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<https://www.bankname.com> to do an online banking transaction. How can this customer make sure the bank is authentic and someone else is not pretending to be the bank?

- A. Choosing a symmetric session key
- B. Sending a Client Hello
- C. Receiving a Server Hello
- D. Verifying that the public key belongs to the bank through the bank's digital certificate

The digital certificate is used to authenticate a public key. It is used to link a public key to its owner.

Question 6

Online banking transactions are almost identical every time and the data being transported back and forth is almost always the same. This makes the transaction very susceptible to attacks. How can a bank customer make sure that each banking session is different to mitigate an attack on the communication with the bank?

- A. By using a symmetric session key
- B. By receiving a Server Hello
- C. By using the bank's digital certificate
- D. By sending a Client Hello
- E. By using an initialization vector (IV)

IV is used to prevent the easy linear analysis of the client's online communication with the bank. IV inputs randomization between different online banking sessions. Question 7

How can a bank customer make sure that each banking session is different to mitigate an attack on the communication with the bank?

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WGU Network-and-Security-Foundation Sample Questions (Q34-Q39):

NEW QUESTION # 34

An organization does not have controls in place to limit employee access to sensitive customer data. What is a component of the CIA triad that is violated?

- A. Integrity
- B. Interpretation
- C. Availability
- D. Confidentiality

Answer: D

Explanation:

Confidentiality ensures that only authorized users have access to sensitive information. Without proper access controls, employees may be able to view or modify sensitive data without proper authorization, leading to a confidentiality breach.

* Integrity involves protecting data from unauthorized modifications.

* Availability ensures that systems remain operational.

* Interpretation is not part of the CIA triad.

NEW QUESTION # 35

What is the TCP/IP layer that includes the User Datagram Protocol (UDP)?

- A. Transport
- B. Physical or network access
- C. Application
- D. Network or internet

Answer: A

Explanation:

The Transport layer in the TCP/IP model includes the User Datagram Protocol (UDP) and Transmission Control Protocol (TCP). UDP is a connectionless protocol used for fast, lightweight data transmission where reliability is not the priority (e.g., video streaming, VoIP).

* Application layer handles end-user services but not transport mechanisms.

* Network or internet layer deals with IP addressing and routing, not UDP.

* Physical or network access layer concerns hardware transmission methods.

NEW QUESTION # 36

A person is troubleshooting a network issue and needs to see a list of all active network connections. Which Linux command should be used?

- A. nslookup
- B. netstat
- C. dig
- D. ifconfig

Answer: B

Explanation:

The `netstat` command in Linux displays active network connections, listening ports, and network statistics. It is useful for diagnosing network issues and identifying open connections.

* `nslookup` is for DNS queries.

* `dig` provides DNS information, not network connection status.

* `ifconfig` shows network interface details but does not list active connections.

NEW QUESTION # 37

A company is developing a data protection methodology in order to improve data protection measures.

What is a strategy that should be used?

- A. Increase wireless access point range
- B. Use a variable network topology
- C. Implement wired equivalent privacy (WEP)
- **D. Enhance physical resource security**

Answer: D

Explanation:

Enhancing physical resource security ensures that servers, networking devices, and data storage facilities are protected from unauthorized physical access, theft, or tampering. This includes measures like biometric authentication, surveillance, and restricted access zones.

* Using a variable network topology does not directly protect data.

* Increasing wireless access point range may improve connectivity but does not enhance security.

* WEP is weak and should not be used for data protection.

NEW QUESTION # 38

Which scenario demonstrates a violation of the integrity component of the CIA triad?

- A. A company has an unacceptably high network downtime during high-traffic time periods.
- B. A network's domain name system server has not been fully operational for one month.
- C. A company stores sensitive customer data without access controls.
- **D. An employee accidentally modified a customer account incorrectly.**

Answer: D

Explanation:

A violation of integrity occurs when data is modified incorrectly, whether intentionally or by accident. In this case, an employee modifying a customer account incorrectly demonstrates a breach of data integrity.

* A and C relate to availability, as they describe system downtime.

* D relates to confidentiality, as it describes improper data protection.

NEW QUESTION # 39

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