Story of image

- 1. I used "strings" command to get the file.
- 2. And grep "flag"

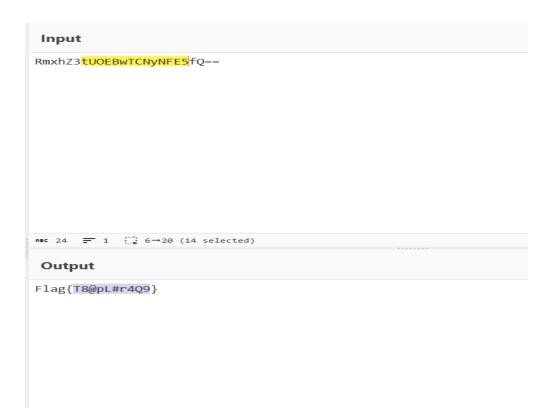
Push and regret

I have cloned the git repository

```
(kali® kali)-[~/codefest25/Stegno]
$ git clone https://github.com/ktscyberlk/ironbank-api-ctf.git
Cloning into 'ironbank-api-ctf' ...
remote: Enumerating objects: 218, done.
remote: Counting objects: 100% (218/218), done.
remote: Compressing objects: 100% (111/111), done.
remote: Total 218 (delta 95), reused 175 (delta 74), pack-reused 0 (from 0)
Receiving objects: 100% (218/218), 29.96 KiB | 59.00 KiB/s, done.
Resolving deltas: 100% (95/95), done.
```

- 2. Checked for git log and used different key words to find the flag.
- 3. When I tried word "key" in log file, found an base64 encrypted string.

4. And then I decrypted the strings. And got the flag.



Trail of Access

- 1. First I searched the log file for name "greenwilliams".
- 2. I got 2 lines with same name with different password, trying that password before the transaction helped me to solve the challenge.

```
217.244.19.166 - [06/Aug/2025:15:39:14 +0000] "POST /transfer HTTP/1.1" 404 3918 "Mozilla/5.0 (compatible; MSIE 5.0; Windows NT 6.2; Trident/4.1)"

179.120.71.20 - [06/Aug/2025:15:39:22 +0000] "GET /transfer HTTP/1.1" 403 4125 "Mozilla/5.0 (compatible; MSIE 9.0; Windows NT 6.2; Trident/5.0)"

128.82.40.243 - [06/Aug/2025:15:39:31 +0000] "OST /transfer HTTP/1.1" 404 3918 "Mozilla/5.0 (XII; Linux i686) AppleWebkit/531.1 (KHTML, like Gecko) Chrome/30.0.865.0 Safari/531.1"

111.77.67.214 - [06/Aug/2025:15:39:33 +0000] "GET /profile HTTP/1.1" 404 3923 "Mozilla/5.0 (Compatible; MSIE 7.0; Windows NT 4.0; Trident/5.0)"

157.19.229.5 - [06/Aug/2025:15:39:34 +0000] "POST /dashboard HTTP/1.1" 404 2912 "Opera/8.80. (Windows NT 5.1; ce-RU) Presto/2.9.190 Version/12.00"

80.16.3.250 - [06/Aug/2025:15:39:52 +0000] "POST /transfer HTTP/1.1" 500 1368 "Mozilla/5.0 (compatible; MSIE 7.0; Windows NT 5.0; Trident/5.1)"

193.5.44.255 - [06/Aug/2025:15:40:01 +0000] "POST /dashboard HTTP/1.1" 500 940 "Mozilla/5.0 (compatible; MSIE 8.0; Windows NT 5.0; Trident/5.1)"

49.73.219.195 - [06/Aug/2025:15:40:01 +0000] "POST /dashboard HTTP/1.1" 500 940 "Mozilla/5.0 (windows NT 5.0) AppleWebkit/533.5.7 (KHTML, like Gecko) Version/4.1 Safari/533.5.7"

67.12.243.182 - [06/Aug/2025:15:40:01 +0000] "POST /login/user-green/lliamRpass-e/USCGUIG HTTP/1.1" 301 4200 "Opera/8.68. (Windows NT 10.0; mag-IN) Presto/2.9.170 Version/10.00"

194.217.75.128 - [06/Aug/2025:15:40:21 +0000] "POST /transfer HTTP/1.1" 404 3139 "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_11_5; rv:1.9.2.20) Gecko/2494-10-16 09:23:33 Firefox/3.8"

107.19.17.144 - [06/Aug/2025:15:40:24 +0000] "POST /porfile HTTP/1.1" 404 309 "Mozilla/5.0 (Macintosh; U; CPU iPhone OS 3.3 like Mac OS X; ia-FR) AppleWebkit/53a.35.4 (KHTML, like Gecko) Version 33.5.216.48 - [06/Aug/2025:15:40:24 +0000] "GET /profile HTTP/1.1" 404 301 "Mozilla/5.0 (Macintosh; U; Intel Mac OS X 10_9_7; rv:1.9.4.20) Gecko/2494-10-16 09:23:33 Firefox/3.6:12"

106.222.133.117 - [06/Aug/2025:15:40:40 +0000] "GET /profile HTTP/1.1
```

Secret in the file

- 1. In the given python code I've changed the file name to my downloaed file name. "trythis.png".
- 2. And got the flag.

```
from stegano import lsb

# Extract from the image
extracted = lsb.reveal("trythis.png")

print(" Hidden message:", extracted)
```

```
E:\download>python Python_Code_Extract.py

☐ Hidden message: flag{stegano-!*}

E:\download>
```

Pcap Madness

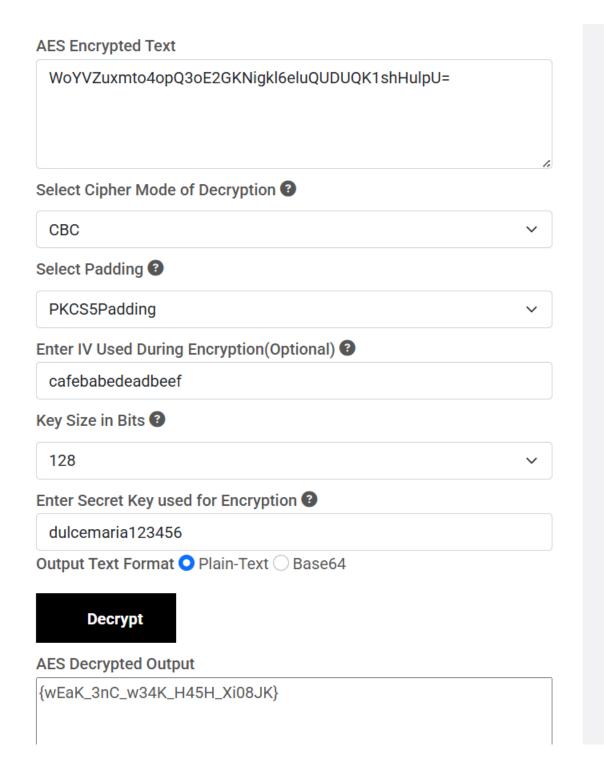
- 1. I used wireshark to analyse the pcap file.
- 2. And got the password with AES encrypted.
- 3. By unhashing the given key and adding 123456, I got the key.

4. And then changed the hex to ascii, and got the IV num.

```
POST /login HTTP/1.1
Host: 192.168.1.6:8082
User-Agent: curl/8.9.1
Accept: */*
X-Key-Info: 6c914c6df9d427ba26422d4a29e00cfb+123456 - AES
X-TV-Info: 63616665626162656465616462656566
Content-Length: 68
Content-Type: application/x-www-form-urlencoded

username=admin&password=WoYVZuxmto4opQ3oE2GKNigkl6eluQUDUQK1shHulpU=HTTP/1.1 200 OK
Server: Werkzeug/3.0.3 Python/3.12.3
Date: Mon, 25 Aug 2025 11:20:28 GMT
Content-Type: text/html; charset=utf-8
Content-Length: 13
Connection: close

Login Success
```



Stop watch

```
(kali@ kali)-[~/codefest25/IOS/StopWatch.app]
$ strings SLIIT_CTFStopWatch | grep "{*}"
h"]9ab6
Rj}`
STOPWATCH_CTF{A1F9-3D7B-92CE-44E0}
}#;#d
3s]bm
$]Lsc
`7]h
+:zD]0
```

```
(kali@ kali)-[~/codefest25/IOS]
$ unzip SLIIT_CTFStopwatch.ipa
Archive: SLIIT_CTFStopwatch.ipa
    creating: StopWatch.app/
    creating: StopWatch.app/_CodeSignature/
    inflating: StopWatch.app/_CodeSignature/CodeResources
    inflating: StopWatch.app/SLIIT_CTFStopWatch
    inflating: StopWatch.app/Info.plist
    extracting: StopWatch.app/PkgInfo
```