Lecture 12 (2/27) Self-Test

Due Mar 5 at 11:59pm **Points** 1 **Questions** 10
Available Feb 27 at 6pm - Jun 1 at 11:59pm 3 months **Time Limit** None

Score for this survey: **1** out of 1
Submitted Mar 2 at 12:27am
This attempt took 1 minute.

Question 1

Recall that the fragmentation offset is on units of 8 bytes. This means that packet sizes must always be multiples of 8 bytes.

- True
- False

ou Answered

False.

Question 2

Which of the following does IPv6 devote more header space to than IPv4?

ou Answered

- [x] Dealing with problems

ou Answered

- [x] Parsing the packet correctly
- [ ] Special Handling

Delivering the packet

Delivering the packet.

Question 3

Which of the following does IPv6 devote less header space to than IPv4?

Dealing with problems

Parsing the packet correctly

ou Answered

Indicating priority handling

Delivering the packet

Dealing with problems

and

Parsing packet correctly

Question 4

By the end-to-end principle, all routers should check for header corruption.

True

ou Answered

False

False

Question 5

Which field in the IPv4 header can be exploited to leak information about the network topology?

ou Answered

Destination address

ToS

TTL

Protocol identifier

TTL

Question 6

Consider the following forwarding entries:
000* -> port 1
001* -> port 2
010* -> port 1
011* -> port 1
100* -> port 3

101* -> port 1
110* -> port 1
111* -> port 1

Is there any destination address that overlaps with more than one of them? (update: note that "them" here refers to the prefixes)

- No
- Yes
- It depends

ou Answered

No.

Question 7

The following routing table is a valid representation of the forwarding entries from the previous question:

000* -> port 1
001* -> port 2
01* -> port 1
100* -> port 3
101* -> port 1
11* -> port 1

ou Answered

- True
- False

True

Question 8

Using LPM, the following routing table is a valid representation of the forwarding entries from the previous question.

*** -> port 1
001* -> port 2
100* -> port 3

ou Answered

- (•) True
- ( ) False

True

Question 9

A router has the following four entries in its routing table:
168.0.0.0/6-> port 1
160.0.0.0/4 -> port 2
192.0.0.0/3 -> port 3
default -> port 4

For the destination address 11000100 00101111 01000010 111010011 , indicate to which port the packet would be forwarded.

ou Answered

- port 1
- port 2
- port 3
- port 4

port 3

Question 10

For the same forwarding entries as in the previous question, to which port would a packet with the following destination address be forwarded:

10111000 10111101 00100000 100101111

ou Answered

- port 1
- port 2
- port 3
- port 4

port 4

Survey Score: **1** out of 1