

PRACTICA PACKET TRACER

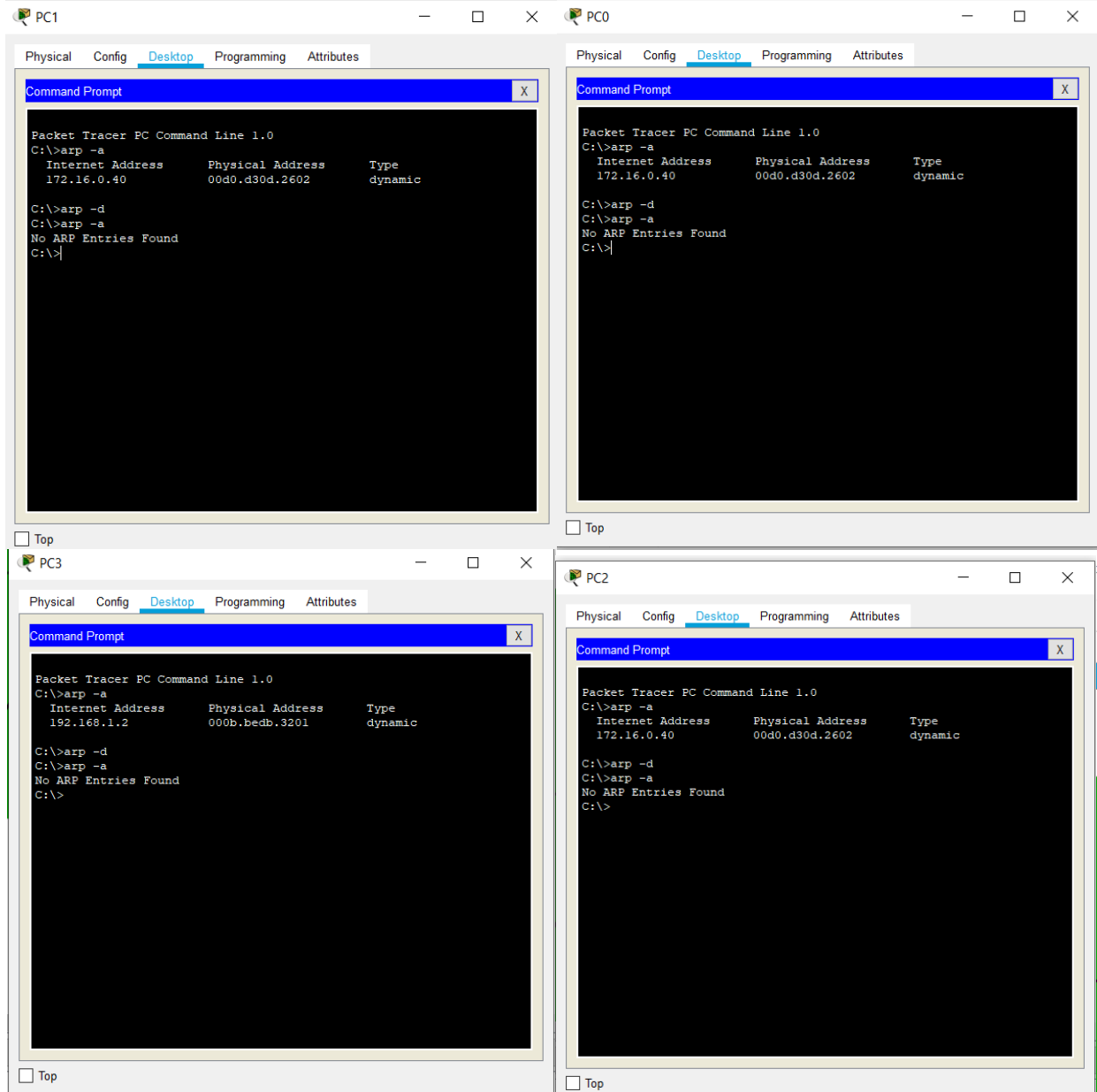
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0 – ¿Qué es ARP y en que capa de la pila de protocolos trabaja?

El ARP se encarga de guardar las MAC y Trabaja en la capa 2 Enlace

1 – ¿Como se borra la tabla ARP de todas las computadoras? – borre la tabla ARP de todas las computadoras.



(Para poder ver la tabla ARP es “arp -a”, ahora para borrar es “arp -d”)

2 - Hacer **PING** entre dos computadoras de la misma red verde y **mostrar la tabla ARP** de esas dos computadoras. DESCRIBA QUE ES LO QUE ESTA PASANDO DETALLADAMENTE CON EL **MODO SIMULACION**.

The screenshot shows a network topology in Cisco Packet Tracer. A central switch0 is connected to several devices: PC0 (IP 172.16.0.12/16), PC1 (IP 172.16.0.11/16), PC2 (IP 172.16.0.10/16), PC3 (IP 172.16.0.90/16), and several servers (mail.las273.edu, www.las273.edu, www.tulane.edu, www.las273.edu). A router0 is also connected to the network. The Event List panel on the right shows an ICMP event from PC0 to PC2 at 0.000 seconds. The simulation is running in Realtime mode.

Podemos ver que empieza a enviar el mensaje de la PC0 a la PC2

The screenshot shows the same network topology. The Event List panel on the right shows an ICMP event from PC0 to Switch0 at 0.001 seconds. The simulation is running in Realtime mode.

El mensaje pasa por el switch0 hace un broadcast

Cisco Packet Tracer - C:\Users\rosmary uyul encina\Desktop\LAB - 273\MODULO 4\packet tracer modulo 4 trabajo semana\Paniagua_Medina_kheyvit_Arman_Mod4TrabSeman4 T1auxi.pkt

File Edit Options View Tools Extensions Help

Logical Physical x: 1386, y: 410

Simulation Panel

Vis.	Time(sec)	Last Device	At Device	Type
0.000	-	PC0	Switch0	ICMP
0.001	PC0	Switch0	ICMP	
0.002	Switch0	PC2	ICMP	

Reset Simulation ☒ Constant Delay Captured to: 0.002 s

Play Controls

Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, IoT, IoT TCP, LACP, LLDP, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgp, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPng, RTP, SCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Time: 01:24:00.419 PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

In Progress PC0 PC2 ICMP 0.000 N 0 (edit) (delete)

(Select a Device to Drag and Drop to the Workspace)

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C.I.: 9899914
Parecido: das masfres
ic. Gallardo

Una vez hecho el broadcast, el mensaje se dirige a la PC2

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File Edit Options View Tools Extensions Help

Logical Physical x: 1405, y: 640

Simulation Panel

Vis.	Time(sec)	Last Device	At Device	Type
0.000	-	PC0	Switch0	ICMP
0.001	PC0	Switch0	ICMP	
0.002	Switch0	PC2	ICMP	
0.003	PC2	Switch0	ICMP	

Reset Simulation ☒ Constant Delay Captured to: 0.003 s

Play Controls

Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, IoT, IoT TCP, LACP, LLDP, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgp, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPng, RTP, SCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Time: 01:24:00.420 PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

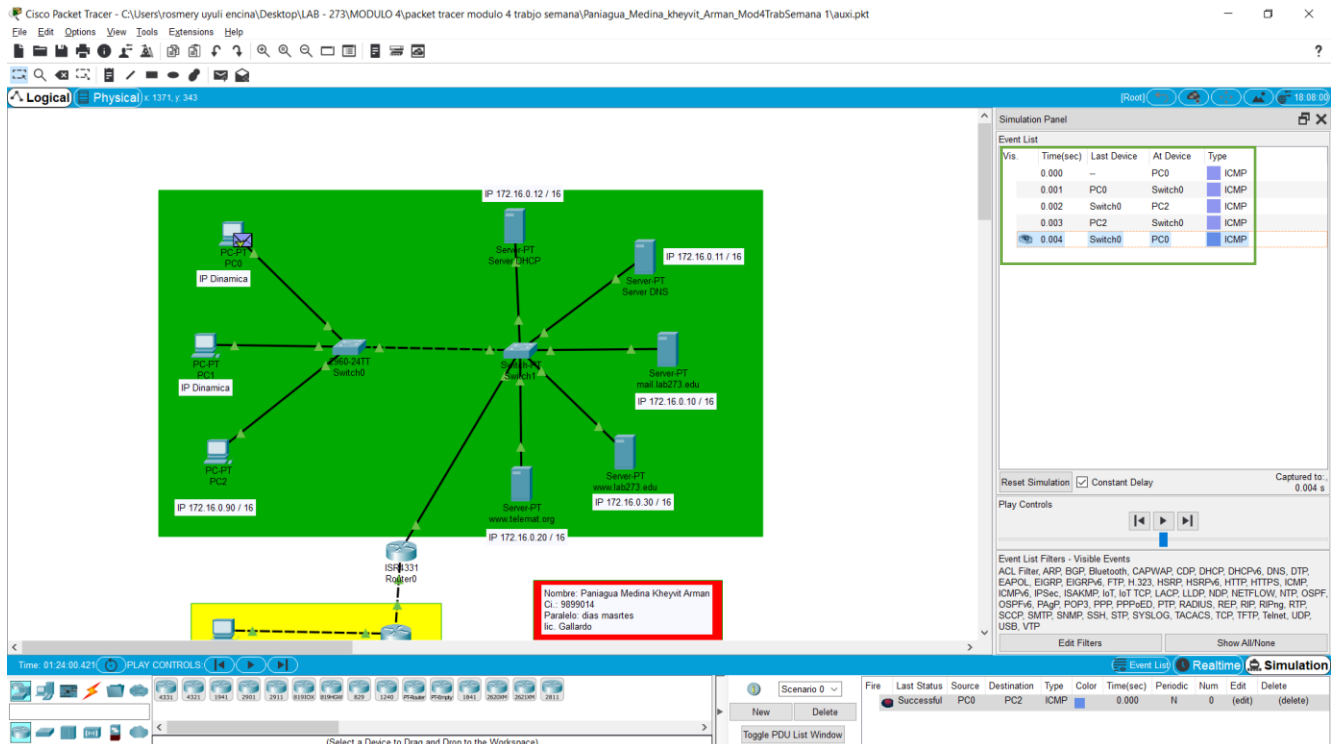
Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

In Progress PC0 PC2 ICMP 0.000 N 0 (edit) (delete)

(Select a Device to Drag and Drop to the Workspace)

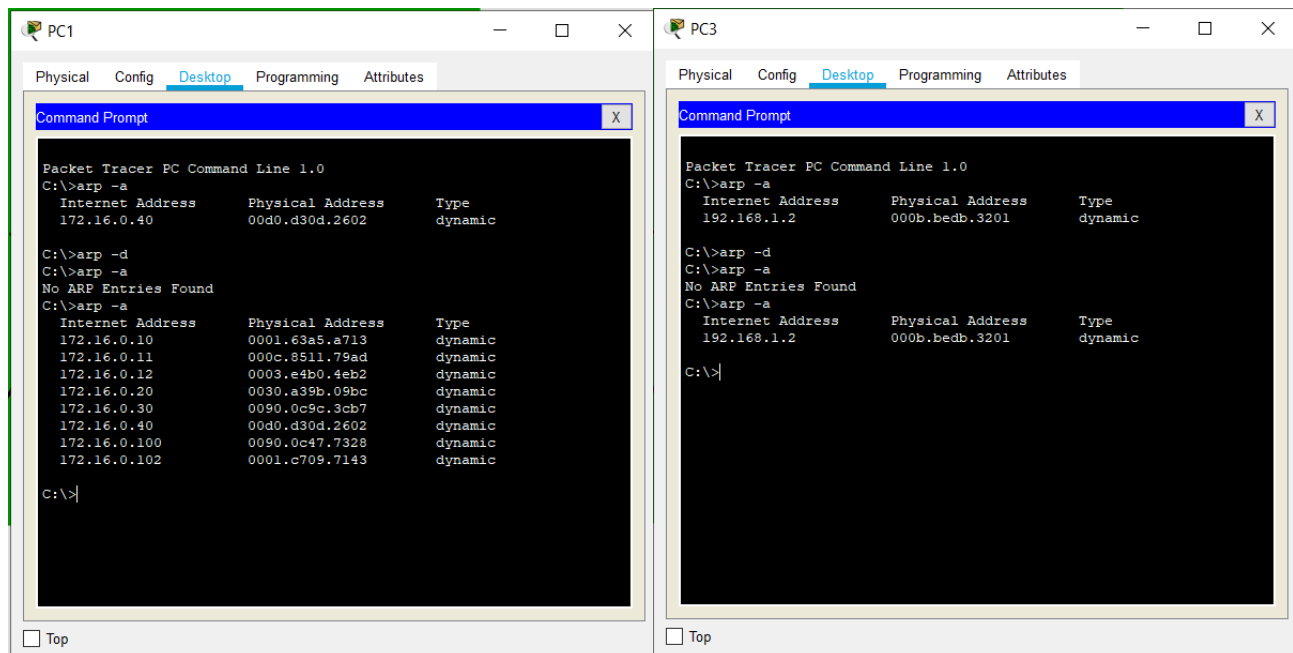
Nombre: Paniagua Medina Kheyvit Arman
C.I.: 9899914
Parecido: das masfres
ic. Gallardo

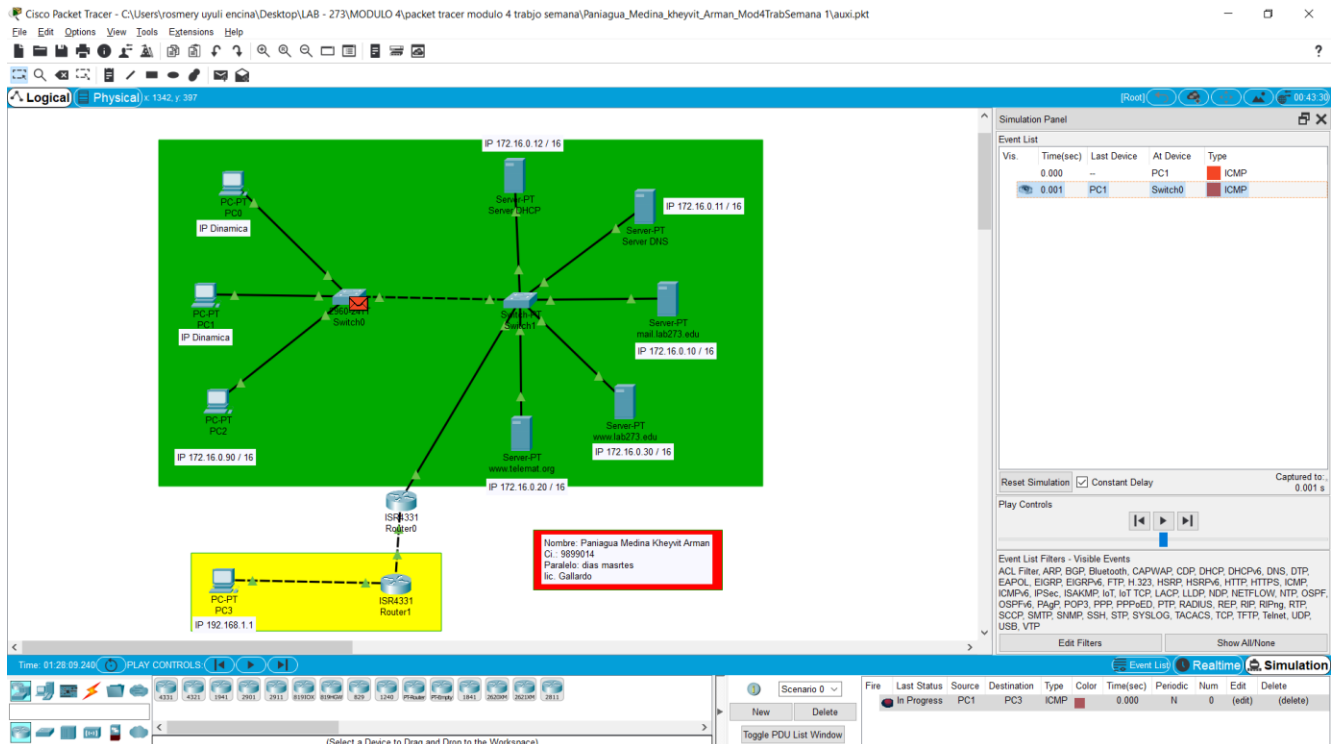
Luego la PC2 le devuelve el mensaje al switch0 para volver a hacer otro broadcast



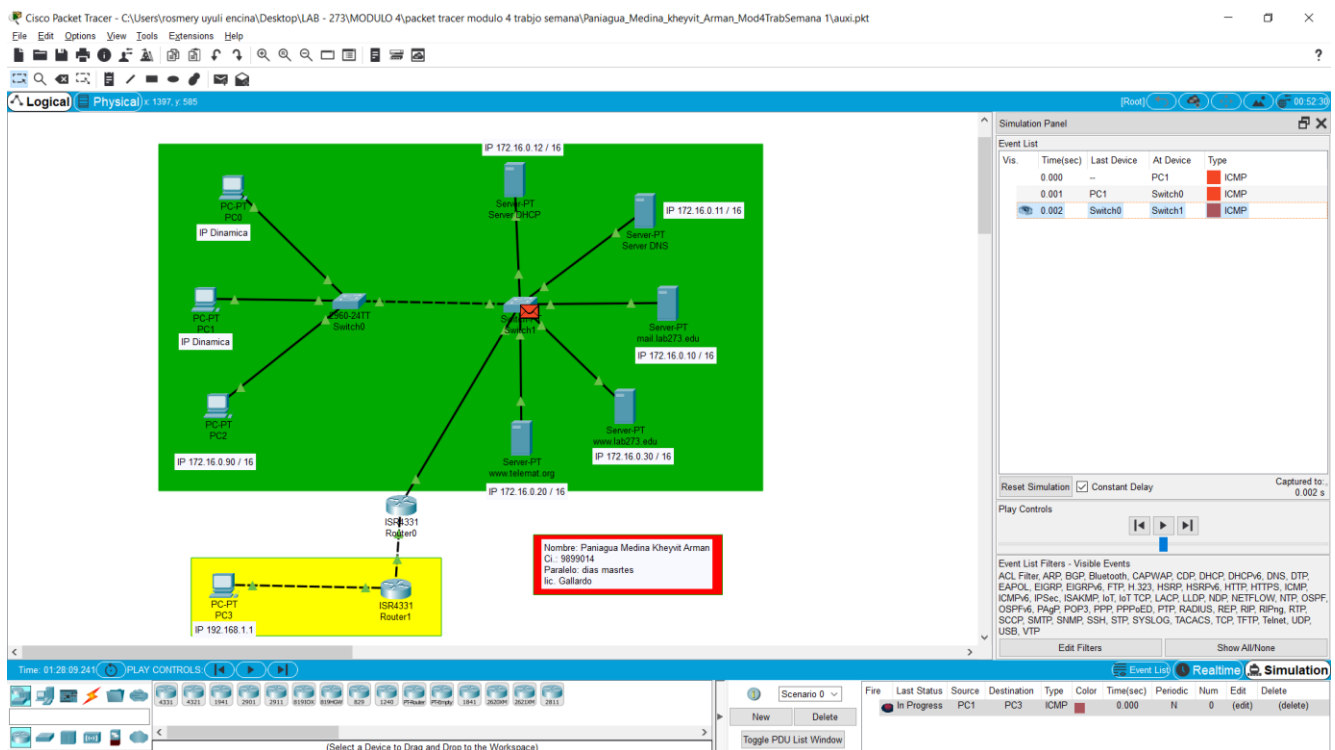
Luego tenemos el mensaje de recibido el mensaje.

3 - Hacer Ping entre una computadora de la red verde y una de la red amarilla y **mostrar la tabla ARP** de esas dos computadoras. DESCRIBA QUE ES LO QUE ESTA PASANDO DETALLADAMENTE CON EL **MODO SIMULACION**.

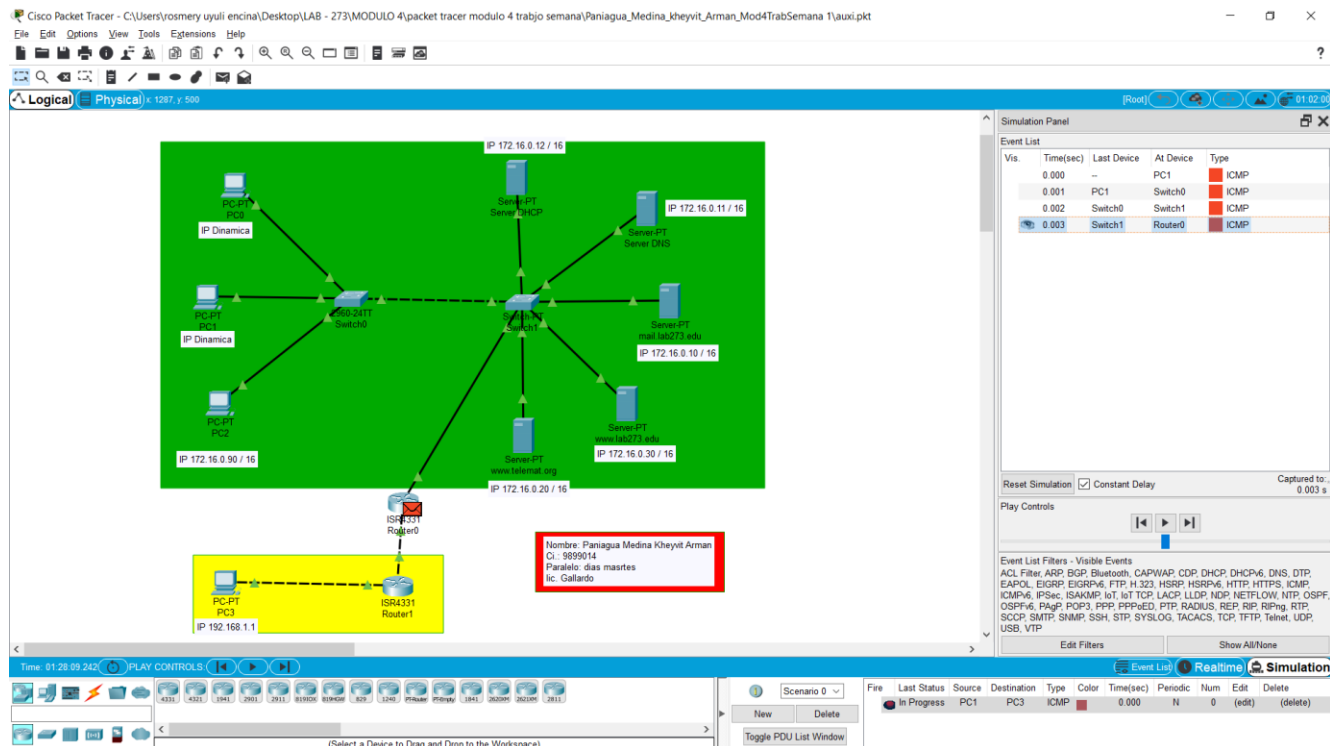




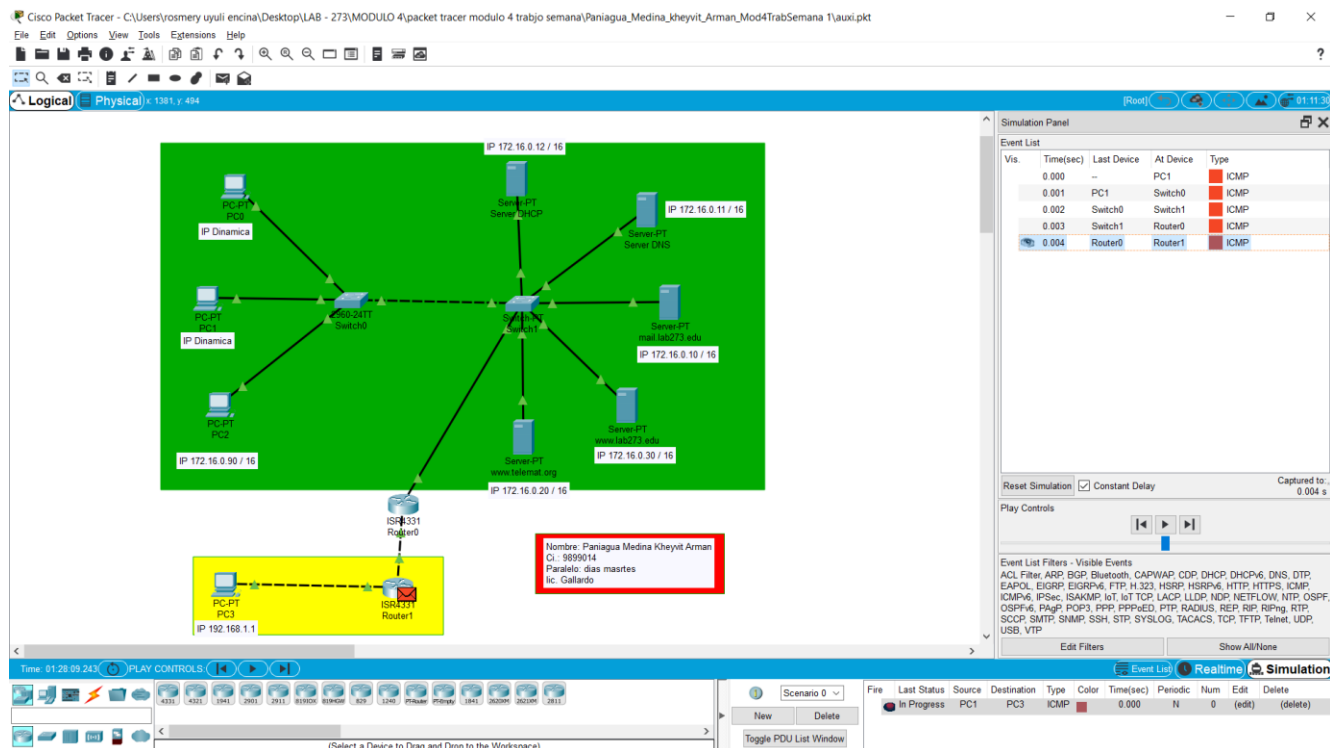
Enviamos el mensaje de la PC1 a la PC3 donde pasa por el Switch0



Una vez llegado al Switch0 pasara por el otro Switch1 y hace un broadcast



Ahora se dirige al Router0 una vez llegado el mensaje



Se dirige al otro Router1

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File Edit Options View Tools Extensions Help

Logical Physical x: 1225, y: 473

Simulation Panel

Event List

Vis	Time(sec)	Last Device	At Device	Type
0.000	--	PC1	PC1	ICMP
0.001	PC1	Switch0	Switch0	ICMP
0.002	Switch0	Switch1	Switch1	ICMP
0.003	Switch1	Router0	Router0	ICMP
0.004	Router0	Router1	Router1	ICMP
0.005	Router1	PC3	PC3	ICMP
0.006	PC3	Router1	Router1	ICMP
0.007	Router1	Router0	Router0	ICMP
0.008	Router0	Switch1	Switch1	ICMP

Reset Simulation ☒ Constant Delay Captured to: 0.008 s

Play Controls

Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, IoT, IoT TCP, LACP, LLDP, NTP, NETFLOW, NTP, OSPF, OSPFv6, PaP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Time: 01:28:09.247 PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

In Progress PC1 PC3 ICMP 0.000 N 0 (edit) (delete)

Una vez llegado a la PC3 vuelve el mensaje al Router1, luego pasa por el Router0 y vuelve al Switch1 donde hace un broadcast

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File Edit Options View Tools Extensions Help

Logical Physical x: 1282, y: 453

Simulation Panel

Event List

Vis	Time(sec)	Last Device	At Device	Type
0.000	--	PC1	PC1	ICMP
0.001	PC1	Switch0	Switch0	ICMP
0.002	Switch0	Switch1	Switch1	ICMP
0.003	Switch1	Router0	Router0	ICMP
0.004	Router0	Router1	Router1	ICMP
0.005	Router1	PC3	PC3	ICMP
0.006	PC3	Router1	Router1	ICMP
0.007	Router1	Router0	Router0	ICMP
0.008	Router0	Switch1	Switch1	ICMP
0.009	Switch1	Switch0	Switch0	ICMP

Reset Simulation ☒ Constant Delay Captured to: 0.009 s

Play Controls

Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, IoT, IoT TCP, LACP, LLDP, NTP, NETFLOW, NTP, OSPF, OSPFv6, PaP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Time: 01:28:09.248 PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

In Progress PC1 PC3 ICMP 0.000 N 0 (edit) (delete)

Del Switch1 va al Switch0

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File Edit Options View Tools Extensions Help

Logical Physical x: 694, y: 241

Simulation Panel

Event List

Vis	Time(sec)	Last Device	At Device	Type
0.000	--	PC1		ICMP
0.001	PC1	Switch0		ICMP
0.002	Switch0	Switch1		ICMP
0.003	Switch1	Router0		ICMP
0.004	Router0	Router1		ICMP
0.005	Router1	PC3		ICMP
0.006	PC3	Router1		ICMP
0.007	Router1	Router0		ICMP
0.008	Router0	Switch1		ICMP
0.009	Switch1	Switch0		ICMP
0.010	Switch0	PC1		ICMP

Reset Simulation ☒ Constant Delay Captured to: 0.010 s

Play Controls

Event List Filters - Visible Events

ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPsec, ISAKMP, IoT, IoT TCP, LACP, LLDP, MDX, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoE, PTP, RADIUS, REP, RIP, RIPng, RTP, SCOP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP

Edit Filters Show All/None

Time: 01:28:09:249 PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

Successful	PC1	PC3	ICMP	0.000	N	0	(edit)	(delete)
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Vuelve el mensaje de aceptación de la PC3 a la PC1

Imágenes adicionales:

Cisco Packet Tracer - C:\Users\rosmary uyuli encina\Desktop\LAB - 273\MODULO 4\packet tracer modulo 4 trabajo semana\Paniagua_Medina_kheyvit_Arman_Mod4TrabSemana 1\auxi.pkt

File Edit Options View Tools Extensions Help

Logical Physical x: 1285, y: 213

PDU List Window

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
Successful	PC0	Server DHCP	ICMP	0.000	N	0	(edit)	(delete)		
Successful	PC0	Server DNS	ICMP	0.000	N	1	(edit)	(delete)		
Successful	PC0	mail lab273.edu	ICMP	0.000	N	2	(edit)	(delete)		
Successful	PC0	www.lab273.edu	ICMP	0.000	N	3	(edit)	(delete)		
Successful	PC0	www.telemat.org	ICMP	0.000	N	4	(edit)	(delete)		
Successful	PC1	Server DHCP	ICMP	0.000	N	5	(edit)	(delete)		
Successful	PC1	Server DNS	ICMP	0.000	N	6	(edit)	(delete)		
Successful	PC1	mail lab273.edu	ICMP	0.000	N	7	(edit)	(delete)		
Successful	PC1	www.lab273.edu	ICMP	0.000	N	8	(edit)	(delete)		
Successful	PC1	www.telemat.org	ICMP	0.000	N	9	(edit)	(delete)		
Successful	PC2	Server DHCP	ICMP	0.000	N	10	(edit)	(delete)		
Successful	PC2	Server DNS	ICMP	0.000	N	11	(edit)	(delete)		
Successful	PC2	mail lab273.edu	ICMP	0.000	N	12	(edit)	(delete)		
Successful	PC2	www.lab273.edu	ICMP	0.000	N	13	(edit)	(delete)		
Successful	PC2	www.telemat.org	ICMP	0.000	N	14	(edit)	(delete)		
Successful	PC0	PC1	ICMP	0.000	N	15	(edit)	(delete)		
Successful	PC0	PC2	ICMP	0.000	N	16	(edit)	(delete)		
Successful	PC1	PC0	ICMP	0.000	N	17	(edit)	(delete)		
Successful	PC1	PC2	ICMP	0.000	N	18	(edit)	(delete)		
Successful	PC2	PC1	ICMP	0.000	N	19	(edit)	(delete)		
Successful	PC2	PC0	ICMP	0.000	N	20	(edit)	(delete)		

Time: 01:22:17

Scenario 0

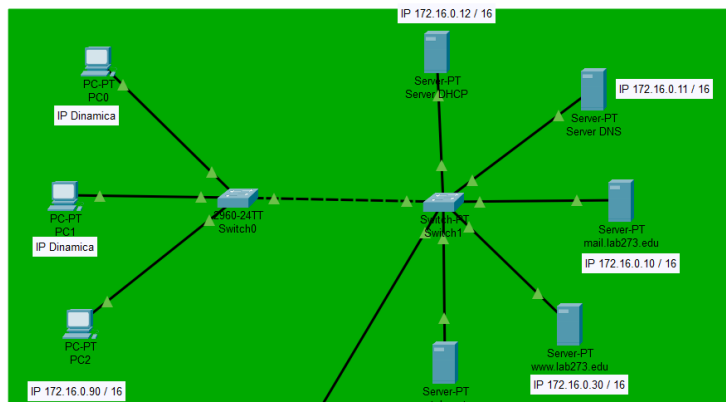
New Delete

Toggle PDU List Window

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete



Logical Physical x 1283, y 455



PDU List Window

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC0	PC3	ICMP		0.000	N	0	(edit)	
	Successful	PC1	PC3	ICMP		0.000	N	1	(edit)	
	Successful	PC2	PC3	ICMP		0.000	N	2	(edit)	
	Successful	mail lab273.edu	PC3	ICMP		0.000	N	3	(edit)	
	Successful	www lab273.edu	PC3	ICMP		0.000	N	4	(edit)	
	Successful	www telemat.org	PC3	ICMP		0.000	N	5	(edit)	

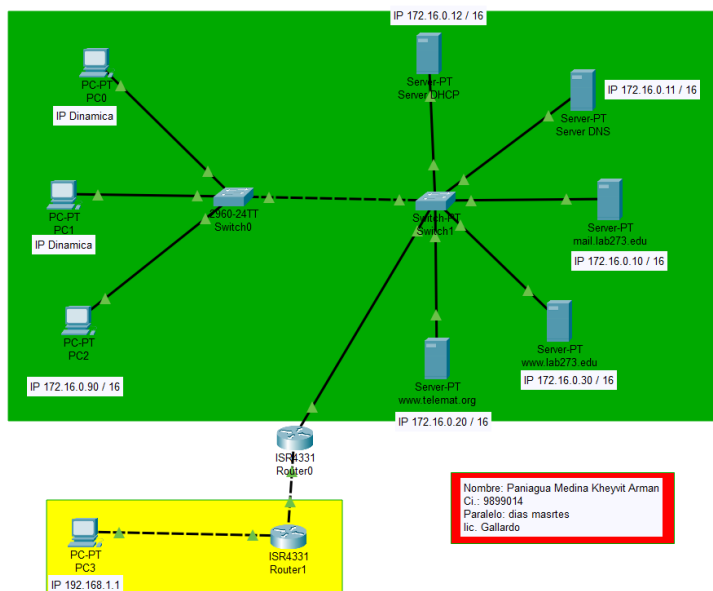
Time: 00:09:27



(Select a Device to Drag and Drop to the Workspace)



Logical Physical x 1387, y 623



Nombre: Paniagua Medina Kheyvit Arman
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 Paralelo: dias martes
 Lic. Gallardo

Time: 01:28:37



(Select a Device to Drag and Drop to the Workspace)

Scenari0

New Delete

Toggle PDU List Window