Ahmed Umar Rehman 1221580 Section A Digital Forensics Lab#1

Task 01: What is wrong with dog.png. Hint Cyberchef

Ans:

Output

File type: PKZIP archive

Extension: zip

MIME type: application/zip

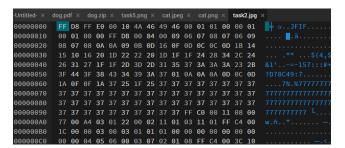
The file name should be PKZIP

Task 02: Can you check Image.jpg and recover the file.

Check for magic bytes in hexed and match them with jpg magic bytes on Gary Kessler's site.

Ans:

The image.png is recovered





Task 03: Does changing the extension change magic bytes of the file. Try and add screenshots with

explanation.

Ans:

No, it doesn't change the magic bytes. The proof of screenshot is given below

Cat.jpeg file



Cat.png file

Task 04: Can you recover the challenge.png file. Flag format flag{}.

Ans:

Yes, we can recover the file



Use the string 'flag{d1g1tal_f0r3ns1cs_101}' as an answer to the original question.

This is an example of a capture the flag challenge. Hopefully you learnt something new today! :)



Since the original picture magic bytes was not on the other website gaykessler then search png file in gaykessler and we found the magic bytes

Task 05: What if magic bytes are totally out of place, how can we check for a file type? Hint:

"I have wheels, yet I'm not a car. I am big, but I'm not a star. Pull me along, I'll carry your load.

Inside me, stories are often showed."

Ans:

We can check through the last magic bytes of the challenge.png file and match trailer bytes



Task 06 [Bonus]:

Can you recover Boss.png?

Ans: