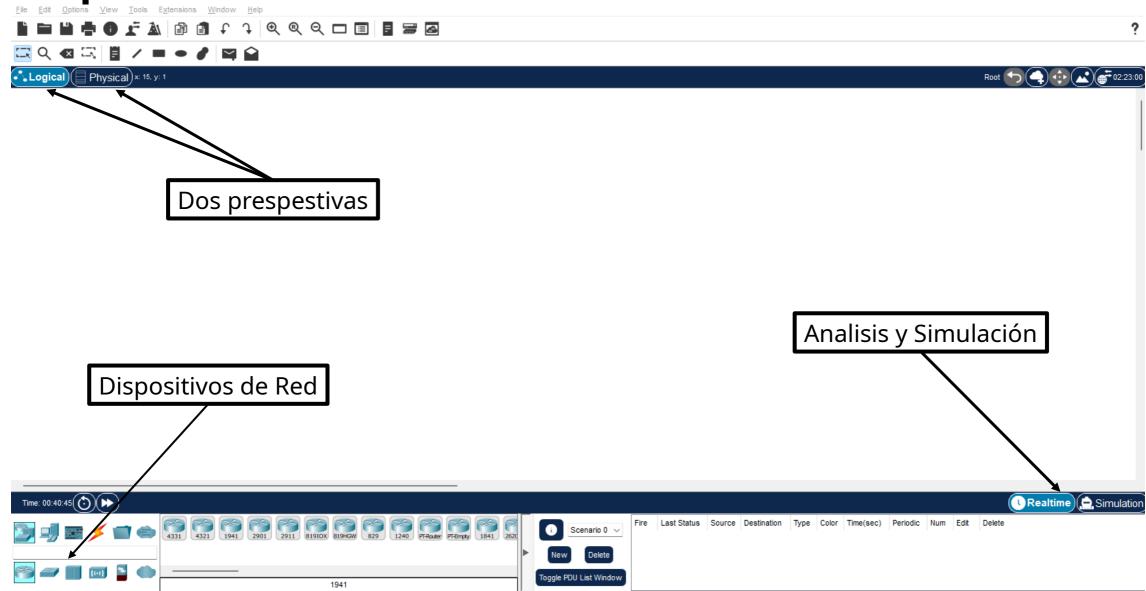


Parte 1

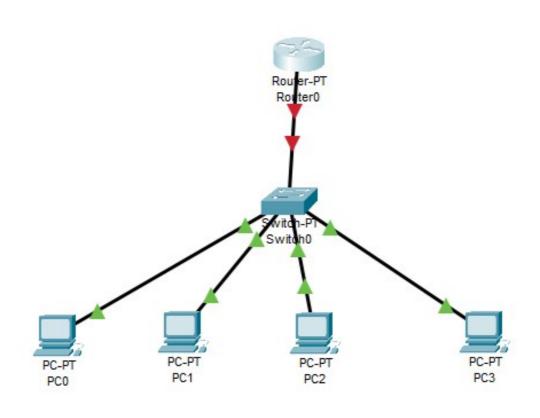
- Descargar última verión de Cisco Networking Academy:
- Utiliza tu usuario y contraseña para la descarga.
- Inicia Packet Tracer.
 Introduce tus credenciales de nuevo.



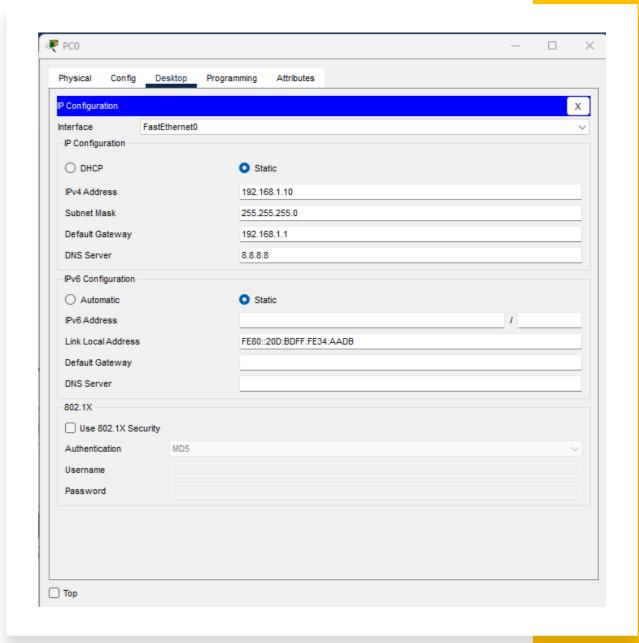
La primera visión de Packet Tracer



Conexión física de una LAN

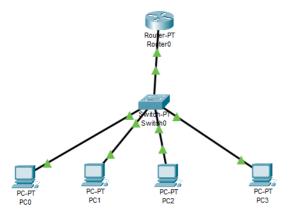


1er Ejercicio. Configuración de red Estática. Menú Desktop



1er Ejercicio: Configuración de red estática

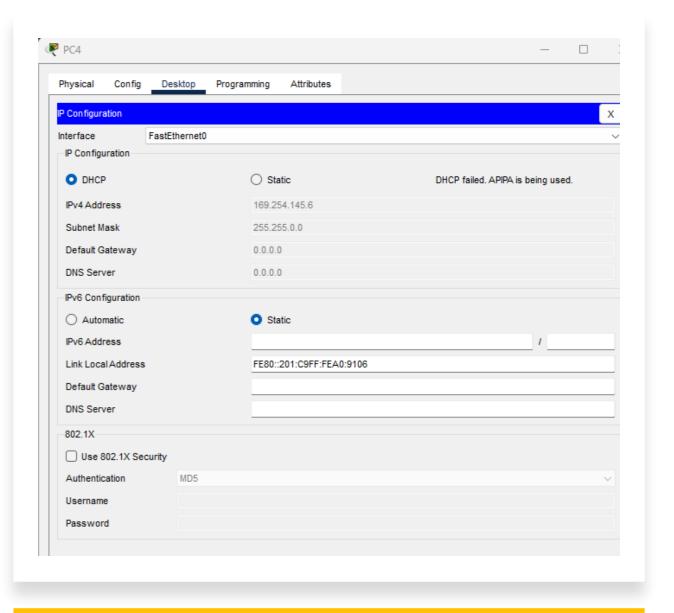
• Si es correcta la configuración de la dirección IP, la máscara y la puerta de enlace (Gateway) Once, los interfaces aparecen con un punto verde.



Command Prompt

```
FastEthernet0 Connection: (default port)
  Connection-specific DNS Suffix..:
  Physical Address...... 000D.BD34.AADB
  Link-local IPv6 Address..... FE80::20D:BDFF:FE34:AADB
  IPv6 Address.....: ::
  IPv4 Address..... 192.168.1.10
  Subnet Mask..... 255.255.255.0
  Default Gateway....: ::
  DHCP Servers..... 0.0.0.0
  DHCPv6 IAID....
  DHCPv6 Client DUID...... 00-01-00-01-52-70-49-98-00-0D-BD-34-AA-DB
  DNS Servers....::::
Bluetooth Connection:
  Connection-specific DNS Suffix..:
  Physical Address...... 0001.425C.7648
  Link-local IPv6 Address....: ::
  IPv6 Address....: ::
  Subnet Mask..... 0.0.0.0
  Default Gateway....: ::
                             0.0.0.0
  DHCPv6 IAID.....
  DHCPv6 Client DUID...... 00-01-00-01-52-70-49-98-00-0D-BD-34-AA-DB
  DNS Servers....::::
                             8.8.8.8
C:\>ping 192.168.1.1
Pinging 192.168.1.1 with 32 bytes of data:
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time=4ms TTL=255
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time=4ms TTL=255
Ping statistics for 192.168.1.1:
   Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = 0ms, Maximum = 4ms, Average = 2ms
```

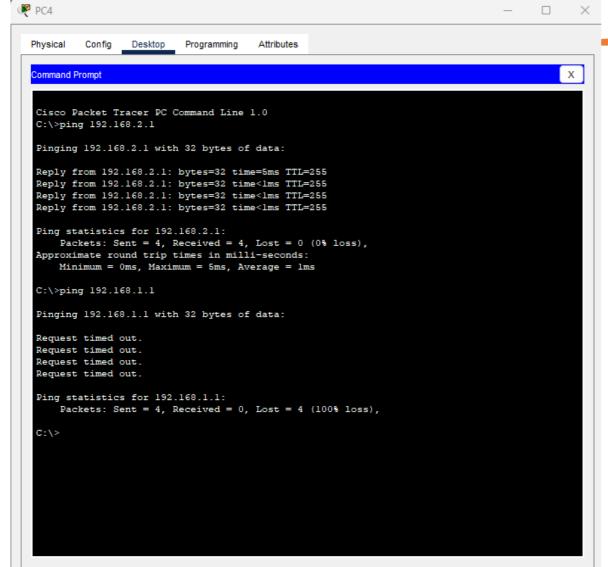
2do Ejercicio: Definir una red por DCHP

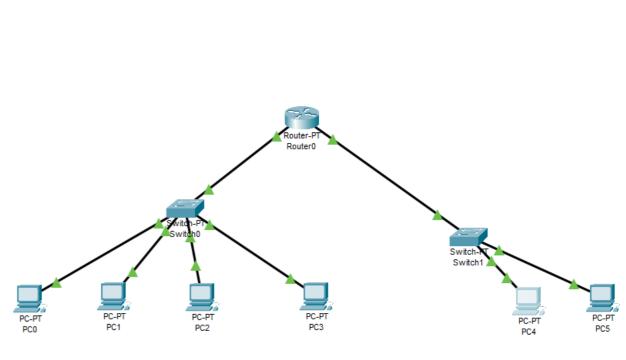


2do Ejercicio: Definir una red por DCHP

```
Press RETURN to get started!
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #interface FastEthernet0/0
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) #no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
Router(config-if)#
Router(config-if) #exit
Router(config)#
Router(config)#
Router(config)#
Router(config) #interface FastEthernet1/0
Router(config-if) #no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up
ip address 192.168.2.1 255.255.255.0
Router(config-if) #ip address 192.168.2.1 255.255.255.0
Router(config-if) #exit
Router(config) #ip dhcp pool xarxa
Router(dhcp-config) #network 192.168.2.0 255.255.255.0
Router(dhcp-config)#default-r
Router(dhcp-config) #default-router 192.168.2.1
Router (dhcp-config) #dns
Router(dhcp-config) #dns-server 8.8.8.8
Router (dhcp-config) #exit
Router(config) #int Fal/0
Router(config-if) #ip he
Router(config-if) #ip helpe
Router(config-if) #ip helper-address 192.168.2.1
Router(config-if) #exit
Router(config)#
```

Ejerccio 3: Interconectando redes





Ejercicio 3: Interconectando redes

• Algunas veces necesita su tiempo para conectar todos los interfaces. Si veces que no funciona, apagaremos el router o

