

Actividad | 1 | Administración de Redes y Servidores

Escenario LAN

Ingeniería en Desarrollo de Software



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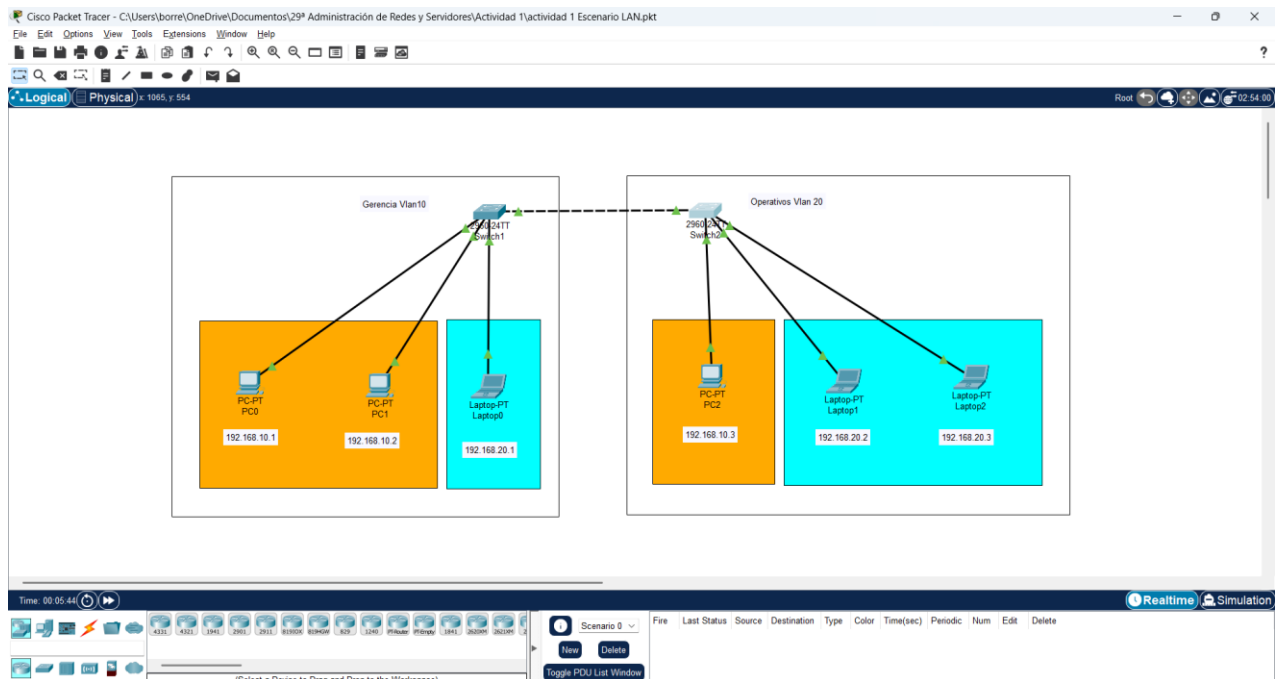
ALUMNO: Juan Carlos Legorreta Ramos

FECHA: 09-11-2025

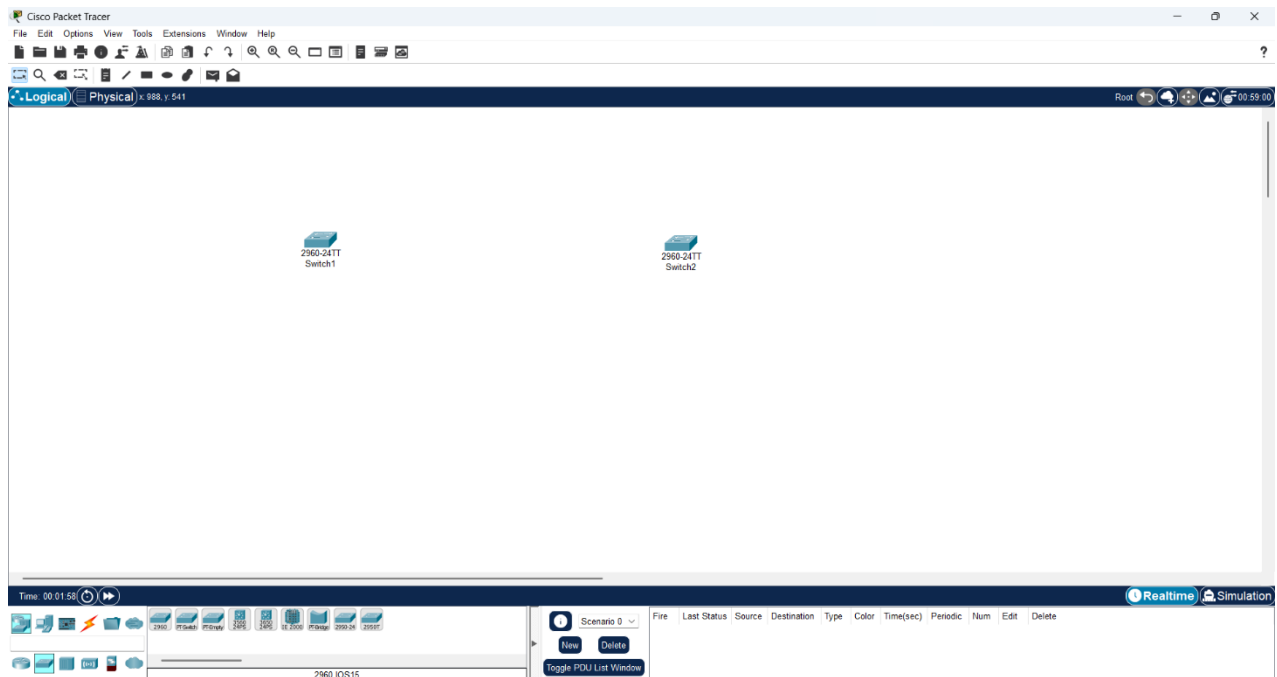
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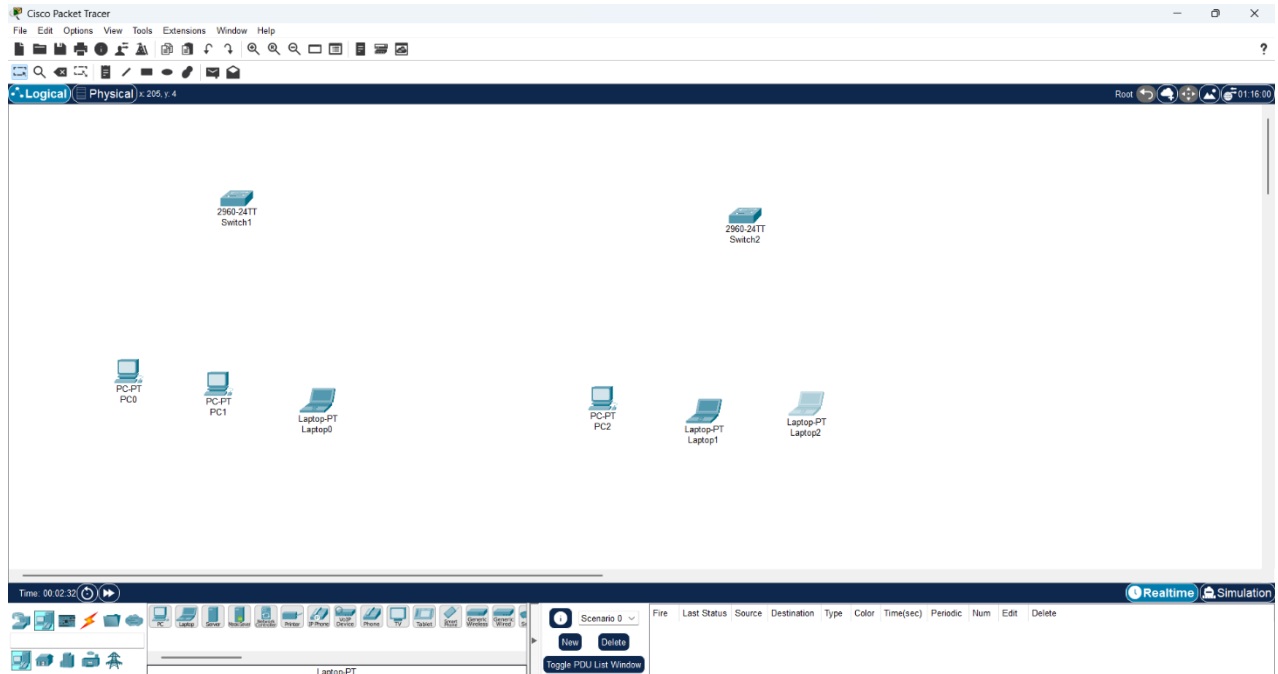
Creación de escenario



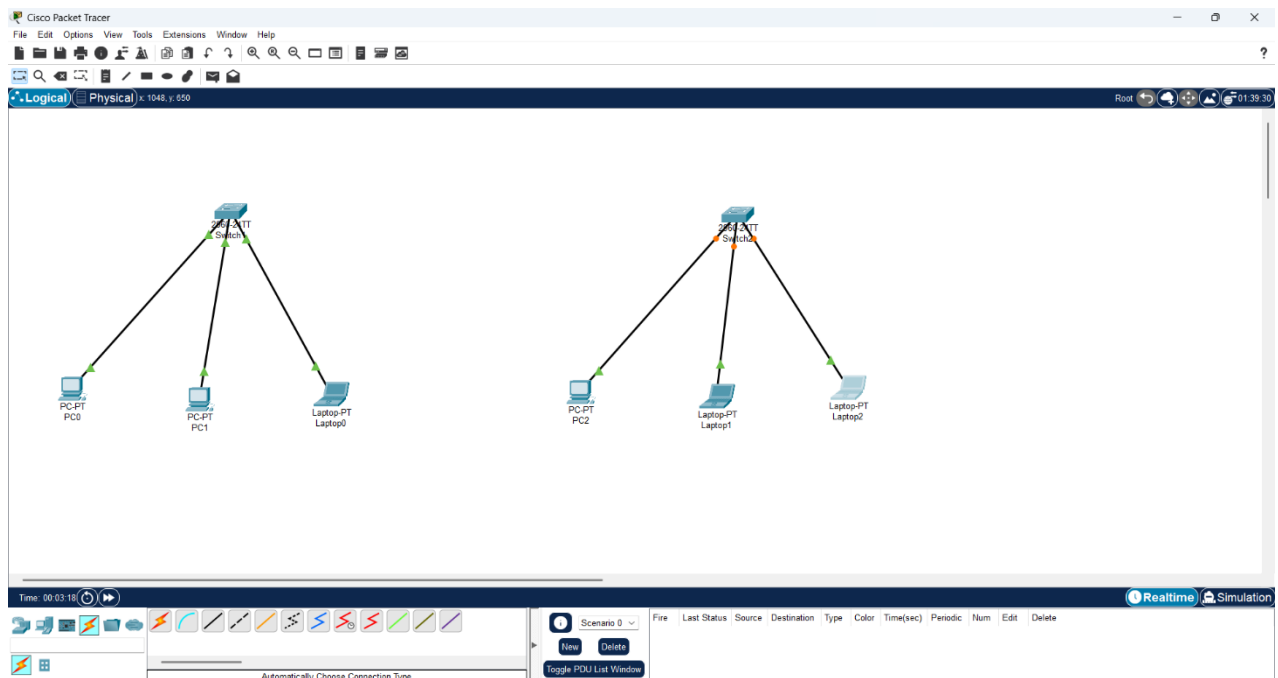
Capturas de pantalla



Iniciaremos colocando dos Switch siendo el uno y el dos.



Colocaremos 6 dispositivos siendo PC 0, PC 1 y una Laptop 0 para el Switch 1 y una PC 3 y Laptop 1 y Laptop 2 para el Switch 2.



Ahora conectaremos cada uno de los dispositivos con un Switch de forma automática.

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x: 138, y: 33

PC1

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.10.2

Subnet Mask 255.255.255.0

Default Gateway 192.168.10.254

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address

Link Local Address FE80:202:17FF:FECD:CAD2

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MDS

Username

Password

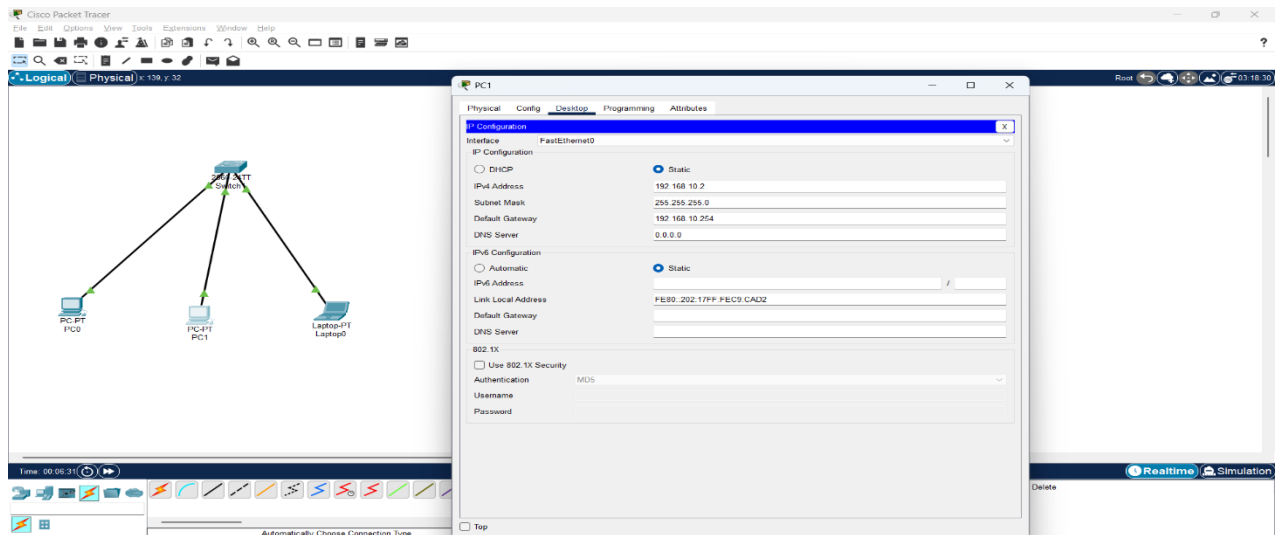
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Realtime Simulation

Delete

Automatically Choose Connection Type

Top



Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x: 897, y: 436

PC0

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.10.1

Subnet Mask 255.255.255.0

Default Gateway 192.168.10.254

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address

Link Local Address FE80:290:21FF:FECD:7CA6

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MDS

Username

Password

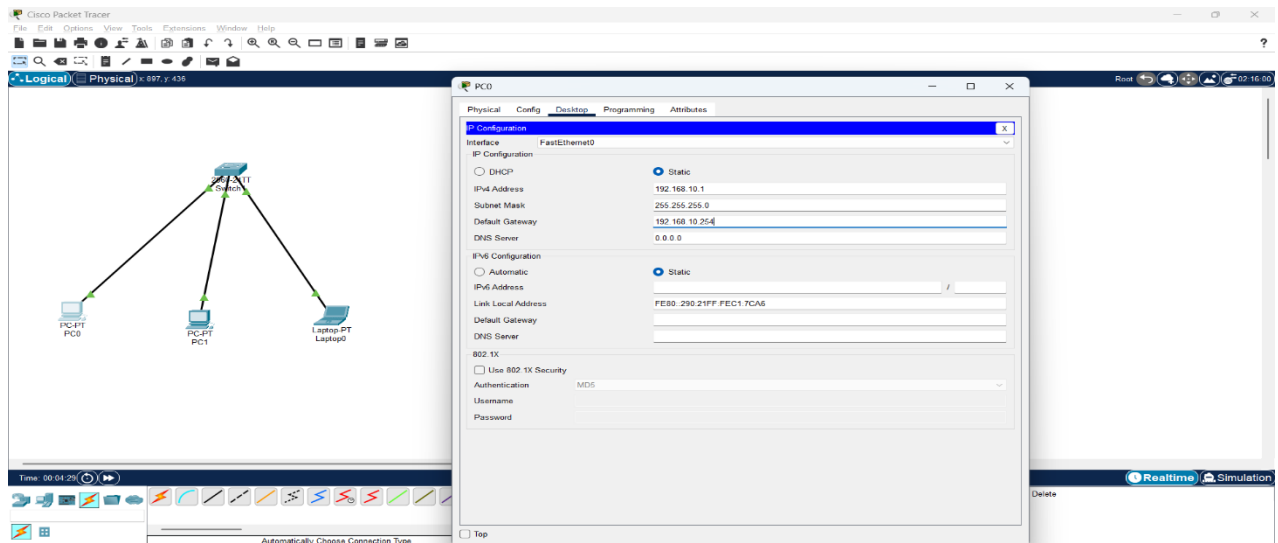
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Realtime Simulation

Delete

Automatically Choose Connection Type

Top



Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x: 873, y: 436

PC2

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address 192.168.10.3

Subnet Mask 255.255.255.0

Default Gateway 192.168.10.254

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address

Link Local Address FE80:201:C7FF:FE33:B10A

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MDS

Username

Password

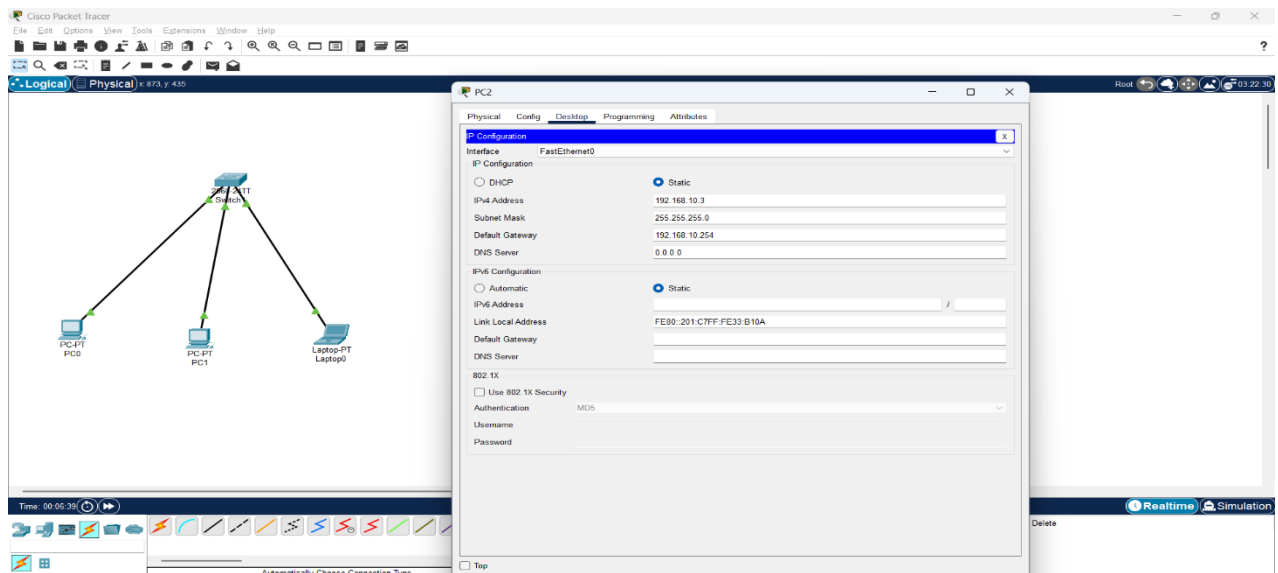
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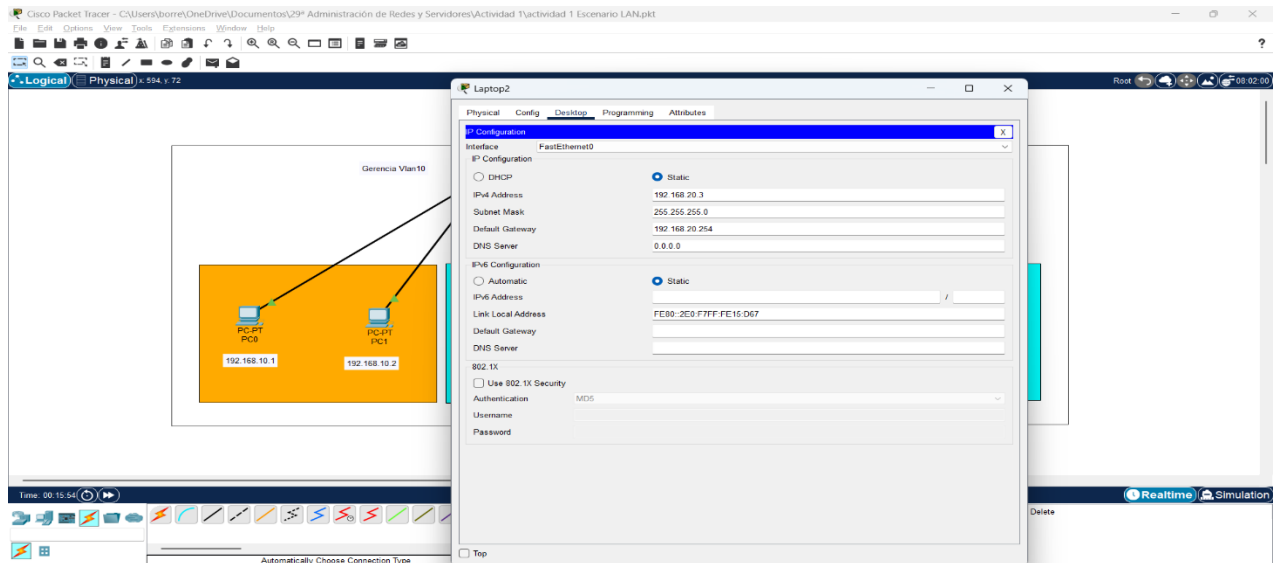
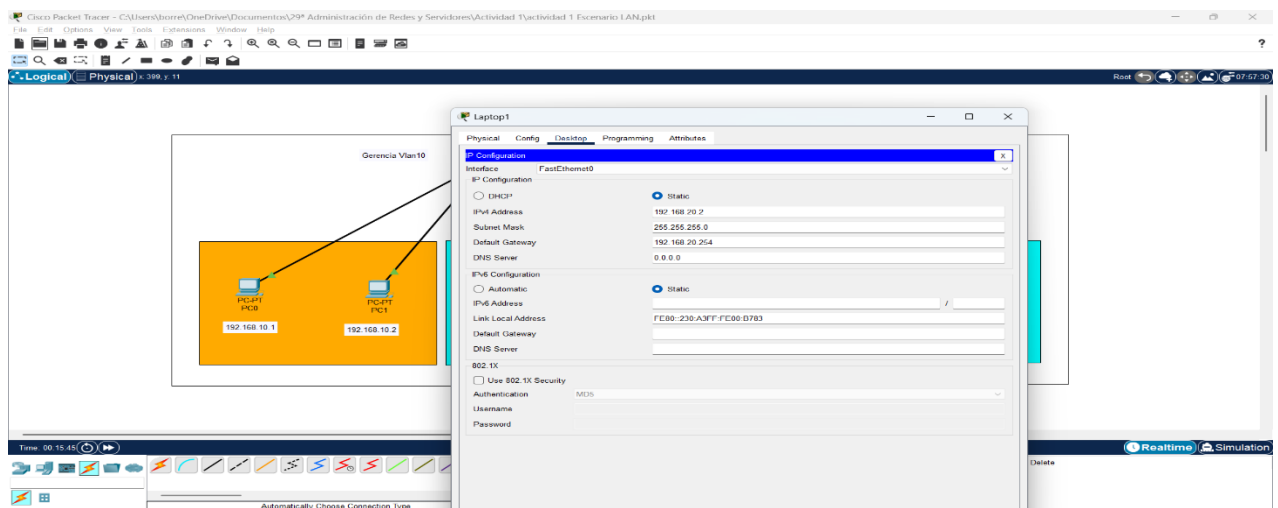
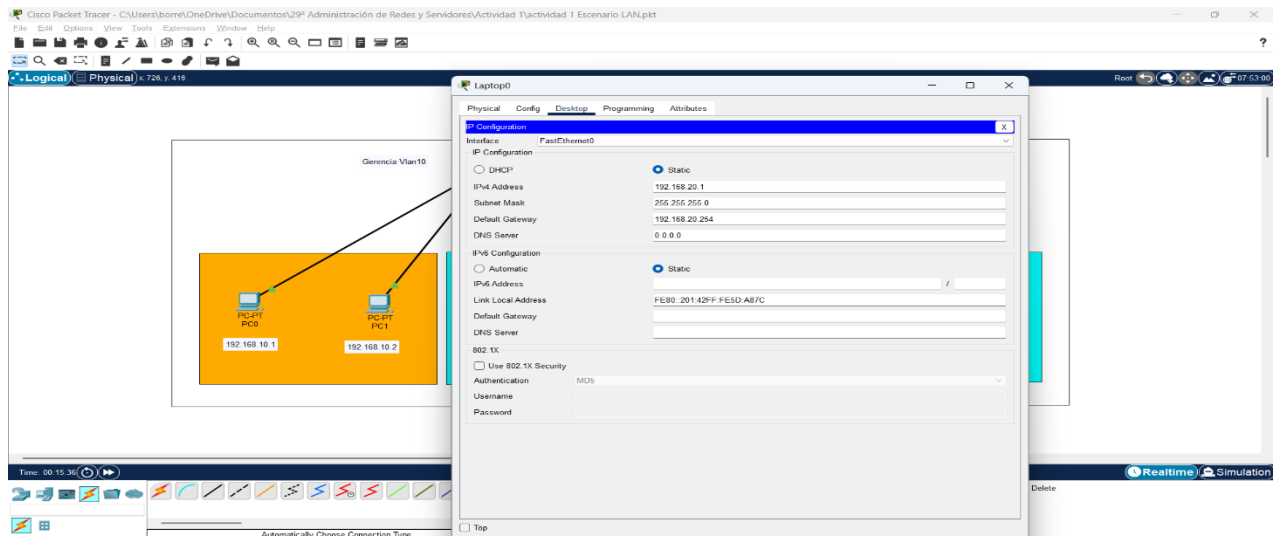
Realtime Simulation

Delete

Automatically Choose Connection Type

Top





En esta parte le estaremos dando una dirección IP y una puerta de enlace a cada uno de los dispositivos siendo los dientes

SWITCH1

PC0: 192.168.10.1 / 192.169.10.254

PC1: 192.168.10.2 / 192.169.10.254

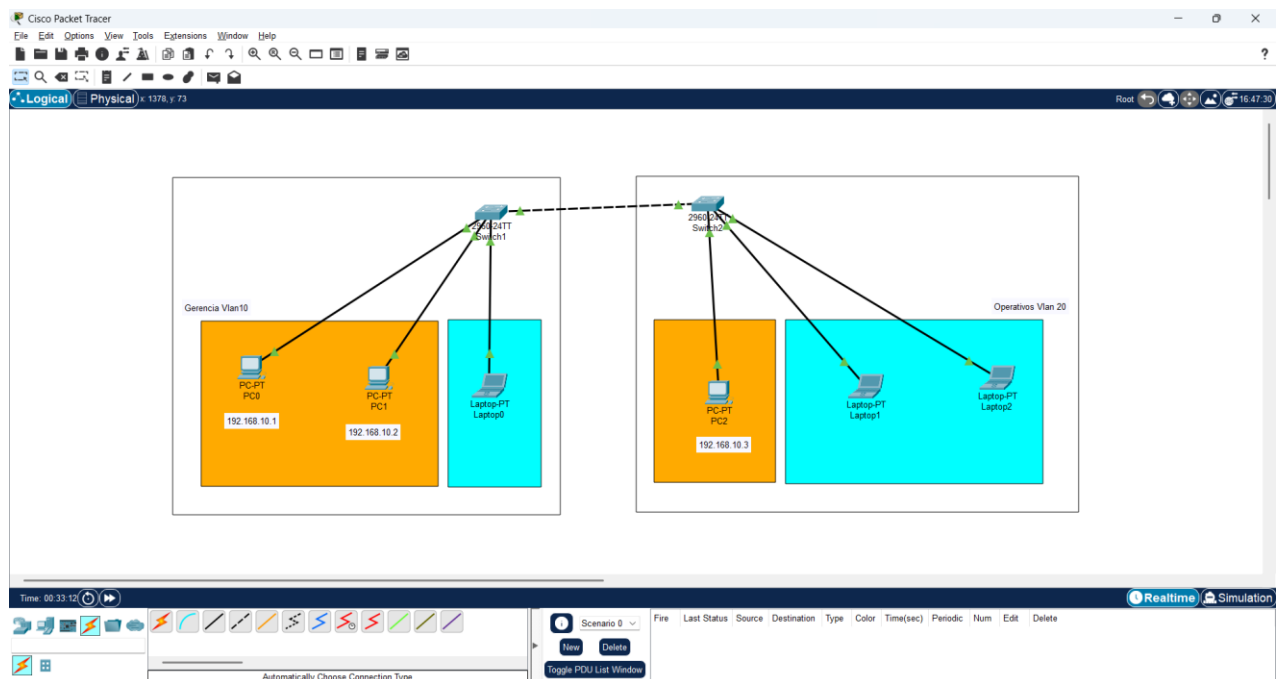
PC2: 192.168.10.3 / 192.169.10.254

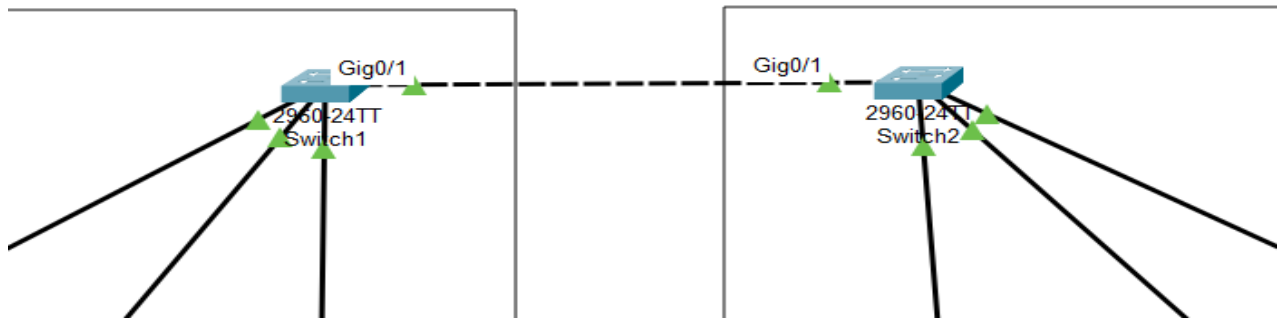
SWITCH2

Laptop0: 192.168.20.1 / 192.169.20.254

Laptop1: 192.168.20.2 / 192.169.20.254

Laptop3: 192.168.20.3 / 192.169.20.254





aquí conectamos los SWITCH entre ambos mediante e puerto GIGABITETHERNET para una mejor velocidad de datos.

The screenshot shows the configuration for Switch1 in Cisco Packet Tracer. The configuration includes a table of port statuses and IP addresses.

Port	Link	VLAN	IP Address	MAC Address
FastEthernet0/1	Up	1	---	000A.41E6.4B01
FastEthernet0/2	Up	1	---	000A.41E6.4B02
FastEthernet0/3	Up	1	---	000A.41E6.4B03
FastEthernet0/4	Down	1	---	000A.41E6.4B04
FastEthernet0/5	Down	1	---	000A.41E6.4B05
FastEthernet0/6	Down	1	---	000A.41E6.4B06
FastEthernet0/7	Down	1	---	000A.41E6.4B07
FastEthernet0/8	Down	1	---	000A.41E6.4B08
FastEthernet0/9	Down	1	---	000A.41E6.4B09
FastEthernet0/10	Down	1	---	000A.41E6.4B0A
FastEthernet0/11	Down	1	---	000A.41E6.4B0B
FastEthernet0/12	Down	1	---	000A.41E6.4B0C
FastEthernet0/13	Down	1	---	000A.41E6.4B0D
FastEthernet0/14	Down	1	---	000A.41E6.4B0E
FastEthernet0/15	Down	1	---	000A.41E6.4B0F
FastEthernet0/16	Down	1	---	000A.41E6.4B10
FastEthernet0/17	Down	1	---	000A.41E6.4B11
FastEthernet0/18	Down	1	---	000A.41E6.4B12
FastEthernet0/19	Down	1	---	000A.41E6.4B13
FastEthernet0/20	Down	1	---	000A.41E6.4B14
FastEthernet0/21	Down	1	---	000A.41E6.4B15
FastEthernet0/22	Down	1	---	000A.41E6.4B16
FastEthernet0/23	Down	1	---	000A.41E6.4B17
FastEthernet0/24	Down	1	---	000A.41E6.4B18
GigabitEthernet0/1	Up	1	---	000A.41E6.4B19
GigabitEthernet0/2	Down	1	---	000A.41E6.4B1A
Vlan1	Down	1	<not set>	0000.0000.0000

The screenshot shows the configuration for Switch2 in Cisco Packet Tracer. The configuration includes a table of port statuses and IP addresses.

Port	Link	VLAN	IP Address	MAC Address
FastEthernet0/1	Up	1	---	0000.FF33.0201
FastEthernet0/2	Up	1	---	0000.FF33.0202
FastEthernet0/3	Up	1	---	0000.FF33.0203
FastEthernet0/4	Down	1	---	0000.FF33.0204
FastEthernet0/5	Down	1	---	0000.FF33.0205
FastEthernet0/6	Down	1	---	0000.FF33.0206
FastEthernet0/7	Down	1	---	0000.FF33.0207
FastEthernet0/8	Down	1	---	0000.FF33.0208
FastEthernet0/9	Down	1	---	0000.FF33.0209
FastEthernet0/10	Down	1	---	0000.FF33.020A
FastEthernet0/11	Down	1	---	0000.FF33.020B
FastEthernet0/12	Down	1	---	0000.FF33.020C
FastEthernet0/13	Down	1	---	0000.FF33.020D
FastEthernet0/14	Down	1	---	0000.FF33.020E
FastEthernet0/15	Down	1	---	0000.FF33.020F
FastEthernet0/16	Down	1	---	0000.FF33.0210
FastEthernet0/17	Down	1	---	0000.FF33.0211
FastEthernet0/18	Down	1	---	0000.FF33.0212
FastEthernet0/19	Down	1	---	0000.FF33.0213
FastEthernet0/20	Down	1	---	0000.FF33.0214
FastEthernet0/21	Down	1	---	0000.FF33.0215
FastEthernet0/22	Down	1	---	0000.FF33.0216
FastEthernet0/23	Down	1	---	0000.FF33.0217
FastEthernet0/24	Down	1	---	0000.FF33.0218
GigabitEthernet0/1	Up	1	---	0000.FF33.0219
GigabitEthernet0/2	Down	1	---	0000.FF33.021A
Vlan1	Down	1	<not set>	0000.0000.0000

