

WiFi Questions

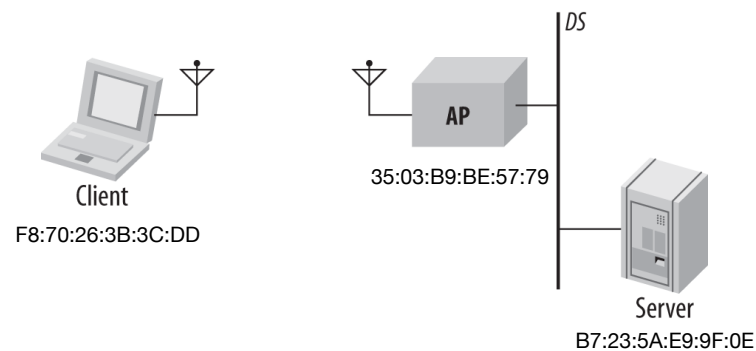
March 1, 2021

Question	Points	Score
1	3	
2	1	
3	2	
4	3	
5	1	
6	1	
7	3	
8	3	
9	3	
10	1	
11	1	
12	1	
13	1	
14	2	
15	1	
Total:	27	

5. (1 point) How does interframe spacing allow for priority between WiFi frames?

6. (1 point) What does it mean when the From DS bit is set to 1 and the To DS bit is set to 0?

7. (3 points) The client laptop is making a HTTP request to the server. Given the MAC addresses shown in the figure below, how would address 1, 2, and 3 fields be set for an 802.11 frame containing the HTTP request?



8. (3 points) Give the benefits of active and passive scanning. Why would you prefer one over the other?

9. (3 points) List the three threats 802.11 tries to protect against.

10. (1 point) How does WPA2 protect against replay attacks?

11. (1 point) Why was having an Initialization Vector (IV) of 24 bits a problem for WEP?

12. (1 point) Why is CRC-32 not a good fit for WEP (or any security protocol for that matter)?

13. (1 point) Why does WPA2 use temporal keys?

14. (2 points) List two weaknesses of WPA2.

15. (1 point) What service does Diffie-Hellman provide?