FACULTAD:	Tecnología Infor	Tecnología Informática					
CARRERA:	Ingeniería en Sistemas						
ALUMNO/A:	Rodrigo Pereiro						
SEDE:	Centro		LOCALIZACIÓN:	Centro			
ASIGNATURA:	Teleinform	Teleinformatica y Comunicaciones					
CURSO:	3 Año		TURNO:	OnLine			
PROFESOR:	Ing. Semeria		FECHA:	16 Mayo 2023			
TIEMPO DE RESOLUCIÓN:		De 2 de Junio 15hs A 3 de Junio 15hs	EXAMEN Parcial	,	1ro		
MODALIDAD DE RESOLUCIÓN:			Escrito / Inividual				
RESULTADOS DE	APRENDIZAJE:		L				

Envie su examen en un único PDF ( NO ZIP )

Suba su examen a ULTRA

No espere a último minuto para enviar el examen ya que pueden existir imprevistos

Responda SOLO lo preguntado

Se aprueba con el 60% del puntaje máxino, en ese caso con nota de 4( cuatro)

1.	Sea un paquete IP del mayor tamaño posible que se envía del host A al host B mediante el
	link 1 hasta el router R y de alli con el link 2 hasta el destino en el host HB

$$HA - - - - MTU = 1500 - - - R - - - MTU = 640 - - - HB$$

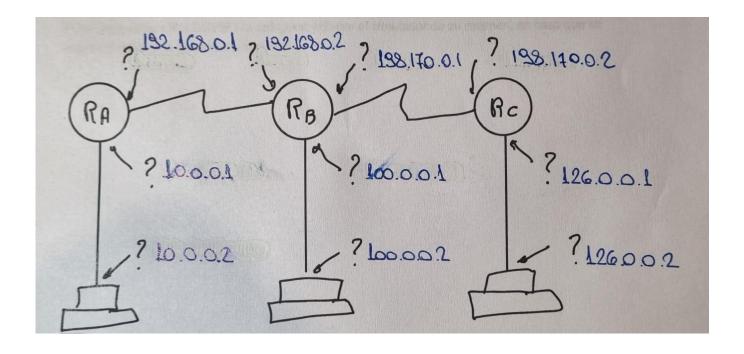
Indique para cada link

- Cantidad de paquetes en el link 1:
- ? Cantidad de paqutes en el link 2:
- Tamaño del último paquete del link 1 ( solo datos ):
- Tamaño del último paquete del link 2 ( solo datos ):
- 2 Offset del tercer paquete del link 1:
- ② Offset del tercer paquete del link 2:

Deje indicado el desarrollo realizado:

Edercicio N	1		
Detacrama	65516 1480	ru-Header	=1500-20 =1480
44 Pacuetes 1 Pacuete 45 Pacuete	del Resto es Totales		
Datacrama	3-1) * (1500-20)		2960 40-20 = 620
Header	20 1400 690 = 240 2		40-20 2020
44 720	pavete de 1500 o vetes 1500 x3 = vete 416 =		nvia 3 Paquates de d
DEF set:	es totales = (3-1) * (640-2		= 1240
2 Cantidad de ?	soudes en el linke = 1 no Pacude linke = 1 no Pacude linke = 1	336 butes 5.	oreset 3et Paouate link 0860 Paouate link 1240

2. Anote las direcciones IP en los puntos indicados. Las redes Ethernet son Clase B y las redes Seriales que interconectan los ruteadores son clase C



3. Un paquete IP pasa de una red A a otra red idéntica B.

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3. Cambia en algo el Header del paquete IP al pasar de la red A a la B? Explique

Unicamente se modifica su tiempo devida.

Al cambiar de una red a otra no se modifica

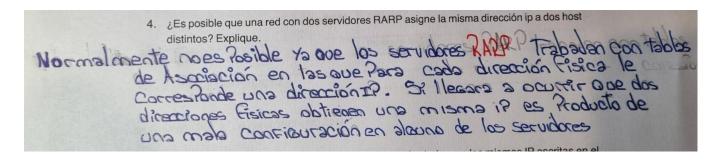
el resto del header.

Cambia en algo el Header Ethernet sobre el que se encapsula el paquete IP?

Al Cambiar de red el Router Crea un nuevo header modificando las direcciones Fisicas Para enviar el Rouete.

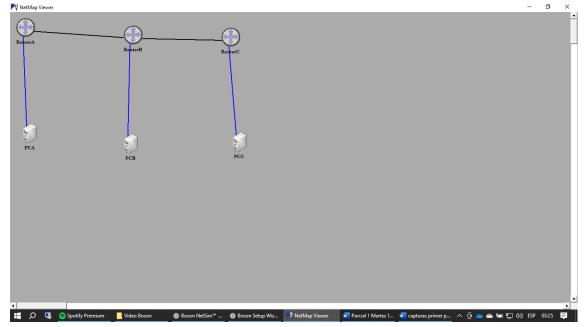
Cambia las macorisen y dedino el CRC, y el tiro.

4. ¿Es posible que una red con dos servidores RARP asigne la misma dirección ip a dos host distintos?



- 5. Arme en el simulador de su elección la configuración dada, con las mismas IP escritas en el punto 2.
  - a. Captura de la pantalla completa del modelo del simulador
  - b. Captura donde se vean los ping exitosos entre todas las redes

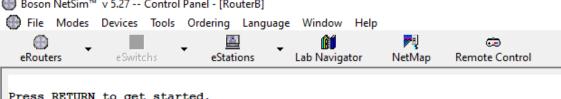
Además guarde ( NO ENVIE ) el soft generado por el simulador de su examen, en caso que se requiera para una posterior parte oral.



● File Modes Devices Tools Ordering Language Window Help **=** eSwitchs Lab Navigator NetMap Remote Control eRouters eStations Press RETURN to get started. RouterA> RouterA>ping 192.168.0.2 Type escape sequence to abort. Sending 5, 100-byte ICMP Echos to 192.168.0.2, timeout is 2 seconds: Success rate is 100 percent (5/5), round-trip min/avg/max = 1/2/4 ms RouterA>ping 10.0.0.2 Type escape sequence to abort. Sending 5, 100-byte ICMP Echos to 10.0.0.2, timeout is 2 seconds: .... Success rate is 100 percent (5/5), round-trip min/avg/max = 1/2/4 ms RouterA>ping 100.0.0.2 Type escape sequence to abort. Sending 5, 100-byte ICMP Echos to 100.0.0.2, timeout is 2 seconds: !!!!! Success rate is 100 percent (5/5), round-trip min/avg/max = 1/2/4 ms RouterA>ping 198.170.0.2 Type escape sequence to abort. Sending 5, 100-byte ICMP Echos to 198.170.0.2, timeout is 2 seconds: 11111 Success rate is 100 percent (5/5), round-trip min/avg/max = 1/2/4 ms RouterA>ping 126.0.0.2 Type escape sequence to abort. Sending 5, 100-byte ICMP Echos to 126.0.0.2, timeout is 2 seconds: Success rate is 100 percent (5/5), round-trip min/avg/max = 1/2/4 ms

Boson NetSim™ v 5.27 -- Control Panel - [RouterA]

RouterA>



Press RETURN to get started.

RouterB>

RouterB>ping 100.0.0.2

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 100.0.0.2, timeout is 2 seconds:

Success rate is 100 percent (5/5), round-trip min/avg/max = 1/2/4 ms RouterB>ping 192.168.0.1

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 192.168.0.1, timeout is 2 seconds:

Success rate is 100 percent (5/5), round-trip min/avg/max = 1/2/4 ms RouterB>ping 10.0.0.2

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 10.0.0.2, timeout is 2 seconds:

Success rate is 100 percent (5/5), round-trip min/avg/max = 1/2/4 ms RouterB>ping 198.170.0.2

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 198.170.0.2, timeout is 2 seconds: !!!!!

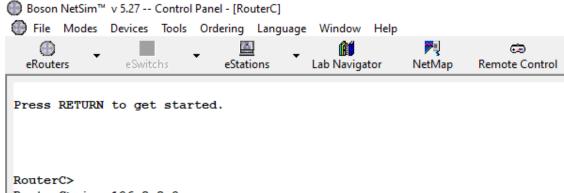
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Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 126.0.0.2, timeout is 2 seconds:

Success rate is 100 percent (5/5), round-trip min/avg/max = 1/2/4 ms

RouterB>



RouterC>ping 126.0.0.2

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 126.0.0.2, timeout is 2 seconds:

Success rate is 100 percent (5/5), round-trip min/avg/max = 1/2/4 ms RouterC>ping 198.170.0.1

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 198.170.0.1, timeout is 2 seconds: !!!!!

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Type escape sequence to abort.

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RouterC>

```
Boson BOSS 5.0 IP Configuration
    Ethernet adapter Local Area Connection:
       Connection-specific DNS Suffix . : boson.com
        IP Address. . . . . . . . . . . : 10.0.0.2
        Subnet Mask . . . . . . . . . . : 255.0.0.0
        Default Gateway . . . . . . . . : 10.0.0.1
You can also use winipcfg to configure the IP Address
C:>ping 100.0.0.2
Pinging 100.0.0.2 with 32 bytes of data:
Reply from 100.0.0.2: bytes=32 time=60ms TTL=241
Ping statistics for 100.0.0.2:
                                 Packets: Sent = 5, Received = 5, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
     Minimum = 50ms, Maximum = 60ms, Average = 55ms
C:>ping 126.0.0.2
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