Zion - Misc (51)

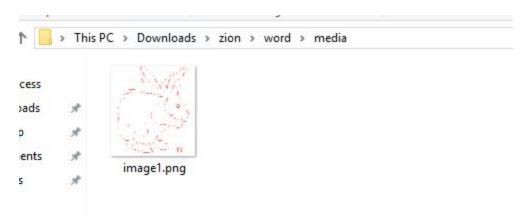
Is this the access codes to the Zion mainframe?. We have only bits and pieces of information.

Solves: 44

Download: zion.tar.gz

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Pull down the file and unwrap the onion and you end up with some files that look like a word doc unzipped with some xml files and other junk to throw you off. I found this image file in one of the folders. Although, interesting not really leading to anything.



I decide to take a close look at the file in a hexeditor to make sure they have stacked file together to hide something. I find that at the bottom you can see something off:

```
00006F70 9B 06 EE CC 90 80 7D 48 9B D0 88 BD B3 64 44 55 >.iI.€}H>D^5½*dDU
00006F80 B6 77 7B 99 62 9F 7B E0 06 10 31 03 4A C1 D2 AD ¶w{™bŸ{à..1.JÁÒ.
00006F90 73 6C 65 72 2E 2F 73 6C 65 72 5F 00 00 00 B0 00 sler./sler_....
00006FA0 00 00 00 00 00 00 00 00 00 4C B6 94 7C 00 ......L¶″|.
00006FB0 08 08 08 00 14 04 03 4B 50 .....KP
```

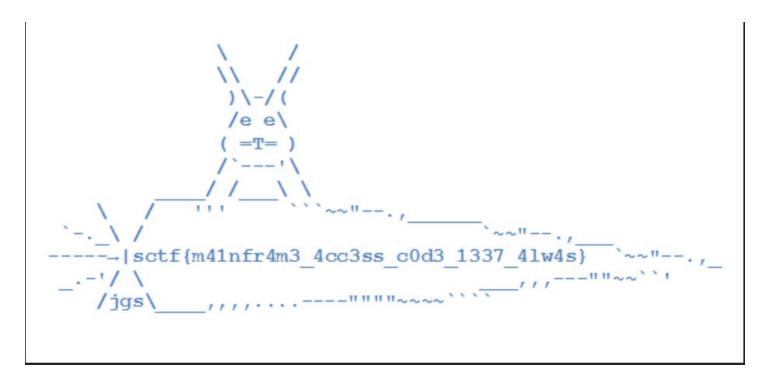
Everything seems to be print backwards at the bottom, so I work my way back up until it flips back to normal and I find it about half way up the file:

```
00003840 00 14 00 08 08 08 00 BC 94 B6 4C 29 EF 3D 8B 4A ......47"9L)1=⟨J
00003850 01 00 00 16 05 00 00 13 00 00 00 00 00 00 00 ......
00003860 00 00 00 00 00 2F 34 00 00 5B 43 6F 6E 74 65 6E
                                                        ..../4..[Conten
         74 5F 54 79 70 65 73 5D 2E 78 6D 6C 50 4B 05 06
                                                         t Types].xmlPK..
00003880 00 00 00 00 0B 00 0B 00 C2 02 00 00 BA 35 00 00
00003890 00 00 00 00 00 00 34 0E 00 00 03 03 00 0C 00 0C
000038A0 00 00 00 00 06 05 4B 50 6C 6D 78 2E 5D 73 65 70
                                                          .....KPlmx.]sep
000038B0
         79 54 5F 74 6E 65 74 6E 6F 43 5B 00 00 32 79 00
                                                         yT tnetnoC[..2y
000038C0
         00 00 00 00 00 00 00 00 00 00 00 13 00 00 05
         93 00 00 01 54 A6 00 75 BF 4C B6 94 7C 00 08 08
000038D0
000038E0 08 00 14 00 14 02 01 4B 50 6C 6D 78 2E 31 65 6D
000038F0 65 68 74 2F 65 6D 65 68 74 2F 64 72 6F 77 00 00
                                                         eht/emeht/drow.
00003900 2C 82 00 00 00 00 00 00 00 00 00 00 00 15
```

After spending some minutes looking the file over it looks like a valid zip backwards. So, work on a command to reverse the file byte by byte:

cat YouKnow.zip | xxd -p -c1 | tac | xxd -p -r > output.zip

I go find that file again and see what it looks like now:



Sweet!

Flag: sctf{m41nfr4m3_4cc3ss_c0d3_1337_4lw4s}