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(1)

Assignment No. 12 (C4)

DOV :- 03-12-2021

Title :- Study of SSL

Problem statement :-

To study the SSL protocol by rapturing the packets using Wireshark tool while visiting any ssh secured website (banking, e-commerce etc.)

Pre-requisites :-

knowledge of protocols, Wireshark :

Objectives :-

(i) To learn use of SSL-protocol-
(ii) To understand importance of SSL protocol.

Learning Outcomes :-

After completion of the assignment, students will be able to understand the use and importance of SSL protocol.

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THEORY :-

SSL stands for Secure Socket Layer. It is an encryption method used to prevent anyone other than webserver and the user from eavesdropping on the transmission of sensitive personal or financial information.

This encryption can secure a connection between website and a browser or an email host and client. Integrating SSL into webpage improves security by reducing risk of identity theft.

SSL certificates :-

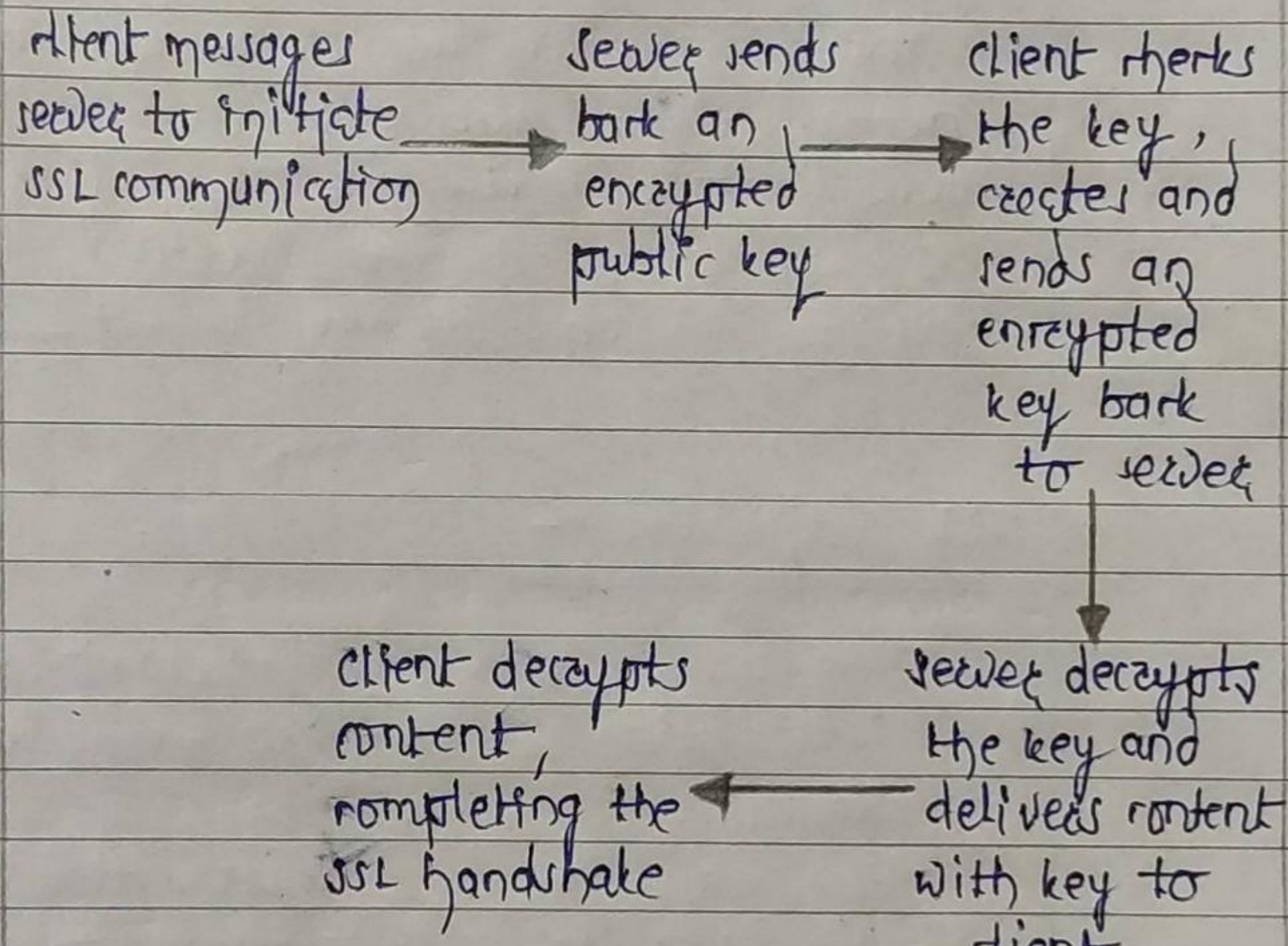
They are an essential component of the data encryption process that makes internet transactions secure.

They are digital passports that provide authentication to protect the confidentiality and integrity of website communication with browsers.

The SSL certificate's job is to initiate secure sessions with user's browser via the secure socket layer protocol. This secure connection cannot be established without SSL certificate, which digitally connects company information to a cryptographic key. Any organisation,

that engages in e-commerce must have a SSL certificate on it's webserver to ensure safety of customer and company information as well as the security of financial transactions.

Working :-



CONCLUSION :-

Successfully studied the SSL protocol with the help of Wireshark.

OUTPUT :-