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Digital Forensics

Sneaky_Sneaker

Something is sneaking behind the sneakers.

sneaky_sneaker.jpg

binwalk -e sneaky_sneaker.jpg

DECIMAL HEXADECIMAL DESCRIPTION

0 0x0 JPEG image data, JFIF standard 1.01

135997 0x2133D Zip archive data, at least v2.0 to

extract, name:

h4ck3r_h1n7.wav

929498 OxE2EDA End of Zip archive, footer length: 22

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Isb audio stegano from each byte

ref: https://sumit-arora.medium.com/audio-steganography-the-art-of-hiding-secrets-within-earshot-part-2-of-2-c76b1be719b3

```
# Use wave package (native to Python) for reading the received audio file import wave song = wave.open("h4ck3r_h1n7.wav", mode='rb') # Convert audio to byte array frame_bytes = bytearray(list(song.readframes(song.getnframes()))) # Extract the LSB of each byte extracted = [frame_bytes[i] & 1 for i in range(len(frame_bytes))] # Convert byte array back to string string = "".join(chr(int("".join(map(str,extracted[i:i+8])),2)) for i in range(0,len(extill # Cut off at the filler characters decoded = string.split("###")[0] # Print the extracted text print("Sucessfully decoded: "+decoded) song.close()
```

ictf{wh15p3r5_0f_4_gh05t}

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