Tecnológico Nacional De México Campus Nogales

Práctica #3 - Unidad 1

Carrera:

Ingeniería en Sistemas Computacionales

Clase:

Conmutación y Enrutamientos de Redes de Datos

Instructor:

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Alumno:

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Práctica

Dada la siguiente dirección IP: 192.168.10.16 /25, obtener: Número de máquinas a conectar, broadcast y mascara.

Dirección IP:

192.168.10.16

`11000000.10101000.00001010.00010000`

Mascara de red:

255.255.255.128 = 25

`11111111.11111111.11111111.10000000`

Red:

192.168.10.0/25

`11000000.10101000.00001010.00000000`

Broadcast

192.168.10.127

Primera IP

192.168.10.1

Última IP

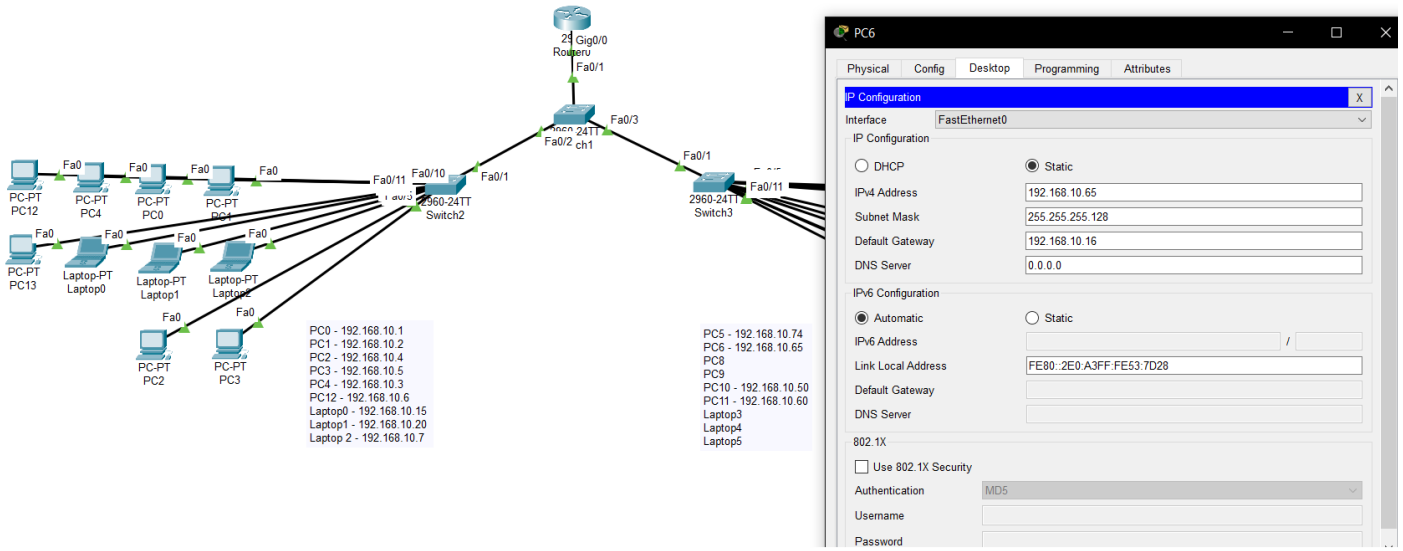
192.168.10.126

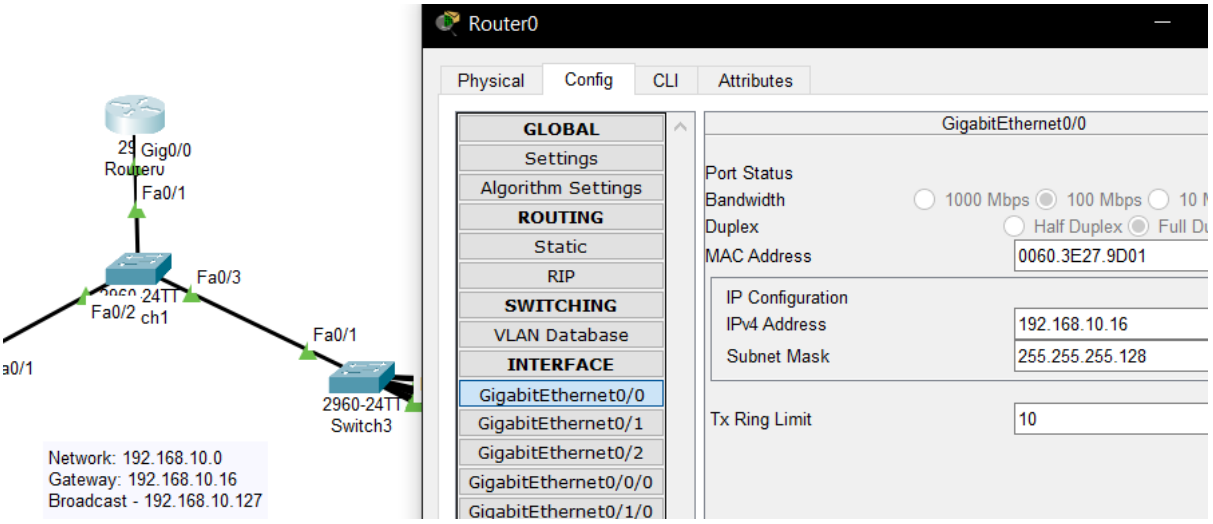
La red soporta 126 host/máquinas.

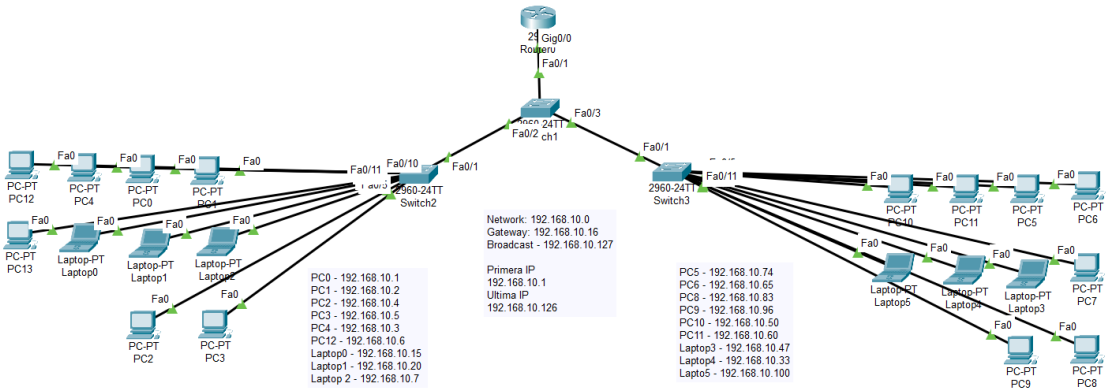
IP utilizadas en Cisco Packet Tracer :

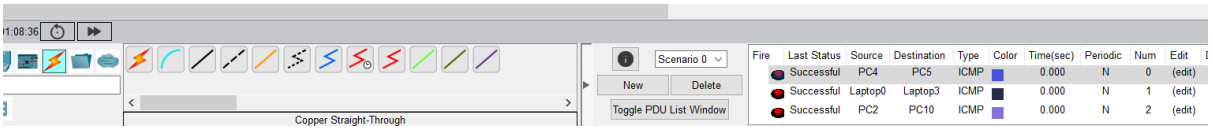
PC0 - 192.168.10.1
PC1 - 192.168.10.2
PC2 - 192.168.10.4
PC3 - 192.168.10.5
PC4 - 192.168.10.3
PC12 - 192.168.10.6
PC5 - 192.168.10.74
PC6 - 192.168.10.65
PC8 - 192.168.10.83
PC9 - 192.168.10.96
PC10 - 192.168.10.50
PC11 - 192.168.10.60
Laptop0 - 192.168.10.15
Laptop1 - 192.168.10.20
Laptop2 - 192.168.10.7
Laptop3 - 192.168.10.47
Laptop4 - 192.168.10.33
Laptop5 - 192.168.10.100

Evidencias Cisco.




Router0
Physical
Config
CLI
Attributes
GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
SWITCHING
VLAN Database
INTERFACE
GigabitEthernet0/0
GigabitEthernet0/1
GigabitEthernet0/2
GigabitEthernet0/0/0
GigabitEthernet0/1/0
GigabitEthernet0/0
Port Status
Bandwidth
1000 Mbps
100 Mbps
Duplex
Half Duplex
MAC Address
0060.3E27.9D01
IP Configuration
IPv4 Address
192.168.10.16
Subnet Mask
255.255.255.128
Tx Ring Limit
10
Gig0/0
Fa0/1
Fa0/3
Fa0/2
ch1
Fa0/1
2960-24TT
Switch3
Network: 192.168.10.0
Gateway: 192.168.10.16
Broadcast - 192.168.10.127


Gig0/0
Fa0/1
Fa0/3
Fa0/2
ch1
Fa0/1
Fa0/11
Fa0/10
Fa0/1
2960-24TT
Switch2
2960-24TT
Switch3
Fa0/11
PC-PT
PC12
PC-PT
PC4
PC-PT
PC0
PC-PT
PC13
Laptop-PT
Laptop0
Laptop-PT
Laptop1
Laptop-PT
PC-PT
PC2
PC-PT
PC3
Network: 192.168.10.0
Gateway: 192.168.10.16
Broadcast - 192.168.10.127
Primera IP
192.168.10.1
Ultima IP
192.168.10.126
PC0 - 192.168.10.1
PC1 - 192.168.10.2
PC2 - 192.168.10.4
PC3 - 192.168.10.5
PC4 - 192.168.10.3
PC12 - 192.168.10.6
Laptop0 - 192.168.10.15
Laptop1 - 192.168.10.20
Laptop 2 - 192.168.10.7
PC-PT
PC10
PC-PT
PC11
PC-PT
PC5
PC-PT
PC6
Laptop-PT
Laptop5
Laptop-PT
Laptop4
Laptop-PT
Laptop3
PC-PT
PC7
PC-PT
PC9
PC-PT
PC8
PC5 - 192.168.10.74
PC6 - 192.168.10.65
PC8 - 192.168.10.83
PC9 - 192.168.10.96
PC10 - 192.168.10.50
PC11 - 192.168.10.60
Laptop3 - 192.168.10.47
Laptop4 - 192.168.10.33
Lapto5 - 192.168.10.100


Copper Straight-Through
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Status
Source
Destination
Type
Color
Time(sec)
Periodic
Num
Edit
Successful PC4 PC5 ICMP 0.000 N 0 (edit)
Successful Laptop0 Laptop3 ICMP 0.000 N 1 (edit)
Successful PC2 PC10 ICMP 0.000 N 2 (edit)