

Q

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9,457

minutes

9 out of 9

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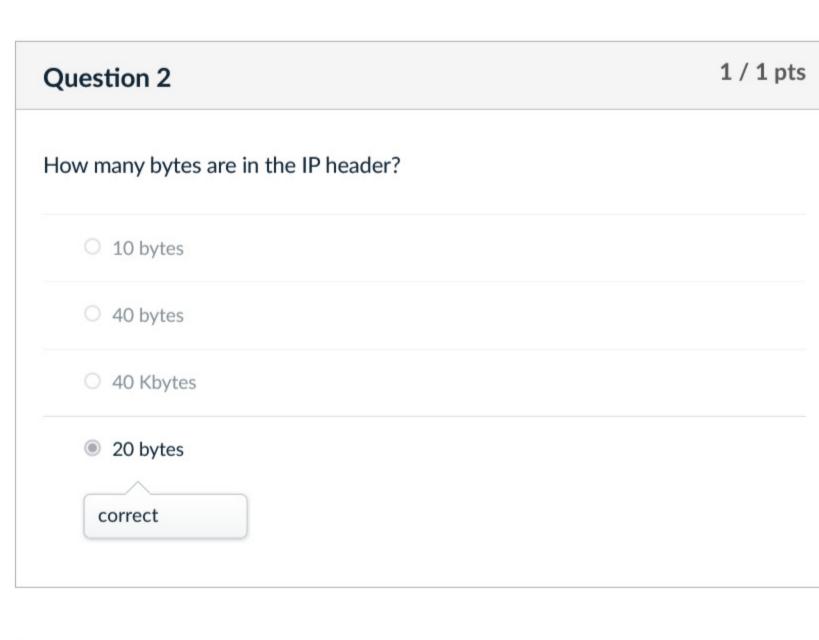
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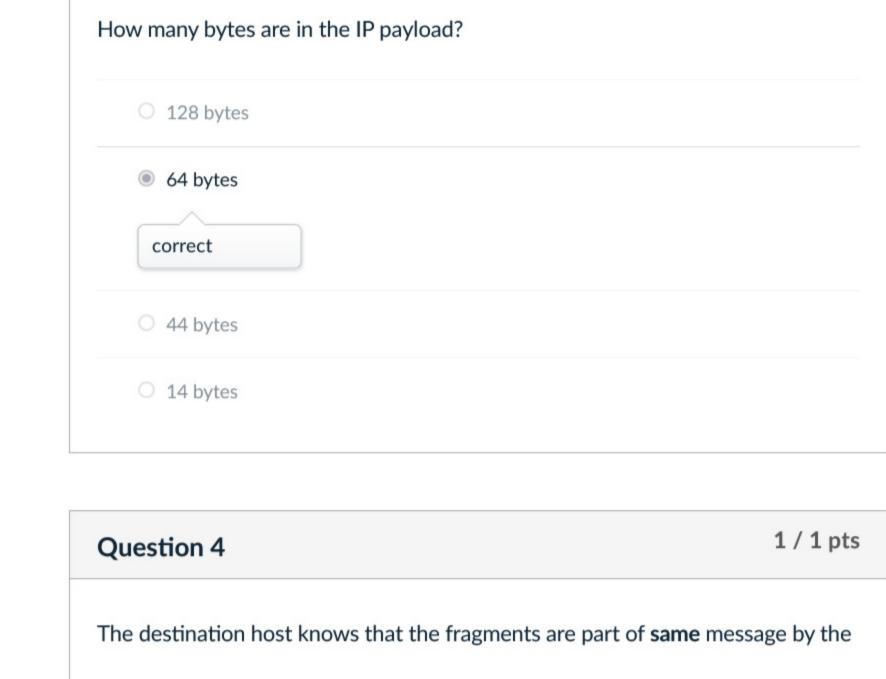
7

Piazza



Question 3

1 / 1 pts



IP packet Identification field is the same

Fragment offset is greater than 0

More Fragments flag is set

Don't fragment flag is not set

destination address

flags

total length

fragment offset

source address

version

correct

Question 5	1 / 1 pts
Next, sort the traced packets according to IP source a Source column header; a small downward pointing are the word Source. If the arrow points up, click on the Select the first ICMP Echo Request message sent by the Internet Protocol portion in the "details of selection in the "listing of captured packets" window, you should ICMP messages (perhaps with additional interspense protocols running on your computer) below this first to move through the ICMP messages sent by your computer.	row should appear next to source column header again. your computer, and expanded packet header" window. Ild see all of the subsequent packets sent by other ICMP. Use the down arrow
Which header fields *always* change from one datag	ram to the next in the
series of *unfragmented* ICMP echo request messag	es in the trace file?
series of *unfragmented* ICMP echo request messag (choose ALL that apply)	es in the trace file?
	es in the trace file?
(choose ALL that apply)	es in the trace file?
(choose ALL that apply) identification	es in the trace file?
(choose ALL that apply) identification header length	ges in the trace file?

```
1 / 1 pts
Question 6
2. Fragmentation
Sort the packet listing according to time again by clicking on the Time column.
 1. Find the first ICMP Echo Request message that was sent by your computer
   after you changed the Packet Size to be 2000. Has that message been
   fragmented across more than one IP datagram? [Note: if you find your packet
   has not been fragmented, you should download the zip file http://
   gaia.cs.umass.edu/wireshark-labs/wireshark-traces.zip 

→ and extract the ip-
   ethereal-trace-1 packet trace. If your computer has an Ethernet interface, a
   packet size of 2000 should cause fragmentation.[1]]
 2. Click on the link to the first fragment (each of the fragments is a link in
   wireshark), note that you will need to remove the icmp filter if you have it set
   (click the x to remove the filter). Wireshark will not display the individual
   fragments if you are filtering by icmp.
   What field in the IP header indicates that this is a datagram is the first
[1] The packets in the ip-ethereal-trace-1 trace file in http://gaia.cs.umass.edu/
wireshark-labs/wireshark-traces.zip 

→ are all less that 1500 bytes. This is
because the computer on which the trace was gathered has an Ethernet card
that limits the length of the maximum IP packet to 1500 bytes (40 bytes of TCP/
IP header data and 1460 bytes of upper-layer protocol payload). This 1500 byte
value is the standard maximum length allowed by Ethernet. If your trace
indicates a datagram longer 1500 bytes, and your computer is using an Ethernet
connection, then Wireshark is reporting the wrong IP datagram length; it will
likely also show only one large IP datagram rather than multiple smaller
datagrams.. This inconsistency in reported lengths is due to the interaction
between the Ethernet driver and the Wireshark software. We recommend that if
you have this inconsistency, that you perform this lab using the ip-ethereal-
trace-1 trace file.
```

```
    IP packet Identification field is 0

                                                                       1 / 1 pts
Question 7
What size, in bytes, were the largest IP packets sent (ie at what size did the
ICMP echo requests fragment?)
```

Don't fragment flag is not set

More Fragments flag is set

Fragment offset is 0

correct

Question 8		
	I (above IP) protocol is used to return a res	sponse to an ICMP ecl
request?		
ICMP		

```
1 / 1 pts
Question 9
In the CS labs, traceroute's UDP/ICMP traffic is blocked by the firewall. The
firewall responds with an ICMP message of Destination Unreachable
(Communication administratively filtered). What is the ICMP response code
number for this response?
 Correct - the response code 13 Communication administratively filtered is returned by
 ICMP from the firewall.
```