Question **2**Incorrect

Mark 0.00 out of 0.33

<u>Dashboard</u> / <u>My courses</u> / <u>S1-23 MERGEDCS</u> / General / <u>Quiz 2</u>

Started on	Thursday, 23 November 2023, 6:53 PM		
State	Finished		
Completed on	Thursday, 23 November 2023, 7:01 PM		
Time taken	8 mins 56 secs		
Grade	3.35 out of 5.00 (67 %)		
Question 1			
Correct			
Mark 0.33 out of 0.33			
What does the accept() system call in the server program specifically do?			
a. Establishe	s a connection		
b. Sends a co	onnection request		
c. Fetches a	connection from the queue 🗸		
d. Initiates th	ne data transfer		
The correct answer	is: Fetches a connection from the queue		

In a telnet session where A types commands and B executes them, which side does the attacker typically target in a TCP session hijacking

- a. Both side A and side B simultaneously
- b. Side A, as it initiates the commands
- o. Neither side, as telnet sessions are inherently secure
- d. Side B, as it executes the commands X

The correct answer is: Both side A and side B simultaneously

20/23, 11:1	3 PM Quiz 2: Attempt review
Question 3	
Incorrect	
Mark 0.00 ou	ut of 0.33
Which s	tatement accurately describes the relationship between SSL/TLS connections and sessions?
a.	Sessions can consist of multiple connections and have enduring security parameters. ×
O b.	Connections are created by the SSL/TLS Handshaking Protocol.
O c.	The SSL/TLS Heartbeat Extension facilitates secure data transfer between two endpoints.
O d.	A session is a one-time transport of information between two nodes.
The corr	rect answer is: Connections are created by the SSL/TLS Handshaking Protocol.
Question 4	
Correct	
Mark 0.33 ou	ut of 0.33
In the co	ontext of TCP session hijacking, what crucial factors allow an attacker to inject data into an existing TCP connection?
○ a.	Matching the destination IP and port numbers
b.	Generating packets with correct sequence numbers and matching four-tuple information ✓
O c.	Creating packets with matching source and destination IP addresses
O d.	Ensuring the payload size of the injected packet is identical to the original data packets
The corr	rect answer is: Generating packets with correct sequence numbers and matching four-tuple information
Question 5	
Incorrect	
Mark 0.00 ou	ut of 0.33
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Od. 6

The correct answer is: 6

/20/23, 11:1:	3 PM Quiz 2: Attempt review		
Question 6			
Incorrect			
Mark 0.00 ou	ut of 0.33		
What dis	stinguishes the TCP reset packet in contrast to the FIN packet in the context of terminating connections?		
	The FIN packet involves a sequence number that must match the receiver's expectation, unlike the reset packet that disregards X		
	sequence number verification.		
	The FIN packet is used for emergency situations, while the reset packet is a standard termination method.		
	 c. The FIN packet triggers an immediate connection termination without acknowledgement, whereas the reset packet requires acknowledgment before termination. 		
O d.	The FIN packet initiates a one-way termination, while the reset packet terminates communication instantly in both directions.		
	ect answer is: The FIN packet initiates a one-way termination, while the reset packet terminates communication instantly in both		
direction	ns.		
Question 7			
Correct			
Mark 0.33 ou	ut of 0.33		
Which so	cenario accurately depicts the potential impact of a successful TCP session hijacking attack?		
a.	Compromising the integrity of the ongoing communication between A and B \checkmark		
O b.	Redirecting the communication flow to a different server		
O c.	Tampering with the encryption keys in the communication channel		
O d.	Triggering a denial-of-service attack on the targeted system		
The corr	rect answer is: Compromising the integrity of the ongoing communication between A and B		
Question 8			
Correct			
Mark 0.33 ou	ut of 0.33		
0.55 00			
Which o	ne of the following protocols is NOT used to resolve one form of address to another one?		
○ a.	DNS		
O b.	RARP		
○ c.	ARP		
d.	DHCP ✓		

The correct answer is: DHCP

0/23, 11:	13 PM Quiz 2: Attempt review
Question 9	
Correct	
Mark 0.38	out of 0.38
Why is	salting beneficial in password hashing?
○ a.	It minimizes the computational load on the hashing algorithm
O b.	It simplifies the hashing process for longer passwords
O c.	It reduces the number of iterations required for hashing
d.	It prevents dictionary attacks and rainbow table usage ✓
The cor	rect answer is: It prevents dictionary attacks and rainbow table usage
Question 1	0
Mark 0.33	out of 0.33
a. b.	Spoofing attacks against both the user machine and the local DNS server have equal damaging effects on the DNS query process. Spoofing attacks against the root server significantly disrupt the DNS query process compared to other attack points. Spoofing attacks against the user machine are more damaging due to continuous requests sent from the affected machine.
d.The corserver's	rect answer is: Spoofing attacks against the local DNS server have a greater impact as the spoofed information is stored in the
Question 1	1
Mark 0.00	out of 0.33
	istinguishes the TCP reset packet in contrast to the FIN packet in the context of terminating connections?
О a.	The FIN packet triggers an immediate connection termination without acknowledgement, whereas the reset packet requires acknowledgment before termination.
b.	The FIN packet involves a sequence number that must match the receiver's expectation, unlike the reset packet that disregards × sequence number verification.
O c.	The FIN packet initiates a one-way termination, while the reset packet terminates communication instantly in both directions.

The correct answer is: The FIN packet initiates a one-way termination, while the reset packet terminates communication instantly in both directions.

 \bigcirc d. The FIN packet is used for emergency situations, while the reset packet is a standard termination method.

20/23, 11:	11:13 PM Quiz 2: Attemption of the Control of the C	ot review
Question 1	on 12	
Correct	t	
Mark 0.33	0.33 out of 0.33	
In the T	the TCP server program, what purpose does the bind() system call serve?	
○ a.	a. Creates a socket	
b.	b. Sets destination information	
c.	c. Registers for a port number 🗸	
O d.	d. Sets up the listening state	
The cor	e correct answer is: Registers for a port number	
Question 1	on 13	
Correct	t	
Mark 0.33 o	0.33 out of 0.33	
What a	nat are the main responsibilities of the SSL/TLS Handshake Protocol?	
О а.	a. Encrypting the data sent between the client and server.	
O b.	b. Negotiating the transfer of certificates between the client and server.	
C.	c. Authenticating both the server and client, establishing cryptographic keys, and	defining security algorithms. 🗸
O d.	d. Maintaining the session ID and cipher suite for ongoing connections.	
The cor	e correct answer is: Authenticating both the server and client, establishing cryptogra	ohic keys, and defining security algorithms.
Question 1	on 14	
Correct	t	
Mark 0.33 o	0.33 out of 0.33	
The DN	e DNS maps the IP addresses to	
a.	a. An alphanumeric address	
b.	b. A hierarchy of domain names 🗸	
O c.	c. A hexadecimal address	
d.	d. A binary address as strings	

The correct answer is: A hierarchy of domain names

5
out of 0.33
undamental concept is exemplified by a zero-knowledge proof?
Authentication through a chain of trust
Complete encryption of sensitive data
Verification of identity without revealing specific information ✓
Demonstration of absolute secrecy
rrect answer is: Verification of identity without revealing specific information
iz 1
to

Assignment 1-Packet Sniffing and Spoofing ►