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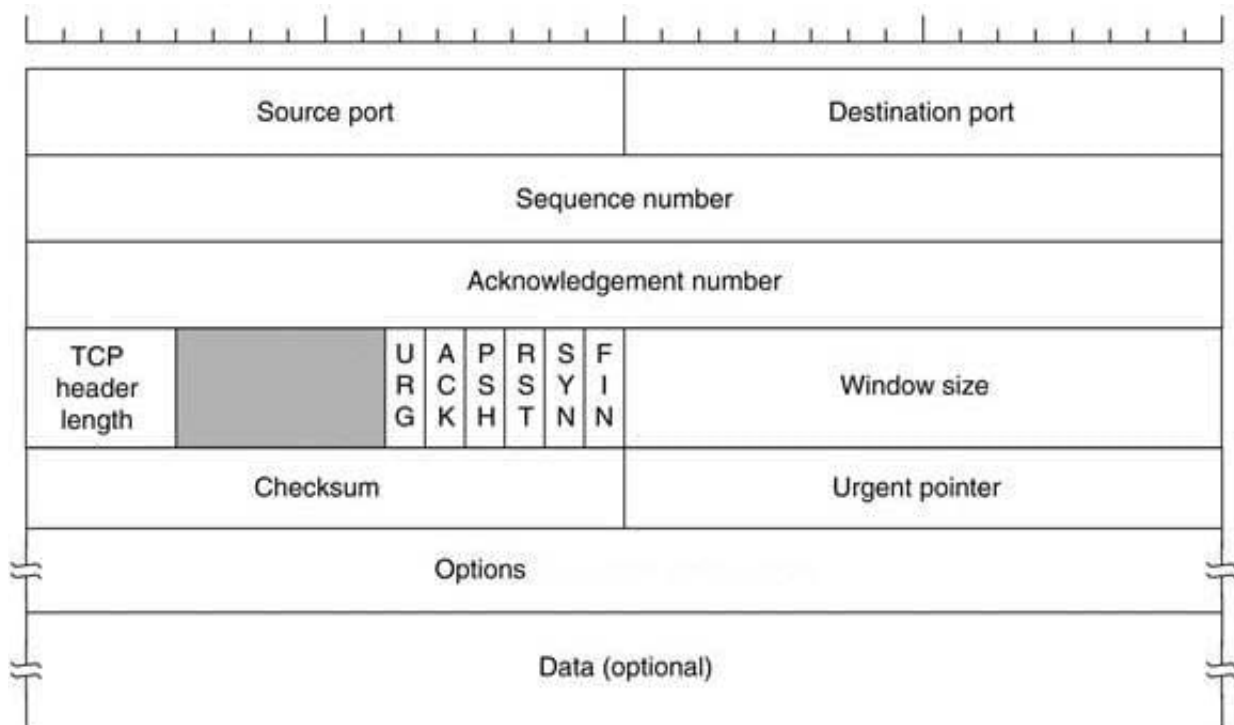
QUESTION 1

Transmission control protocol accepts data from a data stream, divides it into chunks, and adds a TCP header creating a TCP segment.

The TCP header is the first 24 bytes of a TCP segment that contains the parameters and state of an end-to-end TCP socket. It is used to track the state of communication between two TCP endpoints.

For a connection to be established or initialized, the two hosts must synchronize. The synchronization requires each side to send its own initial sequence number and to receive a confirmation of exchange in an acknowledgment (ACK) from the other side

The below diagram shows the TCP Header format: How many bits is a acknowledgement number?



- A. 16 bits
- B. 32 bits
- C. 8 bits
- D. 24 bits

Correct Answer: B

Reference: http://en.wikipedia.org/wiki/Transmission_Control_Protocol (acknowledgement number)

QUESTION 2

Today, most organizations would agree that their most valuable IT assets reside within applications and databases.

Most would probably also agree that these are areas that have the weakest levels of security, thus making them the prime target for malicious activity from system administrators, DBAs, contractors, consultants, partners, and customers.



Which of the following flaws refers to an application using poorly written encryption code to securely encrypt and store sensitive data in the database and allows an attacker to steal or modify weakly protected data such as credit card numbers, SSNs, and other authentication credentials?

- A. SSI injection attack
- B. Insecure cryptographic storage attack
- C. Hidden field manipulation attack
- D. Man-in-the-Middle attack

Correct Answer: B

QUESTION 3

Application security assessment is one of the activity that a pen tester performs in the attack phase. It is designed to identify and assess threats to the organization through bespoke, proprietary applications or systems. It checks the application so that a malicious user cannot access, modify, or destroy data or services within the system.



Identify the type of application security assessment which analyzes the application-based code to confirm that it does not contain any sensitive information that an attacker might use to exploit an application.

- A. Web Penetration Testing
- B. Functionality Testing
- C. Authorization Testing
- D. Source Code Review

Correct Answer: D

QUESTION 4

Besides the policy implications of chat rooms, Internet Relay Chat (IRC) is frequented by attackers and used as a command and control mechanism. IRC normally uses which one of the following TCP ports?

- A. 6566 TCP port
- B. 6771 TCP port
- C. 6667 TCP port
- D. 6257 TCP port

Correct Answer: C

QUESTION 5

How many possible sequence number combinations are there in TCP/IP protocol?

- A. 320 billion

B. 32 million

C. 4 billion

D. 1 billion

Correct Answer: C

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