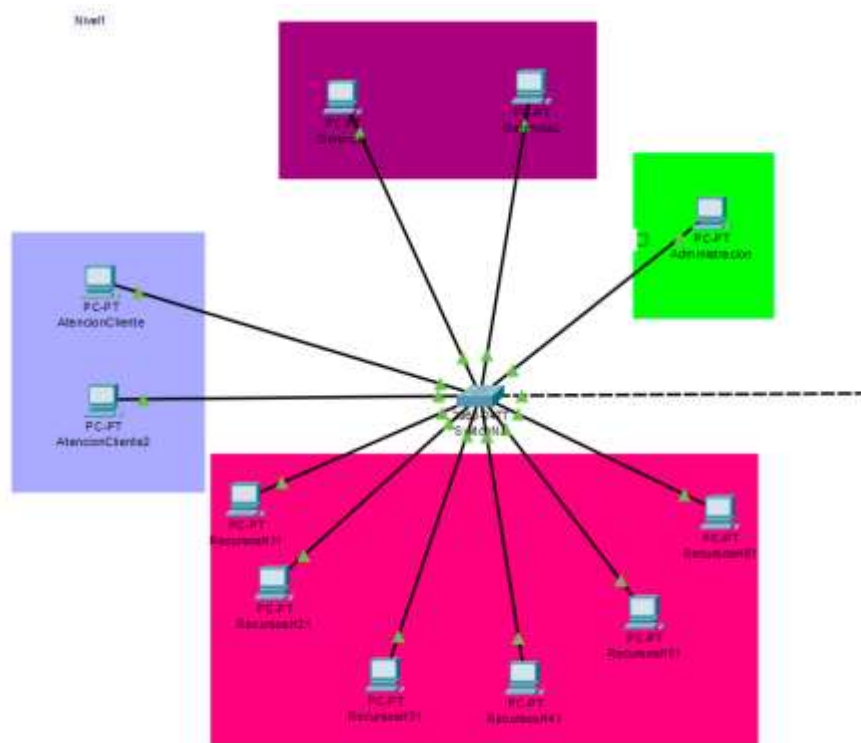


Manual Técnico

Nivel 1

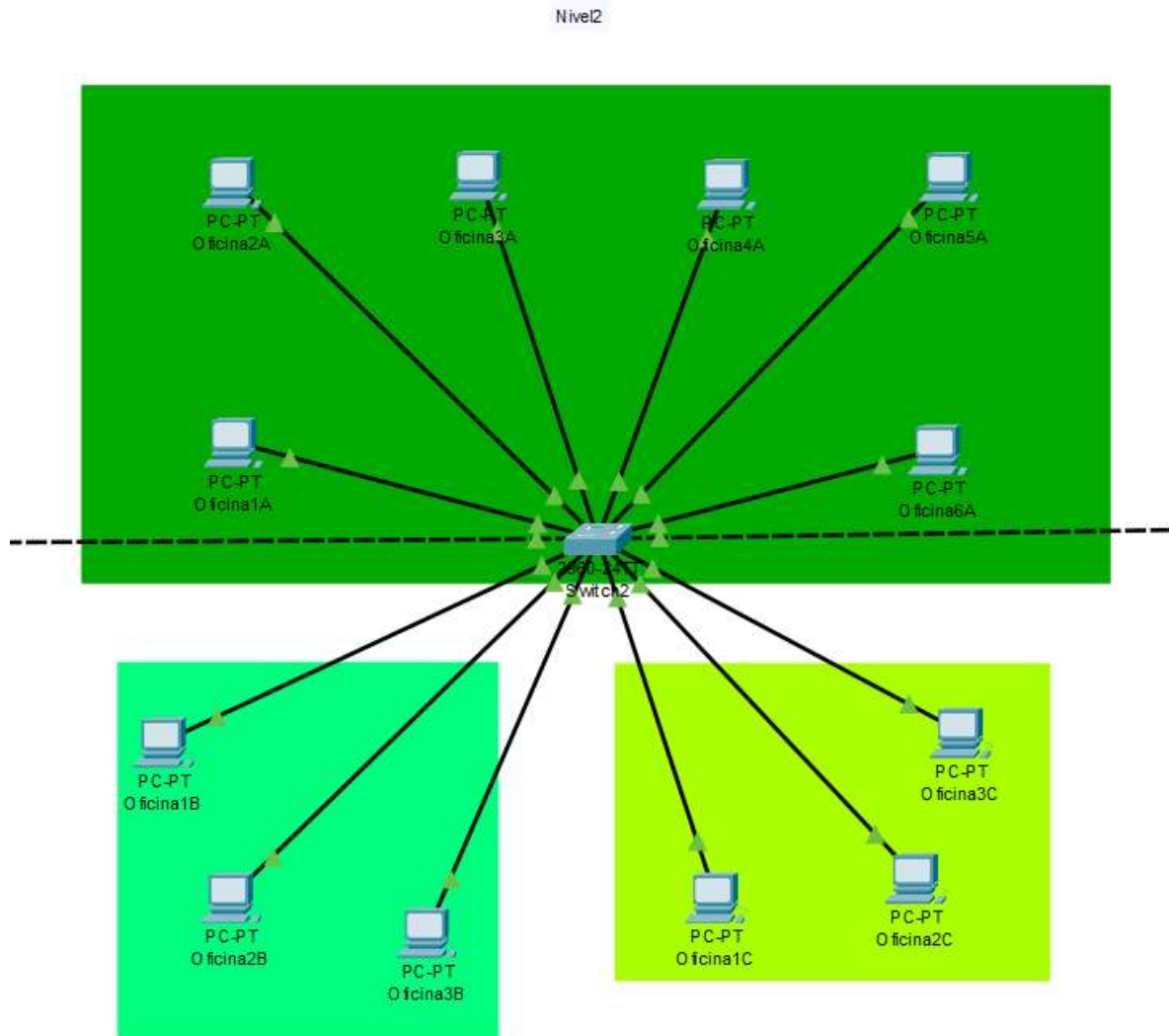


- **Topología de Estrella**

En esta topología de estrella se detallan los equipos a utilizar.

- 1 PC para Administración
- 2 para Gerencia
- 2 para Atención al Cliente
- 6 para Recursos Humanos

Nivel 2

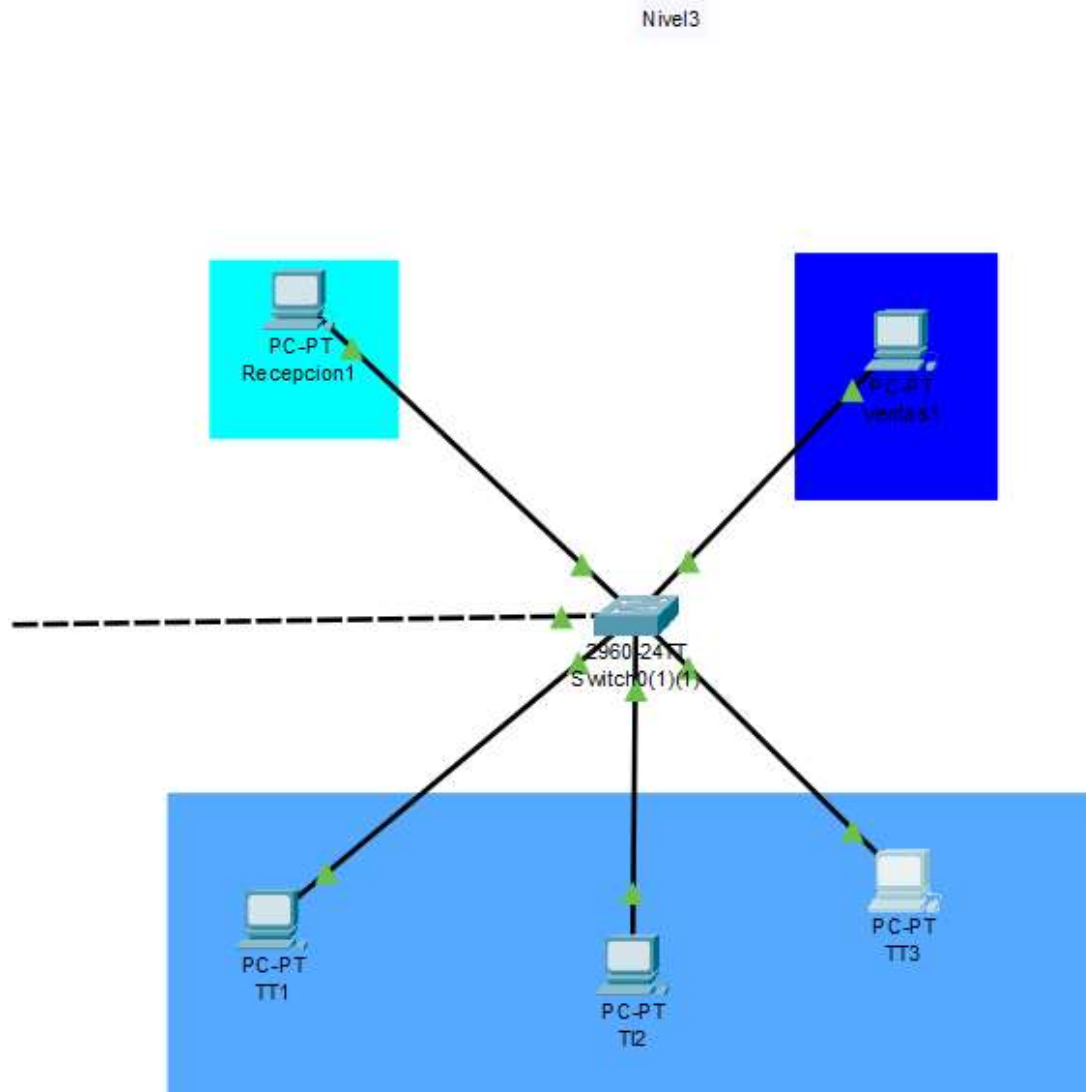


- **Topología de Estrella**

En esta topología de estrella se detallan los equipos a utilizar.

3 PCs para Oficina A
6 para Oficina B
3 para Oficina C

Nivel 3



- **Topología de Estrella**

En esta topología de estrella se detallan los equipos a utilizar.

- 1 PC para Recepción
- 3 para TI
- 1 para Ventas

Pings entre Host

- Ping Administración nivel 1 a Oficina 5A nivel 2

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.18.21

Pinging 192.168.18.21 with 32 bytes of data:

Reply from 192.168.18.21: bytes=32 time=12ms TTL=128
Reply from 192.168.18.21: bytes=32 time<1ms TTL=128
Reply from 192.168.18.21: bytes=32 time<1ms TTL=128
Reply from 192.168.18.21: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.18.21:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 12ms, Average = 3ms
```

- Ping de Oficina 2B a TI2

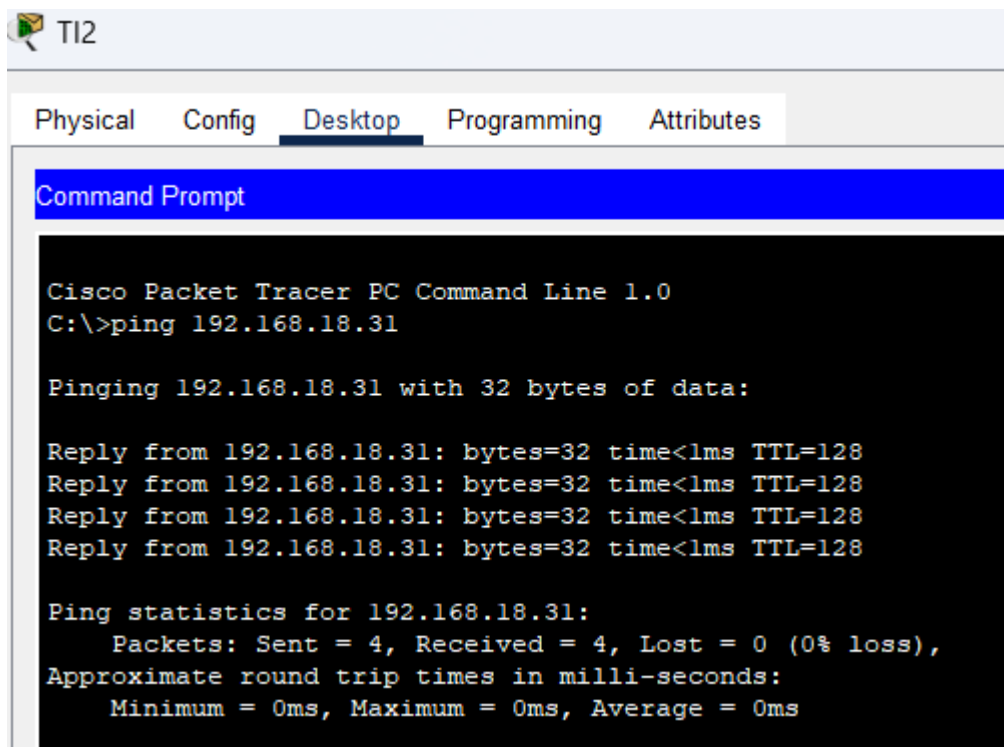
```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.18.33

Pinging 192.168.18.33 with 32 bytes of data:

Reply from 192.168.18.33: bytes=32 time<1ms TTL=128
Reply from 192.168.18.33: bytes=32 time<1ms TTL=128
Reply from 192.168.18.33: bytes=32 time<1ms TTL=128
Reply from 192.168.18.33: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.18.33:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

- Ping de Oficina T12 a Recepcion1



The screenshot shows the Cisco Packet Tracer PC Command Line interface for a device named T12. The 'Desktop' tab is selected. The command prompt shows the execution of a ping command to 192.168.18.31. The output indicates that the ping was successful with 0% loss and 0ms round trip times.

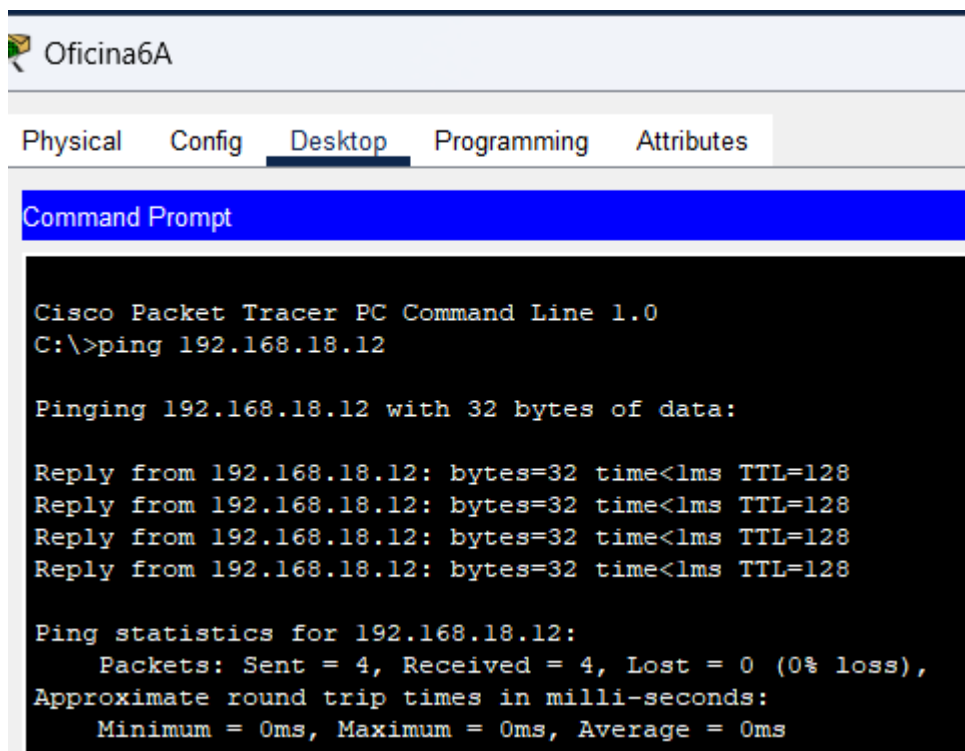
```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.18.31

Pinging 192.168.18.31 with 32 bytes of data:

Reply from 192.168.18.31: bytes=32 time<1ms TTL=128
Reply from 192.168.18.31: bytes=32 time<1ms TTL=128
Reply from 192.168.18.31: bytes=32 time<1ms TTL=128
Reply from 192.168.18.31: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.18.31:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

- Ping de Oficina 6A a Gerencia1



The screenshot shows the Cisco Packet Tracer PC Command Line interface for a device named Oficina6A. The 'Desktop' tab is selected. The command prompt shows the execution of a ping command to 192.168.18.12. The output indicates that the ping was successful with 0% loss and 0ms round trip times.

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.18.12

Pinging 192.168.18.12 with 32 bytes of data:

Reply from 192.168.18.12: bytes=32 time<1ms TTL=128
Reply from 192.168.18.12: bytes=32 time<1ms TTL=128
Reply from 192.168.18.12: bytes=32 time<1ms TTL=128
Reply from 192.168.18.12: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.18.12:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

- Ping de Oficina 3A a Ventas1

The screenshot shows the 'Oficina3A' PC configuration window in Cisco Packet Tracer. The 'Desktop' tab is selected, displaying a 'Command Prompt' window. The command prompt shows the execution of a ping command from the PC's IP address (192.168.18.30) to the destination IP (192.168.18.30). The output indicates that the ping was successful with 0% loss and 0ms round trip times.

```

Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.18.30

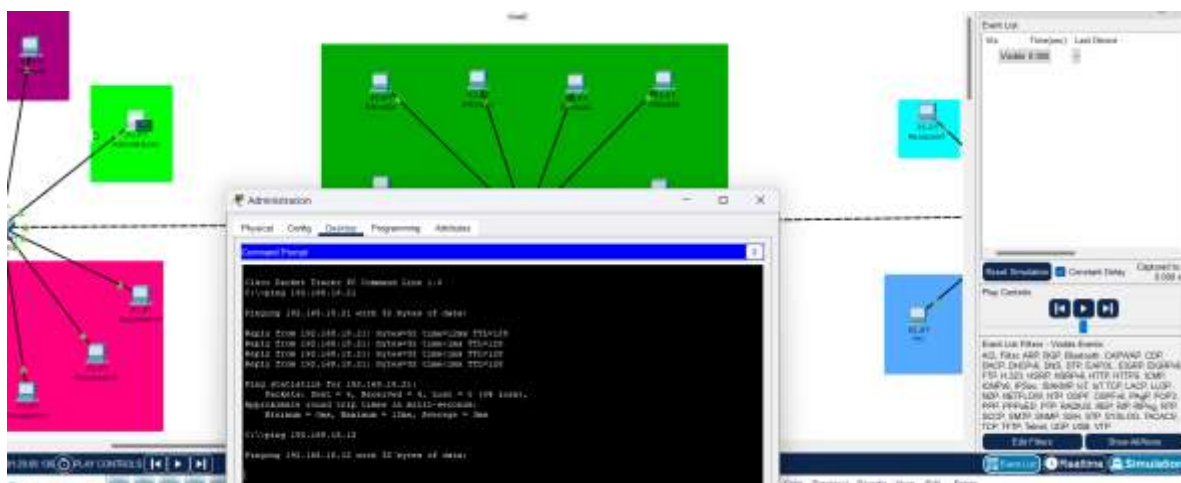
Pinging 192.168.18.30 with 32 bytes of data:

Reply from 192.168.18.30: bytes=32 time<1ms TTL=128
Reply from 192.168.18.30: bytes=32 time<1ms TTL=128
Reply from 192.168.18.30: bytes=32 time<1ms TTL=128
Reply from 192.168.18.30: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.18.30:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
  
```

Captura de un paquete ARP/ICMP

Paquete en recorriendo desde Administración a Gerencia.





PDU Information at Device: Administracion

OSI Model

Outbound PDU Details

At Device: Administracion

Source: Administracion

Destination: 192.168.18.12

In Layers

Layer7

Layer6

Layer5

Layer4

Layer3

Layer2

Layer1

Out Layers

Layer7

Layer6

Layer5

Layer4

Layer 3: IP Header Src. IP: 192.168.18.11, Dest. IP: 192.168.18.12 ICMP Message Type: 8

Layer 2: Ethernet II Header 0002.1747.6B15 >> 0030.F2A3.A616

Layer 1: Port(s): FastEthernet0

1. The Ping process starts the next ping request.

2. The Ping process creates an ICMP Echo Request message and sends it to the lower process.

3. The source IP address is not specified. The device sets it to the port's IP address.

4. The destination IP address is in the same subnet. The device sets the next-hop to destination.

Challenge Me

<< Previous Layer

Next Layer >>