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  - Episode Name: Steganography
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## Steganography

### Objectives:

- Define Steganography and explain how it is used for malicious purposes
  - List and define the different Steganographic classifications
  - Explain common Steganography types and tools
  - Explain the purpose, process, and challenges of Steganalysis
  - List and define common Steganalysis methods and tools
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- Today we're taking a look into Steganography and Steganalysis. It seems like this is probably a topic that many are unfamiliar with and they are related, but different, so can we start with an explanation of what Steganography is?

- Steganography is the hiding of data in the unused space of a file

- Images
- Audio files
- Video files
- Text files
- These are called 'Cover Medium'

- So do you just somehow open a jpeg and start typing your data into it, or how does someone hide data in this way? I assume there are tools to do this?

- stegsnow (ASCII text files)

- `stegsnow -C -p password -m "secret message" infile.txt outfile.txt`

- steghide (image files)

- `steghide embed -ef exfil.txt -cf hacker.jpg -sf hacker2.jpg`

- Now that we're aware of Steganography, let's talk about Steganalysis.

- Steganalysis is discovering and uncovering of steg data

- Tools
  - Steghunt
  - zsteg (on Mint)
    - `zsteg cats.img`