NOMBRE DE LA MATERIA
Fundamento de redes

NOMBRE DEL DOCENTE
Rafael Preciado Gutiérrez

NOMBRE DEL TRABAJO
PK3 Resuelto

NOMBRE DEL ALUMNO
Alejandro Guevara de Luna

UNIDAD
2

FECHA Y LUGAR
1 de noviembre del 2022

Simulation Panel ⊡ ✕

Event List

Vis.	Time(sec)	Last Device

Reset Simulation ☑ Constant Delay

Captured to:
(no captures)

Play Controls

⏮ ▶ ⏭

Event List Filters – Visible Events
ICMP

Edit Filters | Show All/None

Event List | Realtime | Simulation

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Cisco Packet Tracer

IPv4 | IPv6 | Misc

- ☐ ARP
- ☐ BGP
- ☐ DHCP
- ☐ DNS
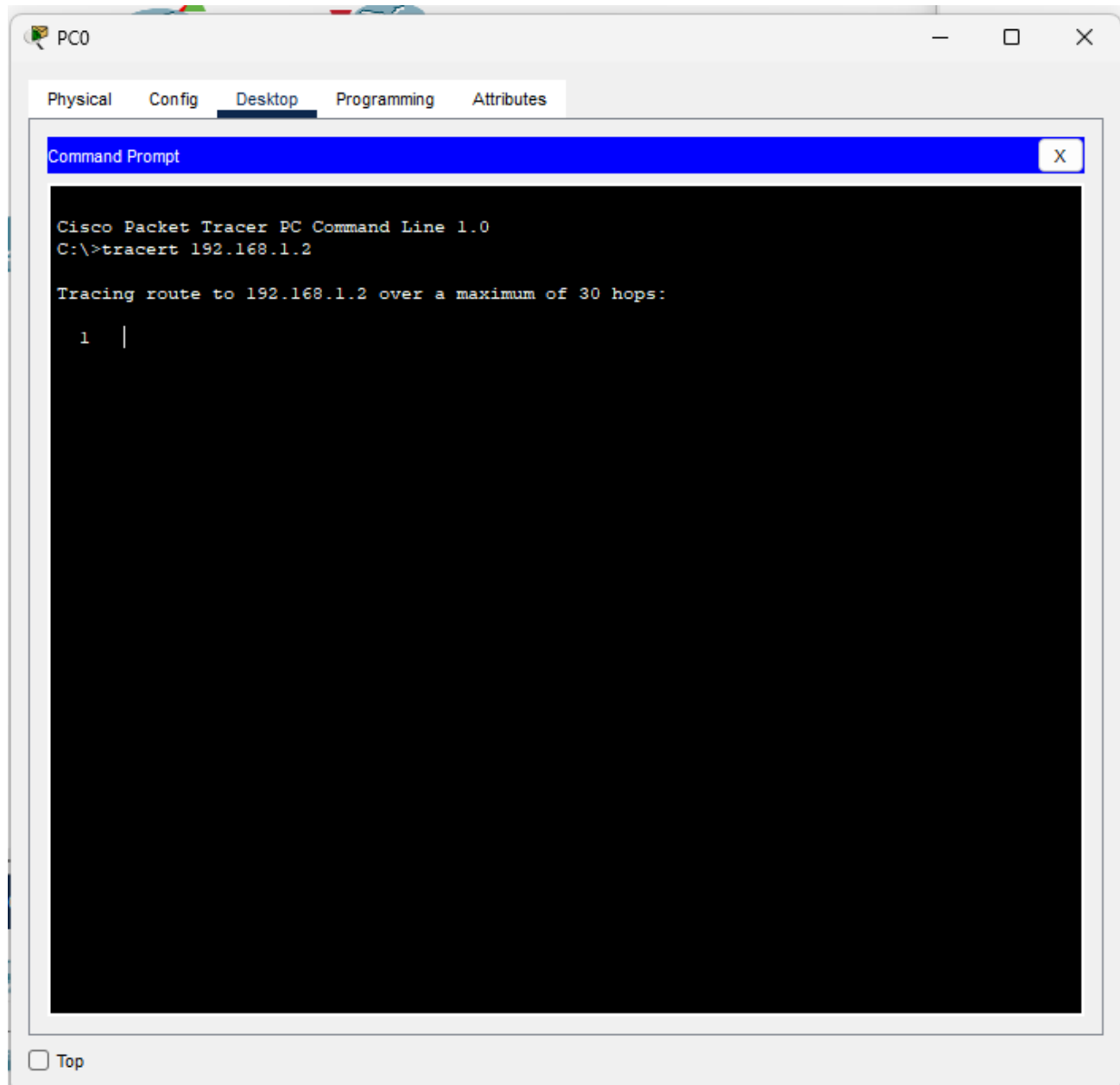- ☐ EIGRP
- ☐ HSRP
- ☑ ICMP
- ☐ OSPF
- ☐ RIP

Edit ACL Filters

PDU Information at Device: PC0   x

OSI Model   Outbound PDU Details

At Device: PC0
Source: PC0
Destination: 192.168.1.2

In Layers	**Out Layers**
Layer7	Layer7
Layer6	Layer6
Layer5	Layer5
Layer4	Layer4
Layer3	Layer 3: IP Header Src. IP: 10.0.0.1, Dest. IP: 192.168.1.2 ICMP Message Type: 8
Layer2	Layer 2:
Layer1	Layer1

1. The Trace route process starts next trace.
2. The Trace Route 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 device sets TTL in the packet header.
5. The destination IP address 192.168.1.2 is not in the same subnet and is not the broadcast address.
6. The default gateway is set. The device sets the next-hop to default gateway.

Challenge Me   << Previous Layer   Next Layer >>

Simulation Panel

Event List

Vis.	Time(sec)	Last Device
	6.084	Router0
	6.085	Router1
	6.086	Router2
	6.087	Switch1
	6.088	PC3
	6.089	Switch1
	6.090	Router2
	6.091	Router1
	6.092	Router0
	6.093	Switch0
	6.197	--
	6.198	PC0
	6.199	Switch0
	6.200	Router0
	6.201	Router1
	6.202	Router2
	6.203	Switch1
	6.204	PC3
	6.205	Switch1
	6.206	Router2
	6.207	Router1
	6.208	Router0
👁	6.209	Switch0

Reset Simulation ☑ Constant Delay   Captured to: 609.838 s

Play Controls

|◀   ▶   ▶|

Event List Filters - Visible Events
ICMP

Edit Filters   **Show All/None**

Event List   Realtime   Simulation

Routing Table for Router0

Type	Network	Port	Next Hop IP	Metric
S	0.0.0.0/0	—	192.168.7.2	1/0
C	10.0.0.0/24	FastEthernet0/0	—	0/0
S	192.168.1.0/24	—	192.168.7.2	1/0
C	192.168.7.0/30	Serial0/0/0	—	0/0
S	192.168.8.0/24	—	192.168.7.2	1/0

PDU Information at Device: PC0

OSI Model   Outbound PDU Details

At Device: PC0
Source: PC0
Destination: 172.16.1.1

In Layers

Layer7
Layer6
Layer5
Layer4
Layer3
Layer2
Layer1

Out Layers

Layer7
Layer6
Layer5
Layer4
Layer 3: IP Header Src. IP: 10.0.0.1, Dest. IP: 172.16.1.1 ICMP Message Type: 8
Layer 2: Ethernet II Header 00D0.BA1E.00B6 >> 0001.437E.BA01
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 device sets TTL in the packet header.
5. The destination IP address 172.16.1.1 is not in the same subnet and is not the broadcast address.
6. The default gateway is set. The device sets the next-hop to default gateway.

Challenge Me   << Previous Layer   Next Layer >>

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PDU Information at Device: PC0   [x]

OSI Model   **Inbound PDU Details**

At Device: PC0
Source: Router1
Destination: PC0

In Layers   **Out Layers**

Layer7	Layer7
Layer6	Layer6
Layer5	Layer5
Layer4	Layer4
Layer 3: IP Header Src. IP: 192.168.7.2, Dest. IP: 10.0.0.1 ICMP Message Type: 11 ICMP Message Type: 8	Layer3
Layer 2: Ethernet II Header 0001.437E.BA01 >> 00D0.BA1E.00B6	Layer2
Layer 1: Port FastEthernet0	Layer1

1. FastEthernet0 receives the frame.

[Challenge Me]   [<< Previous Layer]   [Next Layer >>]