

STEGANOGRAPHY

Introduction to steganography

2

- ▶ It's an obfuscation technique. Security through obscurity is the belief that a system of any sort can be secure so long as nobody outside of its implementation group is allowed to find out anything about its internal mechanisms.
- ▶ It's the practice of concealing a file, message, image, or video within another file, message, image, or video.



Steganography techniques

3

- ▶ **Network:**

Example using ICMP packets. You will need to fill in the data field with your data.

- ▶ **Image:**

Example embed a message or a file in the image.

- ▶ **Machine Identification Code / Watermarks:**

Example with printers “yellow dots”. Is a digital watermark which certain color laser printers and copiers leave on every single printed page. This technique allows identification of the device with which a document was printed and giving clues to the originator.

Steganography labs

4

1. Found the secret message in “Happy-dog_embed.jpg” file.
Stegosuite is recommended.
2. Create a file with “Steganography_1.jpg” and the secret message “Joconde” file. Give the SHA1.
Stegosuite is recommended.