BAT--Bin has been playing all day

Sunday, March 16, 2025 1:20 PM



Extract Metadata:

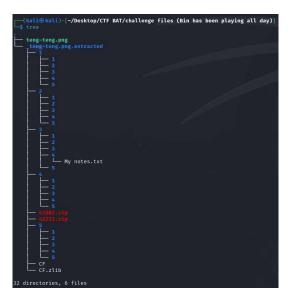
• The image contains metadata, specifically a Comment field that holds encrypted text. To view the comment metadata, run the following command:

```
-[~/Desktop/CTF BAT/challenge files (Bin has been playing all day)]
                     ol teng-teng.png
L's exiftool teng-teng.png
ExifTool Version Number
File Name
Directory
File Size
File Modification Date/Time
File Inode Change Date/Time
File Permissions
File Type
File Type
File Type Extension
MIME Type
Image Width
Image Height
Bit Depth
Color Type
Compression
Filter
Interlace
SRGB Rendering
Gamma
Pixels Per Unit X
Pixels Per Unit Y
Pixel Units
Comment
Waspring
  ExifTool Version Number
                                                                   : 12.76
                                                                      teng-teng.png
                                                                     273 kB
                                                                     2024:10:07 03:09:44-04:00
2025:03:16 00:35:54-04:00
2025:03:16 00:35:30-04:00
                                                                     -rwxrw-rw-
PNG
                                                                     png
image/png
368
                                                                     501
                                                                     8
RGB with Alpha
                                                                     Deflate/Inflate
Adaptive
                                                                     Noninterlaced
                                                                   : Perceptual
: 2.2
: 3779
  Comment
                                                                      fe685a7aa83947125bd66e643d1b695ccee76f40f8534e30a7ee8fdeed5a928f380ab3a0ef7466c162c8ae4fdc2c79f6
  Warning
Image Size
                                                                      [minor] Trailer data after PNG IEND chun
368×501
   Megapixels
                                                                     0.184
```

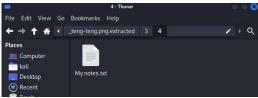
Extract Embedded Files:

The image also contains files embedded within it. To extract these files, use

```
[~/Desktop/CTF BAT/challenge files (Bin has been playing all day)]
 sbinwalk -e teng-teng.png/usr/lib/python3/dist-packages/binwalk/core/magic.py:431: SyntaxWarning: invalid escape sequence '\.' self.period = re.compile("\.")
 DECIMAL
                                                                        HEXADECIMAL
                                                                                                                                                      PNG image, 368 x 501, 8-bit/color RGBA, non-interlaced
Zlib compressed data, compressed
Zip archive data, at least v2.0 to extract, name: 1/1/
Zip archive data, at least v2.0 to extract, name: 1/2/
Zip archive data, at least v2.0 to extract, name: 1/2/
Zip archive data, at least v2.0 to extract, name: 1/4/
Zip archive data, at least v2.0 to extract, name: 1/4/
Zip archive data, at least v2.0 to extract, name: 1/5/
Zip archive data, at least v2.0 to extract, name: 2/1/
Zip archive data, at least v2.0 to extract, name: 2/1/
Zip archive data, at least v2.0 to extract, name: 2/3/
Zip archive data, at least v2.0 to extract, name: 2/3/
Zip archive data, at least v2.0 to extract, name: 2/5/
Zip archive data, at least v2.0 to extract, name: 3/1/
Zip archive data, at least v2.0 to extract, name: 3/1/
Zip archive data, at least v2.0 to extract, name: 3/2/
Zip archive data, at least v2.0 to extract, name: 3/3/
Zip archive data, at least v2.0 to extract, name: 3/3/
Zip archive data, at least v2.0 to extract, name: 3/5/
Zip archive data, at least v2.0 to extract, name: 3/5/
Zip archive data, at least v2.0 to extract, name: 3/5/
Zip archive data, at least v2.0 to extract, name: 4/1/
Zip archive data, at least v2.0 to extract, name: 4/2/
Zip archive data, at least v2.0 to extract, name: 4/3/
Zip archive data, at least v2.0 to extract, name: 4/3/
Zip archive data, at least v2.0 to extract, name: 4/3/
Zip archive data, at least v2.0 to extract, name: 4/3/
Zip archive data, at least v2.0 to extract, name: 4/3/
Zip archive data, at least v2.0 to extract, name: 5/1/
Zip archive data, at least v2.0 to extract, name: 5/1/
Zip archive data, at least v2.0 to extract, name: 5/2/
Zip archive data, at least v2.0 to extract, name: 5/3/
Zip archive data, at least v2.0 to extract, name: 5/3/
Zip archive data, at least v2.0 to extract, name: 5/3/
Zip archive data, at least v2.0 to extract, name: 5/3/
                                                                                                                                                          DESCRIPTION
268466
268500
268534
                                                                        0×418B2
                                                                       0×418D4
0×418F6
 268568
                                                                        0×41918
268602
268636
                                                                        0×4193A
0×4195C
                                                                        0×4197E
0×419A0
0×419C2
 268670
268704
268738
268772
268806
268840
                                                                       0×419E4
0×41A06
0×41A28
268874
268908
268942
                                                                        0×41A4A
0×41A6C
0×41A8E
269157
269191
                                                                        0×41B65
0×41B87
                                                                        0×41BA9
269259
269293
                                                                        0×41BCB
0×41BED
 269327
                                                                        0×41C0F
                                                                        0×41C31
0×41C53
 269395
   269429
```



After Tree commend: there is a txt file in the fourth document in the third folder, and there are two more zip files, 41882.zip and 42211.zip, and then a CF and CF.zlib.



Find the Key and IV:

Inside the extracted directory, you'll find a strange file named "my notes.txt". Opening this file reveals a hint: "AESia," which points to the use of the AES encryption algorithm. AES requires both a key and an initialization vector (IV) to decrypt the text found in the metadata.



Decrypt the Text:

Once you've gathered the key and IV, use the CyberChef tool to decrypt the encrypted text from the image's

