

CTF Write-up — Jingle Bells

Category: Crypto / Audio

Points: 25

Author: p3f0rm3r ({x0x} Team)

Description

The challenge provides a WAV audio file that does not sound like Jingle Bells. The goal is to identify and decode the hidden message.

Solution

Step 1 — Audio Analysis

The file was opened in Sonic Visualiser and a spectrogram layer was added. This revealed short signals resembling Morse code.

Step 2 — Morse Code Decoding

The audio was uploaded to an online Morse decoder, which produced a hexadecimal string.

61 74 63 63 74 66 5F 64 6F 74 64 61 73 68 69 6E 67 74 68 72 6F 75 67 68 74 68 65 73 6E 6F 77

Step 3 — Hex Decoding

CyberChef with the 'From Hex' operation was used to decode the message.

Flag

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Conclusion

This challenge combines audio analysis, Morse decoding, and hexadecimal decoding.