Examen: Configuración de Router en Cisco Packet Tracer

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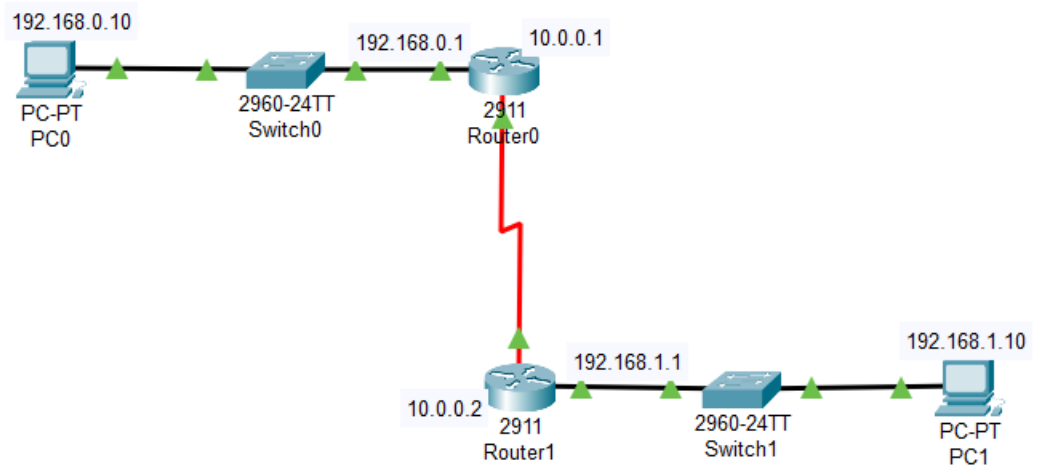
Instrucciones: Realice los pasos indicados para configurar correctamente las interfaces de los routers, las PCs, y verificar la conectividad. Cada sección debe ser completada siguiendo el orden establecido.



1. Cambiar el nombre a los Routers

- a) Ingrese al modo privilegiado (enable) y luego al modo de configuración global (configure terminal).
- b) Cambie el nombre del router Newfly y del router Cisco.

```
enable
configure terminal
hostname Newfly

enable
configure terminal
hostname Cisco
```

2. Escribir una descripción en cada interfaz

- a) Añada una descripción a la interfaz G0/0 del Router Newfly indicando 'Interfaz al PC0'.

```
interface gigabitEthernet0/0
description Interfaz al PC0
```

- b) En el Router Newfly, agregue descripción 'Enlace al router Cisco' en la interfaz serial 0/0/0.

```
interface serial0/0/0
description Enlace al router Cisco
```

- c) En el Router Cisco, agregue descripción 'Enlace al Router Newfly' en su interfaz serial correspondiente.

```
interface serial0/0/0
description Enlace al Router Newfly
```

- d) En el Router Cisco, agregue descripción 'Interfaz al PC1' en la interfaz G0/0.

```
interface gigabitEthernet0/0
description Interfaz al PC1
```

3. Escribir un Mensaje de aviso (MOTD)

- a) Configure un mensaje MOTD que diga: 'Solo personal autorizado podra acceder al router'.

```
banner motd ' "Solo personal autorizado podra acceder al router" '
```

4. Configurar las interfaces Fast Ethernet

- a) Configure la IP 192.168.0.1/24 en el Router Newfly y habilite la interfaz.

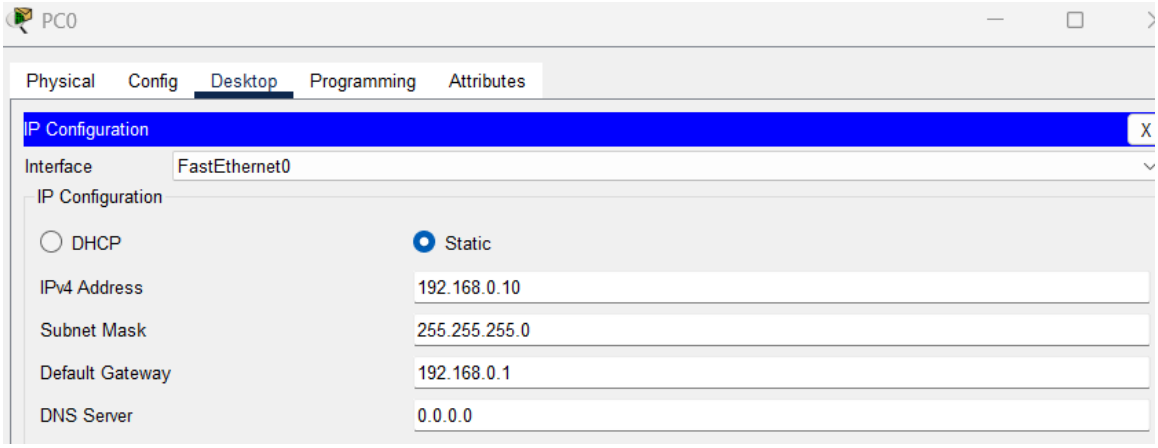
```
interface gigabitEthernet0/0
ip address 192.168.0.1 255.255.255.0
no shutdown
```

- b) Configure la IP 192.168.1.1/24 en el Router Cisco y habilite la interfaz.

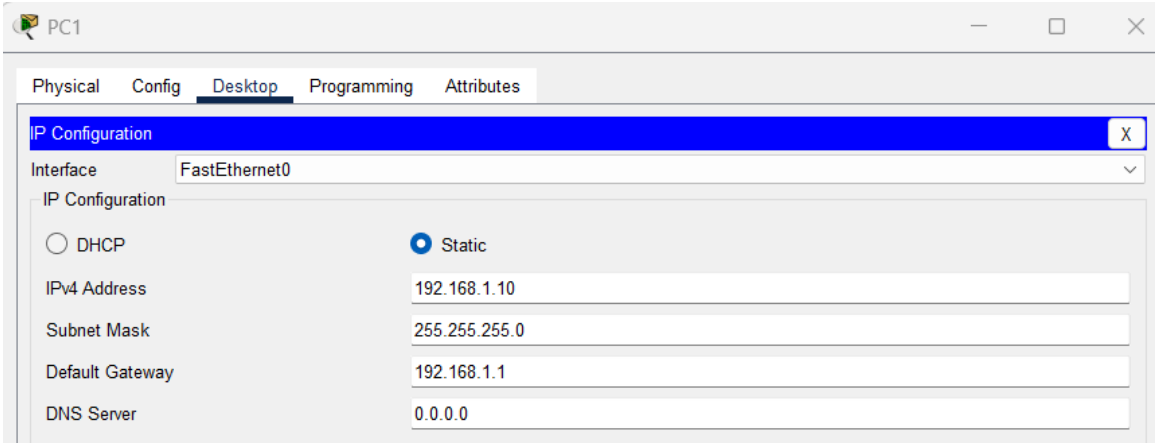
```
interface gigabitEthernet0/0
ip address 192.168.1.1 255.255.255.0
no shutdown
```

5. Configurar los PC´s

- a) Configure PC0 con IP 192.168.0.10, máscara 255.255.255.0 y Gateway 192.168.0.1.



- b) Configure PC1 con IP 192.168.1.10, máscara 255.255.255.0 y Gateway 192.168.1.1.



6. Prueba de conectividad

- a) Realice ping desde PC0 a Router Newfly, Router Cisco y PC1.
  Router Newfly

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.0.1

Pinging 192.168.0.1 with 32 bytes of data:

Reply from 192.168.0.1: bytes=32 time=1ms TTL=255
Reply from 192.168.0.1: bytes=32 time<1ms TTL=255
Reply from 192.168.0.1: bytes=32 time=6ms TTL=255
Reply from 192.168.0.1: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 6ms, Average = 1ms
```

Router Cisco

```
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=9ms TTL=254
Reply from 192.168.1.1: bytes=32 time=8ms TTL=254
Reply from 192.168.1.1: bytes=32 time=8ms TTL=254
Reply from 192.168.1.1: bytes=32 time=6ms TTL=254

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 6ms, Maximum = 9ms, Average = 7ms
```

PC1

```
C:\>ping 192.168.1.10

Pinging 192.168.1.10 with 32 bytes of data:

Request timed out.
Reply from 192.168.1.10: bytes=32 time=4ms TTL=126
Reply from 192.168.1.10: bytes=32 time=4ms TTL=126
Reply from 192.168.1.10: bytes=32 time=7ms TTL=126

Ping statistics for 192.168.1.10:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 4ms, Maximum = 7ms, Average = 5ms
```

- b) Realice ping desde PC1 a Router Cisco, Router Newfly y PC0.
  Router Cisco

```
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<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time<1ms 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 = 0ms, Average = 0ms
```

Router Newfly

```
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=9ms TTL=254
Reply from 192.168.1.1: bytes=32 time=8ms TTL=254
Reply from 192.168.1.1: bytes=32 time=8ms TTL=254
Reply from 192.168.1.1: bytes=32 time=6ms TTL=254

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 6ms, Maximum = 9ms, Average = 7ms
```

PC0

```
C:\>ping 192.168.1.10

Pinging 192.168.1.10 with 32 bytes of data:

Request timed out.
Reply from 192.168.1.10: bytes=32 time=4ms TTL=126
Reply from 192.168.1.10: bytes=32 time=4ms TTL=126
Reply from 192.168.1.10: bytes=32 time=7ms TTL=126

Ping statistics for 192.168.1.10:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 4ms, Maximum = 7ms, Average = 5ms
```

7. Copiar la configuración actual

- a) Guarde la configuración con el comando: copy running-config startup-config

```
exit
copy running-config startup-config
```