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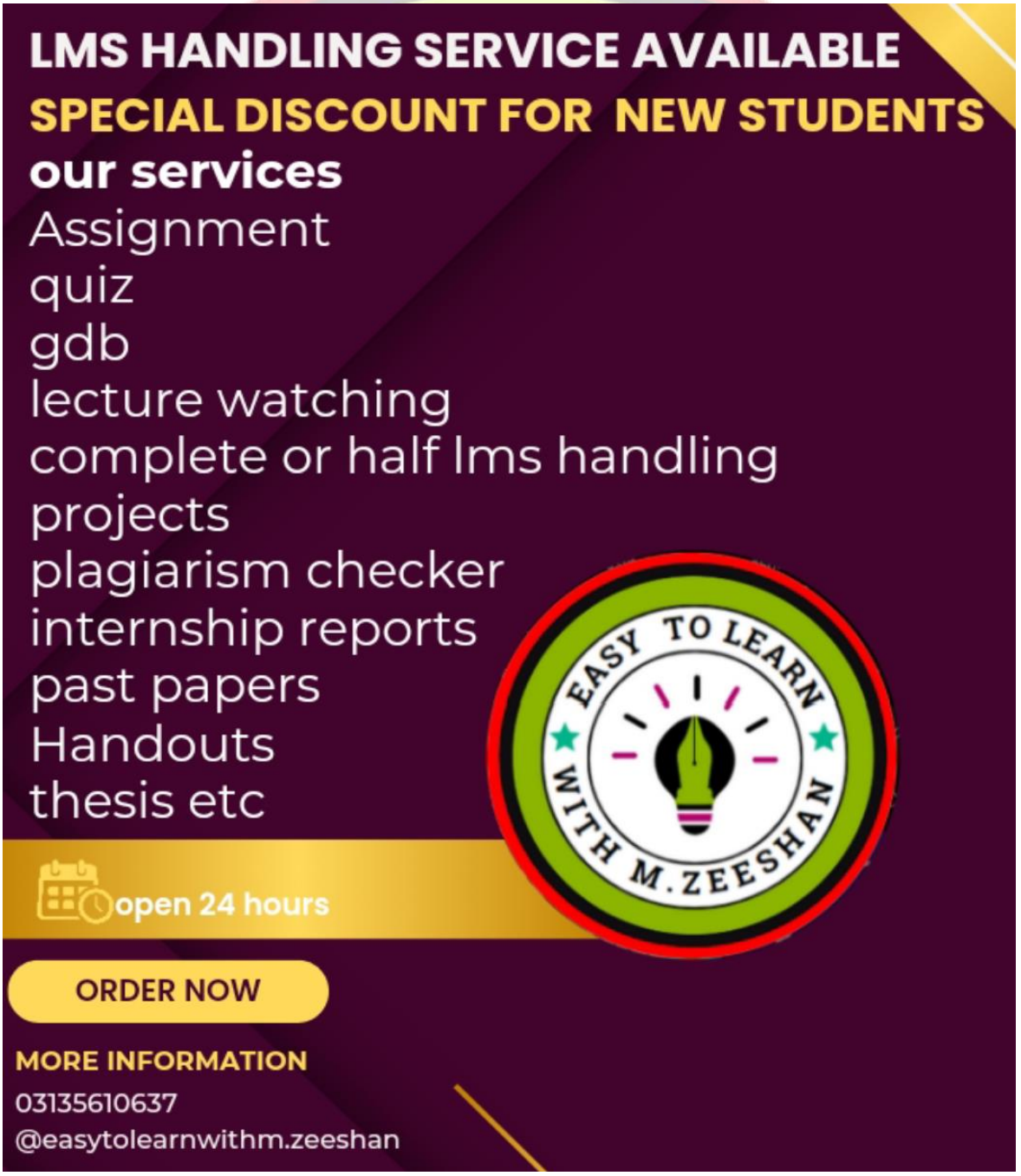

CS206 FINAL TERM QUIZ 4

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Which of the following indicates that an encrypted connection is being closed?

Select the correct option

A TLS handshake initiation

A DNS query response

A TCP SYN packet

A TLS Encrypted Alert

The correct answer is **D: TLS Encrypted Alert**.

Explanation: A TLS Encrypted Alert is sent when a TLS connection is being closed, indicating the termination of the encrypted session. This alert contains information about the reason for closure, such as a graceful shutdown or error. It is part of the TLS protocol for securely closing the connection.

In Wireshark, what symptom indicates the application has failed at the server side?

Select the correct option

The server closes the connection immediatelyThe client does not receive any acknowledgment

The client sends a RST/ACK after almost 120 seconds

The TCP handshake fails to complete

The correct answer is **C: The client sends a RST/ACK after almost 120 seconds**.

Explanation: When the client sends a RST/ACK (Reset Acknowledgment) after a long delay, such as 120 seconds, it indicates that the server has not responded within a reasonable time frame, and the client is forcibly closing the connection. This often points to a server-side failure, where the server is either unresponsive or unable to handle the client's request.

What type of delay is likely not felt by the end user and can be safely ignored in trace files?

Select the correct option

Delay before a TCP SYN packet

Delay before a DNS query

Delay before a TCP RST packet

Delay before an HTTP GET request

The correct answer is **B: Delay before a DNS query**.

Explanation: The delay before a DNS query is typically a minor delay that occurs when resolving a domain name to an IP address. This delay is usually not significant enough to be noticeable by the end user, as DNS resolution is generally quick and does not impact the overall performance of the application. Therefore, it can often be safely ignored in trace files when analyzing network performance.

What does a client use to determine the round trip time between hosts during the TCP handshake?

Select the correct option

The time between the SYN/ACK and FIN packets

The time between the FIN and ACK packets

The time between the SYN/ACK and PSH packets

The time between the SYN and SYN/ACK packets

The correct answer is **D: The time between the SYN and SYN/ACK packets**.

Explanation: During the TCP handshake, the client sends a SYN packet to initiate the connection, and the server responds with a SYN/ACK packet. The time it takes for the SYN packet to reach the server and the SYN/ACK packet to return to the client gives an estimate of the round trip time (RTT) between the hosts. This RTT is crucial for understanding network latency and optimizing data transfer.

In the context of a TCP handshake, SYN/ACK packet is used for _____.Select the correct option

To request retransmission of lost packets

To acknowledge receipt of the SYN packet

To terminate the connection

To initiate data transfer

The correct answer is **B: To acknowledge receipt of the SYN packet**.

Explanation: In the TCP handshake, when a client sends a SYN packet to initiate the connection, the server responds with a SYN/ACK packet. The SYN/ACK packet serves to acknowledge the receipt of the client's SYN packet and also to indicate that the server is willing to establish a connection. This is part of the three-way handshake process in TCP.

Total Marks: 1Which file will be used to detect delays in UDP Conversations in Wire shark?

Select the correct optiontr-winsize.pcapngtr-general.pcapngtr-voip-extensions.pcapngNone of given

The correct answer is **C: tr-voip-extensions.pcapng**.

Explanation: In Wireshark, the `tr-voip-extensions.pcapng` file is commonly used to detect delays in UDP conversations, particularly in Voice over IP (VoIP) traffic. This file

contains specific information and metrics related to the timing and delay of UDP packets used in real-time communications like VoIP. It helps analyze delays, jitter, and packet loss, which are crucial for diagnosing performance issues in UDP-based communication.

In the context of Wireshark, which trace file should be opened to analyze delays before DNS queries?

Select the correct optiontr-tcphandshake.pcapngtr-dnsqueries.pcapngtr-delays.pcapngtr-serverresponse.pcapng

The correct answer is **B: tr-dnsqueries.pcapng**.

Explanation: The `tr-dnsqueries.pcapng` trace file is specifically used to analyze DNS queries and responses. It allows you to focus on delays associated with DNS queries, helping identify any issues in the DNS resolution process that could lead to performance problems or delays before the queries are sent or responded to.

DNS (domain name system) is a request/response protocol which employs _____. Select the correct option

UDP

FTP

SMTP

TCP

The correct answer is **UDP**.

Explanation: DNS (Domain Name System) typically uses UDP (User Datagram Protocol) for communication. UDP is chosen because it is faster and more efficient for the small query-response exchanges that DNS typically involves. DNS queries usually don't require the reliability and connection-oriented features of TCP, making UDP the ideal protocol for this purpose.

Which file will be used to plot UDP Delays in Wire shark. Select the correct optiontr-voip-extensions.pcapngtr-winsize.pcapngtr-queuing.pcapngtr-nameresolution.pcapng

The correct answer is **C: tr-queuing.pcapng**.

Explanation: The `tr-queuing.pcapng` file in Wireshark is used to analyze and plot delays related to UDP traffic. This file includes information that can help identify delays caused by queuing and other network conditions that may affect UDP performance. It is particularly useful for troubleshooting UDP-related latency and packet loss issues.

What is the purpose of a Transport Layer Security (TLS) Encrypted Alert?Select the correct optionTo request a new encryption keyTo authenticate the serverTo close an encrypted connectionTo start an encrypted connection

The correct answer is **C: To close an encrypted connection**.

Explanation: A TLS Encrypted Alert is used to signal the closure of an encrypted connection. It is part of the TLS protocol to indicate the end of the communication session, either due to a normal shutdown or an error. This alert helps ensure a secure and proper termination of the connection between the client and server.