STEGANOGRAPHY

Steganography Explained

- Steganography is the art of hiding secret information in plain-text or in clear-sight.
- Steganographic tools can easily embed secret files into images, movies, audio files or other file formats.
- The word steganography comes from the Greek word "steganos" which means "hidden" and "graph" or "graphia" which means writing.

The purpose of steganography is to hide even the mere existence of the message that is being sent.

Steps:

- 1. The secret file is encrypted.
- The encrypted secret file is embedded into a cover file according to a steganographic algorithm. The cover file that contains the secret message or the embedded file is called stego file.
- 3. The stego file is sent normally (in clear-text or encrypted) to the destination or is made public to be easily reached.

Steganography Use-Cases

- Sending encrypted messages without raising suspicion, such as in countries where free speech is suppressed.
- Digital watermark of the copyright holder.
- Hiding or transporting secret information (secret documents, Bitcoin private key etc).
- Transporting sensitive data from point A to point B such that the transfer of the data is unknown.

Steganography In Depth

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Color orange = RGB(255, 153, 0) or in binary:
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New color = RGB (255, 152, 1)

12.5%