

unseen

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WriteUp来源

<https://dunsp4rce.github.io/csictf-2020/forensics/2020/07/22/unseen.html>

by vishalananth

题目描述

With his dying breath, Prof. Ter Stegen hands us an image and a recording. He tells us that the image is least significant, but is a numerical key to the recording and the recording hides the answer. It may seem as though it's all for nothing, but trust me it's not.

<https://mega.nz/file/cmhnAQDB#9dbHojKcxzliZ5NAYtGBN7N8WHCqtoU7kKa5yuJzG0w>

<https://mega.nz/file/h75UCIRJ#YGF3yCViKSQpwogmMgkdPQ1DXMez9Sv2DZBUWvCueSY>

题目考点

解题思路

We open the Image using Stegsolve.jar and we get the numerical key in RGB Pane 0

□

So using this code we can use steghide to get hidden data from the wav file with

```
1 steghide --extract -cf morse.wav -p 42845193
```

We get a flag.txt file which is empty. Opening it in hex editor we see

```
1 00000000: 2020 2009 0920 2020 0909 0d0a 090d 0a20      .. .....
2 00000010: 2020 2020 0909 0920 2009 090d 0a09 0d0a      ... .....
3 00000020: 2020 2020 2009 0920 0920 2009 0d0a 090d      .. . ....
4 00000030: 0a20 2020 2020 0909 2020 2009 090d 0a09      .  .. ....
5 00000040: 0d0a 2020 2020 2009 0909 2009 2020 0d0a      ..   ... . ..
6 00000050: 090d 0a20 2020 2020 0909 2020 0909 200d      ...   .. ..
7 00000060: 0a09 0d0a 2020 2020 2009 0909 0920 0909      ....   .... ..
8 00000070: 0d0a 090d 0a20 2020 2020 2009 0920 0909      .....  .. ..
9 00000080: 090d 0a09 0d0a 2020 2020 2009 0920 0920      .....  .. .
```

We find out that the ascii for these hex codes are

```
1 20 - Space
2 09 - Tab
3 0d0a - \r\n
```

So googling "file with only tab and space ctf" we come across this [writeup](#) written by John Hammond. Following the steps given and replacing \t with 1 and ' ' with 0, we get the flag.

Flag

```
1 csictf{7h47_15_h0w_y0u_c4n_83c0m3_1nv151813}
```

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- 本文链接: <https://writeup.ctfhub.com/Challenge/2020/CSICTF/Forensics/wB6tygfsj463iuHZ116JWw.html>
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