

Forensics Challenge 1

Challenge

24 Solves

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Repair Shop

50


Forensics

We got this file but the transmission might have corrupted it. Maybe our main suspect has tampered with the file. Help us to recover the file and the information we need!

Unlock Hint for 5 points

Unlock Hint for 10 points

Unlock Hint for 10 points

 unfixed

Flag

Submit

Answer: We are given a file named unfixed, looks be just raw data

```
kali@kali:~/Pictures$ file unfixed
unfixed: data
kali@kali:~/Pictures$
```

Let's use binwalk to see if there is anything inside of it. Looks to be a txt file called theflag.txt lets extract everything

```
381d480718cf38c7a0c555abed743b8b97d1daf209e5c8f36d7979188c6171f873e9eddb6
a5d0b0c39a6f84ac2e661e521dd24d34e14a8099271824e028e3f0f7ae2c4627dac55534f
a2ee7a187c3fb26f95dd7e46c436a15259163f3514a2b6a54053826327b8ab3819ce3
9aa5a56ab67ad69d15fd84a64b6973b1ca95ce090783cf506aead79d2ba76677269aba0a2
8a290c28a28a0028a28a0028a28a0028a28a0028a28a00298ea0e0b1202f3d7f9d3e9323
27d7140104abb54b1760339fbd8c0eff007ef9561cbbaea747e8691cab060141c292a3ca
31c7163f5e3abed6f9059b86ed9f85cfaa007835e6c2839c903279f5e29a67356a5cfa743234
fd0a2b4469291c5d4a09f3028050139c60e45685a598b7999d242013c9231b873dbf11e
9d3e956d22290290c54b13f794638e83f45383173abee3b80c63b7e54377153c3429aa2
ad60424b321c100c3ee63bfafefbcbf1151157f4b285518d53b14523a52b1ccf8c34dd43
5286ce1b154da7288e762818aa12473cfff00082a091d4f02b456c96d64b58a269d2d2b688e
23455db30c018638e071f08325a3ad6dede5a9c81d15ff001199d3cb0b496a5dcb2c
8db802c508036e6f1d700803e4879cd433693af7cf2975259c53481b7aba9ae18b13c13eb8
07bf16562aec127b9f399227f629a24d7f16fc6eeb9e7a102992584924f6e639d6286d5e9
102266032db8553e98ce78a719256b3b7f52327abd8ac45bc2d06abac77d3cf279c919
7e4a1c0cf2792838209e073cf5aa0f6a6972f20f9df87f43a36ee98de763de189dd86
cf241c11dce3d6bb1488189564018839f6cfb564f887c45a6f856da2babb8e4db3ca23cc
29939c1393ed81551ab8268abb66f00863274a0bde924975fe1afe4637863e1fdb693a
00c699ab1835059dcbce07c581e4a00769ae0f03918e832db8ef10ea1efb0736ae573cd611
cbaa236d93ce690adb100f2b9c12583e3838c28e2bd8274866b678e700c522ec60dc020f
18fd6a9de85da574a576d7561041478db82aeecc60032779e455e4f12f9dca5da7b8d82
a61d7228d3b26b67b9cf783f4281b454b7f14c162d71aecd46cd6b5ee4f249a2510b8191
9238ef8cf535bde1d875b4d2ae63f155d595d1232db40c2291f32bf01718c76ee7935d04
51470c4b1448a91a0c2aa8c003d00a1e2491191915956c11c90c318e6b2a959cdbbf5fc
3c91a42928256f8732ae9526926b90d24db9b20088fec8d83079c638ab9abb55eca
c6d74db54b5b2b78e08133b638d70064e4d58a4ca566dd86d637b6a1451452185145140051
451400514514005145140051451400504668a28022627ce09d88cd483bd145024d214514
0c28a28a0028a28a0085e21e6c454b28525b6a9c024faf53f8d521ee64ba1765f811d
ccbb18049e03b0cf24ff0087a014515a2f81ff005d4ad3a6bc69200d1580391919c1a28
acc06cf6f0dccc5e55c431cb1e41d2286190720e0fbd4945140051451400514514005145
14005145140051451401ff9d
kali@kali:~/Pictures/_unfixed-1.extracted$ cat 40 | xxd -r -p > 40dump
kali@kali:~/Pictures/_unfixed-1.extracted$ file 40dump
40dump: data
kali@kali:~/Pictures/_unfixed-1.extracted$
```

Interesting another data file. If we cat the 40dump we get nothing really useful so let try binwalk again.

```
li@kali:~/Pictures/_unfixed-1.extracted$ binwalk 40dump
```

DECIMAL	HEXADECIMAL	DESCRIPTION
9	0x9	TIFF image data, little-endian offset of first image directory: 8
513	0x201	JPEG image data, JFIF standard 1.01

```
kali@kali:~/Pictures/_unfixed-1.extracted$
```

A JPEG file, lets extract it and open it.

```
kali@kali:~/Pictures/_unfixed-1.extracted$ binwalk -e 40dump
```

DECIMAL	HEXADECIMAL	DESCRIPTION
9	0x9	TIFF image data, little-endian offset of first image directory: 8
513	0x201	JPEG image data, JFIF standard 1.01

```
kali@kali:~/Pictures/_unfixed-1.extracted$ ls
15ECE1.zip  40  40dump  40.zlib  73A8  73A8.zlib  theflag.txt
kali@kali:~/Pictures/_unfixed-1.extracted$ binwalk --dd='*' 40dump
```

DECIMAL	HEXADECIMAL	DESCRIPTION
9	0x9	TIFF image data, little-endian offset of first image directory: 8
513	0x201	JPEG image data, JFIF standard 1.01

```
kali@kali:~/Pictures/_unfixed-1.extracted$ ls
15ECE1.zip  40  40dump  _40dump.extracted  40.zlib  73A8  73A8.zlib  theflag.txt
kali@kali:~/Pictures/_unfixed-1.extracted$ cd _40dump.extracted/
kali@kali:~/Pictures/_unfixed-1.extracted/_40dump.extracted$ ls
201  9
kali@kali:~/Pictures/_unfixed-1.extracted/_40dump.extracted$ file *
201: JPEG image data, JFIF standard 1.01, aspect ratio, density 1x1, segment length 16, baseline, precision 8, 256x244, component
9:  TIFF image data, little-endian, direntries=11, height=949, bps=146, description=Created with GIMP, xresolution=170, yresolut
1:04 00:39:54, GPS-Data, width=993
kali@kali:~/Pictures/_unfixed-1.extracted/_40dump.extracted$
```

So using the normal -e option with binwalk failed, this can happen, so let's use dd instead. Now we have the JPEG lets open it up.



Looks like we have our flag

FLAG: hilltopCTF{PNG_M4gic_Numb3R5}