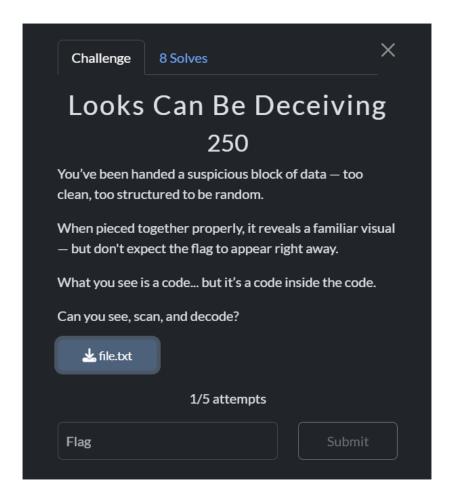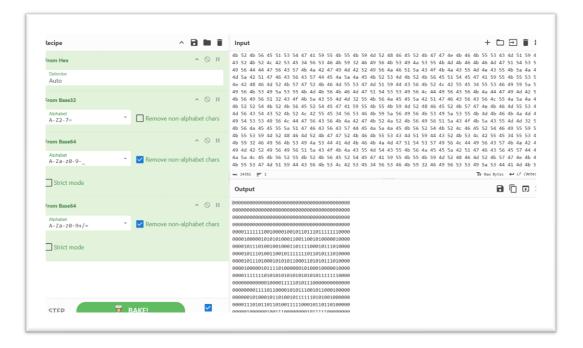# Challenge Name: Looks Can Be Deceiving — 250pts (Steganography)

This is a a challenge where we got one file.txt, so we need to see what it contains.

After the analysis, I see the text contains the hex so I directly go to the cyberchef to decode the hex.
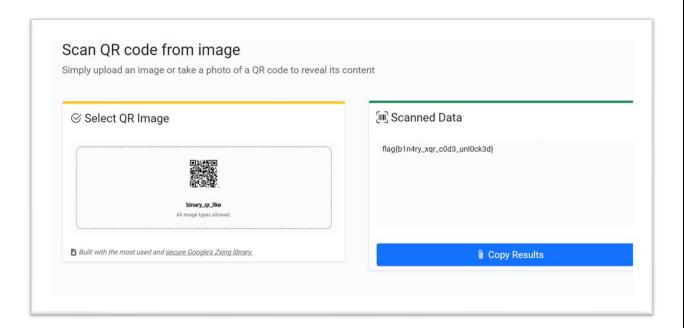

As after all the decoding, I gor the binary that contains zero and one. Now, with my experience with the binary dimensions that it is a type od qrcode that is going to be generated with '0' indicated as white and '1' indicated as black. So, I wrote one python code to do the same.

```python
from PIL import Image
binary_data = """
PUT YOUR BINARY HERE
""".strip().splitlines()
matrix = [[int(bit) for bit in line] for line in binary_data]
scale = 10
rows = len(matrix)
cols = len(matrix[0])
img = Image.new('1', (cols * scale, rows * scale), 1)
for y in range(rows):
    for x in range(cols):
        color = 0 if matrix[y][x] == 1 else 1
        for dy in range(scale):
            for dx in range(scale):
                img.putpixel((x * scale + dx, y * scale + dy), color)
img.save("binary_qr_like.png")
print("QR-like image saved as 'binary_qr_like.png'")
```

The above code can be successfully generated the qr code as show below and noq we juat need to scan it to get the stuff.

I usd the online qrcode scanner to get the text from the qrcode.

Scan QR code from image

Simply upload an image or take a photo of a QR code to reveal its content

⊘ Select QR Image

binary_qr_like

All image types allowed.

🗋 *Built with the most used and secure Google's Zxing library.*

🔳 Scanned Data

flag{b1n4ry_xqr_c0d3_unl0ck3d}

🔗 Copy Results

As after the scan, we can successfully retrieve the flag.

FLAG: {b1n4ry_xqr_c0d3_unl0ck3d}

~By Team justahacker