



## UTCTF 2020

### Forensics : The Legend of Hackerman, Pt. 1

**Value :** 50 Pts

**Description :** My friend Hackerman tried to send me a secret transmission, but i think some of it got messed up in transit. Can you fix it ?

**Attachment :** hackerman.png

### Solutions :

Downloading the attachment «**hackerman.png**» and we can't open it, it seem corrupted.

Running «**file**» against it and we realize the header is wrong. Normally an PNG header will be «**89 50 4E 47 0D 0A 1A 0A**» and here the header is «**00 00 00 00 0D 0A 1A 0A**».

Searching a bit on google and i find a tool who fix it.

Source : <https://github.com/sherlly/PCRT>

Clone the repository an run the tools against the picture. Choose to auto fix the header and show the repaired image for get the flag.

```
root@kali:~/PCRT# python PCRT.py -v -i hackerman.png
```

```
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PNG Check & Repair Tool

Project address: <https://github.com/sherlly/PCRT>

Author: sherlly

Version: 1.1

[Detected] Wrong PNG header!

File header: **000000000D0A1A0A**

```
Correct header: 89504E470D0A1A0A
[Notice] Auto fixing? (y or n) [default:y] y
[Finished] Now header:89504E470D0A1A0A
[Finished] Correct IHDR CRC (offset: 0x1D): 812E23AF
[Finished] IHDR chunk check complete (offset: 0x8)
[Finished] Correct IDAT chunk data length (offset: 0x2A1D length: 2000)
...
...
[Finished] IDAT chunk check complete (offset: 0x2A1D)
[Finished] Correct IEND chunk
[Finished] IEND chunk check complete
[Finished] PNG check complete
[Notice] Show the repaired image? (y or n) [default:n] y
```



**Flag :** `utflag{3lit3_h4ck3r}`