



**National University**  
of computer and emerging sciences

## Lab 10

CYL2002 Digital Forensics - Lab

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Section : CY-A

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
Department of Cyber Security BS(CY)

FAST-NUCES Islamabad

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## Password Cracking.

For this i actually first exported the office files from the autopsy

Name	S	C	O	Modified Time	Change Time
 Paraphilias.ppt				2011-09-27 19:46:06 PKT	0000-00-00 00:00:00
 Assessment NCP.ppt				2011-09-27 19:40:12 PKT	0000-00-00 00:00:00
 f1581248.ppt			0	0000-00-00 00:00:00	0000-00-00 00:00:00
 Introduction.ppt				2011-09-27 19:42:58 PKT	0000-00-00 00:00:00
 General Psychopathology.ppt				2011-09-27 19:42:22 PKT	0000-00-00 00:00:00
 f0335328.ppt			0	0000-00-00 00:00:00	0000-00-00 00:00:00
 Biochemistry.ppt				2011-09-27 19:41:02 PKT	0000-00-00 00:00:00
 f2086048.ppt			0	0000-00-00 00:00:00	0000-00-00 00:00:00
 Child Psychiatry.ppt				2011-09-27 19:41:38 PKT	0000-00-00 00:00:00

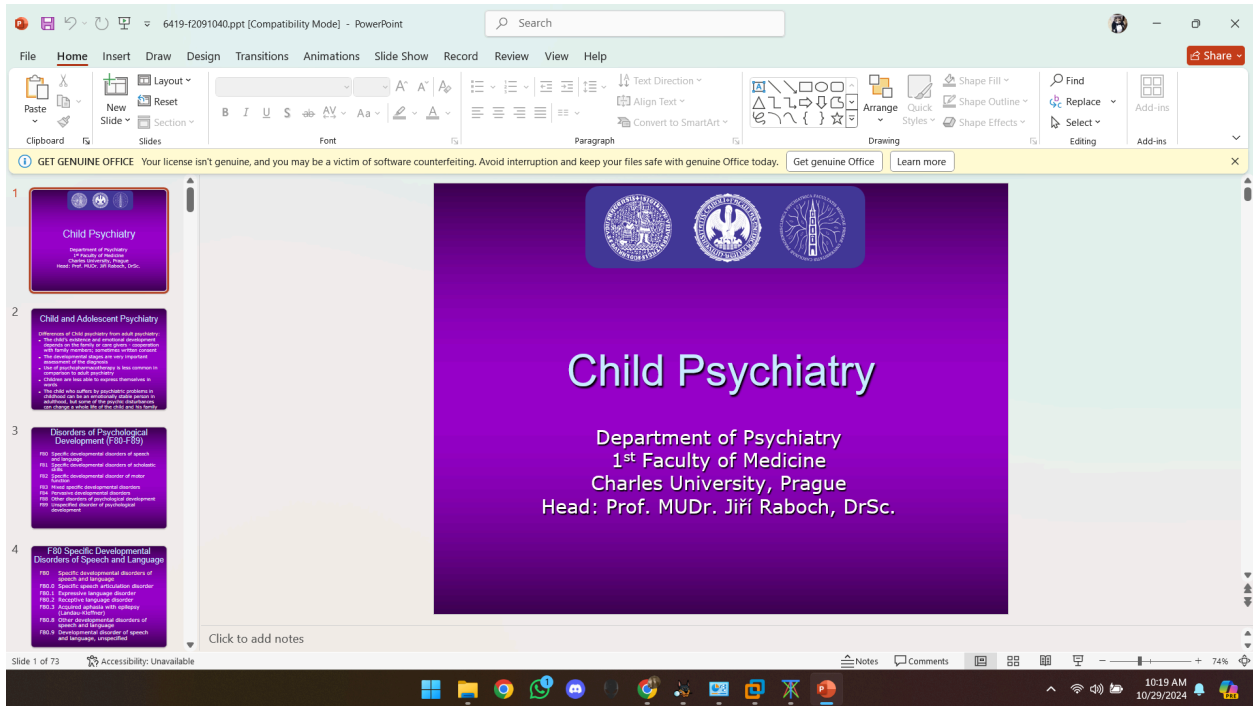
Then went to kali, and used crunch to generate a password file, then used john to extract the hashes of the ppt file, and then used john to see the password.

I found a handful of passwords like.

```
(kali㉿kali)-[~/Desktop]
└─$ john --wordlist="three_letter_wordlist.txt" hash.txt
Using default input encoding: UTF-8
Loaded 7 password hashes with 7 different salts (oldoffice, MS Office ≤ 2003 [MD5/SHA1 RC4 32/64])
Remaining 6 password hashes with 6 different salts
Cost 1 (hash type [0-1:MD5+RC4-40 3:SHA1+RC4-40 4:SHA1+RC4-128 5:SHA1+RC4-56]) is 3 for all loaded hashes
Will run 4 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
eno          (5431-f1512576.ppt)
one          (1301-General Psychopathology.ppt)
rim          (6418-f2086048.ppt)
rod          (1311-Personality Disorders.ppt)
xyz          (6419-f2091040.ppt)
5g 0:00:00:00 DONE (2024-10-29 01:14) 250.0g/s 878800p/s 3643Kc/s 3643KC/s yge..zzz
Warning: passwords printed above might not be all those cracked
Use the "--show --format=oldoffice" options to display all of the cracked passwords reliably
Session completed.

(kali㉿kali)-[~/Desktop]
└─$
```

Lets use the password to see the content of one file.



So these are just slides.

Now to work on pdf.

So i used john to extract the hash then did the same to see the password of the file.

```
(kali㉿kali)-[~/Desktop]
$ pdf2john f1576416.pdf > pdfhash.txt

(kali㉿kali)-[~/Desktop]
$ john --wordlist="three_letter_wordlist.txt" pdfhash.txt
Using default input encoding: UTF-8
Loaded 1 password hash (PDF [MD5 SHA2 RC4/AES 32/64])
Cost 1 (revision) is 2 for all loaded hashes
Will run 4 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
tip (f1576416.pdf)
1g 0:00:00:00 DONE (2024-10-29 01:22) 100.0g/s 1318Kp/s 1318Kc/s 1318KC/s tie..tnb
Use the "--show --format=PDF" options to display all of the cracked passwords reliably
Session completed.

(kali㉿kali)-[~/Desktop]
$
```











ve the mouse pointer inside or press Ctrl+G.

The content of the file is given below.















Ip addresses.

List Name	Files with Hits
 0.0.0.0 (11)	11
 0.1.0.2 (3)	3
 0.1.2.3 (24)	24
 0.1.2.4 (2)	2
 0.1.2.5 (2)	2
 0.1.3.4 (5)	0.1.2.4 (2)
 0.1.4.5 (5)	5
 0.1.4.7 (4)	4
 0.1.5.6 (4)	4
 0.1.6.7 (4)	4
Data Content	
Hex	Text
Application	File Metadata
OS Account	Data Artifacts
Analysis Results	Con

Phone numbers.

List Name	Files with Hits
 (415) 961-8830 (7)	7
 350 500 1000 (6)	6
 350 556 1000 (6)	6
 500 333 1000 (6)	6
 500 444 1000 (6)	6
 500 500 1000 (6)	6
 556 333 1000 (6)	6
 584 556 1015 (6)	6
 667 333 1000 (6)	6
 667 667 1000 (6)	6
Data Content	
Hex	Text
Application	File Metadata
OS Account	Data Art

**Directory tree**

- \$OrphanFiles (585)
  - ^000^~000 (0)
  - ^000^~000 (0)
  - ^000^~000 (0)
  - ^000^~000 (0)
  - AFTERN-1 (23)
  - AFTERN-1 (23)
  - AVAILA-1 (3)
  - BITS (5)
  - CALLUG-1 (3)
  - CALLUG-1 (3)
  - CHARAC-1 (23)
  - CHARAC-1 (23)
  - CITYSC-1 (23)
  - CITYSC-1 (23)
  - COMMON (4)
  - DELTA (23)
  - DELTA (23)
  - EAPHOST (12)
  - GAPMET-1 (10)
  - ELS (5)
  - EN-US (3)
  - EN-US (4)
  - ENGINES (4)
  - ESENT (5)
  - FESTIVAL (23)
  - FESTIVAL (23)
  - GANTTC-1 (0)
  - GARDEN (23)
  - GARDEN (23)
  - HELP (0)
  - HELP (3)
  - HERITAGE (23)
  - HERITAGE (23)
  - IMEJP10 (4)
  - Imekr8 (4)
  - MARCOSS (4)

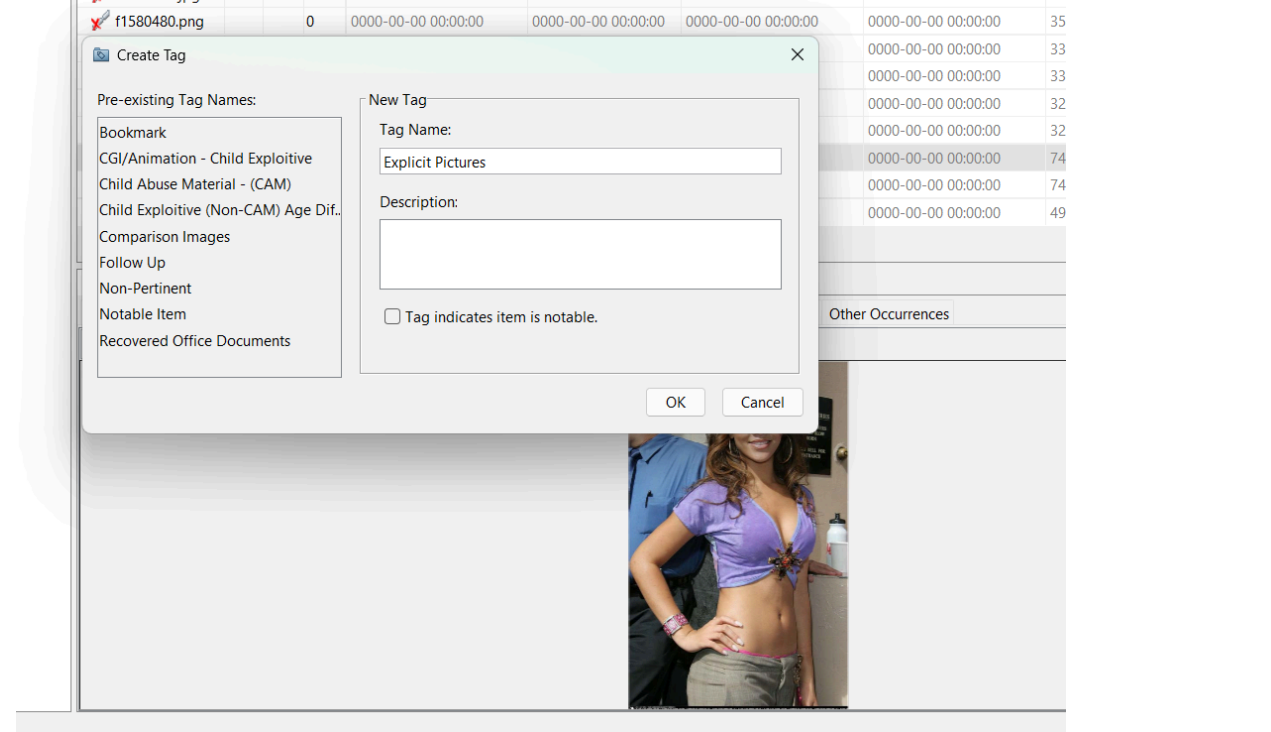
**Table Thumbnail Summary**

Name	S	C	O	Modified Time	Change Time	Access Time	Created Time	Size	Flags(Dir)	Flags(Meta)
x mingliuttc				2009-06-11 03:13:24 PKST	0000-00-00 00:00:00	2015-02-18 00:00:00 PKT	2015-02-18 16:08:36 PKT	32217124	Unallocated	Unallocated
x ARIALUNLTF				2002-11-18 17:44:04 PKT	0000-00-00 00:00:00	2015-02-18 00:00:00 PKT	2015-02-18 16:08:10 PKT	23275812	Unallocated	Unallocated
x msyht.ttf				2009-06-11 03:13:16 PKST	0000-00-00 00:00:00	2015-02-18 00:00:00 PKT	2015-02-18 16:08:56 PKT	21767952	Unallocated	Unallocated
x msjht.ttf				2009-06-11 03:13:26 PKST	0000-00-00 00:00:00	2015-02-18 00:00:00 PKT	2015-02-18 16:08:49 PKT	21663376	Unallocated	Unallocated
x batang.ttc				2009-06-11 03:13:52 PKST	0000-00-00 00:00:00	2015-02-18 00:00:00 PKT	2015-02-18 16:08:13 PKT	16264732	Unallocated	Unallocated
x simsunb.ttf				2009-06-11 03:13:20 PKST	0000-00-00 00:00:00	2015-02-18 00:00:00 PKT	2015-02-18 16:09:13 PKT	15406288	Unallocated	Unallocated
x simsun.ttc				2009-06-11 03:13:20 PKST	0000-00-00 00:00:00	2015-02-18 00:00:00 PKT	2015-02-18 16:09:09 PKT	15322200	Unallocated	Unallocated
x msyhdb.ttf				2009-06-11 03:13:18 PKST	0000-00-00 00:00:00	2015-02-18 00:00:00 PKT	2015-02-18 16:08:58 PKT	14602860	Unallocated	Unallocated
x msghbd.ttf				2009-06-11 03:13:26 PKST	0000-00-00 00:00:00	2015-02-18 00:00:00 PKT	2015-02-18 16:08:52 PKT	14512072	Unallocated	Unallocated














**Data Content**

Hex	Text	Application	File Metadata	OS Account	Data Artifacts	Analysis Results	Context	Annotations	Other Occurrences
Result: 1 of 1 Result									
Type	Value								Source(s)
Account Type	CREDIT_CARD								Keyword Search
ID	3333336000000								Keyword Search
Card Number	3333336000000								Keyword Search
Keyword	3333336000000								KeywordSearch
Set Name	Credit Card Numbers								Keyword Search
Keyword Preview	159@gnup 35" *6& n=3333336000000= #4xyt 6765 67#&								Keyword Search

f1640096.jpg	1	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00	37
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And will tag every explicit picture in that.

Name	S	C	O	Modified Time	Change Time	Access Time
 f1575680.jpg			0	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00
 f1575840.jpg			0	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00
 f1580384.jpg			0	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00
 f1649600.jpg			0	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00
 f1649504.jpg			0	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00
 f1580256.jpg			0	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00
 f1575968.jpg			0	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00
 f1648576.jpg			0	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00
 f1648480.jpg			0	0000-00-00 00:00:00	0000-00-00 00:00:00	0000-00-00 00:00:00