

Lab 04

CYL2002 Digital Forensics - Lab

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1. What is the Image File Format? (e.g., RAW, AFD, etc.)

The file was EWF in format, as we can see in the ss, the command used was img_stat

```
File Actions Edit View Help

(kali® kali)-[~/Desktop/lab 04/task/najee]

simg_stat GE3.E01
IMAGE FILE INFORMATION

Image Type: ewf

Size of data in bytes: 2118647808
Sector size: 512
MD5 hash of data: 86844605ec6a53f6e2a0998e29ca2437

(kali® kali)-[~/Desktop/lab 04/task/najee]
```

2. What is the Volume Serial Number and Volume Name?

The volume serial number is 2E94CF0094CECA13 and name is Tonys_USB.

3. What is the File System Type? (e.g., FAT, EXT, etc.)

NTFS

```
·(kali®kali)-[~/Desktop/lab 04/task/najee]
 -$ fsstat -i ewf GE3.E01
FILE SYSTEM INFORMATION
File System Type: NTFS
Volume Serial Number: 2E94CF0094CECA13
OEM Name: NTFS
Volume Name: Tonys_USB
Version: Windows XP
METADATA INFORMATION
First Cluster of MFT: 172416
First Cluster of MFT Mirror: 2
Size of MFT Entries: 1024 bytes
Size of Index Records: 4096 bytes
Range: 0 - 256
Root Directory: 5
CONTENT INFORMATION
```

4. How many partitions are there?

There are no partitions because mmls give no output.

5. Name the file with a mismatched extension. Hint: Hexed.it and Gary are close friends who share.

```
-(kali®kali)-[~/Desktop/lab 04/task/najee]
s fls -i ewf GE3.E01
                $AttrDef
r/r 4-128-1:
r/r 8-128-2:
                $BadClus
              $BadClus:$Bad
r/r 8-128-1:
r/r 6-128-4:
               $Bitmap
r/r 7-128-1:
                $Boot
d/d 11-144-4:
                $Extend
r/r 2-128-1:
               $LogFile
r/r 0-128-6:
                $MFT
             $MFTMirr
$Secure:$SDS
r/r 1-128-1:
r/r 9-128-8:
r/r 9-144-11: $Secure:$SDH
r/r 9-144-14: $Secure:$SII
r/r 10-128-1: $UpCase
r/r 10-128-4: $UpCase:$Info
r/r 3-128-3: $Volume
r/r 45-128-1: Bankers Draft.jpg
r/r 47-128-1: Delete evidence of files on my PC.pdf
d/d 40-144-1: For Printing on Cheques
r/r 39-128-1: My Holiday Pics.zip
r/r 46-128-1: Phone number.txt
d/d 36-144-1: System Volume Information
r/r 48-128-1: Transfer of Funds.pdf
r/r 49-128-1: Video Project.doc
V/V 256:
                $OrphanFiles
```

I extracted the file using icat command to extract the My Holiday pics.zip, and opened it in hexed.it

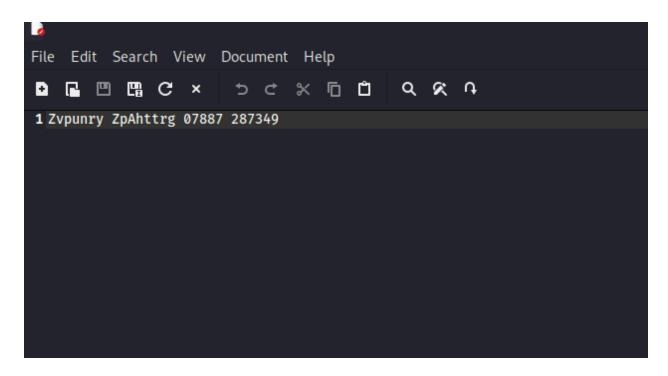
After that I changed the extension to txt.

And it had this

```
3 Account 1
         65-01-93
5 Sort
 6 A/C Number 12298734
7 PIN
         9833
9 Account 2
10
11 Sort
         32-08-32
12 A/C Number 87762392
13 PIN
        3988
14
15 Account 3
16
17 Sort
         67-03-22
18 A/C Number
            38876129
19 PIN
        2387
20
21 Account 4
22
23 Sort
         34-99-03
24 A/C Number
                 87736238
25 PIN
         2765
26
27 Account 5
28
29 Sort
        32-98-03
30 A/C Number 38746355
31 PIN
         2399
32
```

6. Use Cipher Identifier if you encounter any encoded text, such as "kHrkn Bqqzon."

The phone number.txt had a name that after decrypting came Michael McNugget So the text was



Michael McNugget 07887 287349

7. What is the password for the Password-Protected PDF?.

The password was "Catchme"

8. What are the contents of the Password-Protected PDF? Does it relate to the investigation?

It had the transactions of money.

	Bank	Moneycorp
Charge for depositing draft	€525	€100
Transfer fee	€900	€175
Amount of euros to exchange	€148,575	€149,725
Exchange rate* GBP/EUR	1,171	1.150
Total GBP received	£126,879	£130,196
MORE POUNDS WITH MONEYCORP		£3,317

9. Write a conclusion based on the investigation above.

The case included some evidence of Some Transactions of money. All the evidence was presented in the report. So the conclusion was that The Suspect is guilty given the proof of These illegal Transactions.