

# Broken\_Secrets

## Description

CHALLENGE

275 SOLVES


✕

### Broken Secrets

🥇 100

You've found a suspicious file, but it seems broken and cannot be opened normally. Your goal is to uncover its secrets.

Submit your answer in the following format:  
ACECTF{3x4mpl3\_fl4g}

 Brokenfr

Flag

Submit

## Category

#forensics

## Solution

```

[atlas@kali]~$ file Brokenfr.7z
Brokenfr.7z: 7-zip archive data, version 0.4

[atlas@kali]~$ p7zip Brokenfr
/usr/bin/p7zip: cannot read Brokenfr

```

[illegible]

```
File Permissions      : -rw-r--r--
Error                 : Unknown file type

(atlas@kali)-[~/../Brokenfr (2)/_word/media]
$ binwalk not_so_suspicious_file
/usr/lib/python3/dist-packages/binwalk/core/magic.py:431: SyntaxWarning: invalid escape sequence '\.'
  self.period = re.compile("\.")

DECIMAL      HEXADECIMAL    DESCRIPTION
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155          0x9B          Zlib compressed data, best compression

(atlas@kali)-[~/../Brokenfr (2)/_word/media]
$ strings not_so_suspicious_file
IHDR
gAMA
cHRM
bKGD
pHYs
tIME
|IDATx
oo?z
'jBtz
vT_1$
hvy7
3X/L-
GH-;>
```

The first 8 bytes are broken, in the image, they are already fixed. Originally, they were 0s.

```
atlas@kali: ~/Desktop/Brokenfr (2)/_word/media
00000000 89 50 4E 47 0D 0A 1A 0A 00 00 00 0D 49 48 44 52 00 00 01 5E 00 00 00 C8 08 00 00 00 00 85 08 D6 2C 00 00 00 .PNG.....IHDR...^.....
00000024 04 67 41 4D 41 00 00 B1 8F 0B FC 61 05 00 00 00 20 63 48 52 4D 00 00 7A 26 00 00 80 84 00 00 FA 00 00 00 80 .gAMA.....a.... CHRM..z6.....
00000048 E8 00 00 75 30 00 00 EA 60 00 00 3A 98 00 00 17 70 9C BA 51 3C 00 00 00 02 62 4B 47 44 00 00 AA 8D 23 32 00 ...u0...`.....p.Q<...bKGD...#2.
0000006C 00 00 09 70 48 59 73 00 00 00 48 00 00 00 48 00 46 C9 6B 3E 00 00 00 07 74 49 4D 45 07 E9 01 13 0A 2F 32 55 ...pHYs...H...H.F.k>...tIME.../2U
00000090 0F DD 10 00 00 0B 7C 49 44 41 54 78 DA ED 9A 6B 78 14 D5 19 80 DF 90 84 30 11 22 17 05 04 44 2E 2A 04 4B 05 .....|IDATx...kx.....0..."...D.*.K.
000000B4 44 48 0D 0A C8 25 88 72 B5 05 51 31 A8 02 0A E2 53 00 0A 52 C0 4B 30 88 3E 5C 94 5A 4A 10 41 0B 04 50 11 85 DH...%.r...Q1...S..R.K0.>\.Z].A..P..
000000D8 3E 16 41 AA 40 A1 42 05 A1 56 10 14 81 12 20 94 4B 42 80 E1 9A 9D FE 98 D9 DD D9 EC 6C 58 1E F9 9A 3E ED F7 >.A.@.B..V.... .KB.....lX...>..
000000FC FE C9 9C 73 BE 6F BE B3 EF CE 9C B9 6C E2 0C 14 39 2A 94 F7 04 FE B7 51 BD A2 A8 5E 51 54 AF 28 AA 57 14 D5 ...s.o.....l...9*.....Q...^QT.(.W..
00000120 2B 8A EA 15 45 F5 8A A2 7A 45 51 BD A2 A8 5E 51 54 AF 28 AA 57 14 D5 2B 8A EA 15 45 F5 8A A2 7A 45 51 BD A2 +...E...zEQ...^QT.(.W...+...E...zEQ..
00000144 A8 5E 51 54 AF 28 AA 57 14 D5 2B 8A EA 15 45 F5 8A A2 7A 45 51 BD A2 A8 5E 51 54 AF 28 AA 57 14 D5 2B 8A EA ^QT.(.W...+...E...zEQ...^QT.(.W...+...
00000168 15 45 F5 8A A2 7A 45 51 BD A2 A8 5E 51 54 AF 28 AA 57 14 D5 2B 8A EA 15 45 F5 8A A2 7A 45 51 BD A2 A8 5E 51 .E...zEQ...^QT.(.W...+...E...zEQ...^Q
0000018C 54 AF 28 AA 57 14 D5 2B 8A EA 15 45 F5 8A A2 7A 45 51 BD A2 A8 5E 51 54 AF 28 AA 57 14 D5 2B 8A EA 15 45 F5 T.(.W...+...E...zEQ...^QT.(.W...+...E..
000001B0 8A A2 7A 45 51 BD A2 A8 5E 51 54 AF 28 AA 57 14 D5 2B 8A EA 15 45 F5 8A A2 7A 45 51 BD A2 A8 5E 51 54 AF 28 ..zEQ...^QT.(.W...+...E...zEQ...^QT.(
```

Fixing the bytes gives us the flag.

