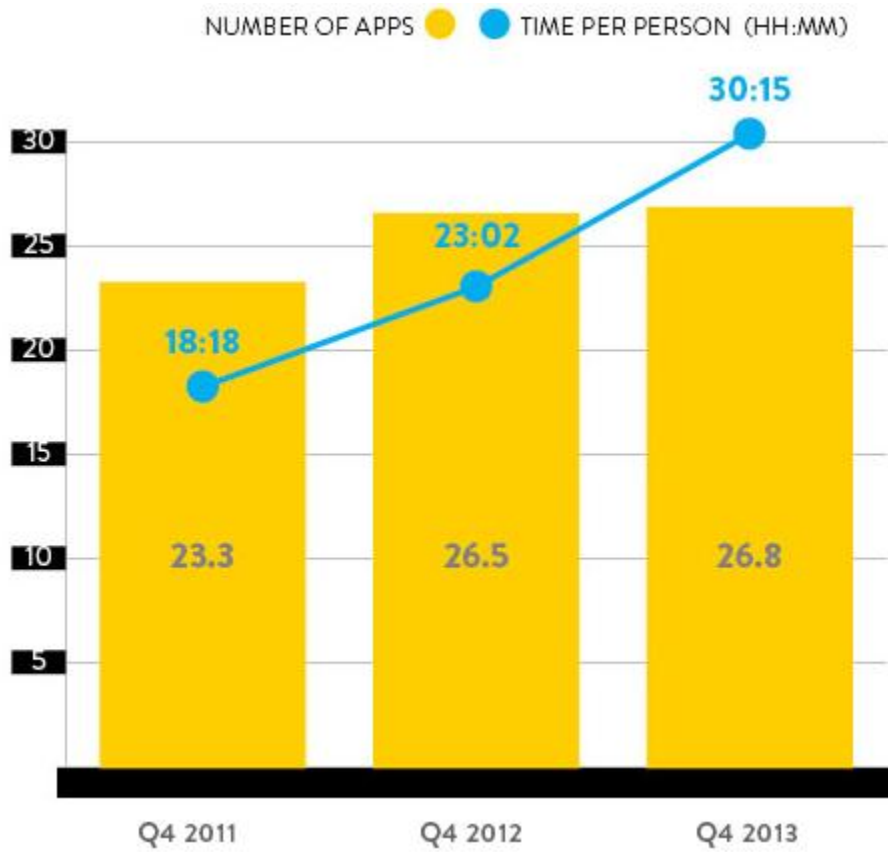
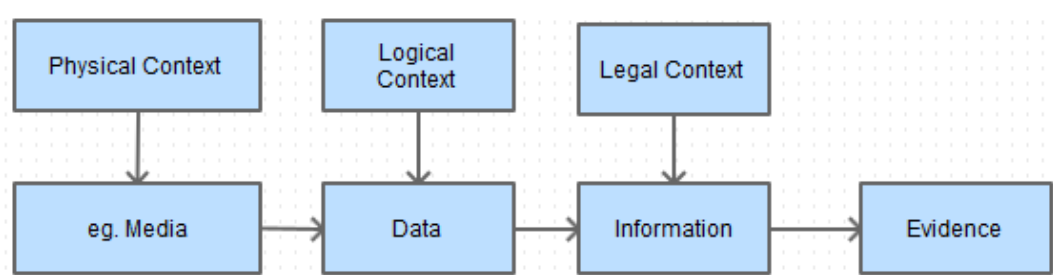
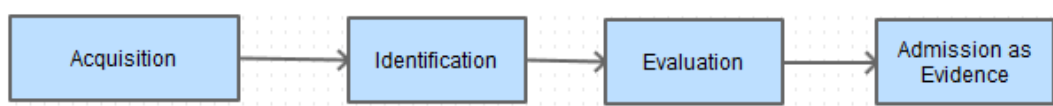
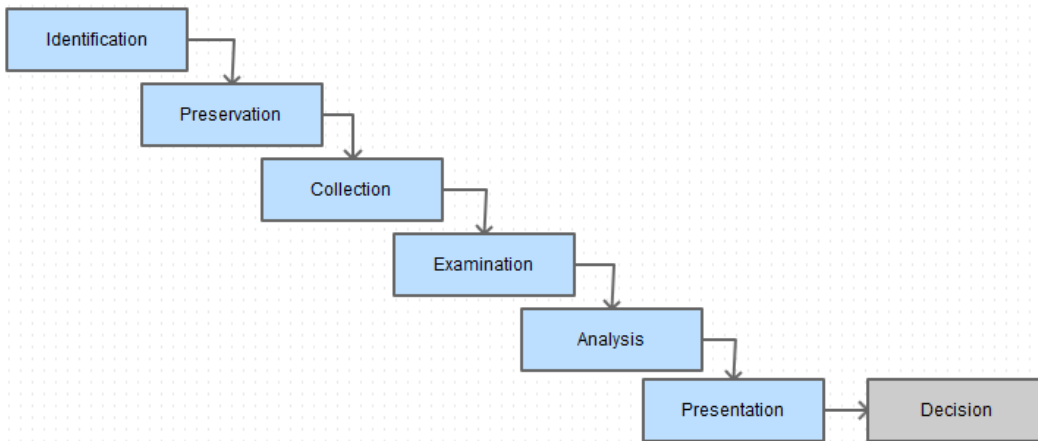


## Chapter 1: Mobile Forensics and the Investigation Process Model

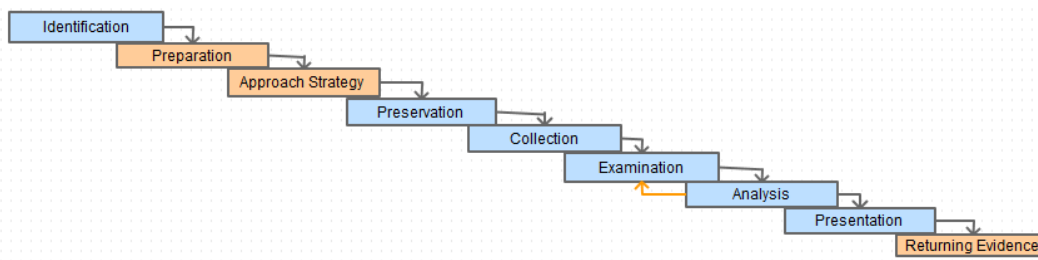


-----

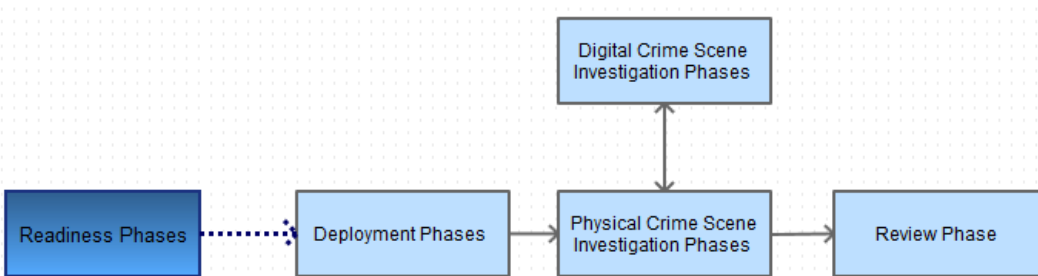




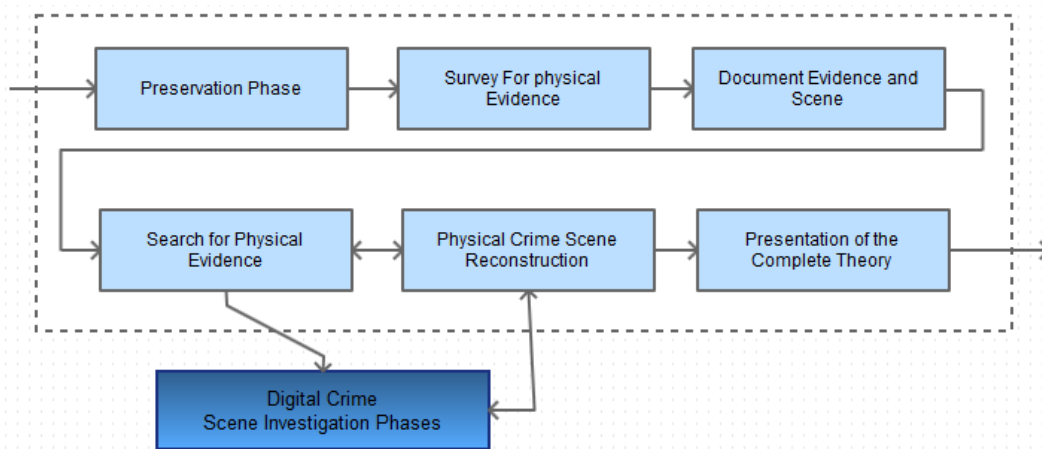
-----



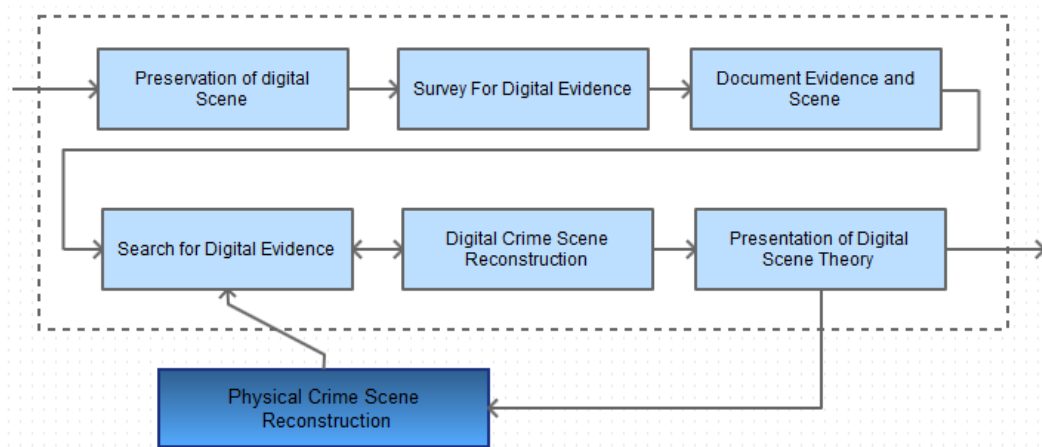
-----



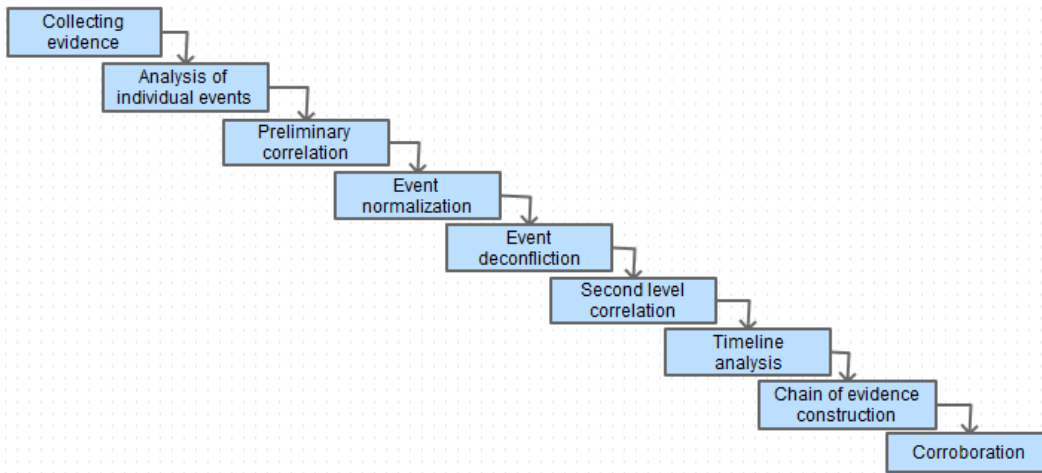
-----



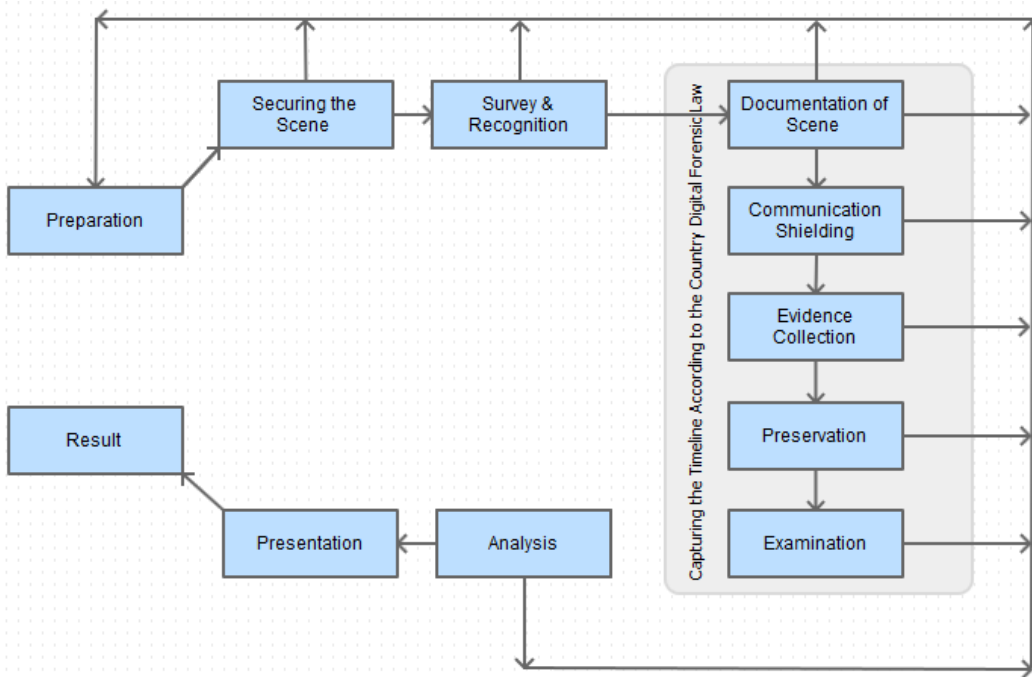
-----



-----



-----



## Chapter 2: Do It Yourself – Low-Level Techniques

<b>Start of Image (SOI) Marker</b> FFD8		
<b>Marker Number</b> FF??	<b>Data size</b> ???	<b>DATA</b> ?????...??
<b>Marker Number</b> FF??	<b>Data size</b> ???	<b>DATA</b> ?????...??
-----		
<b>Start of Stram (SOS) Marker</b> FFDA	<b>Data size</b> ???	<b>DATA</b> ?????...??
<b>Image Stream</b> ???????...????		
<b>End of Image (EOI) Marker</b> FFD9		

-----

SOI FFD8	APP1 Marker FFE1	APP1 Data XXXX 457869660000...
-------------	---------------------	-----------------------------------

-----

Offset	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	
0259B590	00	28	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0259B5A0	00	00	00	00	00	30	00	00	00	00	00	00	00	00	00	00	
0259B5B0	04	00	00	00	00	00	00	00	04	B3	1B	1B	1B	B3	1B	1B	
0259B5C0	1B	B3	1B	1B	1B	B3	1B	1B	1B	ED	79	29	E0	00	00		
0259B5D0	2												DE	C	80	07	30
0259B5E0	3												30	A	60	54	C1
0259B5F0	A												69	9	00	00	00
0259B600	0												03	0	0A	00	00
0259B610	0												3D	6	00	00	3D
0259B620	6												64	7	61	77	61
0259B630	6												34	2	61	73	70
0259B640	6												36	7	39	5F	73
0259B650	6												FF	D8	FF	E1	
0259B660	0												00	08	00	00	00
0259B670	0												11	44	75	63	6B
0259B680	7												FF	E1	03	8F	68
0259B690	7												6F	62	65	2E	63
0259B6A0	6												00	3C	3F	78	70
0259B6B0	6												3D	22	EF	8B	8F
0259B6C0	2												70	43	65	68	69
0259B6D0	4												63	39	64	22	3F

Find Hex Values

The following hex values will be searched:

FFD8FFE1

Use as wildcard: 3F

Search: Down

Cond.: offset mod 512 = 0

Search in block only

Search in all open windows

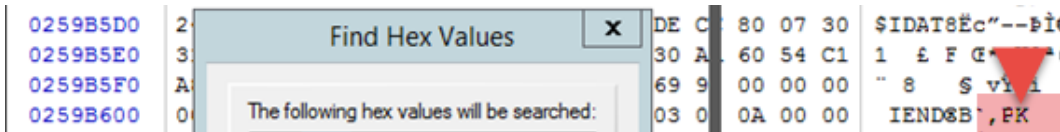
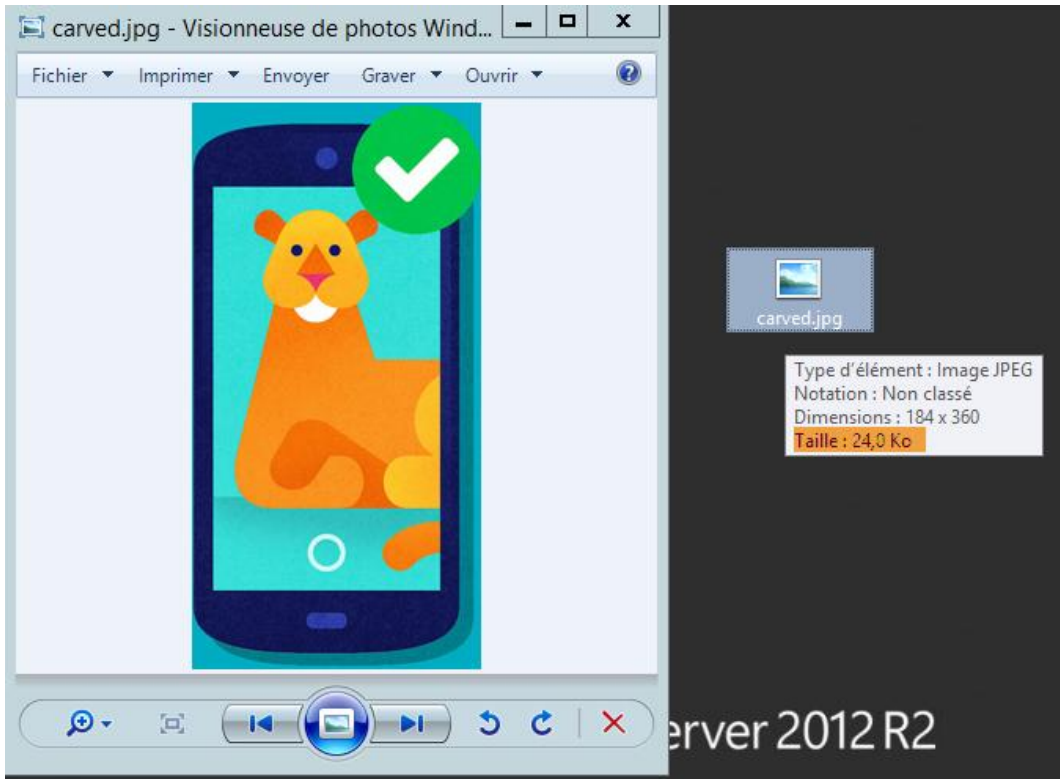
List search hits, up to 10000

OK Cancel Help

-----

Offset	0	1	2	3	4	5	6	7	8	9
025A1660	DA	9E	2A	57	3C	1E	E4	07	D0	D4
025A1670	27	34	DD	00	B6	36	B6	16	36	C1
025A1680	01	F5	E3	19	9A	C0	DB	82	86	F9
025A1690	D6	24	A0	42	50	21	7F	F	D9	50
025A16A0	08	00	00	80	34	22	44	4A	68	A5

-----



```

0259B600 00 49 45 4E 44 AE 42 60 82 50 4B 03 04 0A 00 00 IEND8B',PK
0259B610 08 00 00 80 34 22 44 D3 4E 43 3A 3D 60 00 00 3D €4"DÓNC:=` =
0259B620 60 00 00 34 00 01 00 72 65 73 2F 64 72 61 77 61 ` 4 res/drawa

```

Local File Header	File Data 1	Data Descriptor 1	Archive Decryption Header	Archive Extra Data Record	Central Directory
-------------------	-------------	-------------------	---------------------------	---------------------------	-------------------

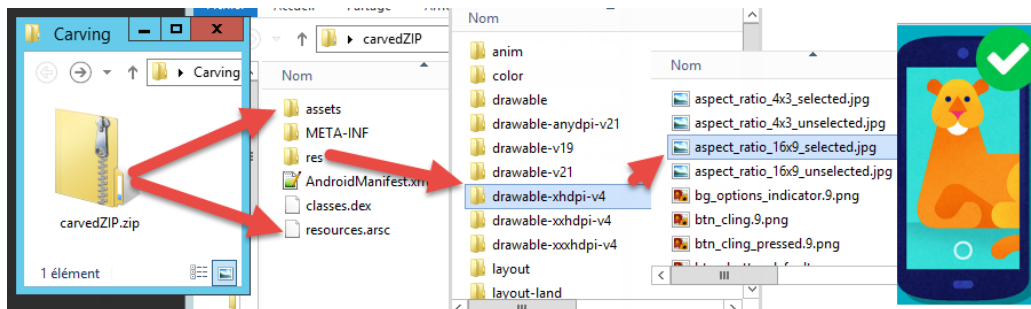


	0x0	0x1	0x2	0x3	0x4	0x5	0x6	0x7	0x8	0x9	0xa	0xb	0xc	0xd	0xe	0xf		
0x0000	Signature				Version				Flags		Compression		Mod time		Mod date		Crc-32	
0x0010	Crc-32		Compressed size				Uncompressed size				File name len		Extra field len					
0x0020	File name (variable size)																	
0x0030	Extra field (variable size)																	

```

0259B5F0 A8 02 38 00 00 1D A7 01 76 9F FA 69 90 00 00 00 8  $ vÿú
0259B600 00 49 45 4E 44 AE 42 60 82 50 4B 03 04 0A 00 00 IENDØB`,PK
0259B610 08 00 00 80 34 22 44 D3 4E 43 3A 3D 60 00 00 3D €4"lÓNC:-`-
0259B620 60 00 00 34 00 01 00 72 65 73 2F 64 72 61 77 61 ` 4 res/drawa
0259B630 62 6C 65 2D 78 68 64 70 69 2D 76 34 2F 61 73 70 ble-xhdpi-v4/asp
0259B640 65 63 74 5F 72 61 74 69 6F 5F 31 36 78 39 5F 73 ect_ratio_16x9_s
0259B650 65 6C 65 63 74 65 64 2E 6A 70 67 00 FF D8 FF E1 elected.jpg ýÿýá
0259B660 00 18 45 78 69 66 00 00 49 49 2A 00 08 00 00 00 Exif II*
0259B670 00 00 00 00 00 00 00 00 FF EC 00 11 44 75 63 6B ÿì Duck
0259B680 79 00 01 00 04 00 00 00 49 00 00 FF E1 03 8F 68 y I ýá h
0259B690 74 74 70 3A 2F 2F 6E 73 2E 61 64 6F 62 65 2E 63 ttp://ns.adobe.c

```



Address: Boulevard Al Oods, Casablanca, Moroc

Get GPS Coordinates

---

DD (decimal degrees)\*

Latitude: 33.5336731

Longitude: -7.656986111111111

Get Address

---

DMS (degrees, minutes, secondes)\*

Latitude:  N  S 33 ° 32 ' 1.223 "

Longitude:  E  W 7 ° 39 ' 25.15 "

Get Address



-----

WP\_20150412\_020.jpg

Offset	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
00006A60	00	00	00	01	00	00	00	00	01	1A	00	05	00	00	00	01
00006A70	00	00	6A	A8	01	1B	00	05	00	00	00	01	00	00	6A	B0
00006A80	01	28	00	03	00	00	00	01	00	02	00	00	02	01	00	04
00006A90	00	00	00	01	00	00	6A	00	02	02	00	04	00	00	00	01
00006AA0	00	00	1F	84	00	00	00	00	00	00	00	48	00	00	00	01
00006AB0	00	00	00	48	00	00	00	01	FF	DB	FF	DB	00	84	00	08
00006AC0	06	06	07	06	05	08	07	07	07	09	09	08	0A	0C	14	0D
00006AD0	0C	0B	0B	0C	19	12	13	0F	14	1D	1A	1F	1E	1D	1A	1C
00006AE0	1C	20	24	2E	27	20	22	2C	23	1C	1C	28	37	29	2C	30
00006AF0	31	34	34	34	1F	27	39	3D	38	32	3C	2E	33	34	32	01
00006B00	00	00	00	0C	0B	0C	18	0D	0D	18	33	31	1C	31	32	32
00006B10	23	9E	71	58	17	8E	99	E3	85	5A	B9	72	73	39	17	07
00006B20	39	A9	72	B8	F9	4A	13	CA	A0	F5	CD	73	1A	A4	DE	6D
00006B30	E3	00	4E	14	6D	C5	74	17	24	22	B3	1E	C3	35	CA	C8
00006B40	DB	DD	9B	AE	4E	69	C4	89	E8	7E	FF	D9	FF	DB	00	84

Page 114 of 8189      Offset: 6A83      = 3      Block:

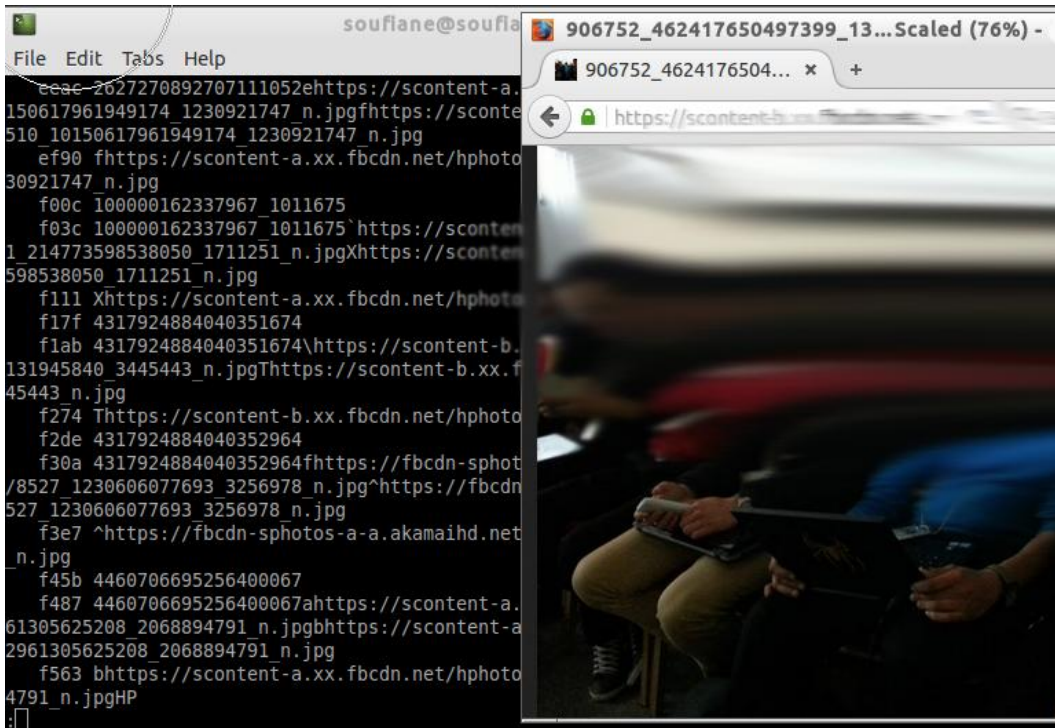
-----



-----

```
soufiane@soufiane-VirtualBox:~/Desktop$ strings --all --radix=x bin.bin
 6 Exif
 7e Adobe Photoshop CC 2015 (Windows)
 a0 2015:11:20 13:39:18
144 Adobe_CM
152 Adobe_
3f8c .gam
3fe2 '54,u0
4002 ?sSoufiane Tahiri : Passw0rd is hidden in a piccr
408f E0juPS
40ee U9\>oo
```

-----



-----

```
soufiane@soufiane-VirtualBox:~$ grep -E -o "\b[a-zA-Z0-9.-]+\@[a-zA-Z0-9.-]+\.[a-zA-Z0-9.-]+\b" -R /home/soufiane/Desktop/ddWP/lumia/  
/home/soufiane/Desktop/ddWP/lumia/Lumia001.txt: @6.14  
/home/soufiane/Desktop/ddWP/lumia/Lumia002.txt: @spiderweb.com.auwhatever  
/home/soufiane/Desktop/ddWP/lumia/Lumia002.txt: @apostrophiclab.com  
/home/soufiane/Desktop/ddWP/lumia/Lumia002.txt: s@yahoo.com  
/home/soufiane/Desktop/ddWP/lumia/Lumia002.txt: E@  
/home/soufiane/Desktop/ddWP/lumia/Lumia002.txt: ra@gmail.com  
/home/soufiane/Desktop/ddWP/lumia/Lumia002.txt: h@cadorian.com  
/home/soufiane/Desktop/ddWP/lumia/Lumia002.txt: t@themantisstudio.com  
/home/soufiane/Desktop/ddWP/lumia/Lumia002.txt: h@cadorian.com  
/home/soufiane/Desktop/ddWP/lumia/Lumia002.txt: P@9K  
/home/soufiane/Desktop/ddWP/lumia/Lumia002.txt: X@  
/home/soufiane/Desktop/ddWP/lumia/Lumia003.txt: l@gmail.com  
/home/soufiane/Desktop/ddWP/lumia/Lumia004.txt: h@cadorian.com  
/home/soufiane/Desktop/ddWP/lumia/Lumia004.txt: S@S  
/home/soufiane/Desktop/ddWP/lumia/Lumia004.txt: p-support@whatsapp.com  
/home/soufiane/Desktop/ddWP/lumia/Lumia005.txt: p-support@whatsapp.com  
/home/soufiane/Desktop/ddWP/lumia/Lumia005.txt: r@hotmail.fr  
/home/soufiane/Desktop/ddWP/lumia/Lumia005.txt: s@gmail.com  
/home/soufiane/Desktop/ddWP/lumia/Lumia005.txt: s@gmail.com  
/home/soufiane/Desktop/ddWP/lumia/Lumia005.txt: b@microsoft.com
```

-----

Encrypt or Decrypt:

Decrypt ▾

Chaining mode:

Electronic Code Book (ECB) ▾

Keysize:

256 Bits ▾

Key (hex values):

5575D3F563CB24BFD55CFE252F857E4235CD23E645FAE5B235CD23E645FAE5B

Message to decrypt (hex values):

18 35 E2 EB F3 93 D7 34 DE 47 CF 52 2F 4F 4A 28 E4 F8 2D 01 C9 7B 73 8A 28 C9 87 C1 3B 05 FF 8D

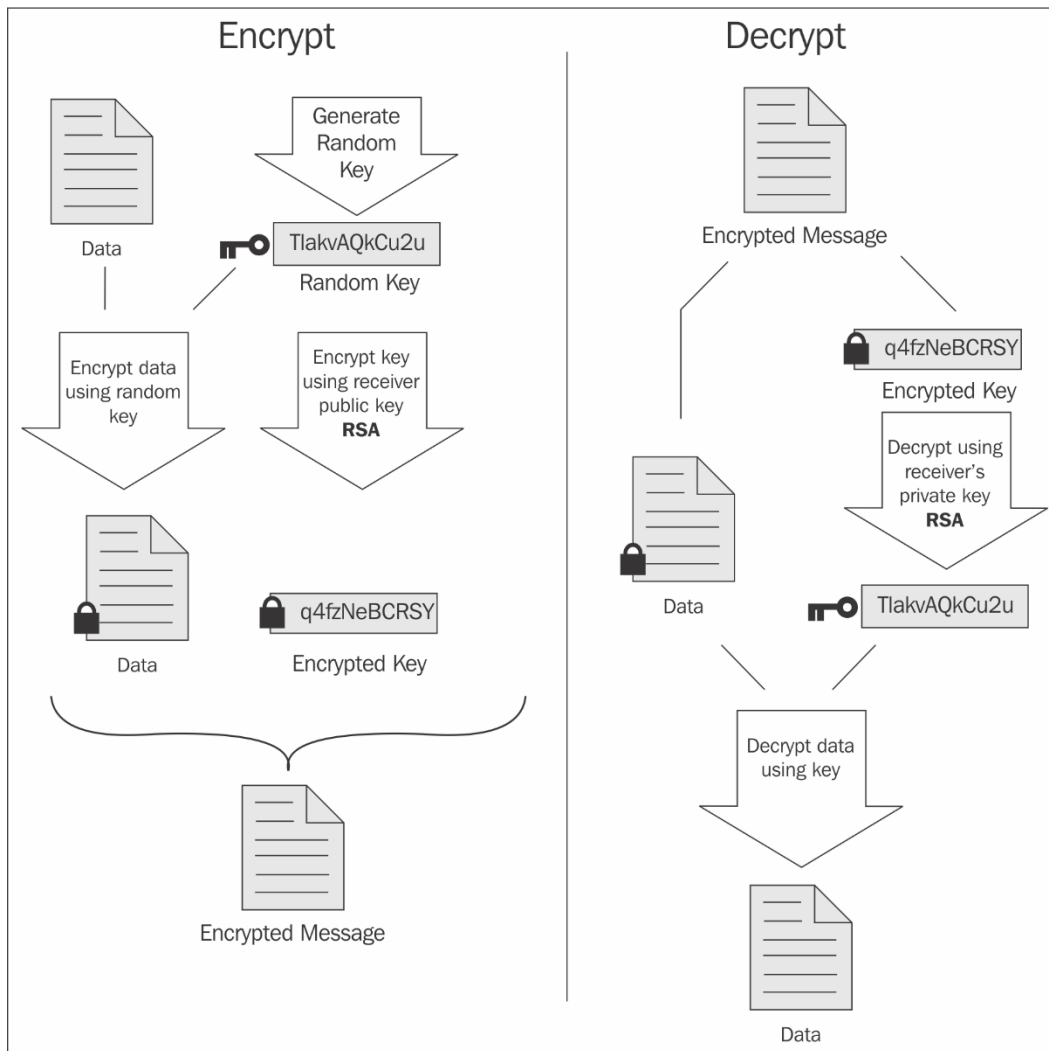
Message to decrypt (hex values):

18 35 E2 EB F3 93 D7 34 DE 47 CF 52 2F 4F 4A 28 E4 F8 2D 01 C9 7B 73 8A 28 C9 87 C1 3B 05 FF 8D

AES Output:

soufianetahiri@gmail.com

-----



-----

```
soufiane@soufiane-VirtualBox:~$ gpgdump /home/soufiane/Desktop/artifact.txt.gpg
Old: Public-Key Encrypted Session Key Packet(tag 1)(268 bytes)
  New version(3)
  Key ID - 0x3CF480556B845507
  Pub alg - RSA Encrypt or Sign(pub 1)
  RSA m^e mod n(2048 bits) - ...
  -> m = sym alg(1 byte) + checksum(2 bytes) + PKCS-1 block type 02
New: Symmetrically Encrypted and MDC Packet(tag 18)(95 bytes)
  Ver 1
  Encrypted data [sym alg is specified in pub-key encrypted session key]
  (plain text + MDC SHA1(20 bytes))
```

-----

Name	Description
jsr-305	folder
META-INF	folder
res	folder
AndroidManifest.xml	XML document
base.apk	Android package
classes.dex	unknown
resources.arsc	unknown

-----

Java Decompiler - a.class

File Edit Navigate Search Help

base-dex2jar.jar

a.a  
b  
a.a.a.a  
a  
a  
getIds  
getSes  
getSes  
getSes  
getSes  
setSes  
setSes  
b  
c  
d  
e

```

package b.a.a.a.a.a;

import java.util.Enumeration;

abstract class a
    implements SSLSessionContext
{
    public final Enumeration getIds()
    {
        throw new RuntimeException("Stub");
    }

    public SSLSession getSession(byte[] paramArrayOfByte)
    {
        throw new RuntimeException("Stub");
    }
}

```

-----

pre... > WP8RegistryToolsv1.1    Rechercher dans : WP8RegistryTools...

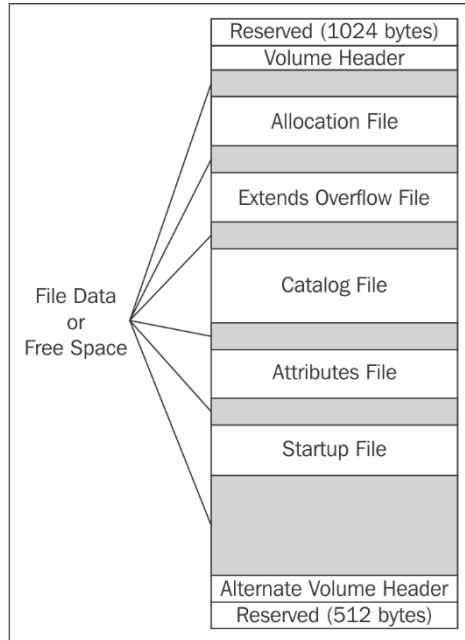
- Assets
- DwrEngine.dll
- Nokia.SilentInstaller.Runtime.dll
- NrsRuntime.dll
- Registry.dll
- RegistryRT.dll
- WMAAppManifest.xml
- WP8RegistryToolsv1.1.xap
- AppManifest.xaml
- DwrEngine.winmd
- Nokia.SilentInstaller.Runtime.winmd
- NrsRuntime.winmd
- Registry.winmd
- RegistryRT.winmd
- WP8Registry.dll

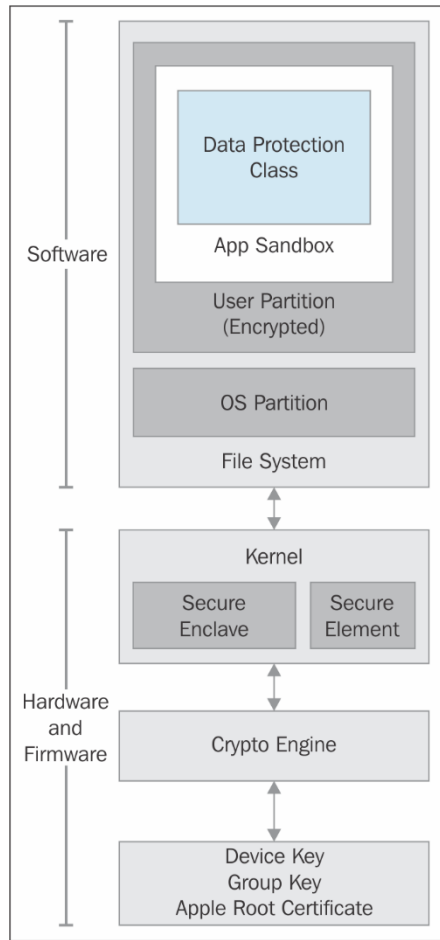
-----

- WP8Registry (1.0.0.0)
  - References
  - Resources
  - 
  - WP8Registry
    - App
    - LocalizedStrings
    - MainPage
      - Base Types
      - Derived Types
      - \_contentLoaded : bool
      - btnGet : Button
      - btnSet : Button

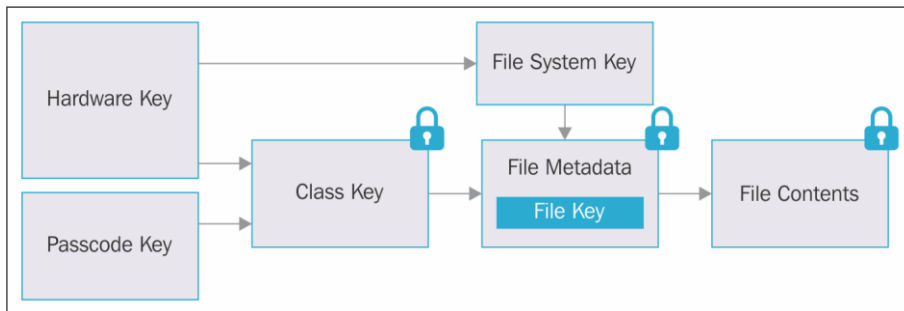


## Chapter 3: iDevices from a Forensic Point of View

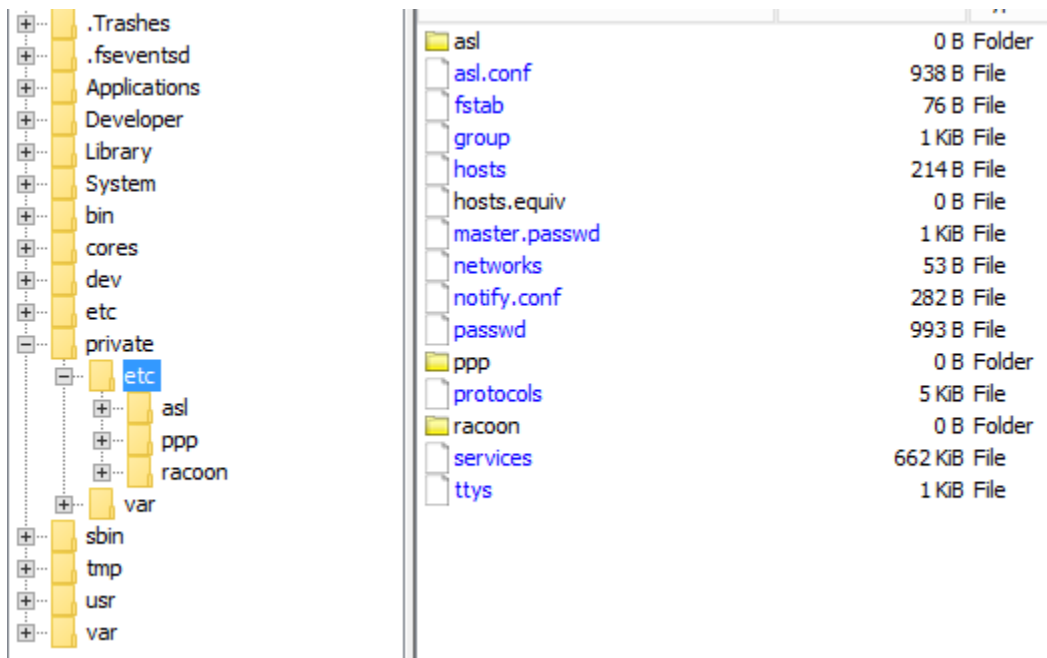




-----



-----



-----

```

1 ##
2 # User Database
3 #
4 # This file is the authoritative user database.
5 ##
6 nobody:*:-2:-2:Unprivileged User:/var/empty:/usr/bin/false
7 root:/smx7MYTQIi2M:0:0:System Administrator:/var/root:/bin/sh
8 mobile:/smx7MYTQIi2M:501:501:Mobile User:/var/mobile:/bin/sh
9 daemon:*:1:1:System Services:/var/root:/usr/bin/false
10 _ftp:*:98:-2:FTP Daemon:/var/empty:/usr/bin/false
11 _networkd:*:24:24:Network Services:/var/networkd:/usr/bin/false
12 _wireless:*:25:25:Wireless Services:/var/wireless:/usr/bin/false
13 _neagent:*:34:34:NEAgent:/var/empty:/usr/bin/false
14 _securityd:*:64:64:securityd:/var/empty:/usr/bin/false

```

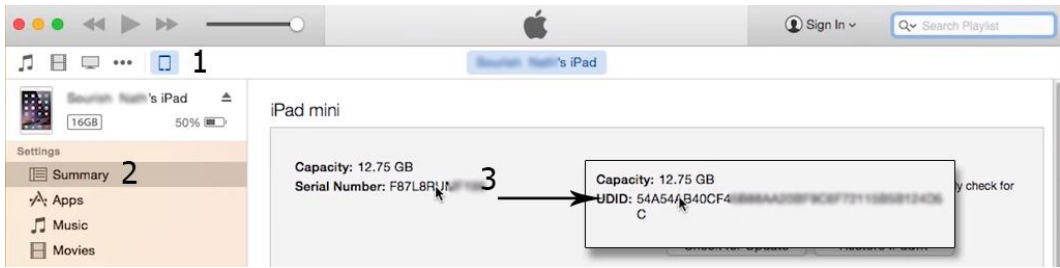
-----

```

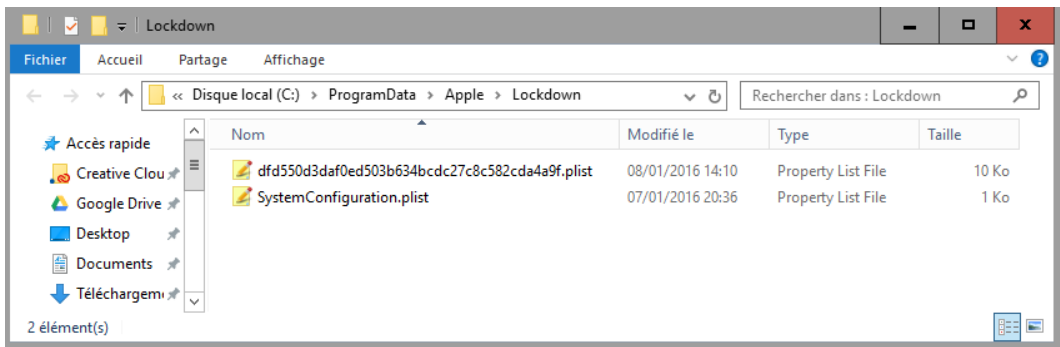
soufiane@soufiane-VirtualBox:~$ date -u -d @1451865600
Mon Jan  4 00:00:00 UTC 2016

```

-----



-----



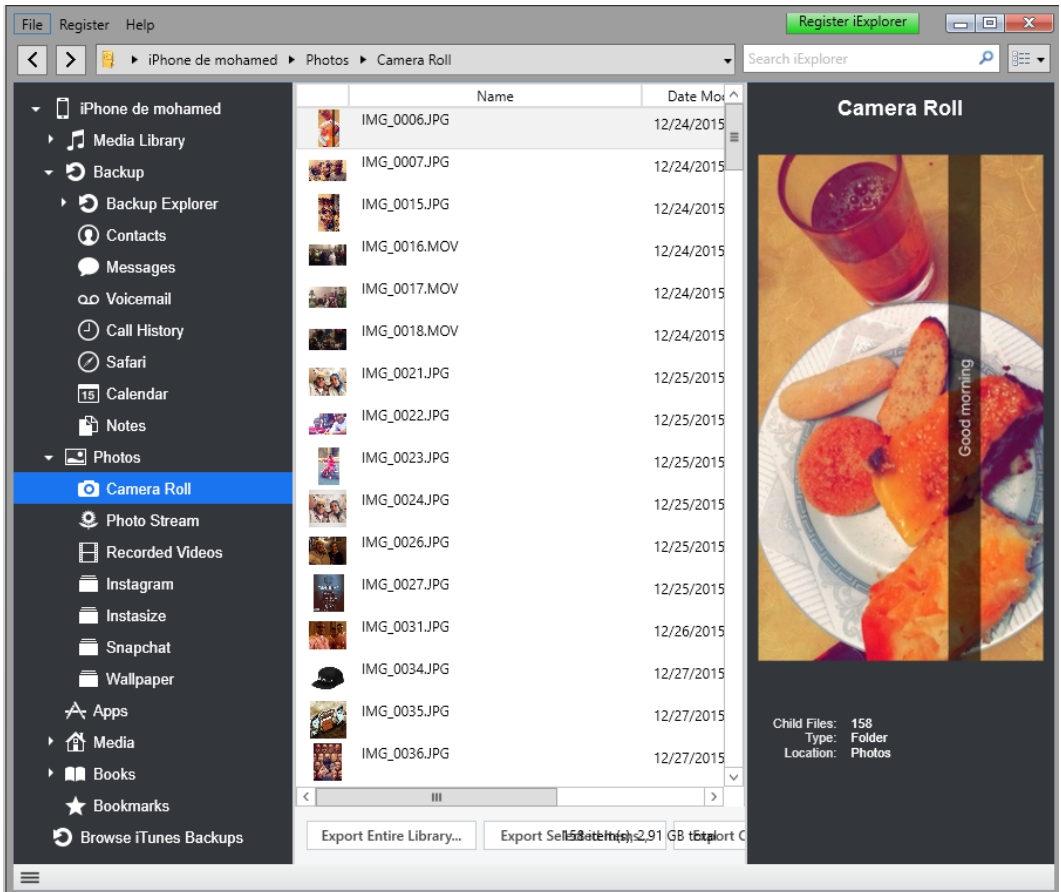
-----



-----



-----



-----

**Automatically Back Up**

**iCloud**  
Back up the most important data on your iPhone to iCloud.

**This computer**  
A full backup of your iPhone will be stored on this computer.

**Encrypt iPhone backup**  
This will allow account passwords, Health, and HomeKit data to be backed up.  
[Change Password...](#)

**Manually Back Up and Restore**  
Manually back up your iPhone to this computer or restore a backup stored on this computer.

**Latest Backup:**  
Your iPhone has never been backed up to this computer.

-----

Connected



Apple  
iPhone 5  
iPhone de mohamed



Connected to USB

Extraction date:  
<not available>

Report Wizard



Connect

SIM Clone

iTunes Backups

Cases


Hex Dump

Photo Viewer

Forensic Reports

-----

MOBILedit! Forensic Wizard x

**Choose type of extraction** 

You can choose the method of extraction for the device data.

The data from a connected device can be extracted in several ways. Complete extraction is time consuming but provides much more data and will even include data stored in the cloud.

Complete extraction utilizing the device backup (recommended)

Simple extraction using the current connection


**Creating the device backup will require a considerable amount of time**

< Back Next > Cancel

-----



MOBILedit! Forensic Wizard x

**Data acquire settings** 

Please set the following options for data acquiring.  
Data will be stored in the "Cases" folder.

Device Label:

Device Name:  Device Evidence Number:

Owner Name:  Owner Phone Number:

Phone Notes:

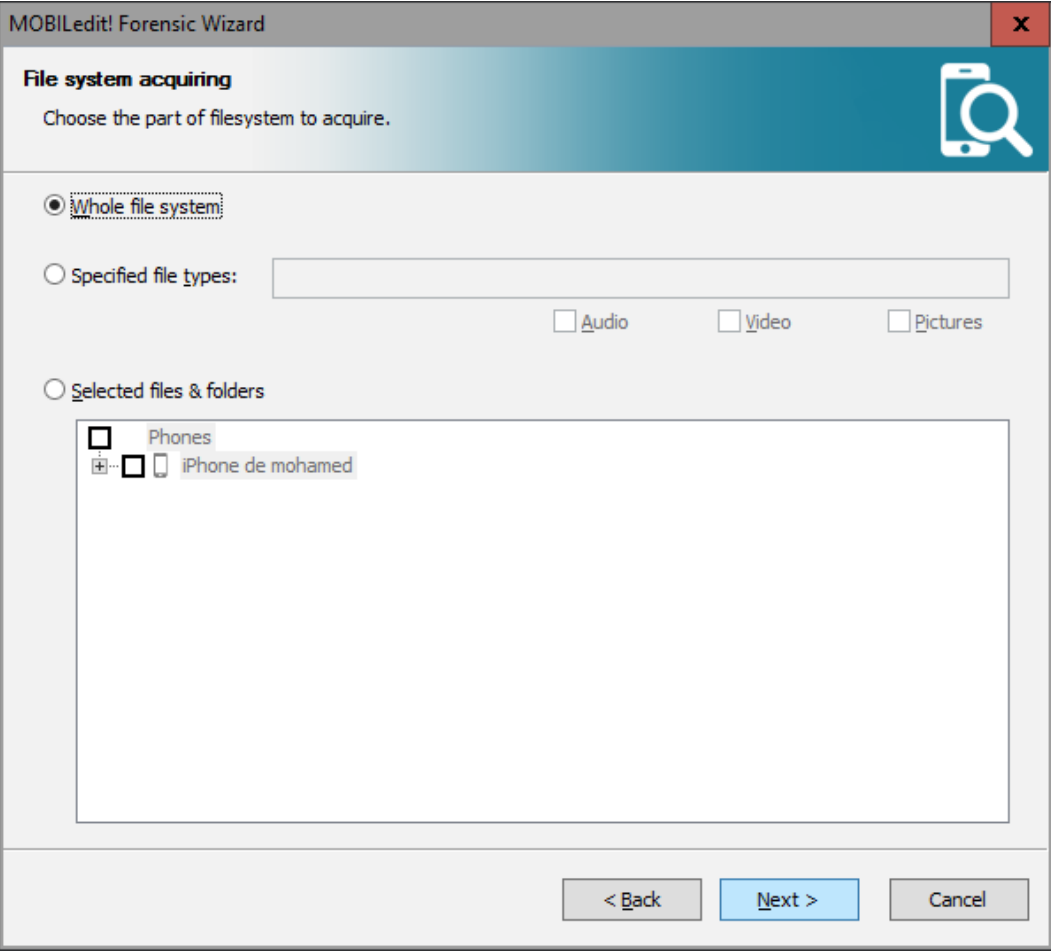
Device Capabilities

- Phonebook
- Applications
- Application Data
- Files
- Media
- Organizer

Communication Log Of Backup Operation


Create:

-----



-----

MOBILedit! Forensic Wizard X

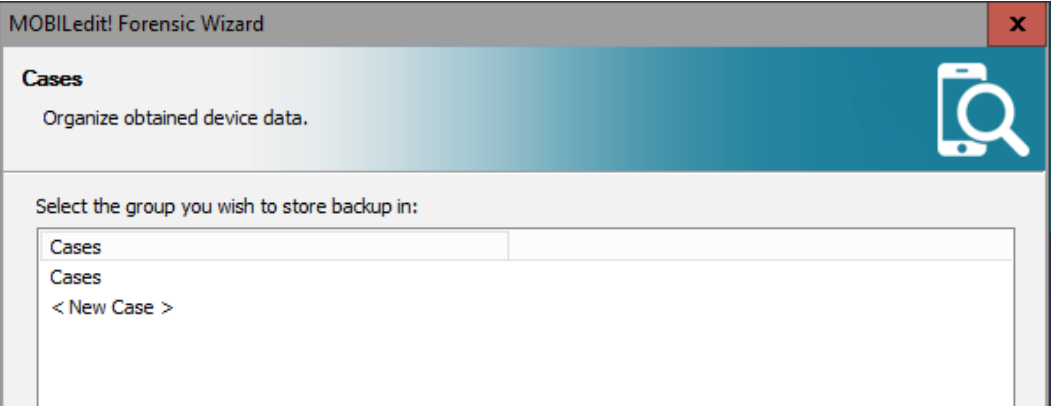
**Data acquiring** 

Acquiring of selected data may take a while.

Item	Status
Data acquisition started on	08/01/2016 20:44:55
Calendar	L'opération a réussi.
Notes	L'opération a réussi.
Phonebook	L'opération a réussi.
Filesystem: Info	L'opération a réussi.
Filesystem: InstaSize	L'opération a réussi.
Filesystem: com.apple.AccountAuthe...	L'opération a réussi.
Filesystem: com.apple.AdSheetPhone	L'opération a réussi.
Filesystem: com.apple.AppStore	L'opération a réussi.
Filesystem: com.apple.AskPermissionUI	L'opération a réussi.
Filesystem: com.apple.Bridge	L'opération a réussi.
Filesystem: com.apple.CloudKit.Shar...	L'opération a réussi.
Filesystem: com.apple.CompassCalibr...	L'opération a réussi.
Filesystem: com.apple.CoreAuthUI	L'opération a réussi.
Filesystem: com.apple.DemoApp	L'opération a réussi.
Filesystem: com.apple.Diagnostics	L'opération a réussi.
Filesystem: com.apple.Diagnostics.Mi...	L'opération a réussi.


Reading file "com.apple.mobilemail.icon.png" from "iPhone de mohamed"...

-----



-----

MOBILedit! Forensic Wizard X

**New case** 

Create a new case for obtained data.

---

**Case Details**

Label:

Number:

**Notes**

Some notes here

---

**Investigator Details**

Name:

E-mail:

Phone Number:

< BackNext >Cancel

-----

Pangu Jailbreak For iOS 9(v1.0.0)

- X



iPhone[iPhone7,1 iOS9.0.1(Jailbreak ready)]

Start



-----

 Jailbreak Notice

Please carefully read the following notice

- 1 / Jailbreak may lead to data loss. Please make a full backup with iTunes before using Pangu jailbreak tool. Use the tool at your own risk.
- 2 / Please enable the airplane mode for improving the speed and success rate of the tool.
- 3 / We suggest you backup your device and restore it, if your devices have many apps installed or use much data

Cancel

Already backup



-----

Pangu Jailbreak For iOS 9(v1.0.0)

- x



Please unlock the device and run the Pangu app(297)

Start



-----



Pangu Jailbreak For iOS 9(v1.0.0)

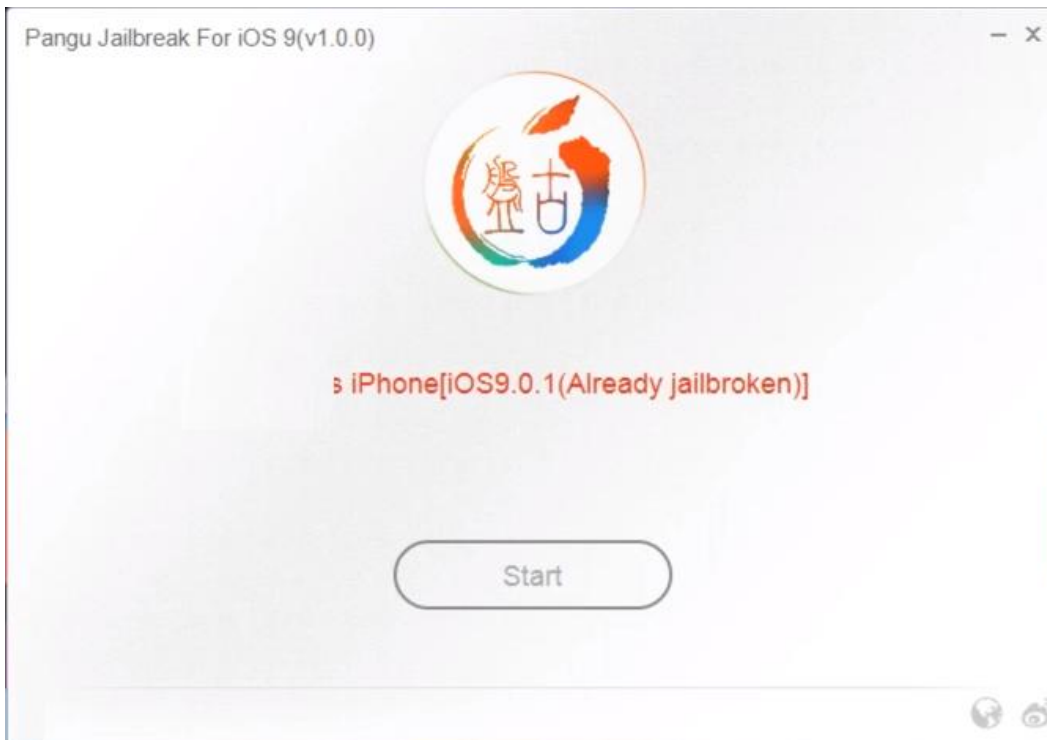


Please follow the displayed instructions and ALLOW it to access photos

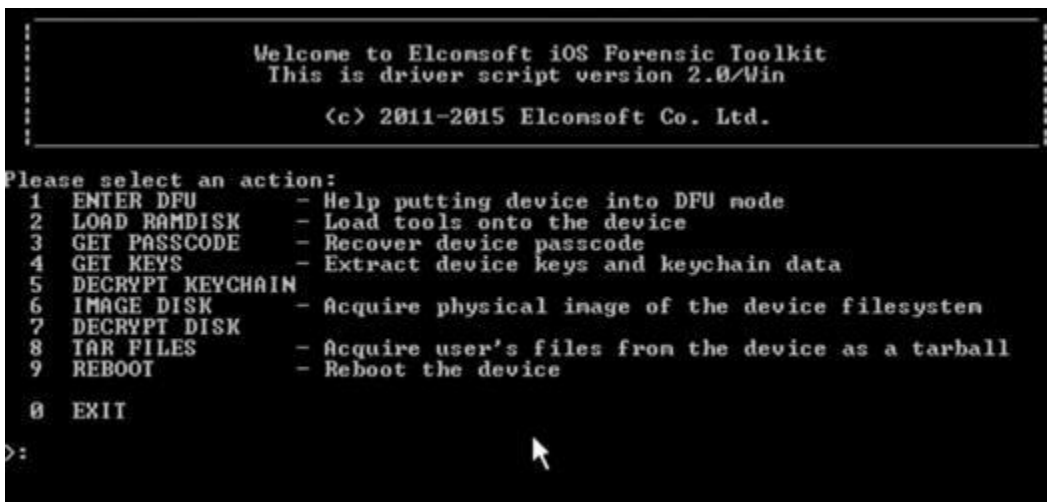
Start



-----



-----



-----

Please make sure that the device is plugged in and switched off.

If necessary, connect the device and switch it off by holding Sleep (corner) button and dragging the red slider when it appears.

Would you like to continue? (Y/n): y

To put iOS device into DFU you will need to:

1. Push and hold Sleep (corner) and Home (center) buttons for 10 seconds.
2. Release Sleep button but continue to hold Home button for another 10 seconds.

This script will help you with the timings.

When you are ready press 'Enter' and be prepared to press Sleep and Home buttons in 3 seconds.

-----

Release Home button.

Your iOS Device should be in DFU mode now.

Device screen should be blank, device should look like it is off.  
If screen shows Apple or iTunes logo then device is not in DFU mode.  
In this case reboot the device and try again.

Would you like to load Toolkit Randisk now? (Y/n): y

-----

Welcome to Elconsoft iOS Forensic Toolkit  
This is driver script version 2.0/Win

(c) 2011-2015 Elconsoft Co. Ltd.

Detecting device type...  
Shutting down iTunes processes.  
Checking the device type  
Identified device as iPhone3,1  
Initializing libpoison  
Shutting down iTunes processes.  
Waiting for device in DFU mode to connect...  
Found device in DFU mode  
Checking if device is compatible with this Checking the device type  
jailbreak  
Identified device as iPhone3,1Preparing to upload limerain exploit  
Resetting device counters  
Sending chunk headers

-----

```
Welcome to Elcomsoft iOS Forensic Toolkit
This is driver script version 2.0/Win
(c) 2011-2015 Elcomsoft Co. Ltd.
```

```
Device keys file <keys.plist>: keys.plist
Write decrypted image to file <keychain.txt>: keychain.txt
```

-----

```
Welcome to Elcomsoft iOS Forensic Toolkit
This is driver script version 2.0/Win
(c) 2011-2015 Elcomsoft Co. Ltd.
```

```
Please note that to obtain files from the device you need to load ramdisk
on the iOS device first. If you haven't done this yet, please return
to previous step and use corresponding menu item.
```

```
Continue? <Y/n>: y
Store files to archive <user.tar>: userfiles.tar
```

```
Mounting user partition...
Detecting iOS version...
Detected iOS
rawwrite dd for windows version 0.6beta3.
Written by John Newbigin <jn@it.swin.edu.au>
This program is covered by terms of the GPL Version 2.
3,075,584
```

-----

```
Welcome to Elcomsoft iOS Forensic Toolkit
This is driver script version 2.0/Win
```

```
(c) 2011-2015 Elcomsoft Co. Ltd.
```

```
Please note that to obtain device disk image you need to load ramdisk
on the iOS device first. If you haven't done this yet, please return
to previous step and use corresponding menu item.
```

```
Please select partition to image:
```

- 1 System (rdisk0s1s1) -- this one is NOT ENCRYPTED
- 2 User (rdisk0s1s2) -- this one is ENCRYPTED

```
0 Back
```

```
>: 2
```

```
Save image to file <user.dmg>: userfiles.dmg
```

```
rawwrite dd for windows version 0.6beta3.
```

```
Written by John Newbiggin <jn@it.swin.edu.au>
```

```
This program is covered by terms of the GPL Version 2.
```

```
28,958M
```

```
0+926506 records in
```

```
0+926506 records out
```

```
28958+1 records in
```

```
28958+1 records out
```

```
30365065216 bytes (30 GB) copied, 5019.23 s, 6.0 MB/s
```

```
Imaging done.
```

```
Press 'Enter' to continue
```

```
Welcome to Elcomsoft iOS Forensic Toolkit
This is driver script version 2.0/Win
```

```
(c) 2011-2015 Elcomsoft Co. Ltd.
```

```
Encrypted image file <user.dmg>: userfiles.dmg
```

```
Device keys file <keys.plist>: keys.plist
```

```
Write decrypted image to file <userfiles-decrypted.dmg>: _
```

```

[INFO] Key "EscrowKeyBag" not found
[INFO] Complete key set is loaded, everything should be decryptable.
[INFO] Image encryption statistics:
[INFO] 6720 files total: 6626 encrypted + 94 not encrypted.
[INFO] 6626 files can be decrypted (out of 6626 encrypted files).
[INFO] Input image contains 3706673 blocks of 8192 bytes.
[100%] 28.28 of 28.28 Gb decrypted
SHA1(userfiles-decrypte.dmg) = 8a6049227629023fc809d9a62ee69d4eac5200d8

Press 'Enter' to continue

```

-----

« Backup » dfd550d3daf0ed503b634bc27c8c582cda4a9f Rechercher dans : dfd550d3daf

	Nom	Modifié le	Type	Taille
loud F	30cc5c0a1f5e5763a721cc302d4c5edce5e6...	09/01/2016 01:26	Fichier	3 Ko
ve	30dec641efb1a1f07cf4cf1a83907efb2d1b...	09/01/2016 01:22	Fichier	49 Ko
	30e3f0efd9660bc6f05d0db328b25c7e944c...	09/01/2016 01:26	Fichier	193 Ko
	30ea07192e37b825fbd968844364929c138...	09/01/2016 01:26	Fichier	118 Ko
s	30ee15927a823de257fd1f8af603b7beafe5...	09/01/2016 01:26	Fichier	3 025 Ko
ment:	30fe0bf2a52c93b07075d6fb8c85c15a568f...	09/01/2016 01:26	Fichier	17 Ko
	031e7af4a46ce9d23fd49c1d5791754c6af3...	09/01/2016 01:28	Fichier	5 Ko
ill	31bb7ba8914766d4ba40d6dfb6113c8b614...	09/01/2016 01:22	Fichier	1 041 Ko
	31bc2525563764936ce99e637b188f962ec3...	09/01/2016 01:28	Fichier	2 Ko
ools	31d0213710559efd6181d4f3ec65a409d4e2...	09/01/2016 01:22	Fichier	1 Ko
	31e6bca0469c7d628091b945c45f996284f1...	09/01/2016 01:26	Fichier	27 Ko
	32c8d0c7cce3693390e90fde3f7f4599d223...	09/01/2016 01:28	Fichier	4 Ko
ud Files	32f3147958d2515390af648a7d9c6d6e41ac...	09/01/2016 01:22	Fichier	9 Ko
	33a42b6417d713755842119f40d024faa6c5...	09/01/2016 01:27	Fichier	2 264 Ko
	33e6b564d44d2909ef1beb7718389fb2e98...	09/01/2016 01:26	Fichier	1 Ko
	034eac2aa80463d6b619f7e8169fd3b85dc2...	09/01/2016 01:26	Fichier	5 Ko
	34b81f7ae8679864e18329d2ddecd5eae1d...	09/01/2016 01:28	Fichier	2 Ko
	34e8b19d73bb2771c99d2ed497994ceb6c1...	09/01/2016 01:26	Fichier	40 Ko
entiel	35ad1741e313cbf56438eaf4bc20b53620e2...	09/01/2016 01:26	Fichier	30 Ko
	35af7910c7262b99c97baf61a11d4454d5fb...	09/01/2016 01:22	Fichier	8 Ko
	35bd84cceb82d804a3eefd3b9452fb49f5b...	09/01/2016 01:22	Fichier	1 Ko

-----



Key	Type	Value
Root	dict	
Applications	dict	
BackupKeyBag	data	...
Date	date	2016-01-09T01:15:33Z
IsEncrypted	boolean	false
Lockdown	dict	
BuildVersion	string	13C75
DeviceName	string	iPhone de mohamed
ProductType	string	iPhone5,2
ProductVersion	string	9.2
SerialNumber	string	C37JWNN2DTWD
UniqueDeviceID	string	dfd550d3daf0ed503b634b6
com.apple.Accessibility	dict	
com.apple.MobileDeviceCr	dict	
com.apple.TerminalFlashr	dict	
com.apple.mobile.data_syn	dict	
com.apple.mobile.iTunes.a	dict	
com.apple.mobile.wireless_	dict	
SystemDomainsVersion	string	24.0
Version	string	9.1
WasPasscodeSet	boolean	true

-----

Key	Type	Value
Root	dict	
BackupState	string	new
Date	date	2016-01-09T01:15:38Z
IsFullBackup	boolean	false
SnapshotState	string	finished
UUID	string	B8F1118C-A251-4AA0-AC
Version	string	2.4

-----



Display Name	Name	Files	Size	App Size
com.miniclip.8ballpoolmult	com.miniclip.8ballpoolmult	11	683 232	
com.google.chrome.ios.TodayExtension	com.google.chrome.ios.TodayExtension	N/A	0	
com.google.chrome.ios	com.google.chrome.ios	9	205 518	
com.firsttouch.dts	com.firsttouch.dts	13	993 244	
com.facebook.Messenger.ShareExten...	com.facebook.Messenger.ShareExten...	N/A	0	
com.facebook.Messenger	com.facebook.Messenger	54	435 585	
com.facebook.Facebook	com.facebook.Facebook	51	303 821	
com.cmplay.tiles2	com.cmplay.tiles2	104	1 995 881	
com.burbin.instagram.watchkitextension	com.burbin.instagram.watchkitextension	N/A	0	
com.burbin.instagram	com.burbin.instagram	8	1 661 640	
com.apple.WebViewService	com.apple.WebViewService	N/A	0	

Name	Size	Date	Domain	Key
Documents/_sessionlessStore/preferences_v1/10000265472...	2 857	08/01/2016 11:03:16	AppDomain-com.facebook.Messenger	2821fd20397de84217b29f0e07809e066d0
Documents/_sessionlessStore/preferences_v1/com.facebook...	42	24/12/2015 00:20:11	AppDomain-com.facebook.Messenger	fe237c6fa27556c673c7b0f0a5fdec3e9f97c
Documents/_sessionlessStore/preferences_v1/manifest_v1.sq...	16 384	08/01/2016 19:46:04	AppDomain-com.facebook.Messenger	465dd5237531eaffae5ead7b986091ecc45
Documents/_sessionlessStore/preferences_v1/VideoStorage...	42	24/12/2015 00:18:27	AppDomain-com.facebook.Messenger	7b33910ef210d1a38cca5ac9b58a3b37c1f5
Documents/analyticscore/beacon realtime	16	08/01/2016 11:03:10	AppDomain-com.facebook.Messenger	519117a88aad6799ad7392e237d7333e9c
Documents/analyticscore/beacon regular	16	08/01/2016 11:03:10	AppDomain-com.facebook.Messenger	5db32daf0596a53d3df4f592709aa181870bc
Documents/analyticscore/event realtime	16	08/01/2016 11:03:10	AppDomain-com.facebook.Messenger	39b5d30ec3c384dc3d438a753a813bad60c
Documents/analyticscore/event regular	16	08/01/2016 11:03:10	AppDomain-com.facebook.Messenger	7a8f1d2eddcf6c0dc5eb3bf23909ac4617ec
Documents/analyticscore/fba_regular_0_3282db14-5f90f33b...	1 573	01/01/2016 13:27:37	AppDomain-com.facebook.Messenger	35c6d421e224acbf8ecd81f83270c3a8282b
Documents/analyticscore/fba_regular_0_5948504b-8d9a-6a2...	1 420	25/12/2015 20:01:38	AppDomain-com.facebook.Messenger	bb52853494eda7dcb3971b8e1cf3359c17dc
Documents/analyticscore/fba_regular_0_766ac184-2246-3a3...	2 634	27/12/2015 00:45:55	AppDomain-com.facebook.Messenger	a628f9dd0fc3a93171e2cb293c9677567c9
Documents/analyticscore/fba_regular_0_a07d7003-0722-907...	2 636	05/01/2016 21:15:24	AppDomain-com.facebook.Messenger	0118605414ed3c9df34edfaaa644e9009f44e
Documents/analyticscore/fba_regular_0_dad1f4e-1078-386e...	2 788	25/12/2015 13:37:51	AppDomain-com.facebook.Messenger	0e23fa71d4716da9b652059d9d30b036f188
Documents/application_status_snapshot	842	08/01/2016 11:04:00	AppDomain-com.facebook.Messenger	673445dc493203bf19e8e788aa2cc75ae75
Documents/proxy_video_data_usage_stats	951	27/12/2015 13:59:28	AppDomain-com.facebook.Messenger	4df4ba43c08833e2b102caa90b89d80bf32a
Documents/proxy_video_watching_time_tracker	261	08/01/2016 11:03:55	AppDomain-com.facebook.Messenger	7dc4f85863f196037a3255234255604b3dd
Library/com.facebook.sdk-AppEventsTimeSpent.json	85	08/01/2016 11:03:54	AppDomain-com.facebook.Messenger	24e411812d04d45cb6221ec2470ee77208b6c
Library/com.facebook.sdk-PersistedAnonymousID.json	52	25/12/2015 20:01:32	AppDomain-com.facebook.Messenger	6c1483622ec193a45ecb6296a461bd781c3
Library/Cookies/Cookies.binarycookies	758	01/01/2016 02:21:17	AppDomain-com.facebook.Messenger	8e72075e71be50d2498a499928a5e60fa5e
Library/Cookies/Cookies.binarycookies_tmp_1023_0.dat	758	25/12/2015 13:37:53	AppDomain-com.facebook.Messenger	2b03b6c5d77246bf0b18f73b55d17b7173a9
Library/Cookies/Cookies.binarycookies_tmp_2689_0.dat	758	29/12/2015 21:49:38	AppDomain-com.facebook.Messenger	859ab59828f126bcf797d818b6b7cc91880
Library/Cookies/Cookies.binarycookies_tmp_3353_0.dat	758	01/01/2016 13:27:38	AppDomain-com.facebook.Messenger	6cb3a476d22fd6d8c7d7e3a6f4884a0893d4
Library/Preferences/com.facebook.Messenger.plist	306 861	08/01/2016 11:03:57	AppDomain-com.facebook.Messenger	0ba8559bd5e366782b1e5d846c3bb94a71f4
Library/Preferences/UITextInputContextIdentifiers.plist	8 977	06/01/2016 00:05:55	AppDomain-com.facebook.Messenger	dc297509dfdc80139312d4ac3a8bb7e4c7df
Library/WebKit/WebsiteData/LocalStorage/https_m.facebook...	12 288	24/12/2015 00:17:59	AppDomain-com.facebook.Messenger	d67f73e69887d727614a39d31f0b2cf8fbc
Library/WebKit/WebsiteData/LocalStorage/StorageTracker.db	12 288	08/01/2016 11:03:12	AppDomain-com.facebook.Messenger	df1f623129453825328421b1077c2ad27f0c

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The image shows a screenshot of the iPhone Analyzer application window. The window title is "iPhone Analyzer" and it has a menu bar with "File", "Edit", "Search", and "Help". Below the menu bar, the text "iPhone Analyzer" is displayed. A message says "To begin, select an iOS device backup to open." Below this is a file path: "C:\Users\Soufiane\AppData\Local\Apple Computer\MobileSync\Backup". A red box highlights two backup entries: "iPhone5,2: iPhone de mohamed v9.2 - Sat Jan 09 01:28:" and "iPhone5,2: iPhone de mohamed v9.2 - Sat Jan 09 01:15:". A magnifying glass is positioned over the "Cryptic Bit" logo, which is partially obscured by the application window. A red arrow points from the magnifying glass to a button labeled "Analyze iPhone Backup >>>". At the bottom of the application window, there is a purple banner with the text: "For additional features and plugins please contact sales@crypticbit.com".

iPhone Analyzer

File Edit Search Help

**iPhone Analyzer**

To begin, select an iOS device backup to open.

C:\Users\Soufiane\AppData\Local\Apple Computer\MobileSync\Backup

Browse

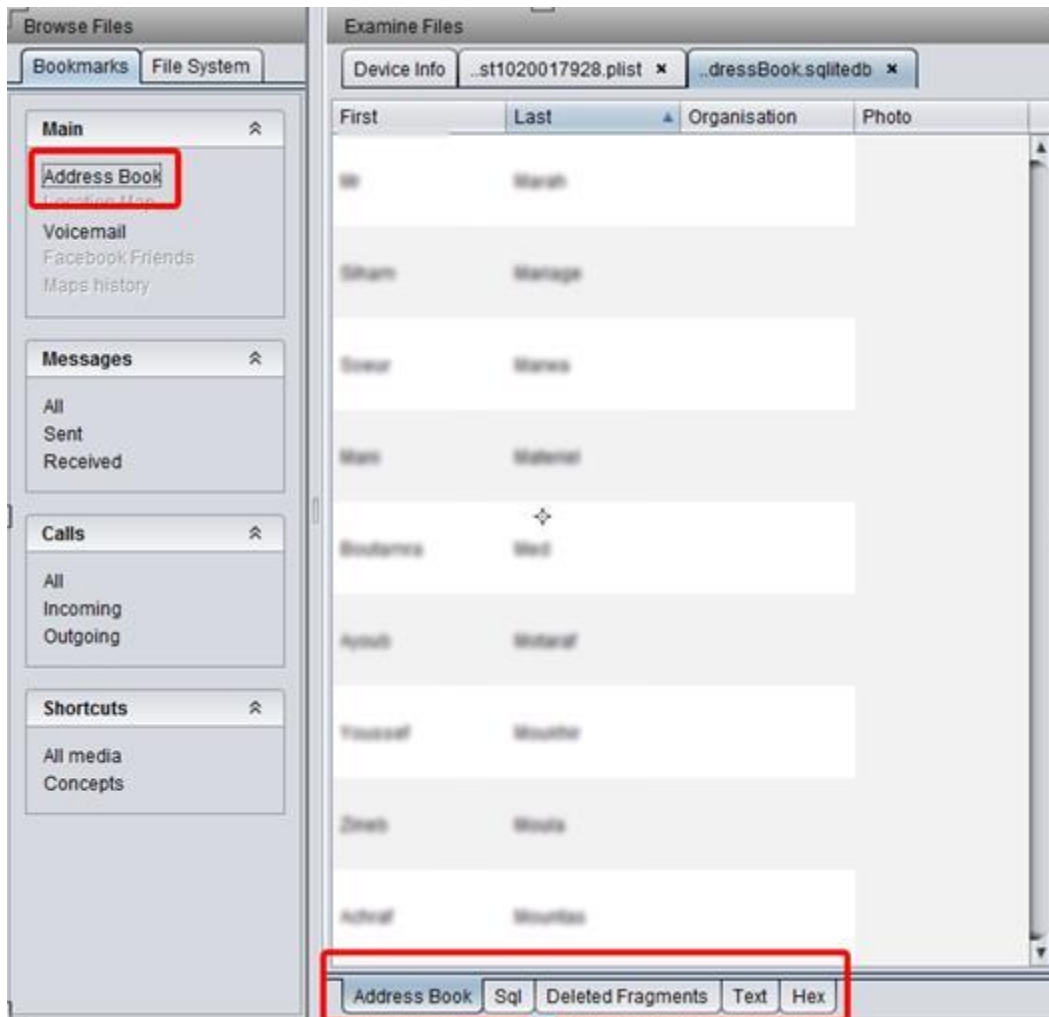
- iPhone5,2: iPhone de mohamed v9.2 - Sat Jan 09 01:28:
- iPhone5,2: iPhone de mohamed v9.2 - Sat Jan 09 01:15:

**Cryptic Bit**

Analyze iPhone Backup >>>

For additional features and plugins please contact sales@crypticbit.com

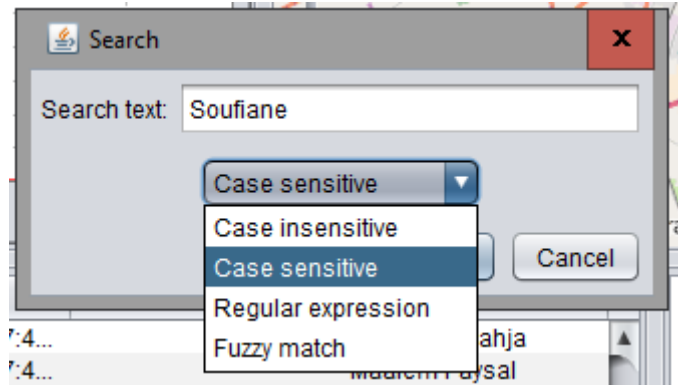
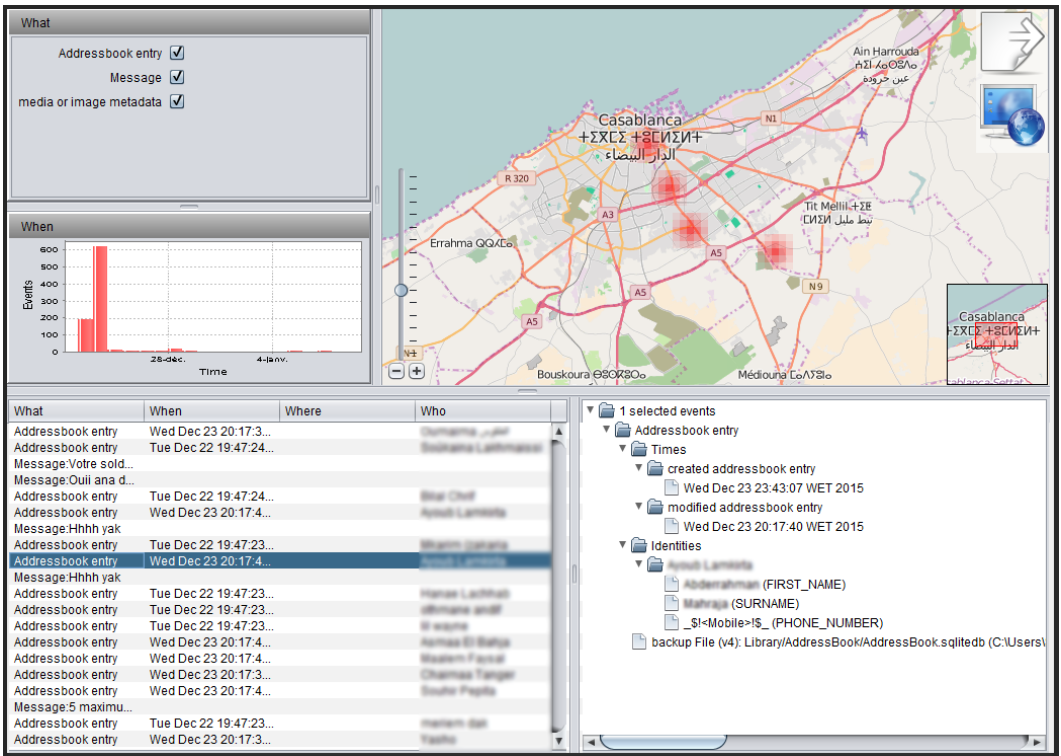


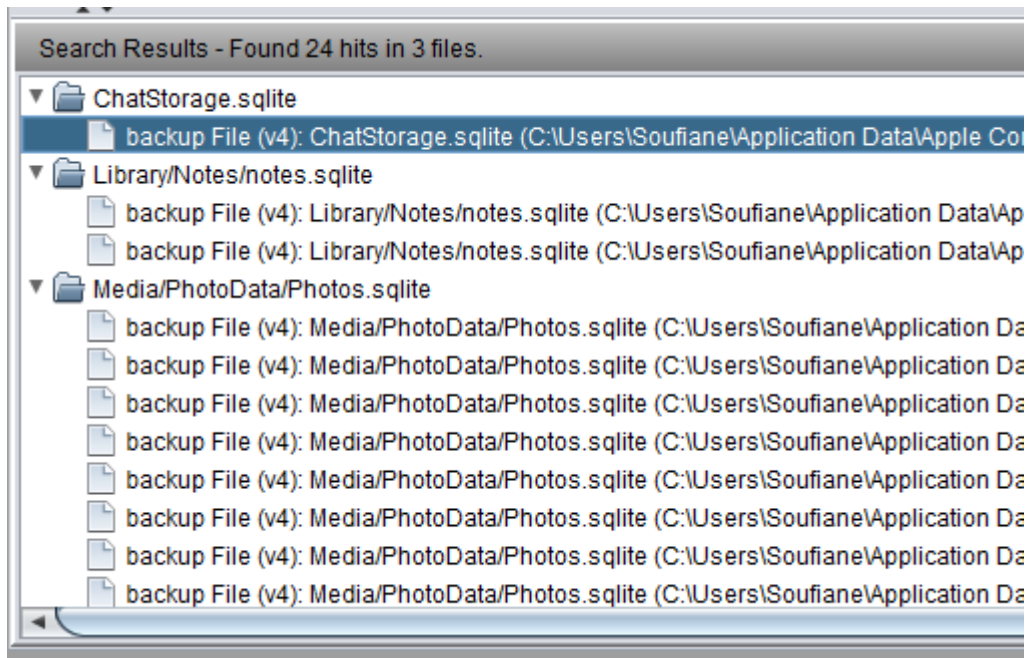


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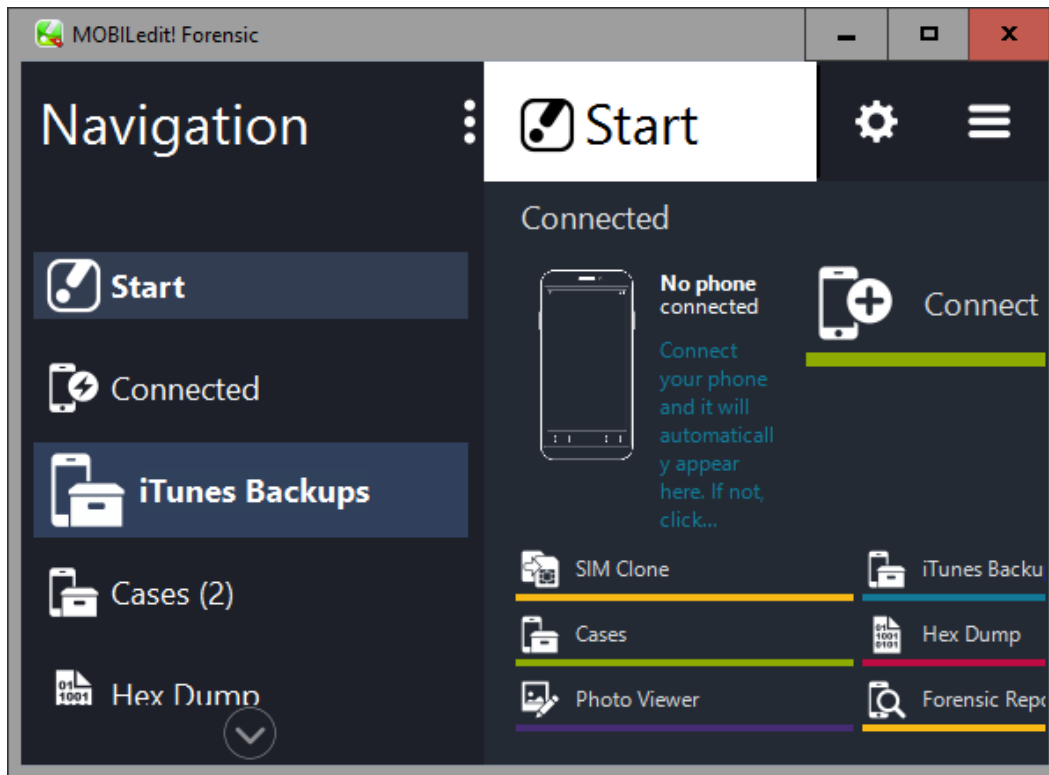
+21269	009502	Jā gā nā fān app shāi	Sat Dec 26 22:18:03 WET 2015	RECEIVED	SMS
+21267	009570	shāi tā fān tān tān tān tān tān tān tān	Sat Dec 26 17:35:06 WET 2015	SENT	SMS
+21269	009502	Jā fān	Thu Dec 24 22:49:06 WET 2015	SENT	SMS
+21269	009502	Jā fān	Mon Dec 28 23:44:29 WET 2015	SENT	SMS
+21269	009502	Jā fān tān tān tān	Thu Dec 24 22:57:42 WET 2015	RECEIVED	SMS
+21269	009502	Jā fān tān	Mon Dec 28 23:45:36 WET 2015	RECEIVED	SMS
+21263	01724	Jā fān tān tān	Mon Dec 28 11:51:31 WET 2015	SENT	SMS
+21269	009502	Jā fān tān tān tān tān tān tān tān	Sat Jan 02 16:29:09 WET 2016	RECEIVED	SMS
+21268	033675	Jā fān tān tān	Fri Dec 25 16:33:53 WET 2015	SENT	SMS
+21269	009502	Jā fān tān tān	Mon Dec 28 22:41:51 WET 2015	SENT	SMS
+21269	009502	Jā fān tān tān tān	Mon Dec 28 23:38:19 WET 2015	SENT	SMS
+21268	033675	Jā fān tān tān tān tān tān tān tān	Fri Dec 25 18:39:57 WET 2015	SENT	SMS

-----

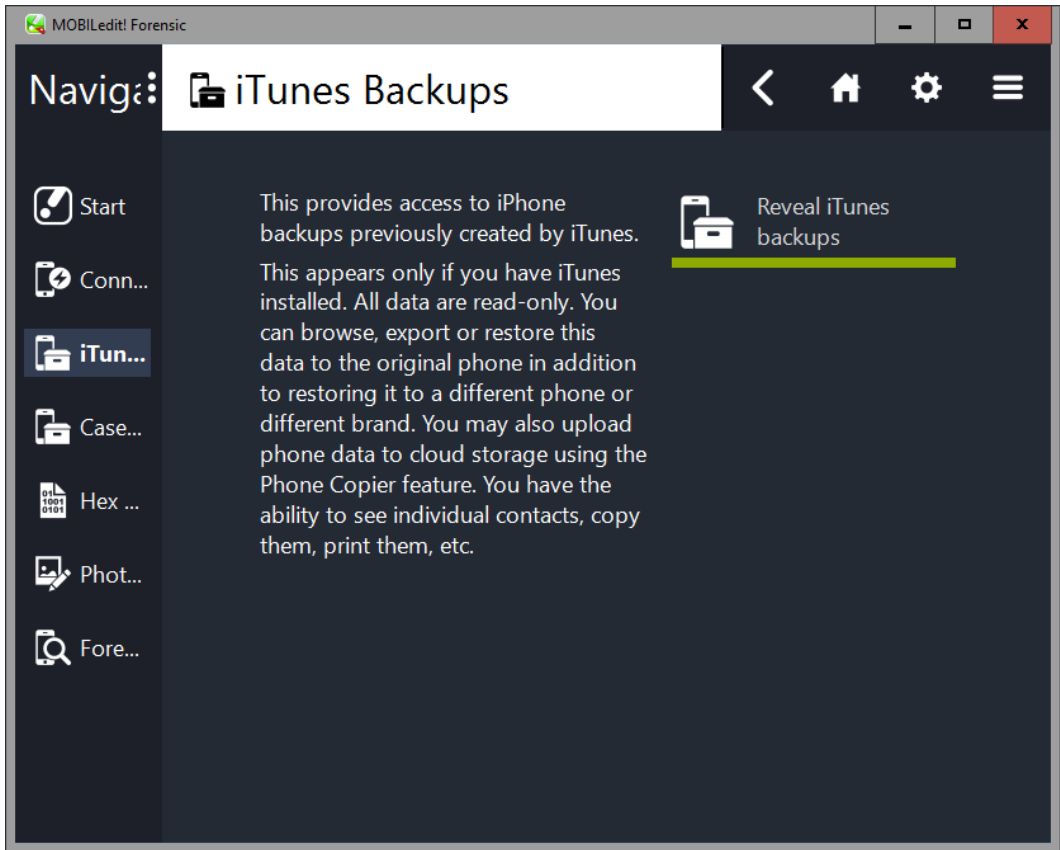




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# Call Logs (375) - iPhone de mohamed

The screenshot displays an iPhone call log interface. At the top, there are three tabs: 'Missed (31)', 'Outgoing (179)', and 'Incoming (165)'. The 'Outgoing' tab is currently selected. Below the tabs, there is a header row with columns for 'Name', 'Number', and 'Time'. The main area contains a list of outgoing call records. Each record shows a phone number and a timestamp. To the right of the list, there is a sidebar with a search bar and several action buttons: 'Search', 'Export', 'Print', and 'Reread'. The interface is dark-themed.

Name	Number	Time
	063 66	08/01/2016 12:30:06
	062 87	08/01/2016 12:17:59
	061 9	08/01/2016 12:10:07
	064 90	08/01/2016 12:03:04
	064 90	07/01/2016 23:11:50
	063 66	07/01/2016 22:38:43
	066 87	07/01/2016 21:11:35
	066 87	07/01/2016 20:58:05
	066 87	07/01/2016 19:40:59
	061 9	07/01/2016 19:36:12
	063 66	07/01/2016 18:51:08
	062 92	07/01/2016 18:46:40
	063 66	07/01/2016 17:21:48
	061 83	06/01/2016 22:00:13
	060 84	06/01/2016 21:46:20
	063 66	06/01/2016 21:30:02

-----

c - iPhone de mohamed

The screenshot shows a file explorer interface with three main sections:

- Left Panel (Directory Tree):** A hierarchical view of files and folders. The path is: AppDomainGroup-group.snapchat.picaboo > AppDomain-InstaSize > AppDomain-net.whatsapp.WhatsApp > Library > Media. Under Media, there are several folders for different phone numbers, including 'c' which is currently selected.
- Center Panel (File List):** A table with columns 'File Name', 'Size', and 'Created'. The selected file is '8c7d6c0526e73111fa6bfff55f94d4b99.aac' with a size of 50.91 KB and a creation date of 02/01/2016 22:00.
- Right Panel (Context Menu):** A dark-themed menu with the following options: Parent, Open, Copy To, Hex Dump, and Reread.

-----

## Password toolbox

The Apple backup is encrypted, please enter the password:

Show characters

History

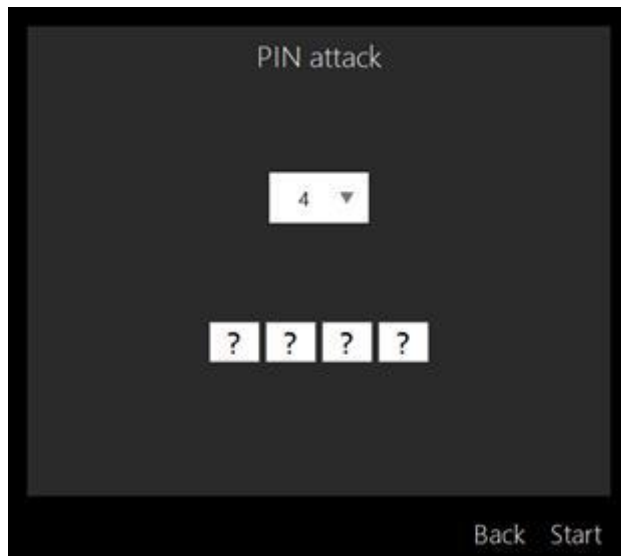
Enter

Dictionary attack

PIN attack

Cancel

-----

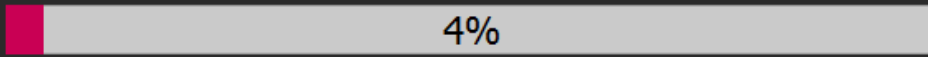


-----

# PIN attack

4 ▼

? ? ? ?



Time: 0h 0m 07s / 0h 2m 53s

Processing: 430 / 10000

Cancel

-----



-----



-----












-----

Key	Type	Value
Root	array	
	string	المكالمات المتكلمة
	string	المكالمات المتكلمة مع الله
	string	وعسى ان نجو نارا و هو شر لكم
	string	كفار من المكلمة
	string	Disponible
	string	Occupé(e)
	string	À l'école
	string	Au cinéma
	string	Au travail
	string	Batterie faible
	string	Ne peux pas parler, WhatsApp uniquement
	string	En réunion
	string	À la salle de sport
	string	Endormi(e)
	string	Appels urgents uniquement

-----



Nom	Modifié le	Type
 whatsapp-2016-01-05-22-11-29.279.134.log	09/01/2016 01:13	Fichier LOG
 whatsapp-2016-01-05-22-14-08.588.135.log	09/01/2016 01:13	Fichier LOG
 whatsapp-2016-01-05-22-59-50.589.136.log	09/01/2016 01:13	Fichier LOG
 whatsapp-2016-01-05-23-31-02.198.137.log	09/01/2016 01:13	Fichier LOG
 whatsapp-2016-01-06-00-01-15.963.138.log	09/01/2016 01:13	Fichier LOG
 whatsapp-2016-01-06-00-50-16.166.139.log	09/01/2016 01:13	Fichier LOG
 whatsapp-2016-01-06-13-21-24.385.140.log	09/01/2016 01:13	Fichier LOG
 whatsapp-2016-01-06-14-13-21.000.141.log	09/01/2016 01:13	Fichier LOG
 whatsapp-2016-01-06-14-31-24.079.142.log	09/01/2016 01:13	Fichier LOG

-----

Name
<ul style="list-style-type: none"> <li> <span style="font-size: 0.8em;">▼</span> <span style="font-size: 0.8em;">📄</span> Tables (12)           <ul style="list-style-type: none"> <li>&gt; <span style="font-size: 0.8em;">📄</span> ZWABLACKLISTITEM</li> <li>&gt; <span style="font-size: 0.8em;">📄</span> ZWACHATPROPERTIES</li> <li>&gt; <span style="font-size: 0.8em;">📄</span> ZWACHATPUSHCONFIG</li> <li>&gt; <span style="font-size: 0.8em;">📄</span> ZWACHATSESSION</li> <li>&gt; <span style="font-size: 0.8em;">📄</span> ZWAGROUPINFO</li> <li>&gt; <span style="font-size: 0.8em;">📄</span> ZWAGROUPMEMBER</li> <li>&gt; <span style="font-size: 0.8em;">📄</span> ZWAMEDIAITEM</li> <li>&gt; <span style="font-size: 0.8em;">📄</span> ZWAMESSAGE</li> <li>&gt; <span style="font-size: 0.8em;">📄</span> ZWAMESSAGEINFO</li> <li>&gt; <span style="font-size: 0.8em;">📄</span> Z_METADATA</li> <li>&gt; <span style="font-size: 0.8em;">📄</span> Z_MODELCACHE</li> <li>&gt; <span style="font-size: 0.8em;">📄</span> Z_PRIMARYKEY</li> </ul> </li> </ul>

-----

Table: ZWAMESSAGE

New Record Delete Recd

	ZSENTDATE	ZFROMJID	MEDIASECTION	ZPUSHNAME	ZSTANZAID	ZTEXT	ZTOJID
	Filter	Filter	Filter	Filter	Filter	Filter	Filter
1	NULL	21261996676-I	NULL	Naim Wer	371BD43151AI	Taa ... natti ?	NULL
2	NULL	21261996676-I	NULL	Naim Wer	371BD43151AI	Galia ... haliwl	NULL
3	NULL	21261996676-I	NULL	Naim Wer	371BD43151AI	Gaa ... lia	NULL
4	NULL	21261996676-I	NULL	Naim Wer	371BD43151AI	Yaa ... h	NULL
5	473906889	NULL	NULL	NULL	00D3A53E944I	Lay3 ...	21265636803I
6	NULL	21265636803I	NULL	Younés	FF34A34B0C4I	Iwa ... 3k w	NULL
7	473906882	NULL	NULL	NULL	00D3A53E944I	3yto ... bi hhl	21261996676-I
8	NULL	21265636803I	NULL	Younés	FF34A34B0C4I	Ahl E ...	NULL
9	NULL	21261996676-I	NULL	Naim Wer	371BD43151AI	Taa ... kant f I	NULL
10	473906850	NULL	NULL	NULL	00D3A53E944I	Aych ... sbal	21261996676-I
11	473906838	NULL	NULL	NULL	00D3A53E944I	Oui ... a	21261996676-I

-----

Table: ZWAMEDIAITEM

net.whatsapp.WhatsApp > Library > Media

JNA	ZMEDIALOCALPATH	Nom	Modifié le
Filter			
7	Media/21261996676-I/215-1437231224@g.us/2/N/2f301028433b84cc15b29ee969e44536.aac	21260...56@s.whatsapp.net	13/01/2016 14:54
8	Media/21261996676-I/215-1437231224@g.us/4/N/40b79ee344567de1717ae992bce476.aac	21260...04@s.whatsapp.net	13/01/2016 14:54
9	Media/21261996676-I/215-1437231224@g.us/5/2/5212e0ac4e12cd93f45093eb4efca0da.aac	21261...16-1440327135@g.us	13/01/2016 14:54
10	Media/21261996676-I/215-1437231224@g.us/5/7/572d09db289deb58f2915e1ee530353d.aac	21261...50@s.whatsapp.net	13/01/2016 14:54
11	Media/21267996676-I/215-1442308612@g.us/4/4/4474d8e74b2382bd81ecee2fbab119.mp4	21261...76-1437231224@g.us	13/01/2016 14:54
12	Media/21267996676-I/215-1442308612@g.us/0/4/04a7e161835bdcc80e6b1f1937cacc18.jpg	21262...40@s.whatsapp.net	13/01/2016 14:54
13	Media/21267996676-I/215-1442308612@g.us/0/e/0e8f5e984f228d7b3ea6bd84bb34a788.jpg	21262...35@s.whatsapp.net	13/01/2016 14:54
14	Media/21267996676-I/215-1442308612@g.us/6/3/635dc2cfa9eb684fd1da6db5176bd0b.mp4	21265...03@s.whatsapp.net	13/01/2016 14:54
15	Media/21267996676-I/215-1442308612@g.us/8/4/84273f1523910006d2188b077e89253.jpg	21266...55@s.whatsapp.net	13/01/2016 14:54
16	Media/21262596676-I/385@s.whatsapp.net/8/0/80eab605be35881524be186df58c3d8.jpg	21266...00@s.whatsapp.net	13/01/2016 14:54
17	Media/21267996676-I/215-1442308612@g.us/9/9/99df11c03bbdd7e3e96c856370dd280b.jpg	21266...32@s.whatsapp.net	13/01/2016 14:54
18	Media/21266496676-I/006@s.whatsapp.net/6/0/609ac1d74632d2644a677a768e55bda.jpg	21266...06@s.whatsapp.net	13/01/2016 14:54
19	Media/21267996676-I/215-1442308612@g.us/1/b/1b53048e502d798cd74685ce2e065.jpg	21266...08@s.whatsapp.net	13/01/2016 14:54
20	Media/21267996676-I/215-1442308612@g.us/e/3/e39b033703a2686ab4300a66e8816865.jpg	21266...74@s.whatsapp.net	13/01/2016 14:54
21	Media/21267996676-I/215-1442308612@g.us/e/7/e75e34fddb724c2617281fbc14db3c7c.jpg	21266...53@s.whatsapp.net	13/01/2016 14:54
22	Media/21267996676-I/215-1442308612@g.us/2/2/220612254f9e04b1a32611fd39d8e4f5.aac	21267...15-1442308612@g.us	13/01/2016 14:59
<		21269...02@s.whatsapp.net	13/01/2016 14:59
		21269...02@s.whatsapp.net	13/01/2016 14:59
		21269...28@s.whatsapp.net	13/01/2016 14:59

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SQL 1

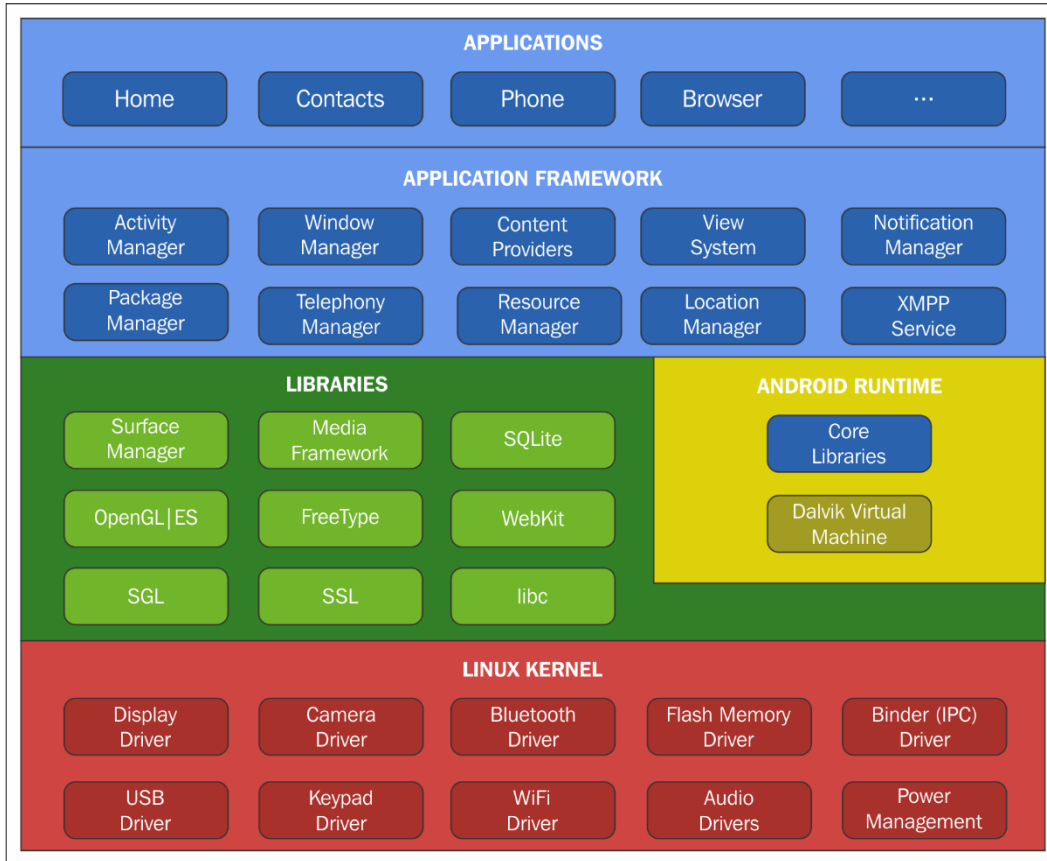
```
SELECT datetime(ZMESSAGEDATE + 978307200, 'unixepoch'), ZPUSHNAME, ZTEXT, ZTOID, ZFROMID FROM ZWAMESSAGE ORDER BY 1;
```

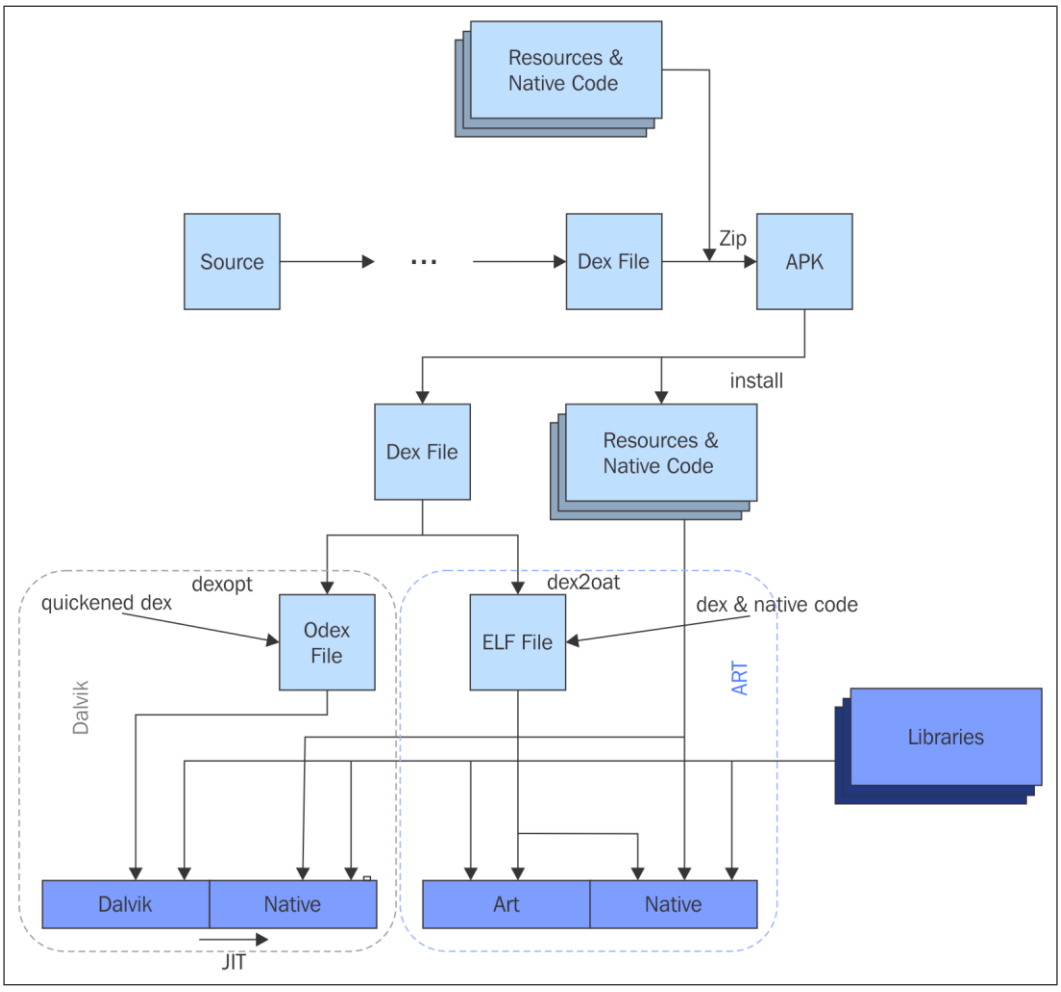
	datetime(ZMESSAGEDATE + 978307200, 'unixepoch')	ZPUSHNAME	ZTEXT	ZTOID	ZFROMID
19	2015-12-23 15:26:56	None	Maaf gila kudu wahai guahe nyawa	212619988076-1437231224@g.us	None
20	2015-12-23 15:27:05	None	100% ab	212619988076-1437231224@g.us	None
21	2015-12-23 15:28:44	None	Ewa had 100% sharia hukumah 1 dlm 17h @ comment...	None	212619988076-1437231224@g.us
22	2015-12-23 15:29:33	None	hai hah	212619988076-1437231224@g.us	None
23	2015-12-23 15:30:05	None	Ewan b hahm gila imahawadeke @gull 1 imajidm h...	None	212619988076-1437231224@g.us
24	2015-12-23 15:30:14	None	Tskalah	212619988076-1437231224@g.us	None
25	2015-12-23 15:30:20	None	17h c la minimum	None	212619988076-1437231224@g.us
26	2015-12-23 15:30:23	None	hahh	None	212619988076-1437231224@g.us
27	2015-12-23 15:31:43	None	Ah bon ☹	212619988076-1437231224@g.us	None
28	2015-12-23 15:31:51	None	Tawee kerihaw hawatha wahai hawatha hahhh	None	212619988076-1437231224@g.us
29	2015-12-23 15:32:01	None	QQQ	212619988076-1437231224@g.us	None
30	2015-12-23 15:32:23	None	Lkash	212619988076-1437231224@g.us	None

-----

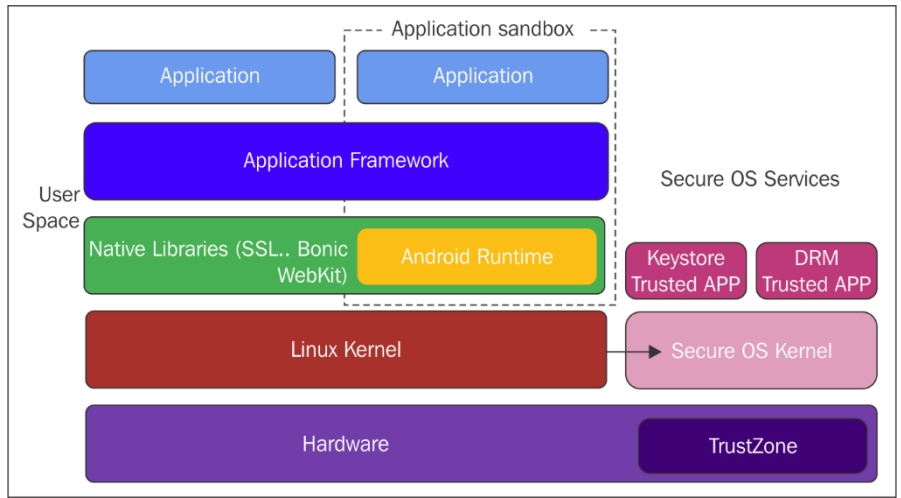
```
495 Free Block 1861013 109 am ES! ??1212619990076-1437231224@g.us@a1m Wer371BD43151AB493C1E2 Yaak hhhhh
496 Free Block 1861473 7
497 Free Block 1861605 106 jC5^ ?>212616368003@s.whatsapp.netYonaFF34A34B0C42A6BDF1 Ah! Bon
```

## Chapter 4: Android Forensics

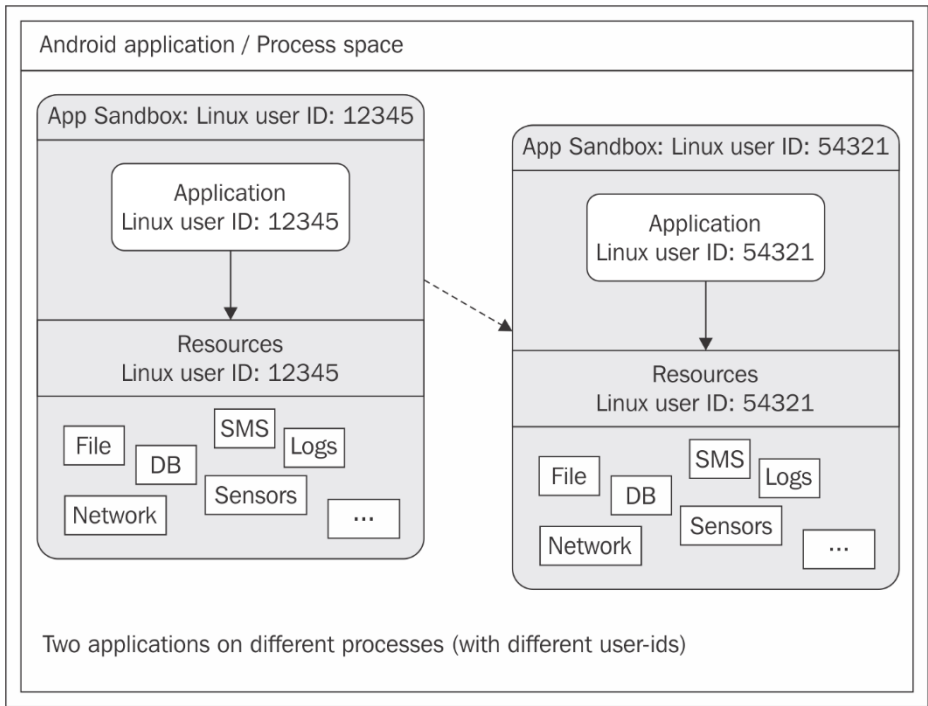




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**New Key Store**

Key store path:  ...

Password:  Confirm:

Key

Alias:

Password:  Confirm:

Validity (years):  ▾

Certificate

First and Last Name:

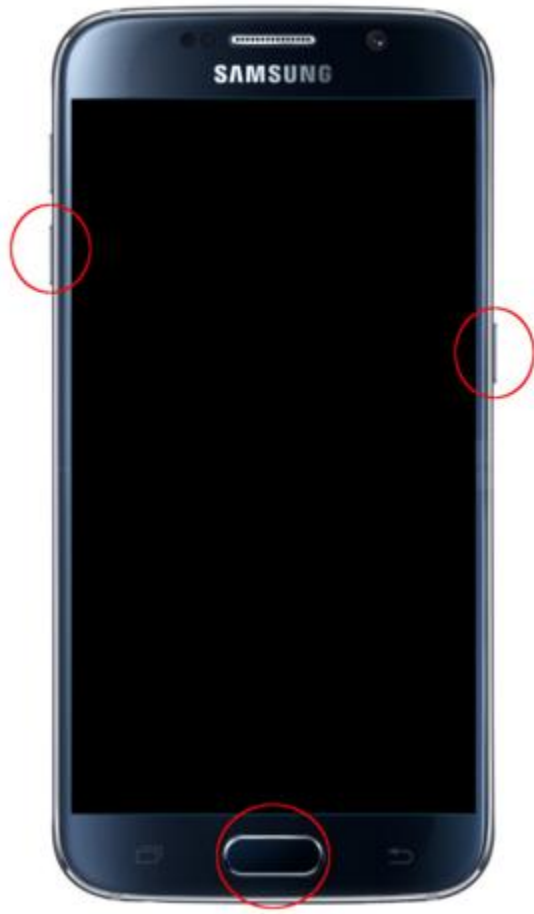
Organizational Unit:

Organization:

City or Locality:

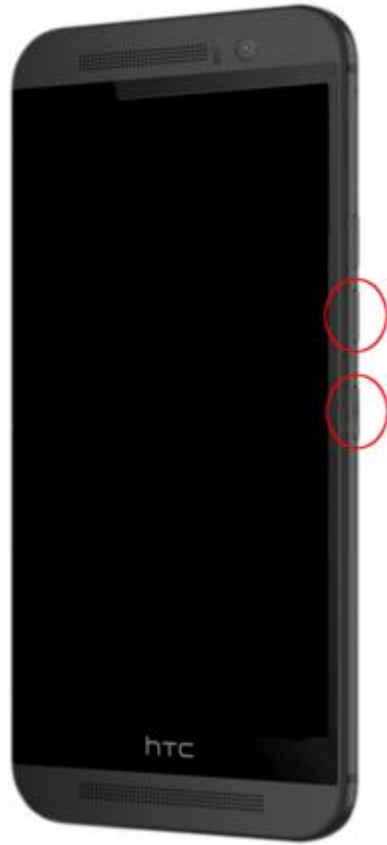
State or Province:

Country Code (XX):

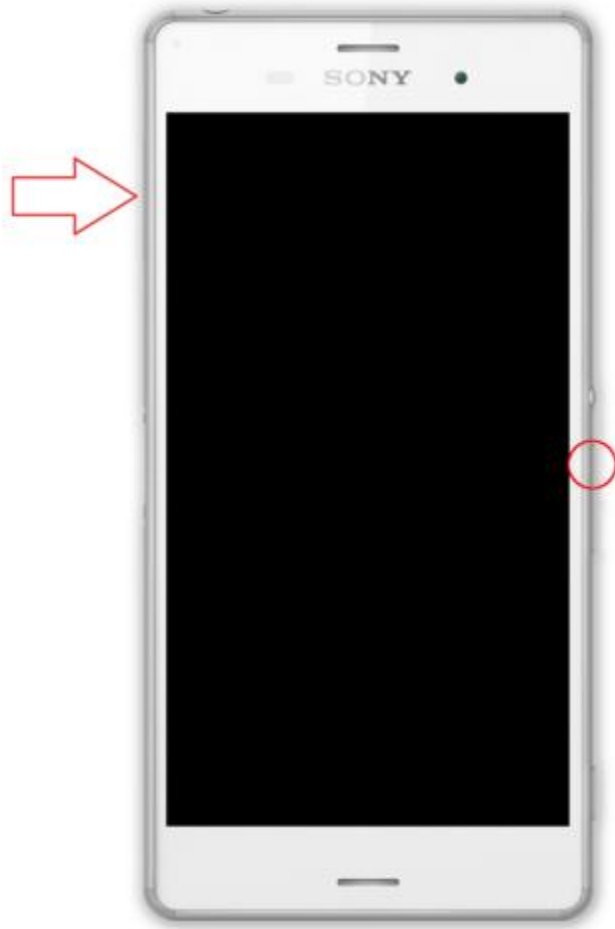


-----

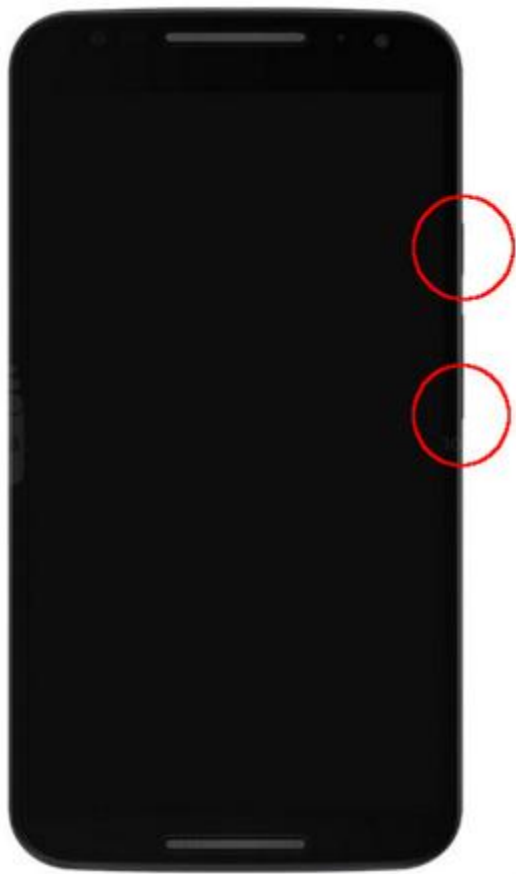




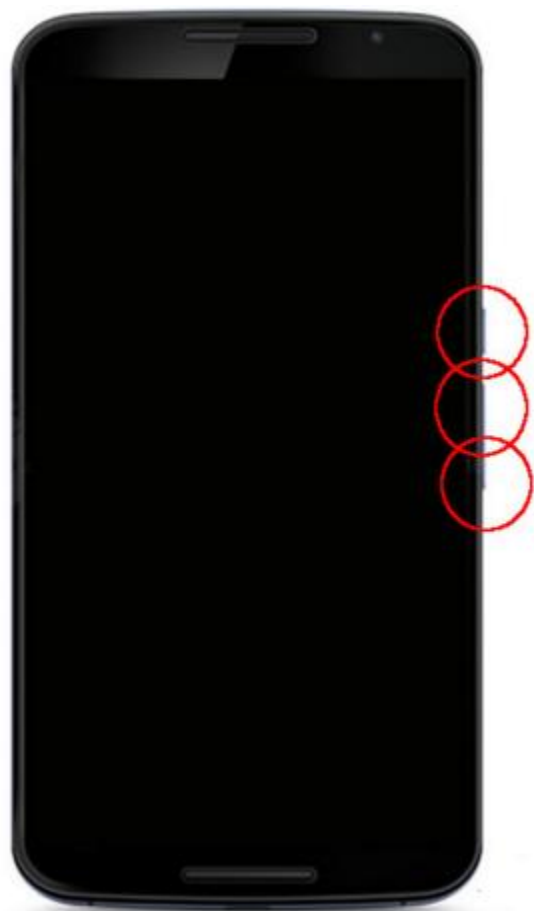
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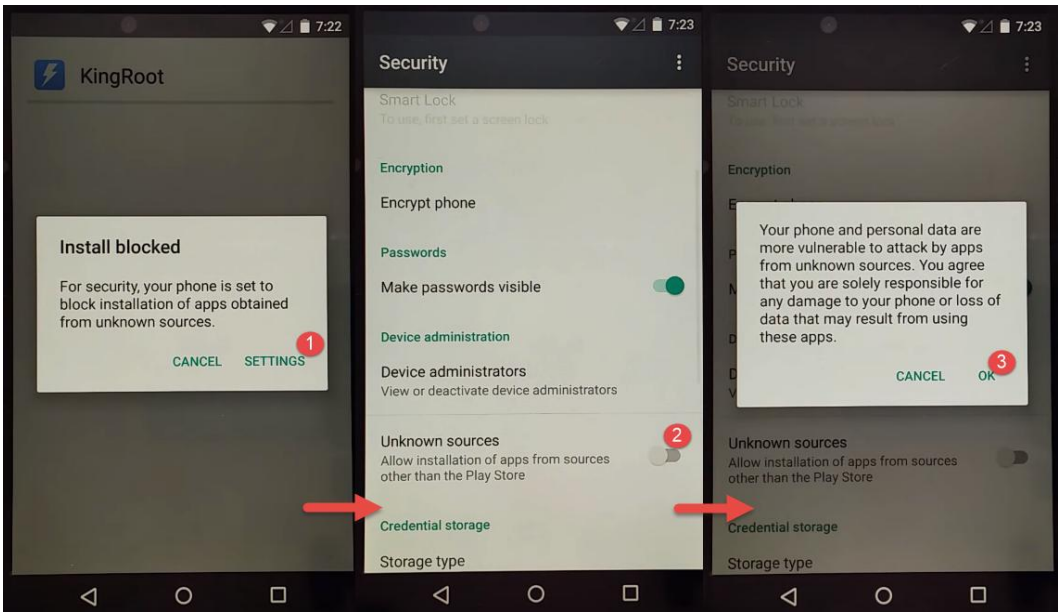
-----



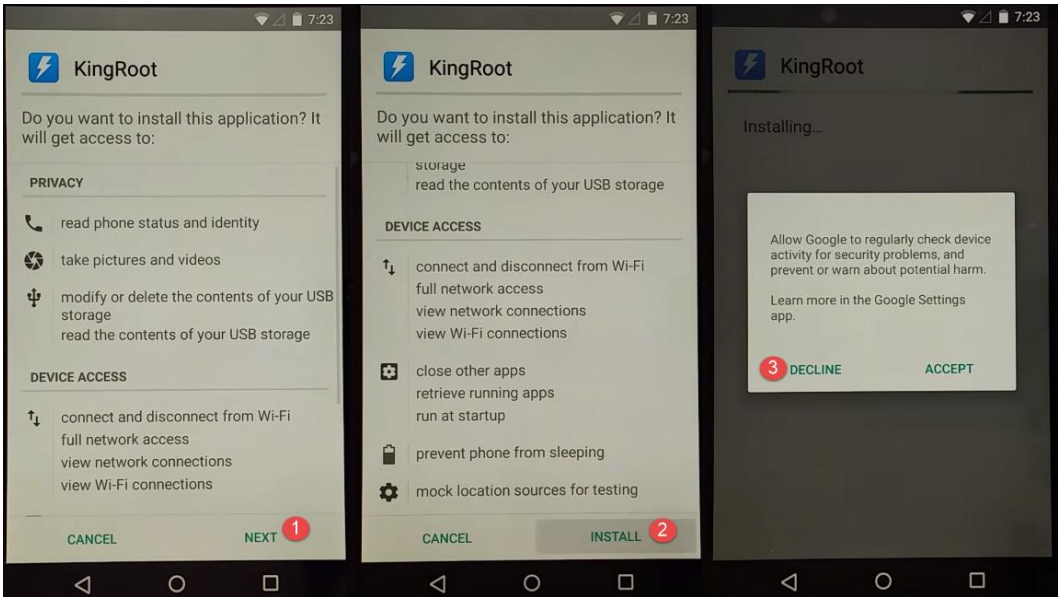
-----

```
C:\Users\Soufiane\AppData\Local\Android\sdk\platform-tools>adb reboot-bootloader
```

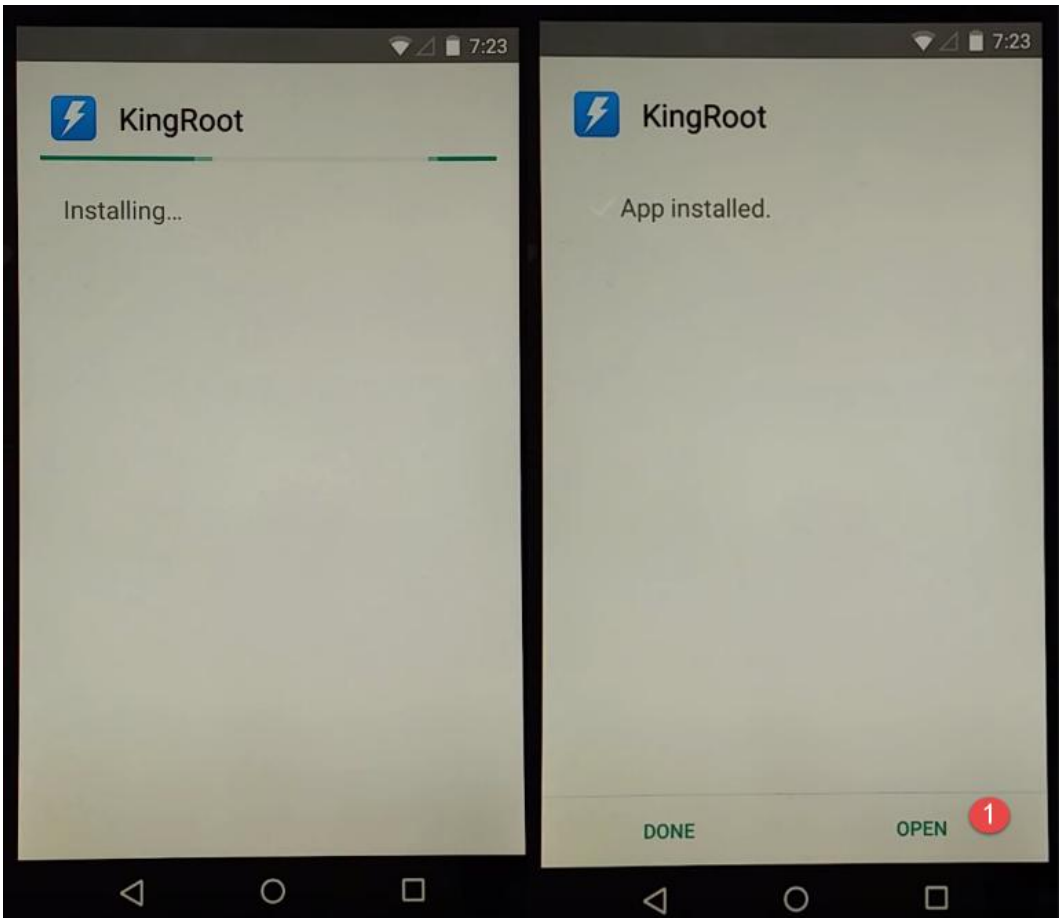
-----

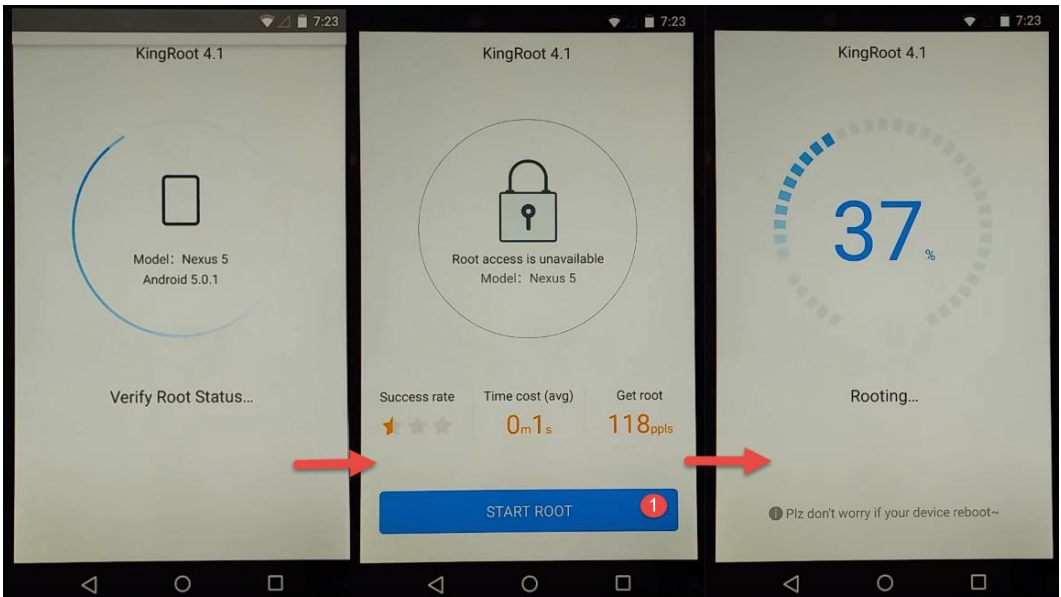


-----



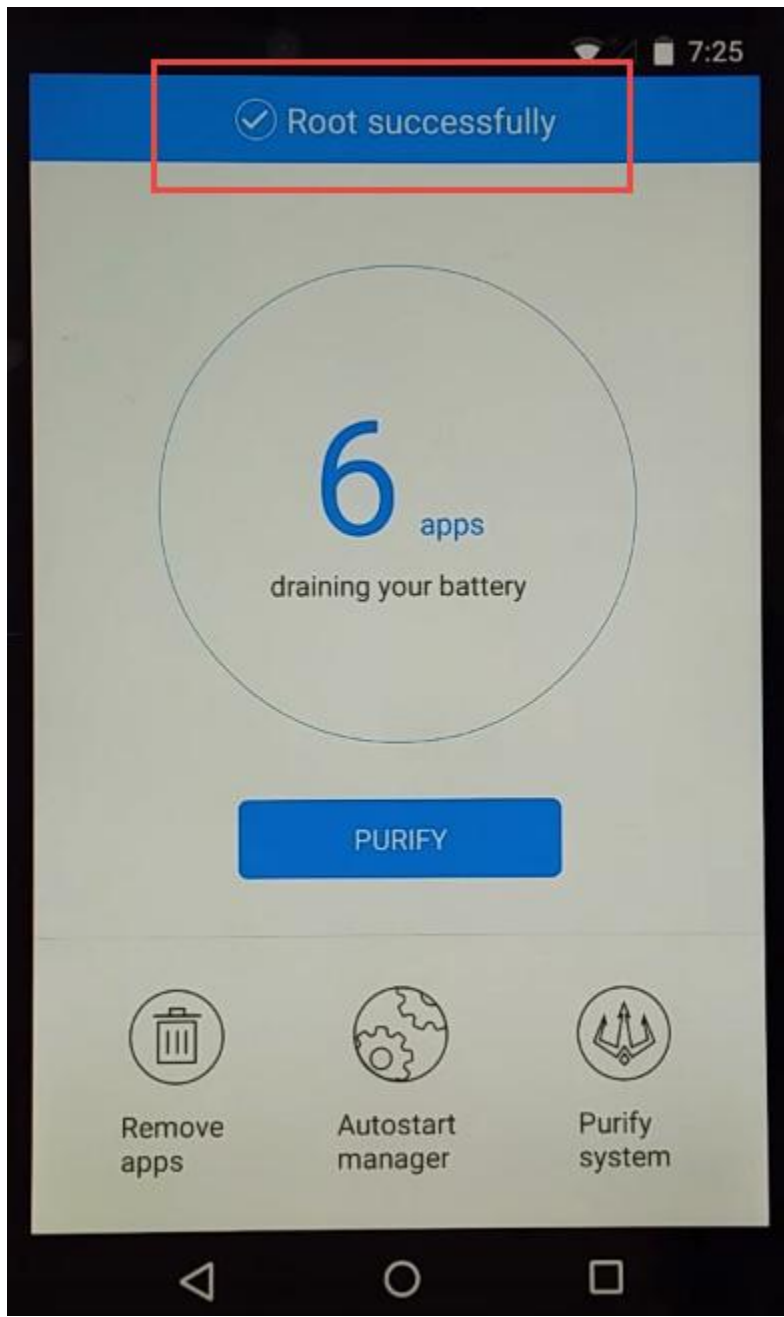
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No SIM card — No service.



4:20  
3 Friday, February 29 5  
6 7 8

EMERGENCY CALL



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The screenshot shows the file explorer interface for an Android device. On the left, the file tree is expanded to show the 'data' directory, which contains sub-directories like 'adb', 'app', 'app-asec', 'app-lib', 'app-private', 'backup', 'dalvik-cache', 'data', 'dontpanic', 'drm', 'local', 'lost-found', 'media', 'mediadm', 'misc', 'property', 'resource-cache', 'security', and 'system'. The 'system' directory is highlighted. On the right, a detailed view of the 'system' directory is displayed as a table:

Name	Size	Type	Date Modified
dropbox	4	Directory	29/01/2016 14:...
ifw	4	Directory	28/01/2016 11:...
inputmethod	4	Directory	29/01/2016 14:...
install_sessions	4	Directory	28/01/2016 11:...
job	4	Directory	28/01/2016 11:...
netstats	4	Directory	28/01/2016 11:...
procstats	4	Directory	28/01/2016 11:...
recent_images	4	Directory	29/01/2016 09:...
recent_tasks	4	Directory	29/01/2016 10:...
registered_services	4	Directory	29/01/2016 14:...
sync	4	Directory	29/01/2016 14:...
usagstats	4	Directory	28/01/2016 11:...
users	4	Directory	29/01/2016 14:...
appops.xml	2	Regular File	29/01/2016 09:...
batterystats.bin	5	Regular File	29/01/2016 14:...
called_pre_boots.dat	1	Regular File	28/01/2016 11:...
device_policies.xml	1	Regular File	28/01/2016 22:...
entropy.dat	1	Regular File	29/01/2016 14:...
framework_atlas.config	1	Regular File	28/01/2016 11:...
gesture.key	7	Regular File	28/01/2016 22:...
install_sessions.xml	1	Regular File	29/01/2016 14:...
last-fstrim	0	Regular File	28/01/2016 11:...
locksettings.db	4	Regular File	28/01/2016 11:...

Below the file list, a hex dump is visible, with a red arrow pointing to the file 'gesture.key' in the list above. The hex dump shows the following data:

```

00 c8 c0 b2 4a 15 dc 8b bf d4 11 42 79 73 57 46 95 e2 a j . ü . z ð . BysiwF
10 23 04 58 f0 # . X&

```

-----

The screenshot shows a SQL query execution window. The query is:

```

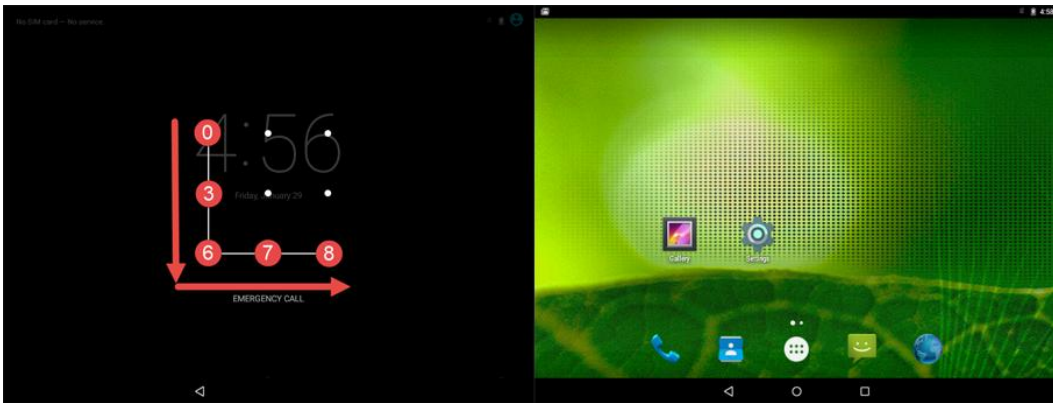
1 Select * from RainbowTable where hash = 'c8c0b24a15dc8bbfd411427973574695230458f0'

```

The result is displayed in a table:

	hash	pattern
1	c8c0b24a15dc8bbfd411427973574695230458f0	[0, 3, 6, 7, 8]

-----



-----

```
C:\Users\Soufiane\AppData\Local\Android\sdk\platform-tools>adb pull /data/system/gesture.key  
3 KB/s (20 bytes in 0.006s)  
C:\Users\Soufiane\AppData\Local\Android\sdk\platform-tools>
```

-----

```
C:\Users\Soufiane\AppData\Local\Android\sdk\platform-tools>adb root  
restarting adbd as root
```

-----

Pragmas

Database

- main
  - Tables (2)
    - android\_metadata
    - locksettings
      - Columns (4)
      - Indexes (0)
      - System Indexes (0)
      - Triggers (0)
    - Views (0)
    - System Catalogue (2)

1 `select value from locksettings where name='lockscreen.password_salt'`

Duration: 0.005 seconds \* Col: 69 Row: 1/1

Full View Item View Script Output

	_id	name	user	value
1	1	lockscreen.disabled	0	0
2	2	migrated	0	true
3	3	lock_screen_owner_info_enabled	0	0
4	4	migrated_user_specific	0	true
5	5	lockscreen.password_salt	0	2678589428530746611
6	6	lock_pattern_autolock	0	0
7	8	lockscreen.password_type_alternate	0	0
8	9	lockscreen.password_type	0	196608
9	10	lockscreen.passwordhistory	0	

-----

```
C:\Users\Soufiane\Downloads\hashcat-2.00>hashcat-cli64.exe -m 10 hash.txt -a 3 ?d?d?d?d
Initializing hashcat v2.00 with 8 threads and 32mb segment-size...

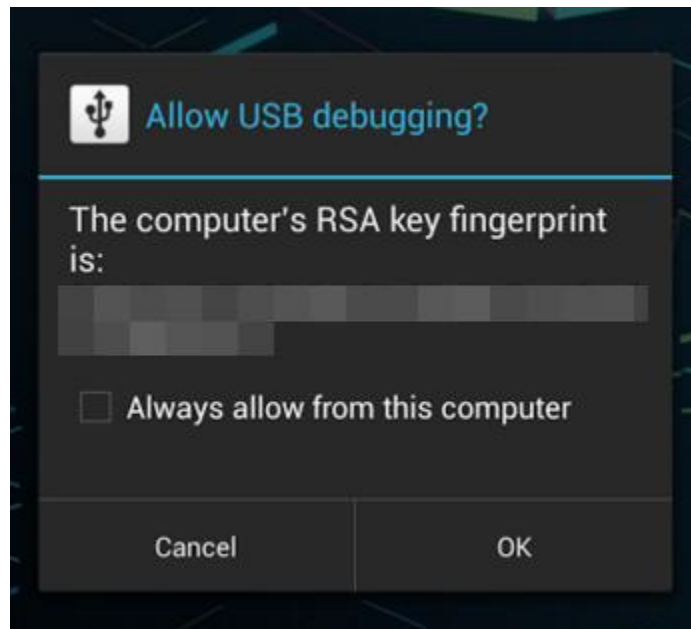
Added hashes from file hash.txt: 1 (1 salts)
Activating quick-digest mode for single-hash with salt
5aa4ca29d6221fc7de4aec5349c257f3:252c42e4bab114f3:0912

All hashes have been recovered

Input.Mode: Mask (?d?d?d?d) [4]
Index.....: 0/1 (segment), 10000 (words), 0 (bytes)
Recovered.: 1/1 hashes, 1/1 salts
Speed/sec.: - plains, 9.65k words
Progress..: 9694/10000 (96.94%)
Running...: 00:00:00:01
Estimated.: --:--:--:--

Started: Tue Feb 02 19:34:40 2016
Stopped: Tue Feb 02 19:34:41 2016
```

-----



-----

```
-rw----- u0_a15 u0_a15 428512 2016-02-04 13:50 browser2.db-wal
root@generic:/ # ls -l /data/data/com.android.browser/
drwxrwx--x u0_a15 u0_a15 2016-02-04 13:16 app_appcache
drwxrwx--x u0_a15 u0_a15 2016-02-04 13:16 app_databases
drwxrwx--x u0_a15 u0_a15 2016-02-04 13:16 app_geolocation
drwxrwx--x u0_a15 u0_a15 2016-02-04 13:16 app_icons
drwxrwx--x u0_a15 u0_a15 2016-02-04 13:16 app_webview
drwxrwx--x u0_a15 u0_a15 2016-02-04 13:50 cache
drwxrwx--x u0_a15 u0_a15 2016-02-04 13:16 databases
drwxrwx--x u0_a15 u0_a15 2016-02-04 13:16 files
lrwxrwxrwx install install 2016-02-03 01:11 lib -> /data/app-lib/com.android.browser
drwxrwx--x u0_a15 u0_a15 2016-02-04 13:43 shared_prefs
root@generic:/ # ls -l /data/data/com.android.browser/databases
-rw-rw---- u0_a15 u0_a15 483328 2016-02-04 13:48 browser2.db
-rw----- u0_a15 u0_a15 32768 2016-02-04 13:50 browser2.db-shm
-rw----- u0_a15 u0_a15 428512 2016-02-04 13:50 browser2.db-wal
root@generic:/ #
```

-----

Database	history	bookmarks
<ul style="list-style-type: none"> <li>main           <ul style="list-style-type: none"> <li>Tables (9)               <ul style="list-style-type: none"> <li>_sync_state</li> <li>_sync_state_metadata</li> <li>android_metadata</li> <li>bookmarks</li> <li><b>history</b></li> <li>images</li> <li>searches</li> <li>settings</li> <li>thumbnails</li> </ul> </li> <li>Views (2)               <ul style="list-style-type: none"> <li>v_accounts</li> <li>v_omnibox_suggestions</li> </ul> </li> <li>System Catalogue (2)               <ul style="list-style-type: none"> <li>sqlite_master</li> <li>sqlite_sequence</li> </ul> </li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Columns (7)           <ul style="list-style-type: none"> <li>_id</li> <li>title</li> <li>url</li> <li>created</li> <li>date</li> <li>visits</li> <li>user_entered</li> <li>Indexes (0)</li> <li>System Indexes (0)</li> <li>Triggers (0)</li> </ul> </li> <li>searches           <ul style="list-style-type: none"> <li>Columns (3)               <ul style="list-style-type: none"> <li>_id</li> <li>search</li> <li>date</li> </ul> </li> </ul> </li> <li>thumbnails           <ul style="list-style-type: none"> <li>Columns (2)               <ul style="list-style-type: none"> <li>_id</li> <li>thumbnail</li> </ul> </li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Columns (20)           <ul style="list-style-type: none"> <li>_id</li> <li>title</li> <li>url</li> <li>folder</li> <li>parent</li> <li>position</li> <li>insert_after</li> <li>deleted</li> <li>account_name</li> <li>account_type</li> <li>sourceid</li> <li>version</li> <li>created</li> <li>modified</li> <li>dirty</li> <li>sync1</li> <li>sync2</li> <li>sync3</li> <li>sync4</li> <li>svnc5</li> </ul> </li> </ul>

-----

Google
Sign in - Google Accounts
https://accounts.google.com/ServiceLogin?hl=en&passive=true&continue=https://www.google.com/webf
Google Accounts
Google - Android Apps on Google Play
Welcome to Facebook
Enter Security Code to Continue
Remember Browser
Facebook
Mobile Uploads
Facebook
https://www.google.com/webhp?source=android-home
https://accounts.google.com/ServiceLogin?hl=en&passive=true&continue=https://www.google.com/webhp%3f
https://accounts.google.com/ServiceLogin?hl=en&passive=true&continue=https://www.google.com/webhp%3f
https://accounts.google.com/CheckCookie?hl=en&checkedDomains=youtube&checkConnection=youtube%3A6
https://play.google.com/store/apps/details?id=com.google.android.googlequicksearchbox
https://m.facebook.com/?_rdr&refsrc=https%3A%2F%2Fwww.facebook.com%2F
https://m.facebook.com/checkpoint?refid=8&_rdr
https://m.facebook.com/login/checkpoint/
https://m.facebook.com/login/save-device/?next&_rdr

**Titles**

**URLs**

date	visits
1454592917858	3
1454591876048	2
1454592856064	2
1454591922655	1
1454593432406	2
1454593458187	1
1454593506354	1
1454593579100	2
1454593590962	1
1454593822912	6
1454593616727	1

-----

```

root@generic:/ # exit
soufiane@soufiane-VirtualBox:~$ adb pull /data/data/com.android.providers.telephony /home/soufiane/Desktop/Telephony
pull: building file list...
pull: /data/data/com.android.providers.telephony/databases/mmsms.db-journal -> /home/soufiane/Desktop/Telephony/databases/mmsms.db-journal
pull: /data/data/com.android.providers.telephony/databases/mmsms.db -> /home/soufiane/Desktop/Telephony/databases/mmsms.db
pull: /data/data/com.android.providers.telephony/databases/telephony.db-journal -> /home/soufiane/Desktop/Telephony/databases/telephony.db-journal
pull: /data/data/com.android.providers.telephony/databases/telephony.db -> /home/soufiane/Desktop/Telephony/databases/telephony.db
pull: /data/data/com.android.providers.telephony/databases/HbpcdLookup.db-journal -> /home/soufiane/Desktop/Telephony/databases/HbpcdLookup.db-journal
pull: /data/data/com.android.providers.telephony/databases/HbpcdLookup.db -> /home/soufiane/Desktop/Telephony/databases/HbpcdLookup.db
pull: /data/data/com.android.providers.telephony/shared_prefs/preferred-apn1.xml -> /home/soufiane/Desktop/Telephony/shared_prefs/preferred-apn1.xml
pull: /data/data/com.android.providers.telephony/lib -> /home/soufiane/Desktop/Telephony/lib
failed to copy '/data/data/com.android.providers.telephony/lib' to '/home/soufiane/Desktop/Telephony/lib': No such file or directory
8 files pulled. 0 files skipped.
262 KB/s (222899 bytes in 0.829s)
soufiane@soufiane-VirtualBox:~$

```

-----

```

C:\Users\Soufiane\AppData\Local\Android\sdk\platform-tools>adb backup -f e:\case1\backup.ab -shared -all
Now unlock your device and confirm the backup operation.

```

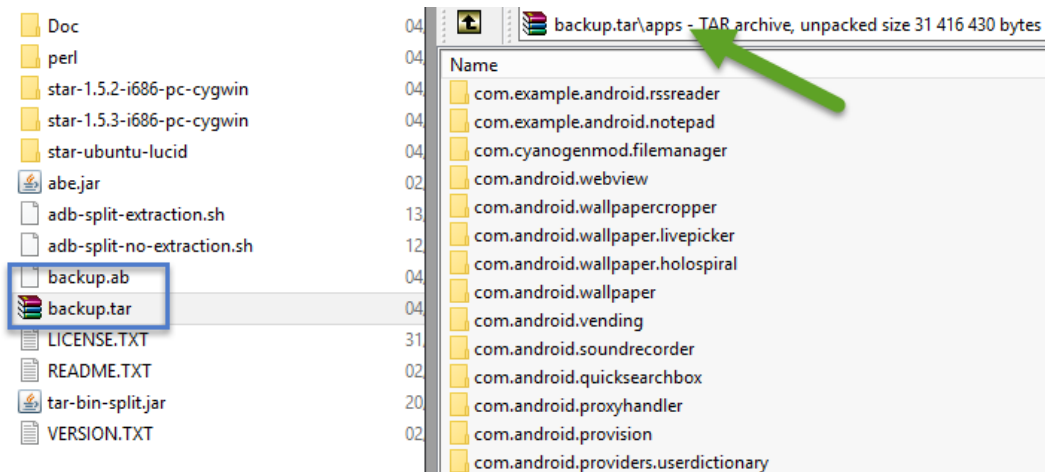
-----

```

E:\case1\android-backup-extractor-20151102-bin>abe.jar unpack backup.ab backup.tar

```

-----



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## AFLogical OSE

Available providers:

CallLog Calls

Contacts Phones

MMS

MMSParts

SMS

Select All

Deselect All

Capture



CallLog Calls.csv - Gnumeric

B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
number	date	duration	type	new	name	number	numberlabel											
668559975	1454593290383	55	1	1			0											

\*SMS.csv - Gnumeric

B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
thread_id	ic address	person	date	date sent	protocol	read	status	type	reply_pa	subject	body	service_center	locked	sub_id
3	0		1454593547595	1454593546000	0	0	-1	1	0	Your Facebook security code: 759999			0	-1
2	668559974		1454592967244	1454592963000	0	0	-1	1	0	How are u mate			0	-1
1	661264464		1454592937089	1454592936000	0	0	-1	1	0	Meet at the point at 5AM			0	-1

```

soufiane@soufiane-VirtualBox: ~
File Edit Tabs Help

soufiane@soufiane-VirtualBox:~$ adb shell 1
root@generic:/ # mount 2
rootfs / rootfs ro,seclabel,relatime 0 0
tmpfs /dev tmpfs rw,seclabel,nosuid,relatime,mode=755 0 0
devpts /dev/pts devpts rw,seclabel,relatime,mode=600 0 0
proc /proc proc rw,relatime 0 0
sysfs /sys sysfs rw,seclabel,relatime 0 0
selinuxfs /sys/fs/selinux selinuxfs rw,relatime 0 0
debugfs /sys/kernel/debug debugfs rw,relatime 0 0
none /acct cgroup rw,relatime,cpuacct 0 0
none /sys/fs/cgroup tmpfs rw,seclabel,relatime,mode=750,gid=1000 0 0
tmpfs /mnt/asec tmpfs rw,seclabel,relatime,mode=755,gid=1000 0 0
tmpfs /mnt/obb tmpfs rw,seclabel,relatime,mode=755,gid=1000 0 0
none /dev/cpuctl cgroup rw,relatime,cpu 0 0
/dev/block/mtdblock0 /system ext4 ro,seclabel,relatime,data=ordered 0 0
/dev/block/mtdblock1 /data ext4 rw,seclabel,nosuid,nodev,noatime,nomblk_io_submi
t,data=ordered 0 0
/dev/block/mtdblock2 /cache ext4 rw,seclabel,nosuid,nodev,noatime,data=ordered 0
0
/dev/block/vold/179:0 /mnt/media rw/sdcard vfat rw,dirsync,nosuid,nodev,noexec,r
elatime,uid=1023,gid=1023,fmask=0007,dmask=0007,allow_utime=0020,codepage=cp437,
iocharset=iso8859-1,shortname=mixed,utf8,errors=remount-ro 0 0
/dev/fuse /storage/sdcard fuse rw,nosuid,nodev,relatime,user_id=1023,group_id=10
23,default_permissions,allow_other 0 0
root@generic:/ #

```

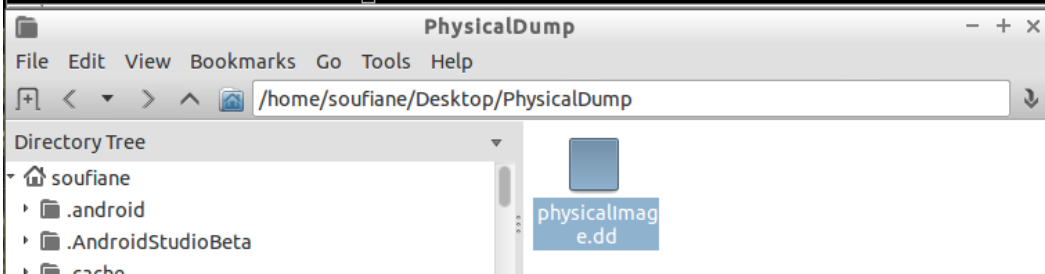
```
drwxr-x-- root    root    1970-01-01 00:00 sbin
lrwxrwxrwx root    root    2016-02-05 11:20 sdcard -> /storage/sdcard
-rw-r--r-- root    root    471 1970-01-01 00:00 seapp_contexts
```

-----

```
v/block/mtdblock1 of=/storage/sdcard/physicalImage.dd
^C879855+0 records in
879854+0 records out
450485248 bytes transferred in 681.856 secs (660675 bytes/sec)
```

-----

```
soufiane@soufiane-VirtualBox:~$ adb pull /storage/sdcard/ /home/soufiane/Desktop/PhysicalDump/
pull: building file list...
pull: /storage/sdcard/physicalImage.dd -> /home/soufiane/Desktop/PhysicalDump/physicalImage.dd
1 file pulled. 0 files skipped.
1055 KB/s (450485760 bytes in 416.683s)
soufiane@soufiane-VirtualBox:~$
```



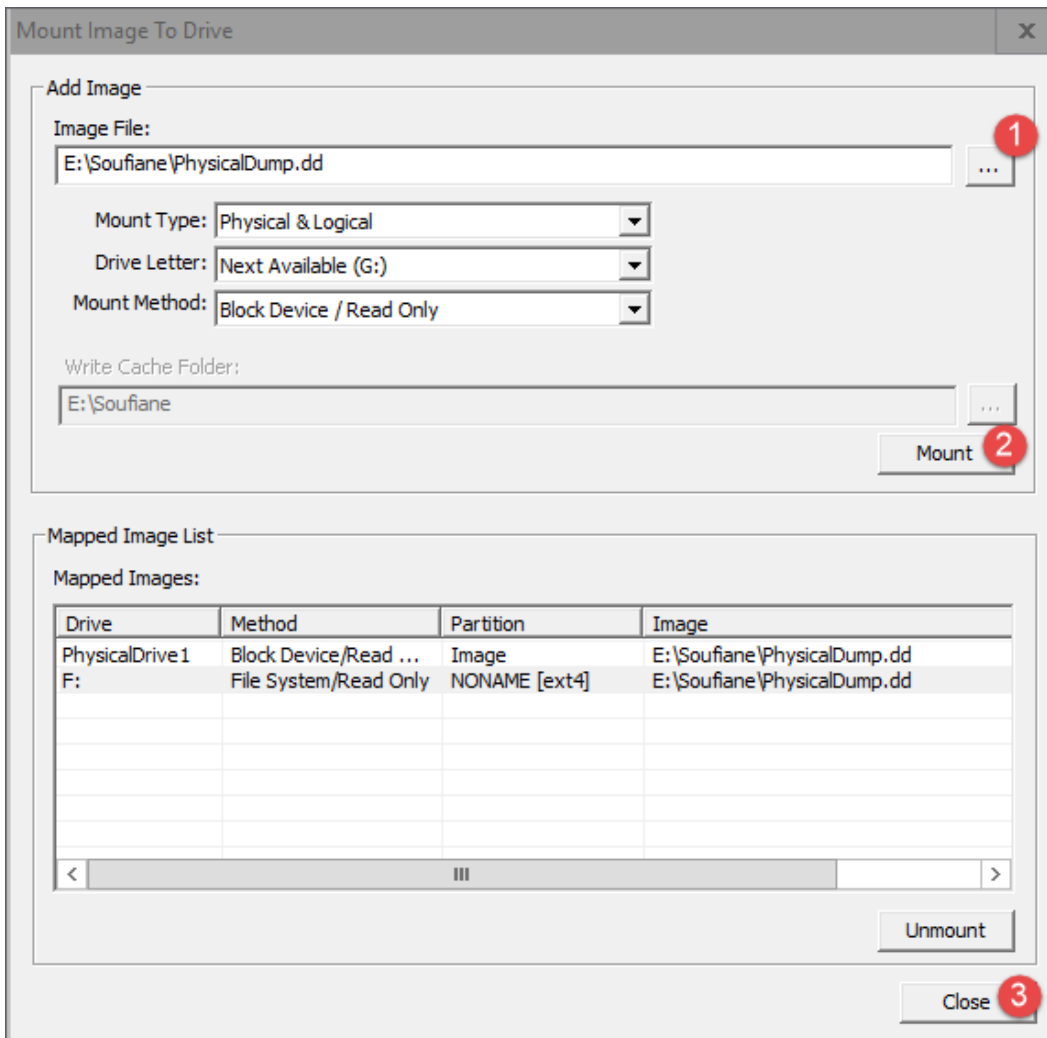
-----

```
root@generic:/ # exit
soufiane@soufiane-VirtualBox:~$ adb forward tcp:1986 tcp:1986
soufiane@soufiane-VirtualBox:~$
```

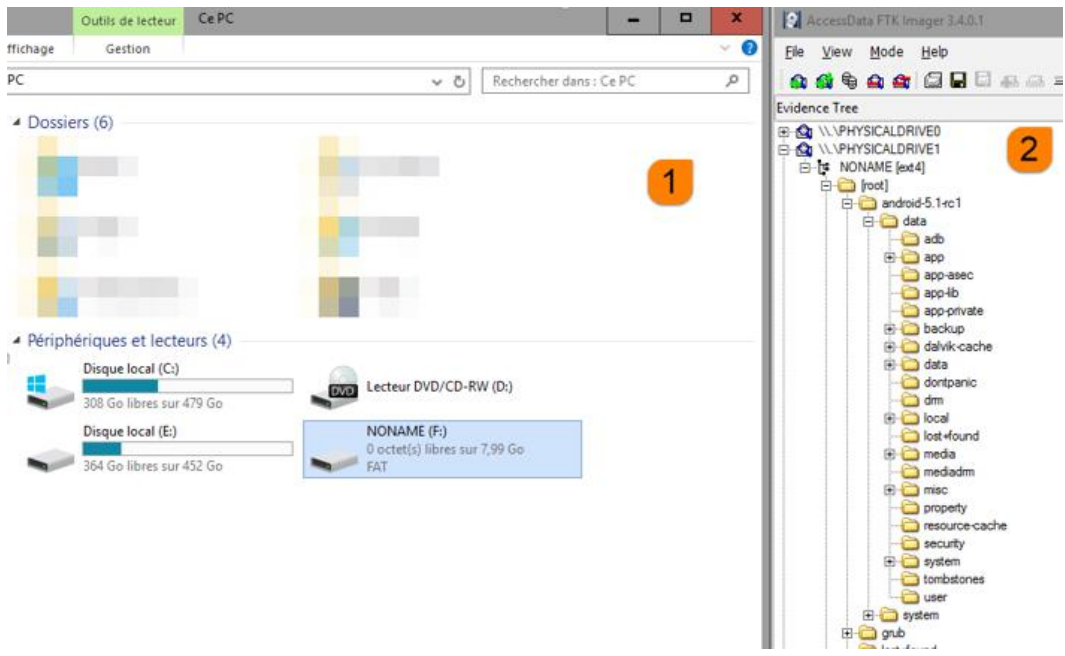
-----

```
16771797+0 records in
16771797+0 records out
8587160064 bytes transferred in 1222.404 secs (7024813 bytes/sec)
```

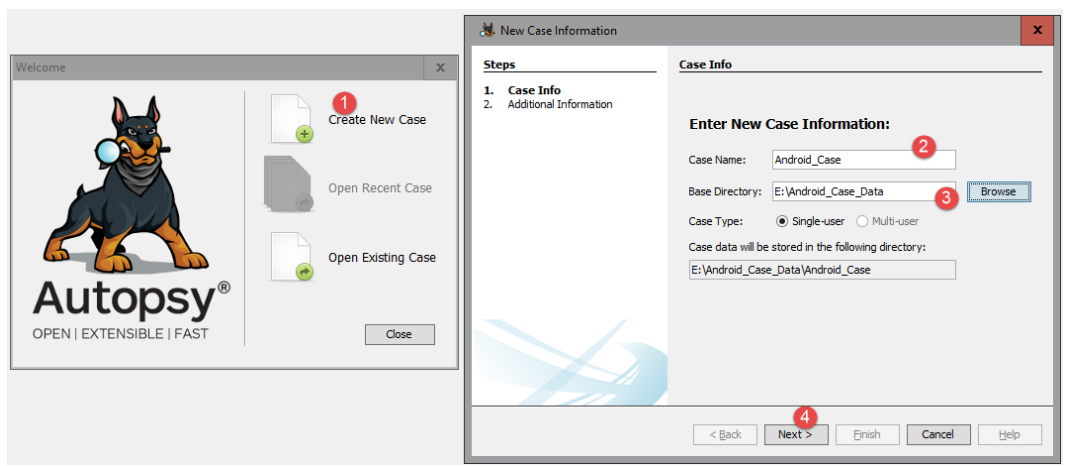
-----



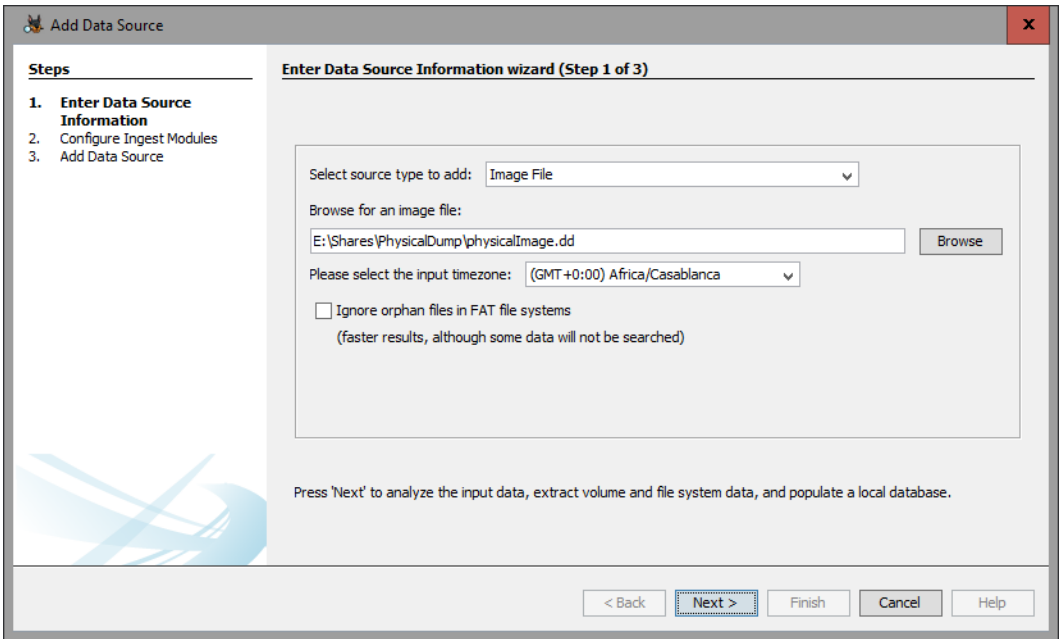
-----



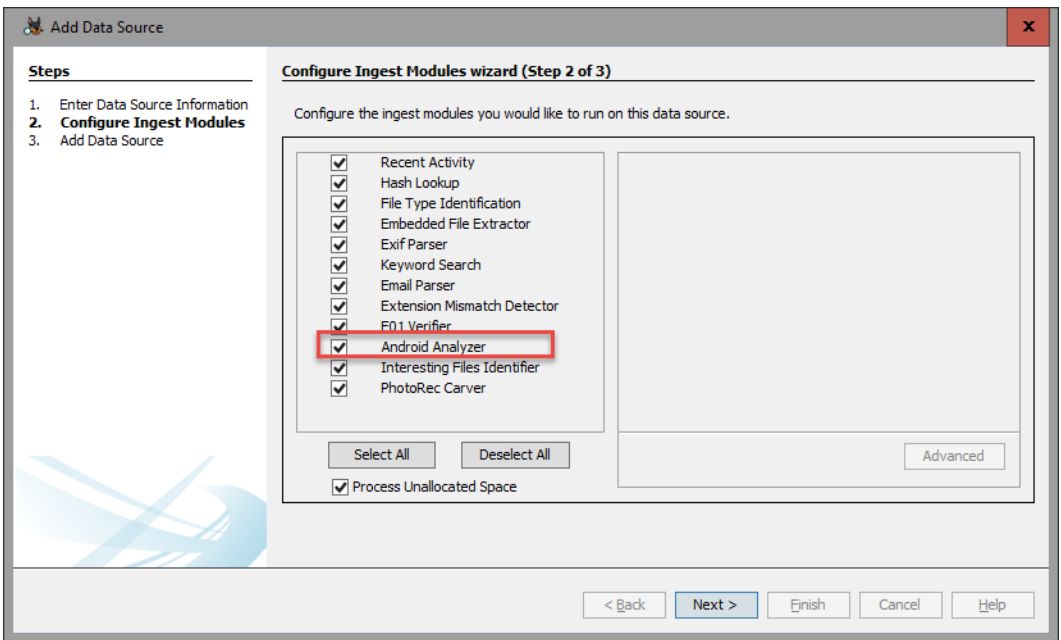
-----



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**Analyzing files from dump.dd** 100%

f0010920.xml

Periodic Keyword Search Analyzing files from dump.dd 89%

Email Addresses: soufianetahiri.forensic@gmail.com

Embedded File Extractor 100%

f0171528: CERT.RSA

-----

**Results**

- Extracted Content
  - Call Logs (500)
  - Contacts (535)
  - EXIF Metadata (415)
  - Encryption Detected (4)
  - Extension Mismatch Detected (3511)
  - Messages (12047)**
  - Web Bookmarks (5)
  - Web Cookies (3845)
  - Web Downloads (38)
  - Web History (9619)
  - Web Search (321)

-----

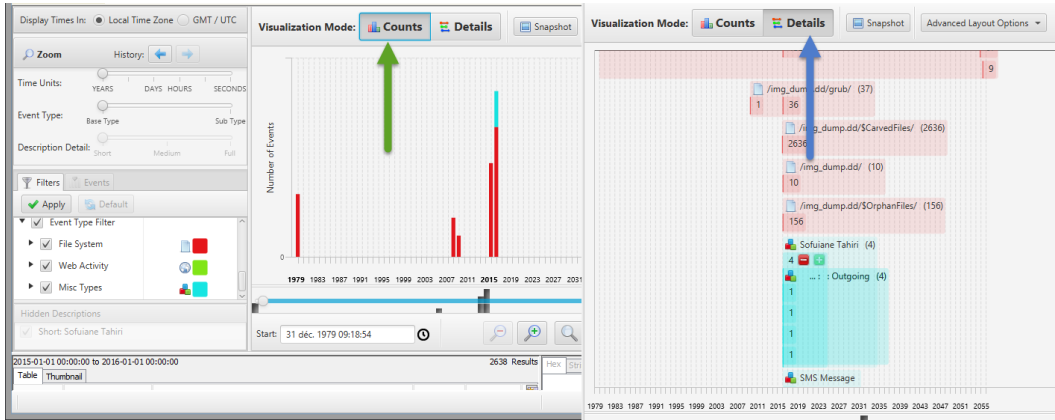
Contacts							
Table	Thumbnail						
Source File	Data Source	△ Name	Phone Number	Email			
contacts2.db	dump.dd						
contacts2.db	dump.dd	Nawal	(				
contacts2.db	dump.dd	Sofuiane Tahiri	(066) 855-9975	soufianetahiri@gmail.com			

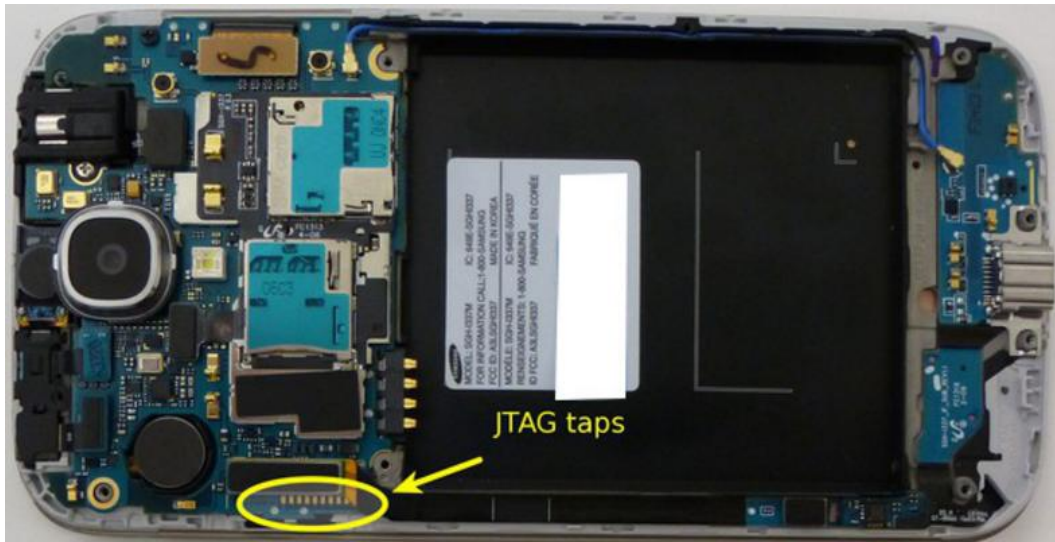
Messages							
Table	Thumbnail						
Source File	Direction	To Phone Number	Date/Time	Read	Subject	Text	Message Type
mmssms.db	Outgoing	0668559975	2016-02-04 12:47:10 WET	Unread		This is a test message	SMS Message

Call Logs							
Table	Thumbnail						
Source File	To Phone Number	Start Date/Time	End Date/Time	Direction	Name	Data Source	
contacts2.db	0668559975	2016-02-01 20:45:49 WET	2016-02-01 20:45:49 WET	Outgoing	Sofuiane Tahiri	dump.dd	
contacts2.db	0668559975	2016-02-01 20:45:42 WET	2016-02-01 20:45:42 WET	Outgoing	Sofuiane Tahiri	dump.dd	
contacts2.db	0668559975	2016-02-01 20:45:35 WET	2016-02-01 20:45:35 WET	Outgoing	Sofuiane Tahiri	dump.dd	

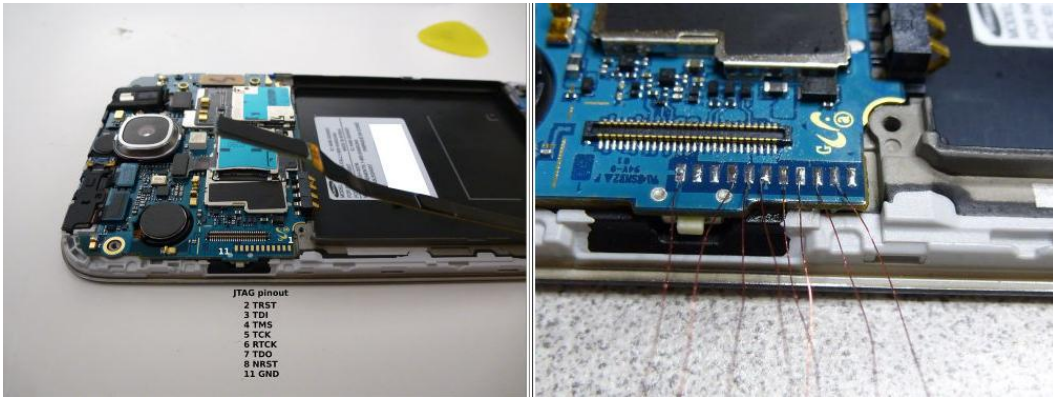


-----

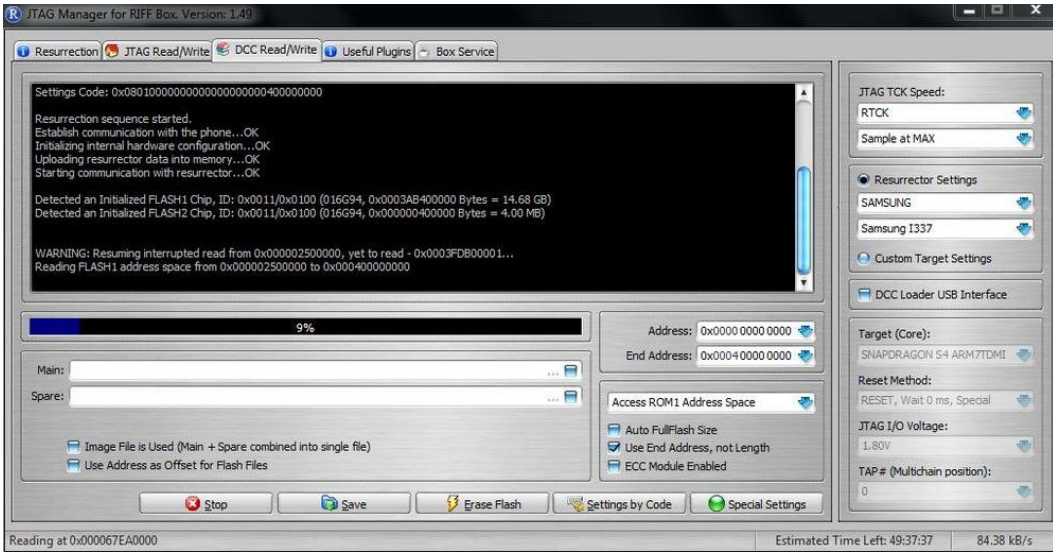


-----

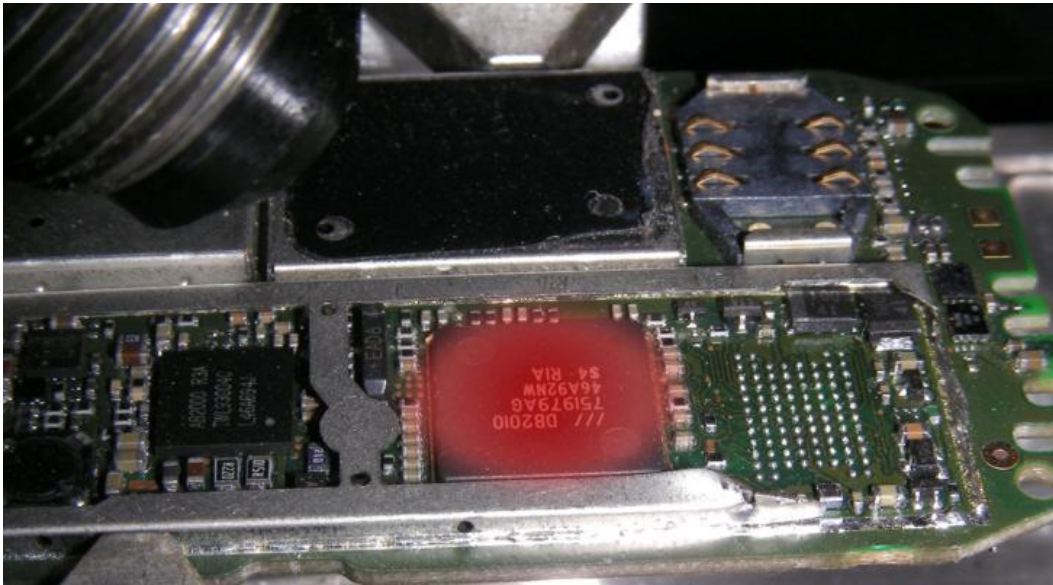




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```
soufiane@soufiane-VirtualBox:~$ adb pull /data/data/com.facebook.orca /media/HostShares/
ares/
pull: building file list...
pull: /data/data/com.facebook.orca/cache/image/v2.ols100.1/11/-JslGRfeva7VX79cG-QM4
7q3bk8.cnt -> /media/HostShares/cache/image/v2.ols100.1/11/-JslGRfeva7VX79cG-QM47q3
bk8.cnt
pull: /data/data/com.facebook.orca/cache/image/v2.ols100.1/11/vzLvdHTIgHSVb_XFmsuSD
fbc8eI.cnt -> /media/HostShares/cache/image/v2.ols100.1/11/vzLvdHTIgHSVb_XFmsuSDfbc
8eI.cnt
pull: /data/data/com.facebook.orca/cache/fb_voicemail_asset_725078935 -> /media/Hos
tShares/cache/fb_voicemail_asset_725078935
pull: /data/data/com.facebook.orca/files/image/v2.ols100.1/33/lFiMFn3SLjurnUb_3iNFi
_yRUY.cnt -> /media/HostShares/files/image/v2.ols100.1/33/lFiMFn3SLjurnUb_3iNFi_y
pull: /data/data/com.facebook.orca/lib -> /media/HostShares/FacebookMessenger/lib
failed to copy '/data/data/com.facebook.orca/lib' to '/media/HostShares/FacebookMes
senger/lib': Is a directory
153 files pulled. 0 files skipped.
866 KB/s (37802839 bytes in 42.586s)
```

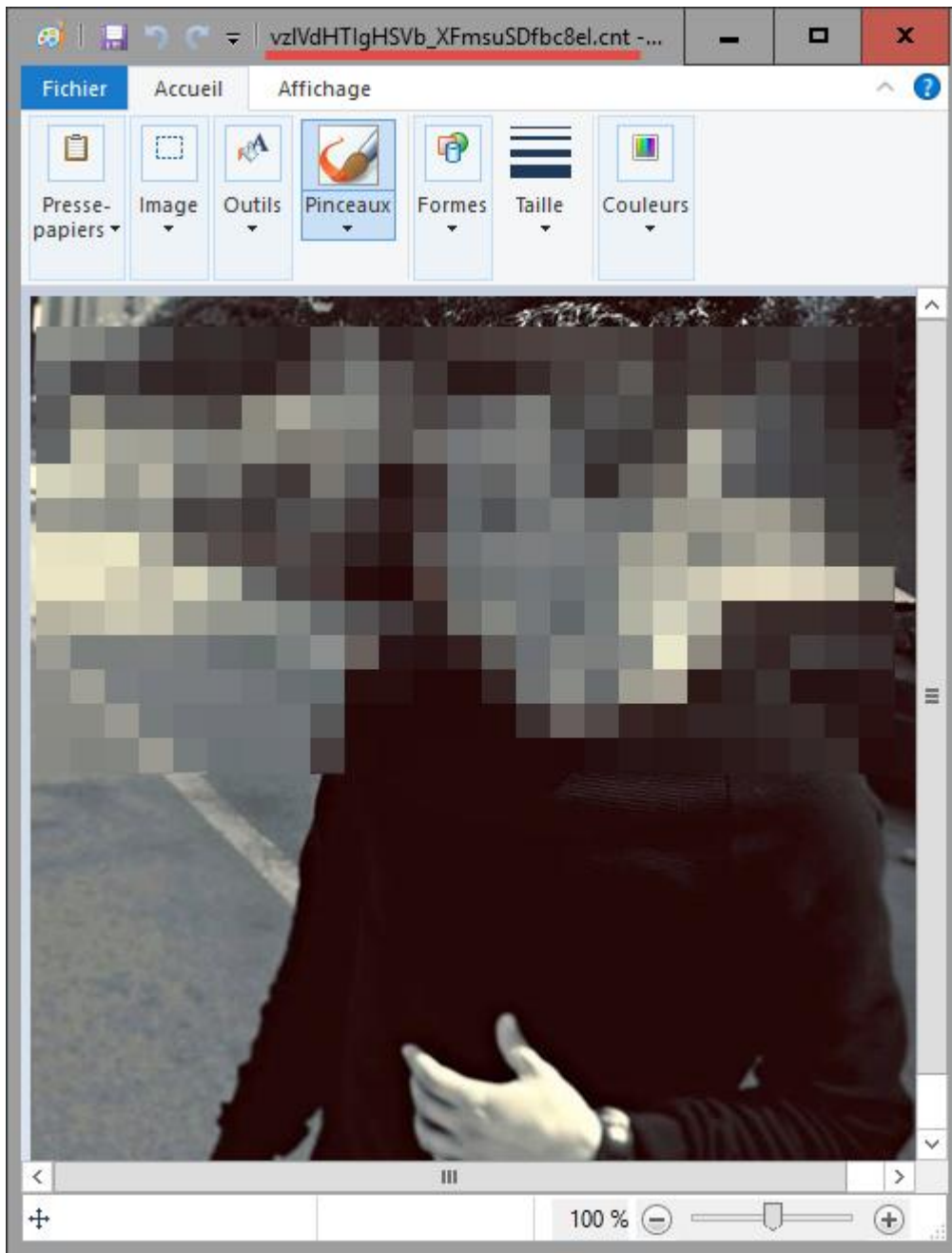
-----

```
E:\SHARES\FACEBOOKMESSENGER
├── app_acra-reports
├── app_gatekeepers
│   └── users
│       └── 1491343894
├── app_light_prefs
│   └── com.facebook.orca
├── app_omnystore
├── app_qe_sessioned
│   ├── 3549133cb494b60c1be93271ebc65ce8c2602604
│   └── 7EDF4DB65CE73C196C02D2C2D05FD990B44FA619
├── app_qe_sessionless
│   ├── ddb5d4d6-4f6f-4d6b-b7cb-9bdb2f840d3b
│   └── 887F9B259EB9BE6F5CC3A05BDF17A54DC5DE086F
├── app_sessionless_gatekeepers
├── app_webview
├── cache
│   └── image
│       └── v2.ols100.1
│           └── 11
├── databases
├── dex
├── files
│   └── image
│       └── v2.ols100.1
│           ├── 27
│           ├── 33
│           ├── 4
│           ├── 41
│           ├── 42
│           ├── 44
│           ├── 46
│           ├── 47
│           ├── 49
│           ├── 6
│           ├── 79
│           ├── 87
│           ├── 89
│           ├── 91
│           └── 93
├── lib-assets
├── lib-main
├── lib-xzs
└── shared_prefs
```

-----

-  -JsIGRfeva7VX79cG-QM47q3bk8.cnt
-  vzIVdHTlgHSVb\_XFmsuSDfbc8el.cnt

```
soufiane@soufiane-VirtualBox:~$ file /media/HostShares/FacebookMessenger/cache/image/v2.ols100.1/11/vzLVdHTIgHSVb_XFmsuSDfbc8eI.cnt
/media/HostShares/FacebookMessenger/cache/image/v2.ols100.1/11/vzLVdHTIgHSVb_XFmsuSDfbc8eI.cnt: JPEG image data, JFIF standard 1.02
soufiane@soufiane-VirtualBox:~$
```



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<table border="1"> <tr><th><b>_shared_version</b></th></tr> <tr><td>name: text</td></tr> <tr><td>version: integer</td></tr> <tr><td>sqlite_autoindex__shared_version_1</td></tr> </table>	<b>_shared_version</b>	name: text	version: integer	sqlite_autoindex__shared_version_1	<table border="1"> <tr><th><b>contacts</b></th></tr> <tr><td>internal_id: integer</td></tr> <tr><td>contact_id: text</td></tr> <tr><td>fbid: text</td></tr> <tr><td>first_name: text</td></tr> <tr><td>last_name: text</td></tr> <tr><td>display_name: text</td></tr> <tr><td>small_picture_url: text</td></tr> <tr><td>big_picture_url: text</td></tr> <tr><td>huge_picture_url: text</td></tr> <tr><td>small_picture_size: integer</td></tr> <tr><td>big_picture_size: integer</td></tr> <tr><td>huge_picture_size: integer</td></tr> <tr><td>communication_rank: real</td></tr> <tr><td>is_mobile_pushable: integer</td></tr> <tr><td>is_messenger_user: text</td></tr> <tr><td>messenger_install_time_ms: integer</td></tr> <tr><td>added_time_ms: integer</td></tr> <tr><td>phonebook_section_key: text</td></tr> <tr><td>is_on_viewer_contact_list: text</td></tr> <tr><td>type: text</td></tr> <tr><td>link_type: text</td></tr> <tr><td>is_indexed: integer</td></tr> <tr><td>data: text</td></tr> <tr><td>bday_day: integer</td></tr> <tr><td>bday_month: integer</td></tr> <tr><td>is_partial: integer</td></tr> <tr><td>last_fetch_time_ms: integer</td></tr> <tr><td>contact_index_by_fbid</td></tr> <tr><td>sqlite_autoindex_contacts_1</td></tr> </table>	<b>contacts</b>	internal_id: integer	contact_id: text	fbid: text	first_name: text	last_name: text	display_name: text	small_picture_url: text	big_picture_url: text	huge_picture_url: text	small_picture_size: integer	big_picture_size: integer	huge_picture_size: integer	communication_rank: real	is_mobile_pushable: integer	is_messenger_user: text	messenger_install_time_ms: integer	added_time_ms: integer	phonebook_section_key: text	is_on_viewer_contact_list: text	type: text	link_type: text	is_indexed: integer	data: text	bday_day: integer	bday_month: integer	is_partial: integer	last_fetch_time_ms: integer	contact_index_by_fbid	sqlite_autoindex_contacts_1	<table border="1"> <tr><th><b>ephemeral_data</b></th></tr> <tr><td>fbid: text</td></tr> <tr><td>type: text</td></tr> <tr><td>data: text</td></tr> <tr><td>sqlite_autoindex_ephemeral_data_1</td></tr> </table>	<b>ephemeral_data</b>	fbid: text	type: text	data: text	sqlite_autoindex_ephemeral_data_1
<b>_shared_version</b>																																									
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data: text																																									
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<b>contacts</b>																												
internal_id: INTEGER																												
contact_id: TEXT																												
fbid: TEXT																												
first_name: TEXT																												
last_name: TEXT																												
display_name: TEXT																												
small_picture_url: TEXT																												
big_picture_url: TEXT																												
huge_picture_url: TEXT																												
small_picture_size: INTEGER																												
big_picture_size: INTEGER																												
huge_picture_size: INTEGER																												
communication_rank: REAL																												
is_mobile_pushable: INTEGER																												
is_messenger_user: TEXT																												
messenger_install_time_ms: INTEGER																												
added_time_ms: INTEGER																												
phonebook_section_key: TEXT																												
is_on_viewer_contact_list: TEXT																												
type: TEXT																												
link_type: TEXT																												
is_indexed: INTEGER																												
data: TEXT																												
bday_day: INTEGER																												
bday_month: INTEGER																												
is_partial: INTEGER																												
last_fetch_time_ms: INTEGER																												

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fbid	first_name	last_name	display_name	small_picture_url	big_picture_url	huge_picture_url
Filter	Filter	Filter	Filter	Filter	Filter	Filter
103	Abdelouahed	Aomari	Abdelouahed I	https://fbcdn-prl	https://fbcdn-prl	https://fbcdn-prl
662	Nawal	Adnani	Nawal Adnani	https://fbcdn-prl	https://fbcdn-prl	https://fbcdn-prl
100				https://fbcdn-prl	https://fbcdn-prl	https://fbcdn-prl
100				https://fbcdn-prl	https://fbcdn-prl	https://fbcdn-prl
599				https://fbcdn-prl	https://fbcdn-prl	https://fbcdn-prl
542				https://fbcdn-prl	https://fbcdn-prl	https://fbcdn-prl
100				https://fbcdn-prl	https://fbcdn-prl	https://fbcdn-prl
556				https://fbcdn-prl	https://fbcdn-prl	https://fbcdn-prl
137				https://fbcdn-prl	https://fbcdn-prl	https://fbcdn-prl
784				https://fbcdn-prl	https://fbcdn-prl	https://fbcdn-prl

-----

Edit database cell

Import Export Text Clear

```

3ZU}}}, name: { type: 'text', value: 'Nawal Adnani' }, birthdayDay: 4, birthdayMonth: 8, cityName: 'Rabat, Morocco', sPartial: false, lastFetchTime: 1454779620, montageThread-BID: 0, canSeeViewerMontageThread: false

```

Type of data currently in cell: Text / Numeric  
2104 char(s)

OK Cancel

favorite\_contacts

fbid

display\_order

TEXT

INTEGER

properties	
key:	text
value:	text
sqlite_autoindex_properties_1	

pinned_threads	
thread_key:	text
display_order:	integer
sqlite_autoindex_pinned_threads_1	

group_conversations	
thread_key:	text
rank:	float
sqlite_autoindex_group_conversa...	

folders	
thread_key:	text
folder:	text
timestamp_ms:	integer
folders_timestamp_index	
sqlite_autoindex_folders_1	

folder_counts	
folder:	text
unread_count:	integer
unseen_count:	integer
last_seen_time:	integer
last_action_id:	integer
sqlite_autoindex_folder_counts_1	

_shared_version	
name:	text
version:	integer
sqlite_autoindex_shared_version...	

messages	
msg_id:	text
thread_key:	text
action_id:	integer
text:	text
sender:	text
is_not_forwardable:	integer
timestamp_ms:	integer
timestamp_sent_ms:	integer
attachments:	text
shares:	text
sticker_id:	text
msg_type:	integer
affected_users:	text
coordinates:	text
offline_threading_id:	text
source:	text
channel_source:	text
send_channel:	text
is_non_authoritative:	integer
pending_send_media_attachment...	text
sent_share_attachment:	string
client_tags:	text
send_error:	string
send_error_message:	string
send_error_number:	integer
send_error_timestamp_ms:	integer
send_error_error_url:	string
publicity:	text
send_queue_type:	text
payment_transaction:	text
payment_request:	text
has_unavailable_attachment:	inte...
app_attribution:	text
content_app_attribution:	text
xma:	text
admin_text_type:	integer
admin_text_theme_color:	integer
admin_text_thread_icon_emoji:	text
admin_text_nickname:	text
admin_text_target_id:	text
admin_text_thread_message_lifet...	text
admin_text_thread_journey_color...	text
admin_text_thread_journey_emoji...	text
admin_text_thread_journey_nickn...	text
admin_text_thread_journey_bot_c...	text
message_lifetime:	integer
admin_text_thread_rtc_event:	text
admin_text_thread_rtc_server_inf...	text
admin_text_thread_rtc_is_video...	text
messages_offline_threading_id_in...	text
messages_timestamp_index	
messages_type_index	
sqlite_autoindex_messages_1	

threads	
thread_key:	text
legacy_thread_id:	text
action_id:	integer
refetch_action_id:	integer
last_visible_action_id:	integer
sequence_id:	integer
name:	text
participants:	text
former_participants:	text
bot_participants:	text
senders:	text
snippet:	text
snippet_sender:	text
admin_snippet:	text
timestamp_ms:	integer
last_read_timestamp_ms:	integer
approx_total_message_count:	int...
unread_message_count:	integer
last_fetch_time_ms:	integer
pic_hash:	text
pic:	text
can_reply_to:	integer
cannot_reply_reason:	text
mute_until:	integer
is_subscribed:	integer
folder:	text
draft:	text
has_missed_call:	integer
me_bubble_color:	integer
other_bubble_color:	integer
wallpaper_color:	integer
last_fetch_action_id:	integer
initial_fetch_complete:	integer
custom_like_emoji:	text
outgoing_message_lifetime:	integer
custom_nicknames:	text
invite_uri:	text
sqlite_autoindex_threads_1	
threads_legacy_thread_id_index	

thread_users	
user_key:	text
first_name:	text
last_name:	text
name:	text
is_messenger_user:	integer
profile_pic_square:	text
profile_type:	text
is_commerce:	integer
is_partial:	integer
user_rank:	real
is_blocked_by_viewer:	integer
is_message_blocked_by_viewer:	i...
commerce_page_type:	text
can_viewer_message:	integer
commerce_page_settings:	text
is_friend:	integer
last_fetch_time:	integer
montage_thread_fbid:	text
can_see_viewer_montage_thread...	text
is_messenger_bot:	integer
is_messenger_promotion_blocked...	text
sqlite_autoindex_thread_users_1	

ranked_threads	
thread_key:	text
display_order:	integer
sqlite_autoindex_ranked_threads_1	

android_metadata	
locale:	text



preferences
key: text
type: integer
value: text
sqlite_autoindex_preferences_1

android_metadata
locale: text

_shared_version
name: text
version: integer
sqlite_autoindex__shared_version...

-----

Edit database cell
?
X

Import
Export
Text
Clear

```
[{"name": "c_user", "value": "1486315375", "expires": "Sun, 05 Feb 2017 17:22:55 GMT", "expires_timestamp": 1486315375, "domain": ".facebook.com", "path": "/", "secure": true}, {"name": "fr", "value": "00"}, {"name": "AAA", "value": "0.AWUJAWPx", "expires": "Sun, 05 Feb 2017 17:22:55 GMT", "expires_timestamp": 1486315375, "domain": ".facebook.com", "path": "/"}, {"name": "xs", "value": "1486315375", "expires": "Sun, 05 Feb 2017 17:22:55 GMT", "expires_timestamp": 1486315375, "domain": ".facebook.com", "path": "/"}, {"name": "csm", "value": "2", "expires": "Sun, 05 Feb 2017 17:22:55 GMT", "expires_timestamp": 1486315375, "domain": ".facebook.com", "path": "/"}, {"name": "s", "value": "1517851370", "expires": "Sun, 05 Feb 2017 17:22:55 GMT", "expires_timestamp": 1486315375, "domain": ".facebook.com", "path": "/"}, {"name": "datr", "value": "1517851370", "expires": "Mon, 05 Feb 2018 17:22:50 GMT", "expires_timestamp": 1517851370, "domain": ".facebook.com", "path": "/"}]
```

Type of data currently in cell: Text / Numeric
OK
Cancel

1010 char(s)

-----

```
{
  "uid": "1491343894",
  "first_name": "Soufiane",
  "last_name": "Tahiri",
  "name": "Soufiane Tahiri",
  "birth_date_year": ...,
  "birth_date_month": ...,
  "birth_date_day": ...,
  "gender": ...,
  "emails": [
    {
      "full_number": "+212668559975",
      "display_number": "0668-559975",
      "is_verified": true,
      "android_type": 0
    }
  ],
  "phones": [
    {
      "full_number": "+212668559975",
      "display_number": "0668-559975",
      "is_verified": true,
      "android_type": 0
    }
  ],
  "pic_square": "https://fbcdn-profile-a.akamaihd.net/hprofile-ak-xta1/v/t1.0-1/p160x160/11949452_10204987185587960_147997389592153134_n.jpg?nc_ad=z-m8oh=3a5309240cc778fa4b217ea612ba53280e=57383FF98_gda__=1463144513_2ff976d3240a2326edbb0976c51f9e61",
  "profile_pic_square": [
    {
      "url": "https://fbcdn-profile-a.akamaihd.net/hprofile-ak-xta1/v/t1.0-1/p160x160/11949452_10204987185587960_147997389592153134_n.jpg?nc_ad=z-m8oh=3a5309240cc778fa4b217ea612ba53280e=57383FF98_gda__=1463144513_2ff976d3240a2326edbb0976c51f9e61",
      "size": 160
    }
  ],
  "profile_picture_is_silhouette": false,
  "montage_thread_fb_id": 0,
  "can_see_viewer_montage_thread": false,
  "is_deactivated_allowed_on_messenger": false
}
```

-----

<b>_shared_version</b> name: text version: integer sqlite_autoindex__shared_version...	<b>events</b> _id: integer session_id: text app_version_name: text app_version_code: integer flush_tag: text data: text timestamp: integer	<b>android_metadata</b> locale: text
		<b>analytics_db_properties</b> key: text value: text sqlite_autoindex_analytics_db_pr...

-----

/active_session_id	[REDACTED]
/uploading_session_id	[REDACTED]
/regular_beacon_id	2
/session_user_id	1491343894
/last_send_time	1454780294851
/last_event_time	1454780293704
/uploading_batch_seq_id	1

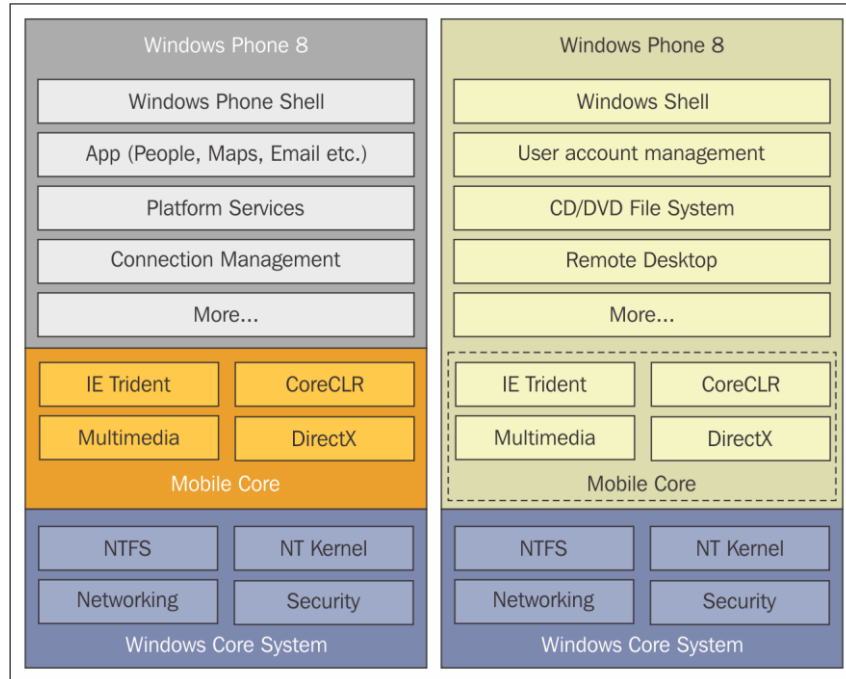
-----

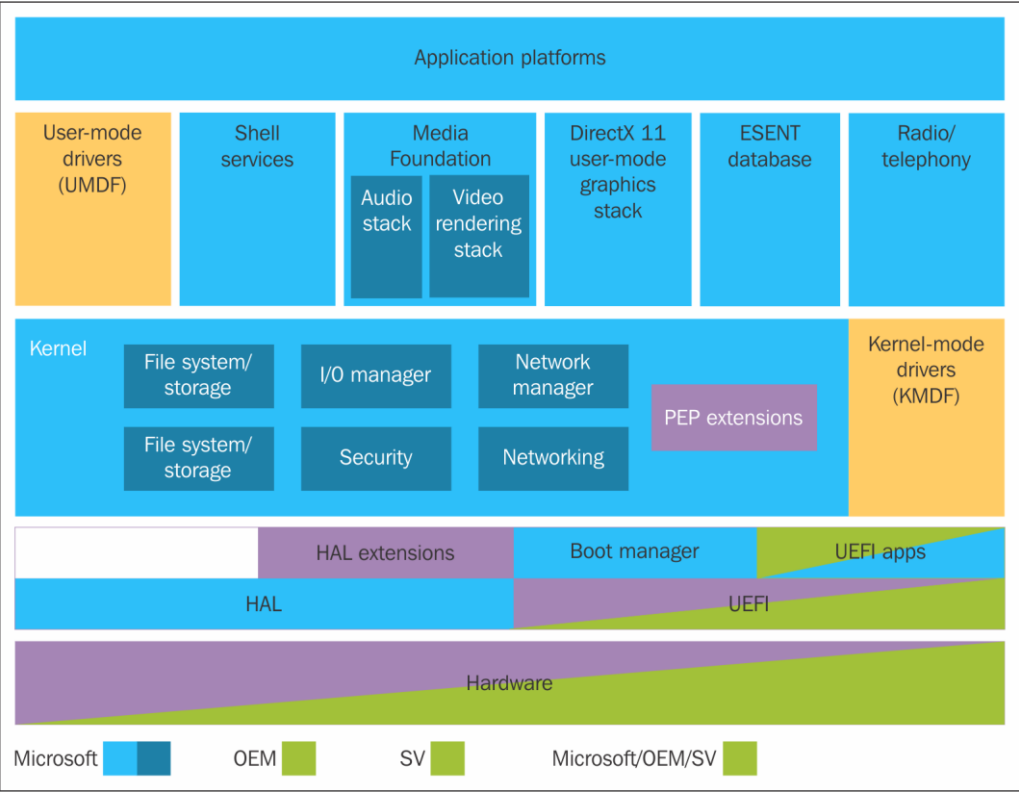
```

{"time":"145479996.318","log_type":"client_event","name":"messaging_pub_ack","extra":{"status":"success","puback","retry_count":"0","sent_timestamp_ms":"145479970023","first_message_first_send_delta":"25022","client_seq_bigger","new_main_recent
{"time":"145479996.808","log_type":"client_event","name":"delivery_receipt_received","extra":{"timestamp_timestamp":"14547999721","message_id":"mid.14547999717.2aa158a1ac0.933353","sequence_id":"45334","user_id":"
{"time":"1454780001.051","log_type":"client_event","name":"messaging_send_via_mqtt","extra":{"status":"success","first_send_delta":"29656","initial_mqtt_push_state":"CONNECTED","current_time":"145478000949","mqtt_push_state":"CONNECTED","retry,

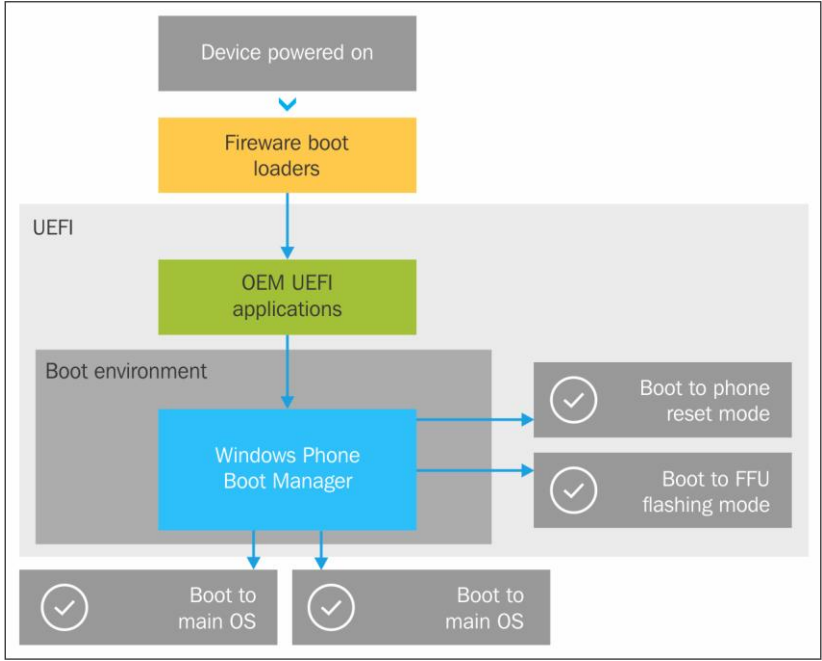
```

## Chapter 5: Windows Phone 8 Forensics





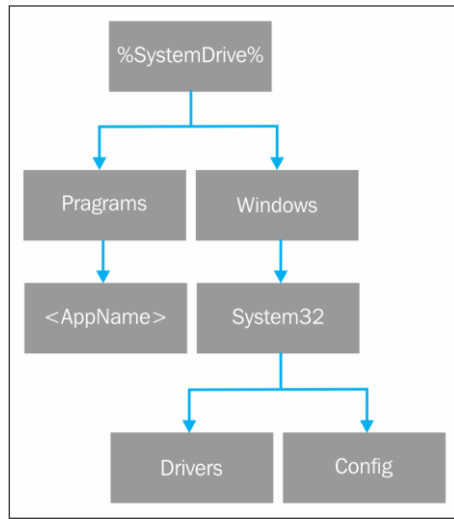
-----



-----

- ⊕ [redacted] DPP (1) [8MB]
- ⊕ [redacted] MODEM\_FSG (2) [3MB]
- ⊕ [redacted] SSD (3) [0MB]
- ⊕ [redacted] SBL1 (4) [1MB]
- ⊕ [redacted] SBL2 (5) [1MB]
- ⊕ [redacted] SBL3 (6) [2MB]
- ⊕ [redacted] UEFI (7) [2MB]
- ⊕ [redacted] RPM (8) [0MB]
- ⊕ [redacted] TZ (9) [0MB]
- ⊕ [redacted] WINSECAPP (10) [0MB]
- ⊕ [redacted] BACKUP\_SBL1 (11) [1MB]
- ⊕ [redacted] BACKUP\_SBL2 (12) [1MB]
- ⊕ [redacted] BACKUP\_SBL3 (13) [2MB]
- ⊕ [redacted] BACKUP\_UEFI (14) [2MB]
- ⊕ [redacted] BACKUP\_RPM (15) [0MB]
- ⊕ [redacted] BACKUP\_TZ (16) [0MB]
- ⊕ [redacted] BACKUP\_WINSECAPP (17) [0MB]
- ⊕ [redacted] UEFI\_BS\_NV (18) [0MB]
- ⊕ [redacted] UEFI\_NV (19) [0MB]
- ⊕ [redacted] PLAT (20) [8MB]
- ⊕ [redacted] EFIESP (21) [64MB]
- ⊕ [redacted] MODEM\_FS1 (22) [3MB]
- ⊕ [redacted] MODEM\_FS2 (23) [3MB]
- ⊕ [redacted] UEFI\_RT\_NV (24) [0MB]
- ⊕ [redacted] UEFI\_RT\_NV\_RPMB (25) [0MB]
- ⊕ [redacted] MMOS (26) [78MB]
- ⊕ [redacted] MainOS (27) [2244MB]
- ⊕ [redacted] Data (28) [27347MB]

-----



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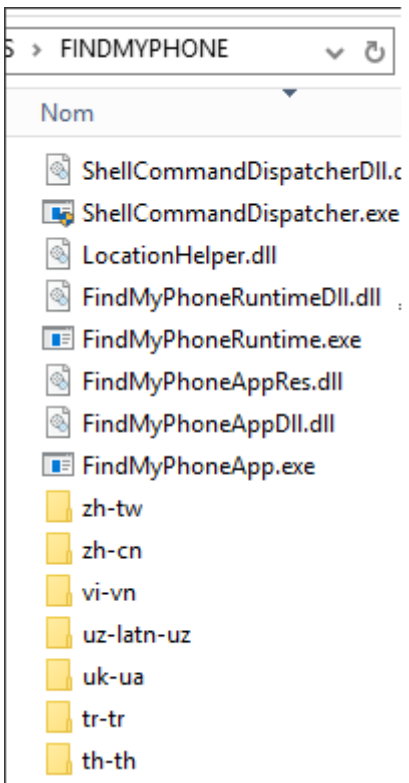
PROGRAMS

Nom ▲

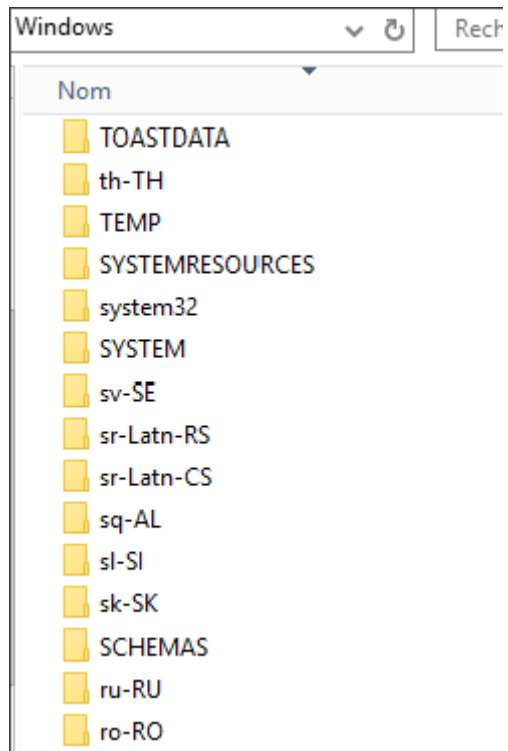
- ABOUTCPL
- ACCESSIBILITYCPL
- ACCESSLIB\_SVC
- ACTIONURIHOST
- ADVERTISINGIDCPL
- ALARMS
- APHCHECK
- APMUX
- APPPREINSTALLER
- APPRESOLVERUI
- APPSDATAMIGRATOR
- AUTHHOST\_MSA
- AUTHHOST\_WAB\_A
- AUTHHOST\_WAB\_B
- AUTHHOST\_WAB\_C
- AUTHHOST\_WAB\_ENTERPRISE
- AUTHHOST\_WAB\_SSO
- AUTHHOST\_WAB\_SSO\_ENTERPRISE

-----

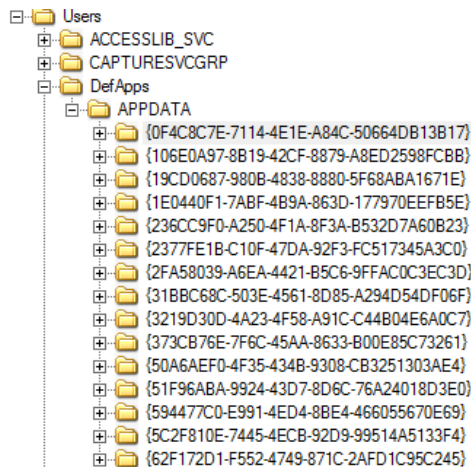
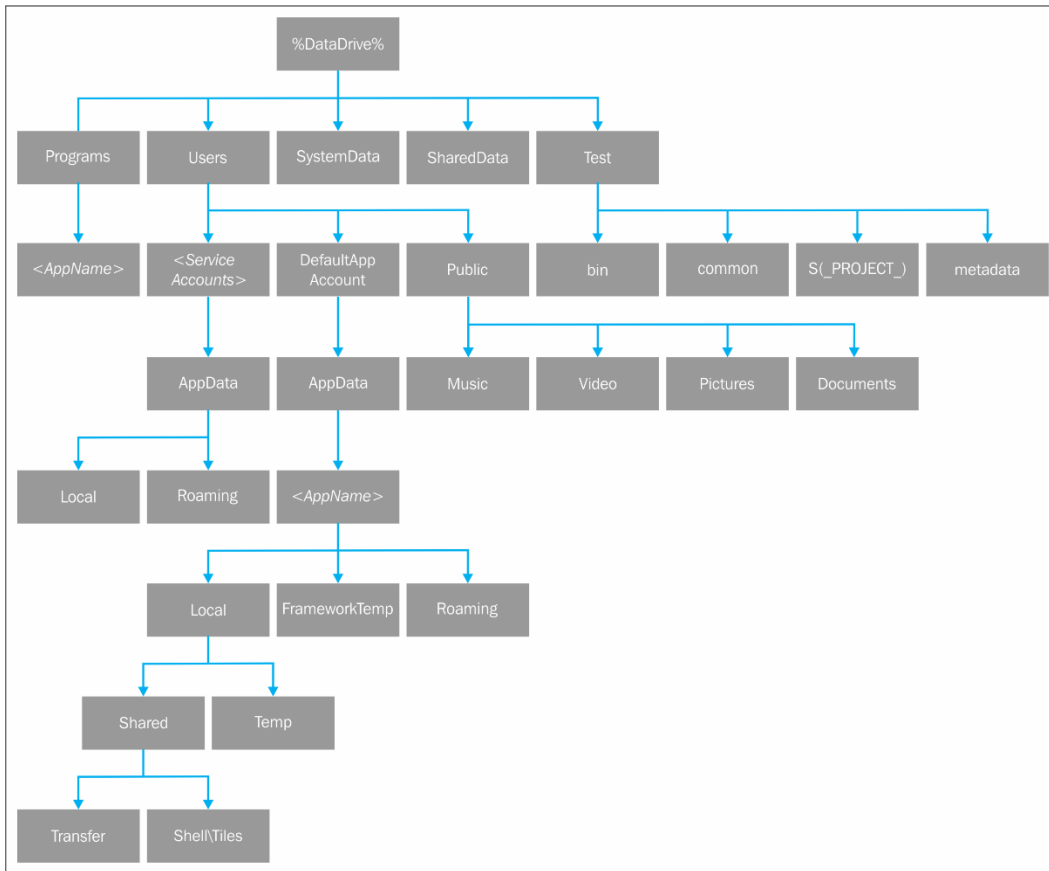




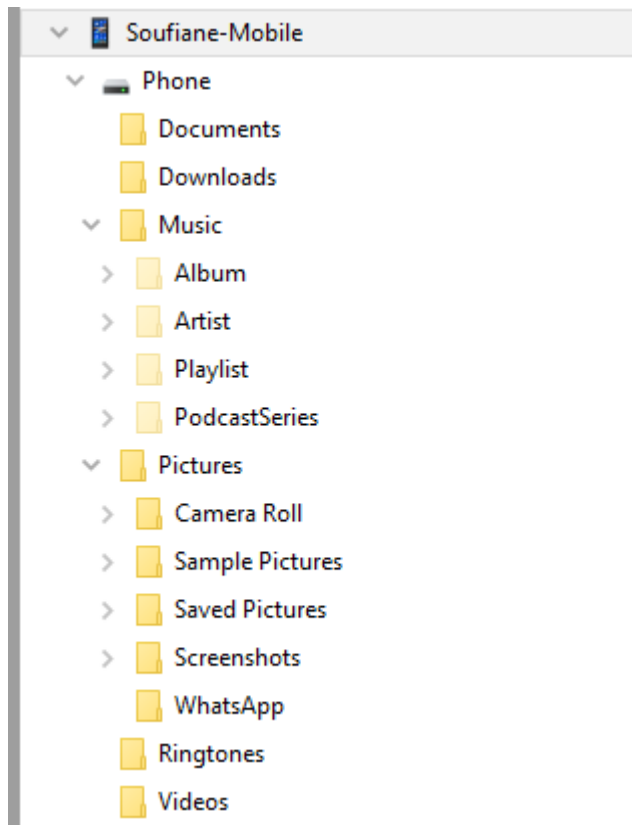
-----



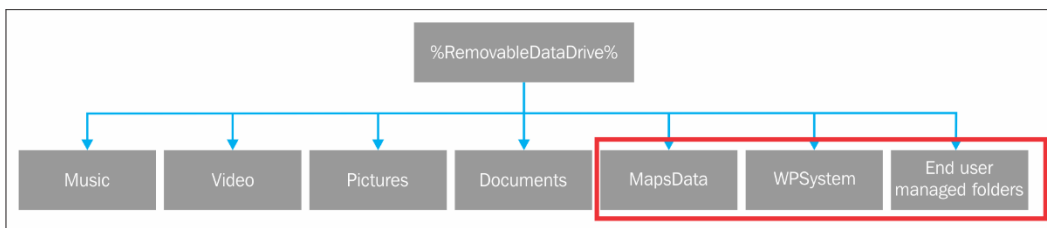
-----




Name	Size	Type
FrameworkTemp	1	Directory
INetCache	1	Directory
INetCookies	1	Directory
INetHistory	1	Directory
Local	1	Directory
LocalLow	1	Directory
PlatformData	1	Directory
Roaming	1	Directory
Temp	1	Directory
SI30	16	NTFS Index All...

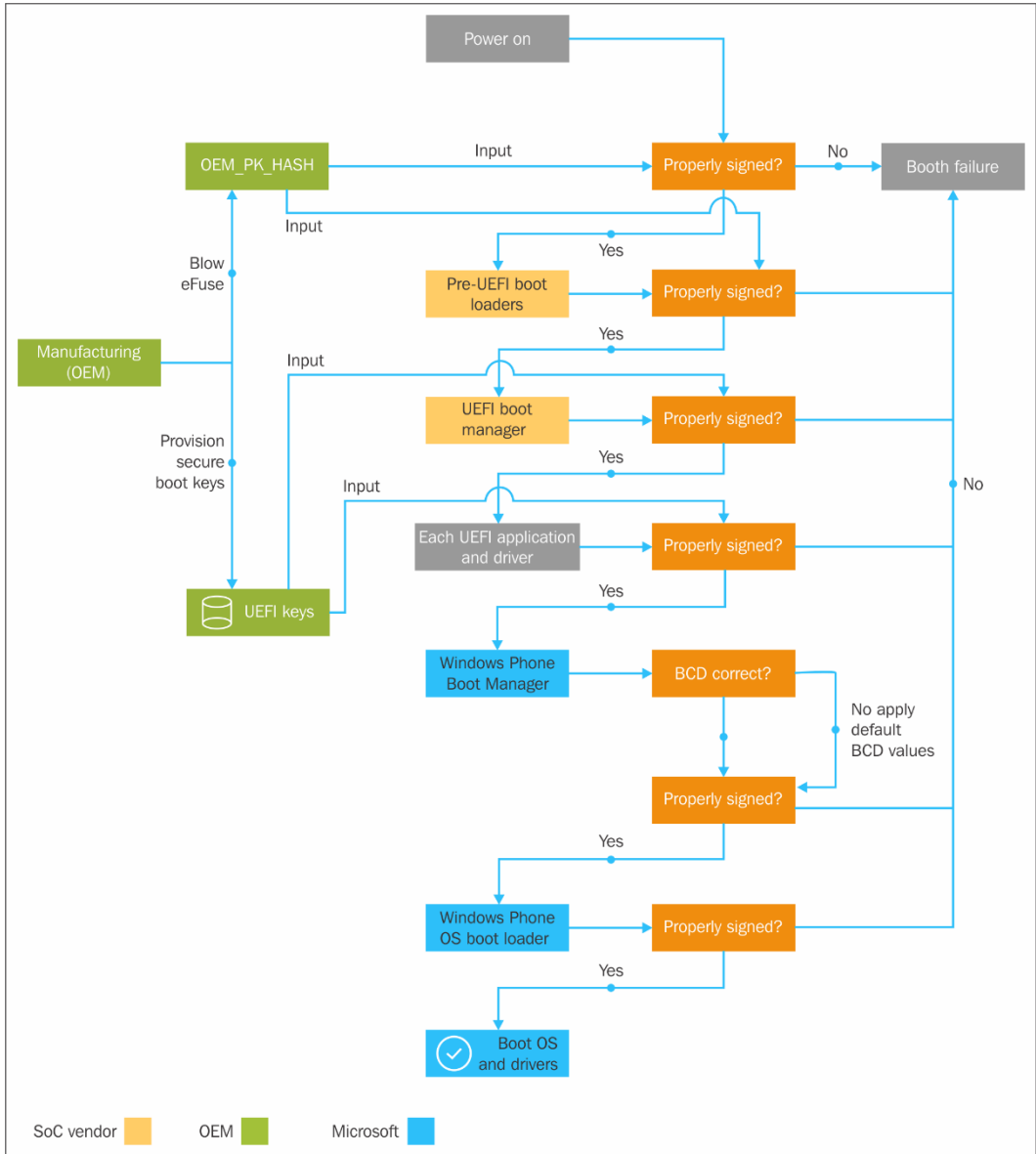


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	UEFI Secure Boot	Code-signed chain of trust
	Certified hardware	TPM 2.0 – all phones



Trusted Computing  
Base (TCB)

Least Privilege  
Chamber (LPC)

Dynamic  
Build  
(LPC)

-----

09:13 09:13

SETTINGS

# lock screen

Screen times out after

never

Password

On

[change password](#)

Require a password after

5 minutes

Current password

.....

Show password

New password

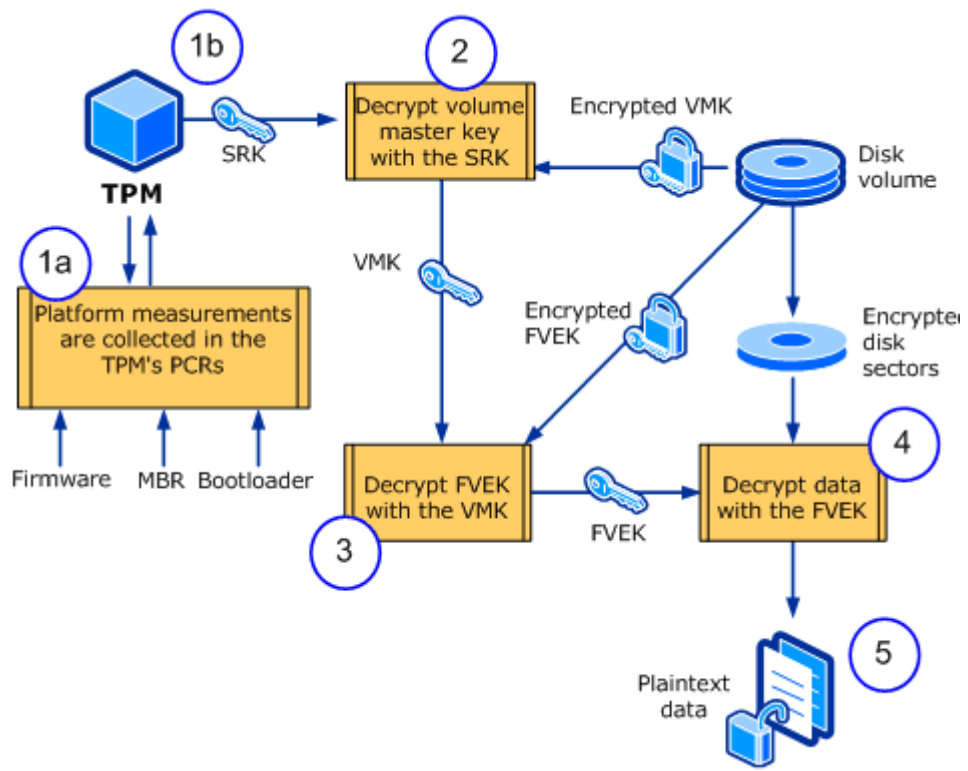
Show password

Confirm password

1	2	3
4	5	6
7	8	9
	0	< x

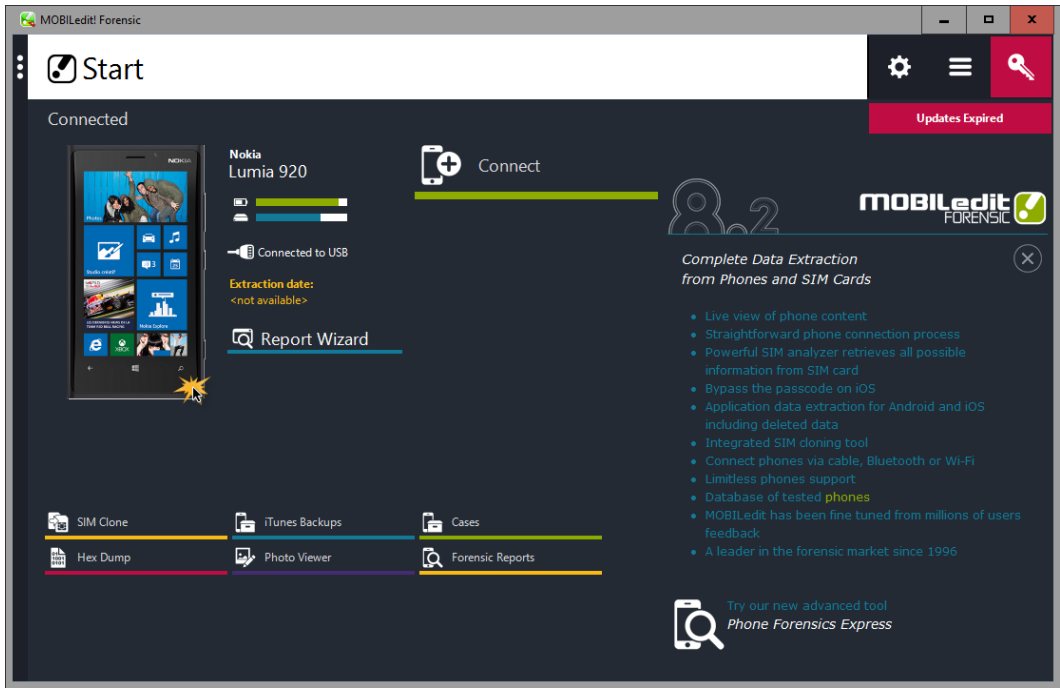
[done](#) [cancel](#)

-----

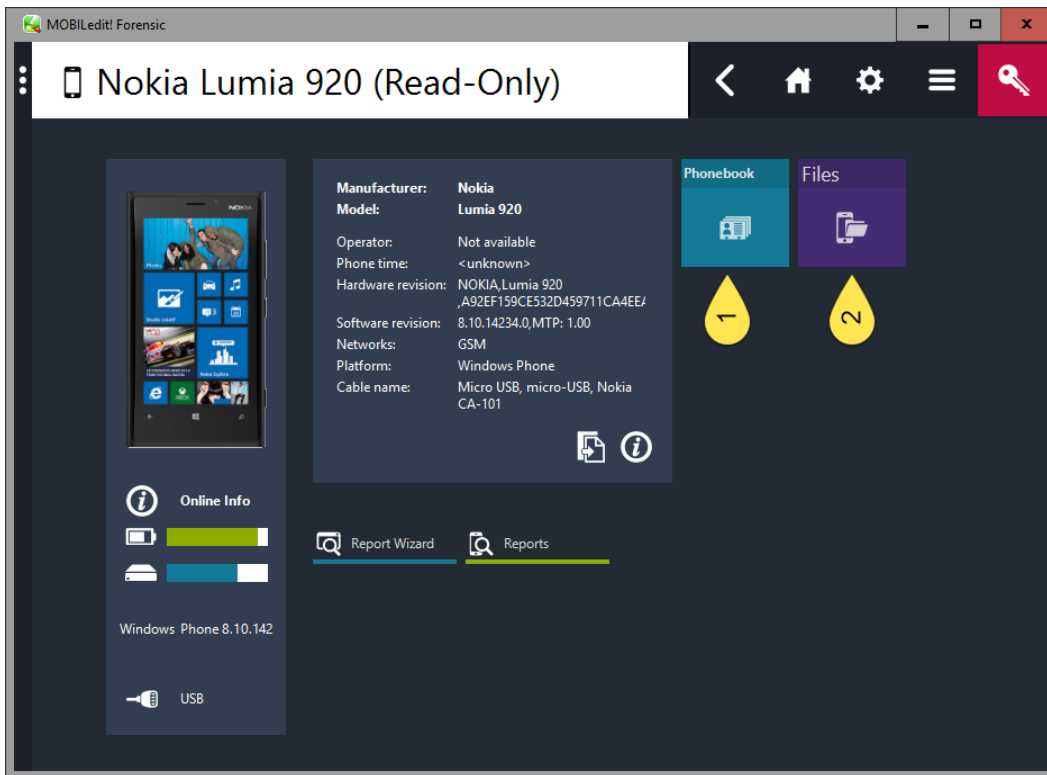


-----

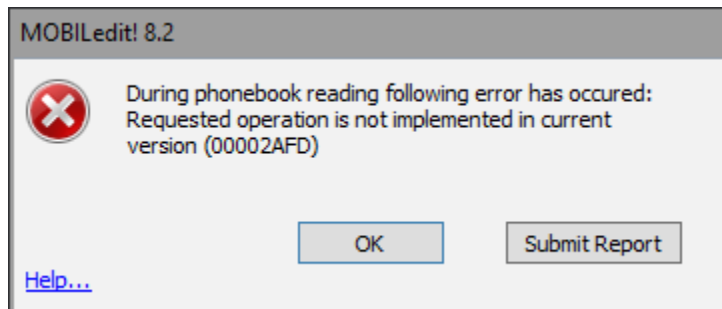




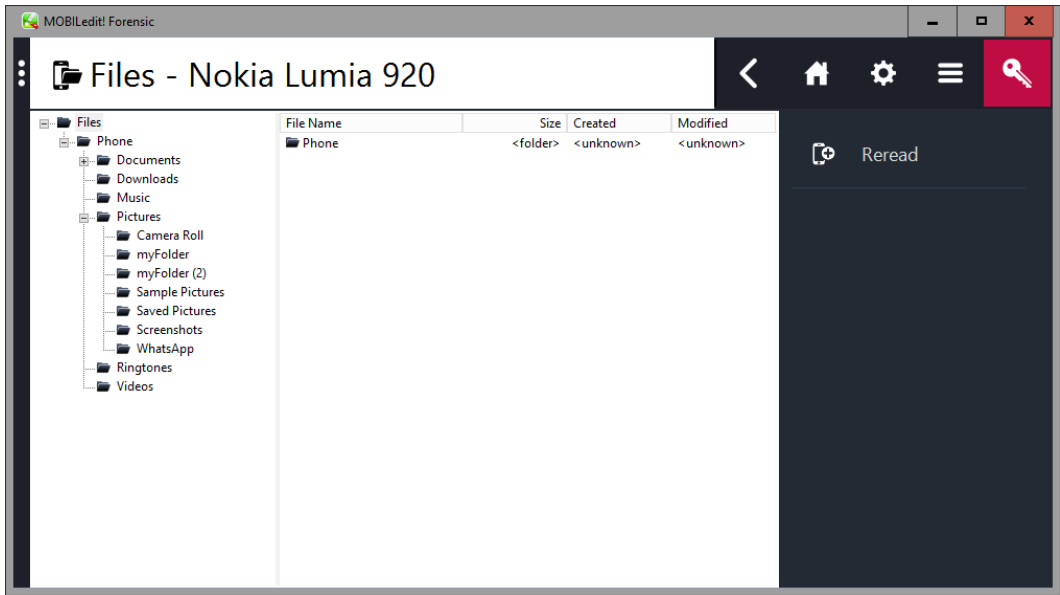
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# PTT - Nokia Lumia 920



- 362016 20545 PM
- 362016 22949 PM
- Camera Roll
- Sample Pictures
- Saved Pictures
- Screenshots
- Thumbnails
- Thumbnails (4)
- WhatsApp
- PTT**
- 2015-42
- 2015-43
- 2015-44
- 2015-45
- 2015-46
- 2015-47
- 2015-48
- 2015-49
- 2015-50
- 2015-51
- 2015-52
- 2016-01
- 2016-02
- 2016-03
- 2016-04
- 2016-05
- 2016-06
- 2016-07
- 2016-08
- 2016-09
- 2016-10
- Ringtones
- Videos

File Name	Size	Created	Mo
2015-42	<folder>	<unknown>	<u
2015-43	<folder>	<unknown>	<u
2015-44	<folder>	<unknown>	<u
2015-45	<folder>	<unknown>	<u
2015-46	<folder>	<unknown>	<u
2015-47	<folder>	<unknown>	<u
2015-48	<folder>	<unknown>	<u
2015-49	<folder>	<unknown>	<u
2015-50	<folder>	<unknown>	<u
2015-51	<folder>	<unknown>	<u
2015-52	<folder>	<unknown>	<u
2016-01	<folder>	<unknown>	<u
2016-02	<folder>	<unknown>	<u
2016-03	<folder>	<unknown>	<u
2016-04	<folder>	<unknown>	<u
2016-05	<folder>	<unknown>	<u
2016-06	<folder>	<unknown>	<u
2016-07	<folder>	<unknown>	<u
2016-08	<folder>	<unknown>	<u
2016-09	<folder>	<unknown>	<u
2016-10	<folder>	<unknown>	<u

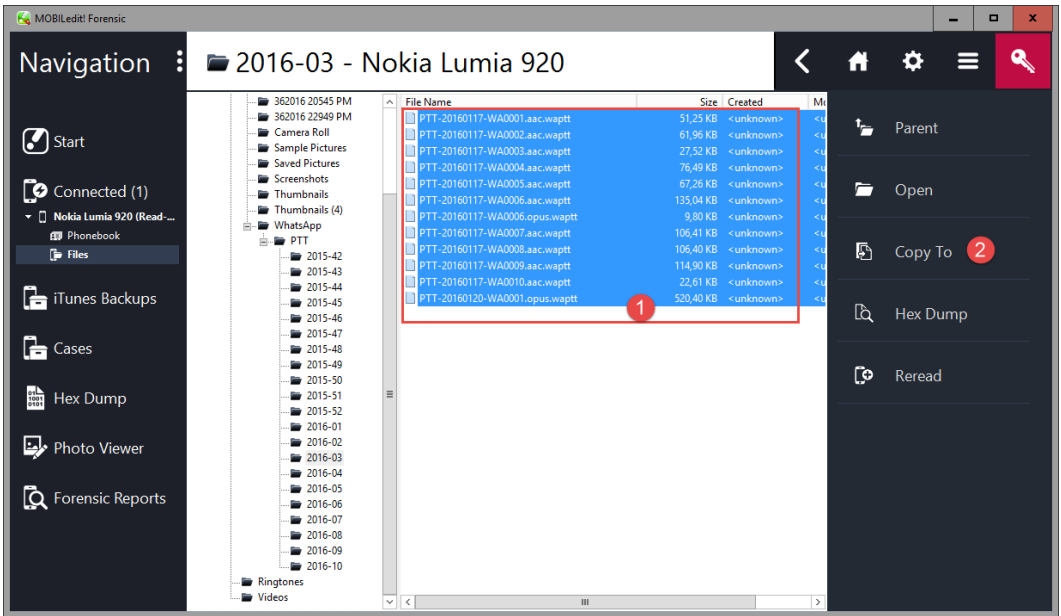
-----

# 2016-03 - Nokia Lumia 920

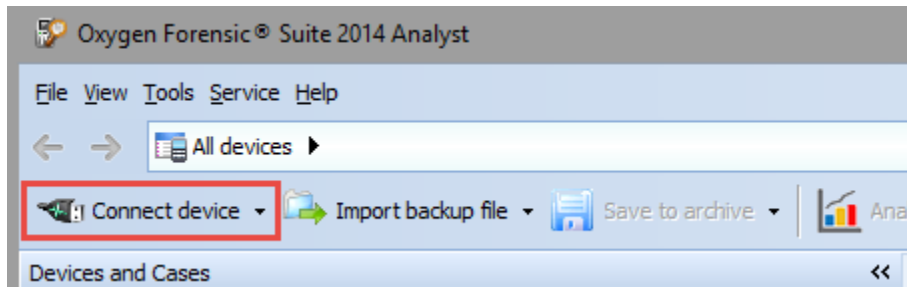


File Name	Size	Created	Modified
PTT-20160117-WA0001.aac.waptt	51,25 KB	<unknown>	<u
PTT-20160117-WA0002.aac.waptt	61,96 KB	<unknown>	<u
PTT-20160117-WA0003.aac.waptt	27,52 KB	<unknown>	<u
PTT-20160117-WA0004.aac.waptt	76,49 KB	<unknown>	<u
PTT-20160117-WA0005.aac.waptt	67,26 KB	<unknown>	<u
PTT-20160117-WA0006.aac.waptt	135,04 KB	<unknown>	<u
PTT-20160117-WA0006.opus.waptt	9,80 KB	<unknown>	<u
PTT-20160117-WA0007.aac.waptt	106,41 KB	<unknown>	<u
PTT-20160117-WA0008.aac.waptt	106,40 KB	<unknown>	<u
PTT-20160117-WA0009.aac.waptt	114,90 KB	<unknown>	<u
PTT-20160117-WA0010.aac.waptt	22,61 KB	<unknown>	<u
PTT-20160120-WA0008.opus.waptt	520,40 KB	<unknown>	<u

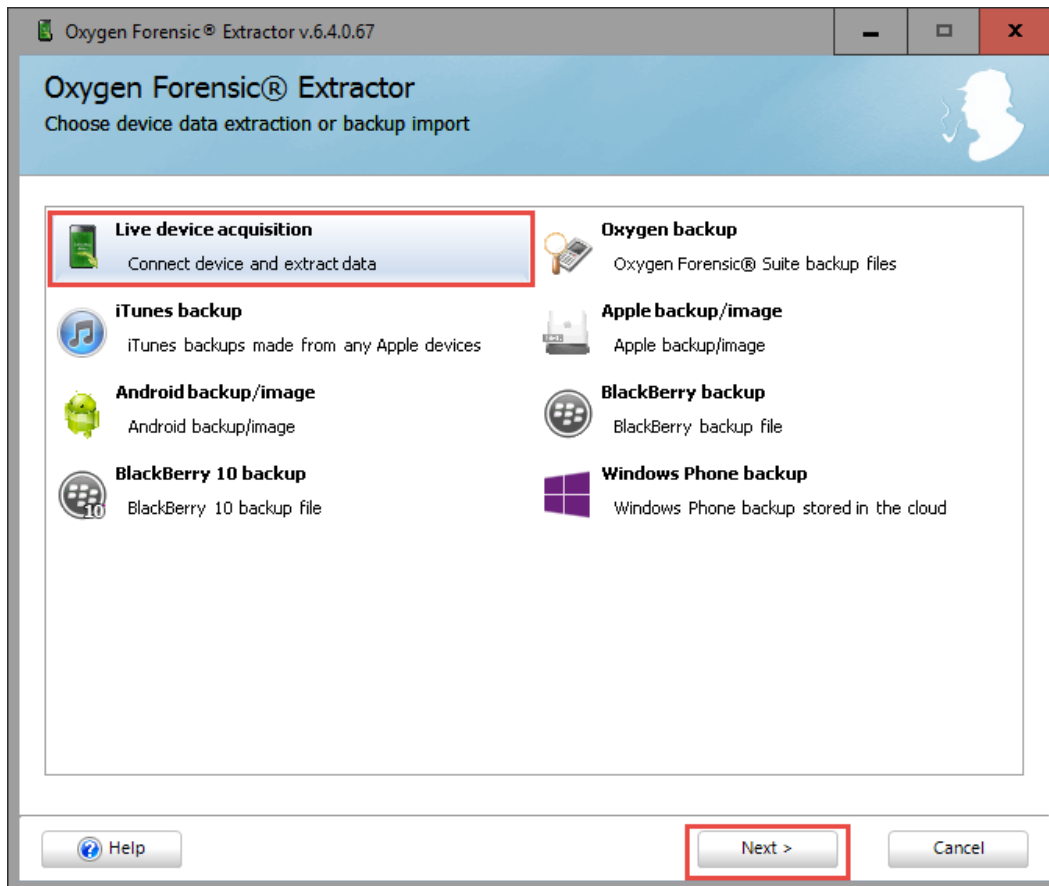
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## Connection Mode

Please select one of connection modes:



### Auto device connection

Auto mode connects the first device detected on PC.



### Manual device selection

Manual selection mode allows to choose connection type and device model from the list.



### MTK Android device connection

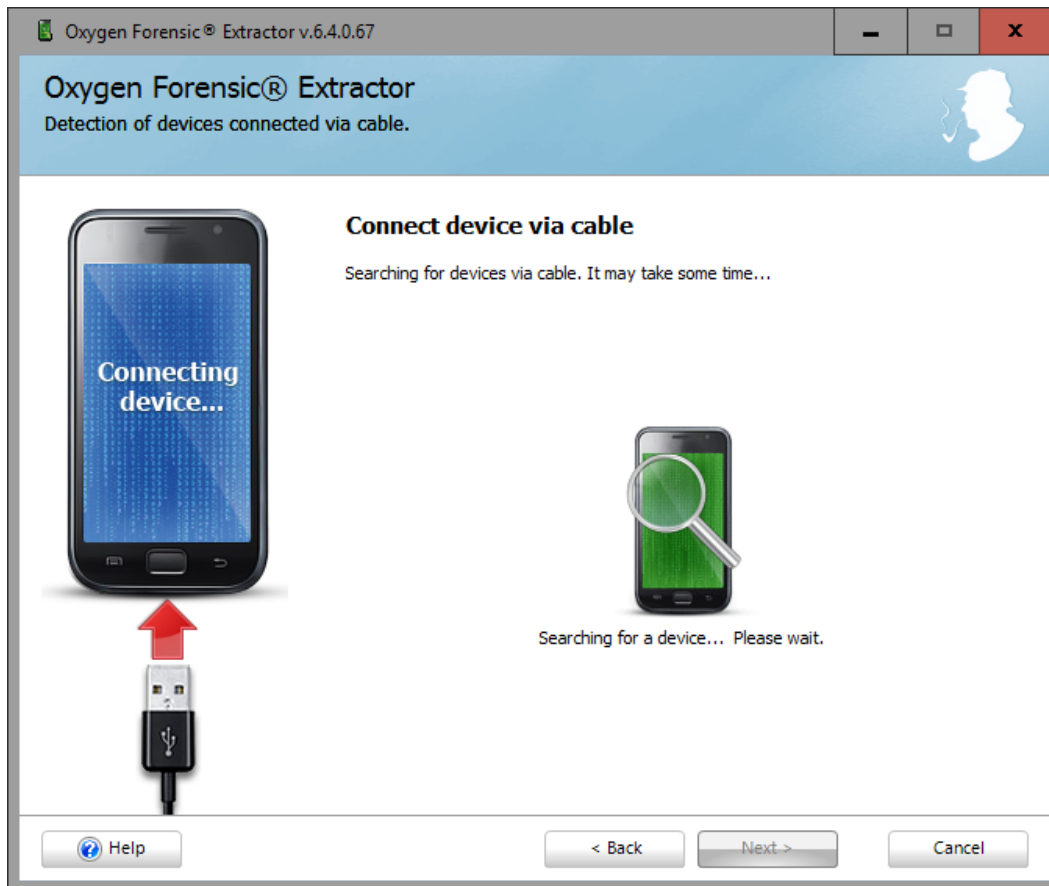
This mode allows to extract data by creating physical dumps from MTK (MediaTek) Android devices.

No rooting is required. Lock screen is bypassed.

The method may take a bit more time than physical dump via rooting.

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Device information:

	Model:	Nokia Lumia 920
	S/N:	dfd!
	Hardware Revision:	N/A
	Software Revision:	Windows Phone OS 8.10.14234.0

The screenshot shows a 'Device information' window. It contains a table with four rows of device details. To the left of the table is an icon showing a laptop and a smartphone with a green checkmark. The details are: Model: Nokia Lumia 920, S/N: dfd!, Hardware Revision: N/A, and Software Revision: Windows Phone OS 8.10.14234.0.

Device alias	<input type="text" value="Nokia Lumia 920"/>	Hash algorithm	<input type="text" value="SHA-2"/>
Case number	<input type="text" value="WP-Forensic-Book"/>	Device owner	<input type="text" value="Soufiane Tahiri"/>
Evidence number	<input type="text" value="Soufiane Tahiri"/>	Owner email	<input type="text" value="SoufianeTahiri@gmail.com"/>
Inspector	<input type="text" value="Soufiane Tahiri"/>	Owner phone number	<input type="text" value="Edit"/>

Parse applications databases and collect data for analytical sections (Aggregated Contacts, Links and Stats, etc.).  
If not checked you can do it later in Oxygen Forensic® Suite. [Read more...](#)

- Nokia Lumia 920**
  - File structure
    - Selective reading
      - Images
      - Audio
      - Videos
      - Documents
      - Applications
      - Database files
      - Other files
    - Full reading
      - Files from internal memory



## Oxygen Forensic® Extractor

Wait while the data is being extracted from the device



Read files: 4,93 GB of 6,76 GB



Reading file: 1627 of 3946. C:\Pictures\Camera Roll\WP\_20151230\_13\_43\_13\_Pro.jpg

**Warning!** The data is being extracted from the device right now.  
Do not disconnect it or make any changes to the device.

-----

**Extraction summary**

**Success**

**Final actions**



**Save to archive**

Save extracted device to .ofb archive.



**Open device**

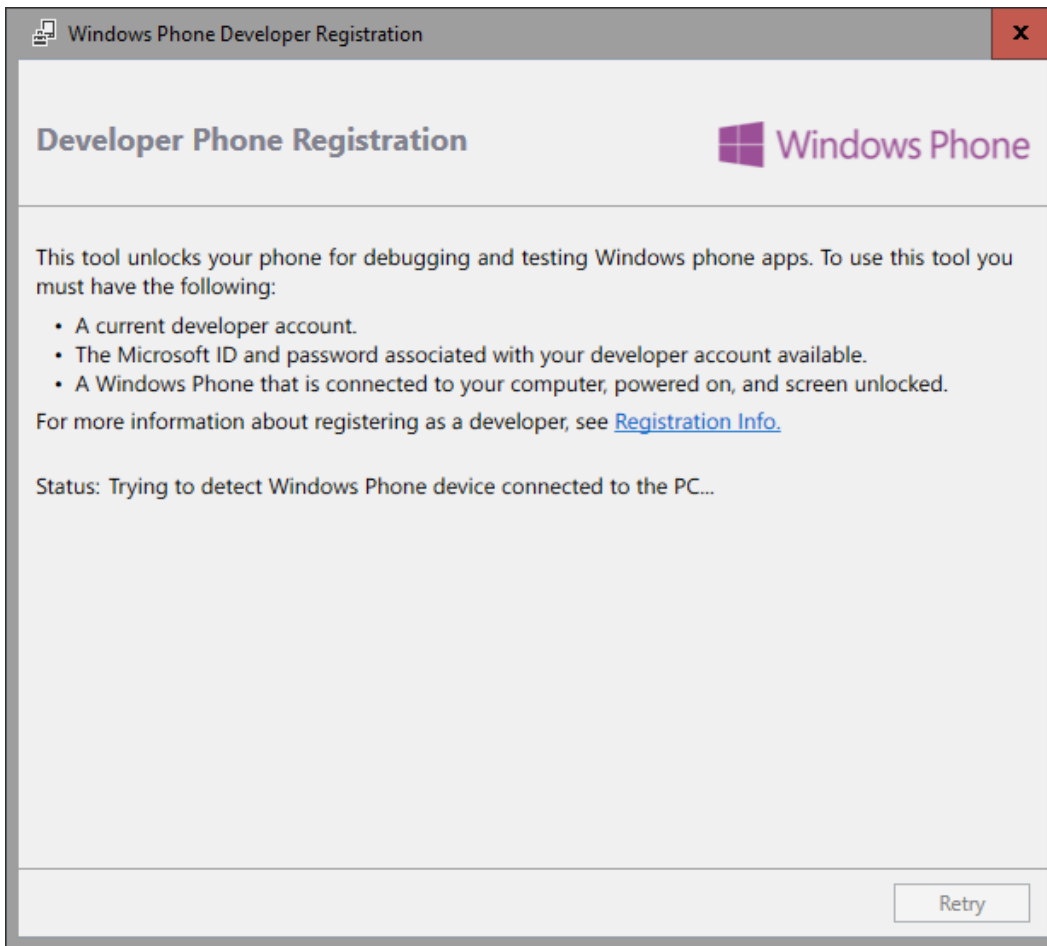
Open device and start analyzing.



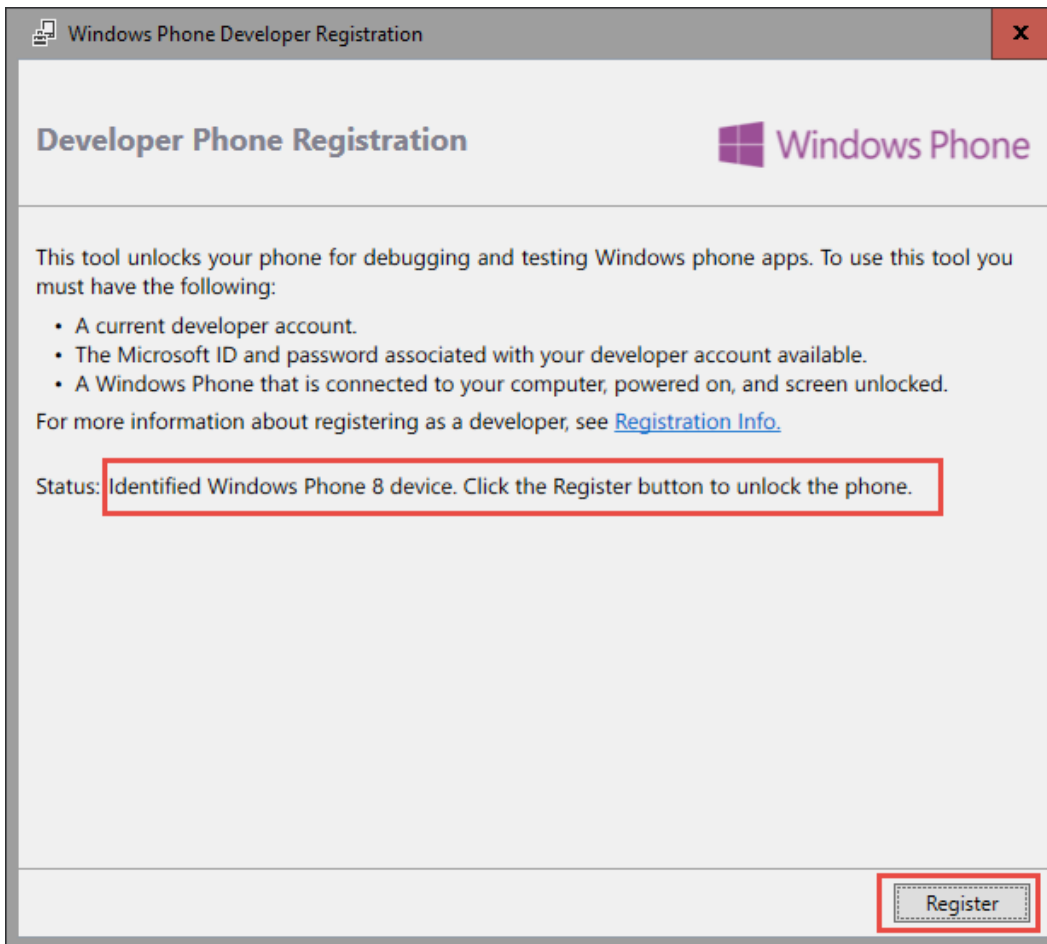
**Export and Print**

Print or export full device data report.

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# Connexion

Compte Microsoft [Qu'est-ce que c'est ?](#)

Mot de passe

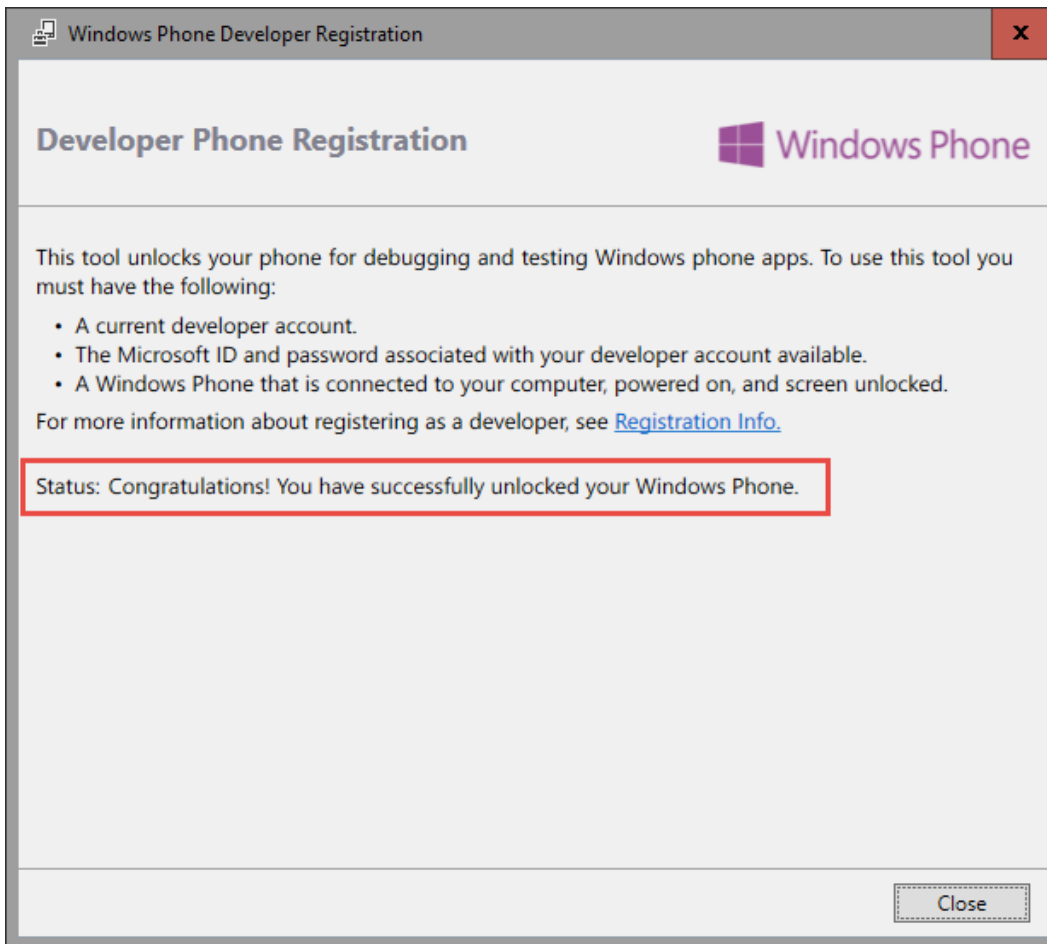
[Se connecter](#)

[Votre compte n'est pas accessible ?](#)

Vous n'avez pas encore de compte  
Microsoft ? [Créer un compte maintenant](#)

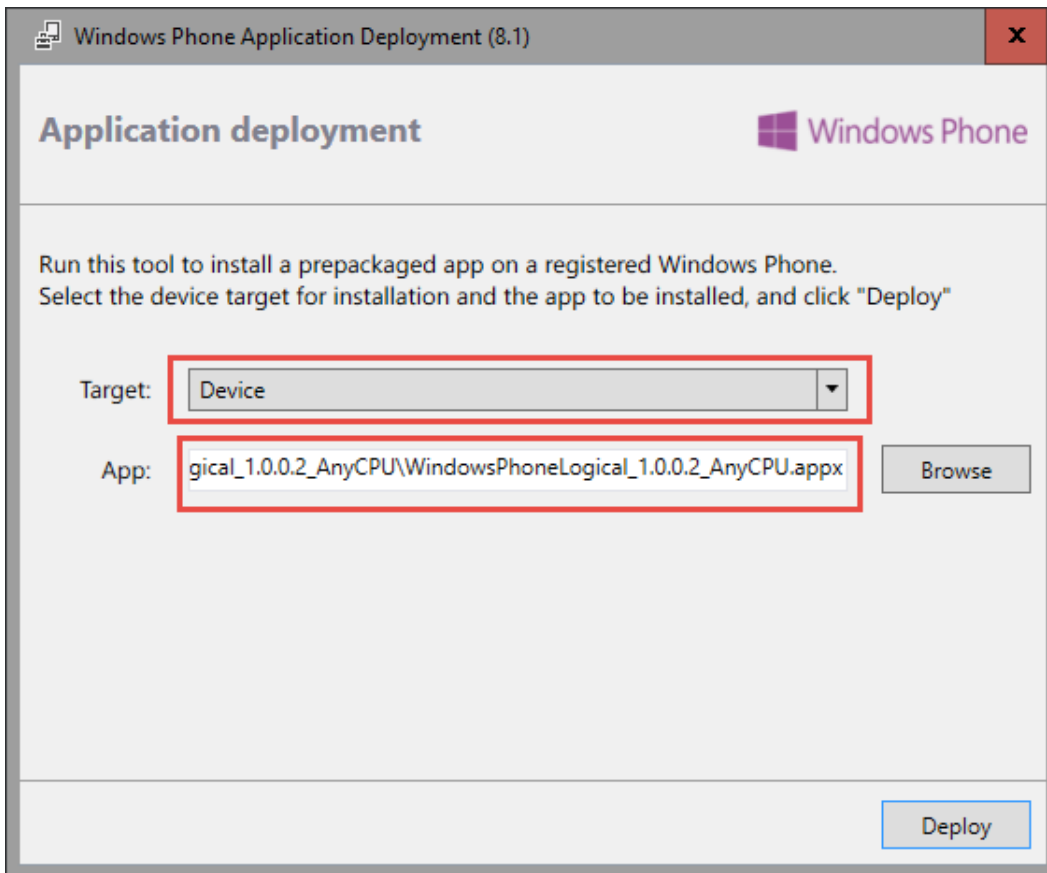
[Confidentialité et cookies](#) | [Conditions d'utilisation](#)

©2016 Microsoft

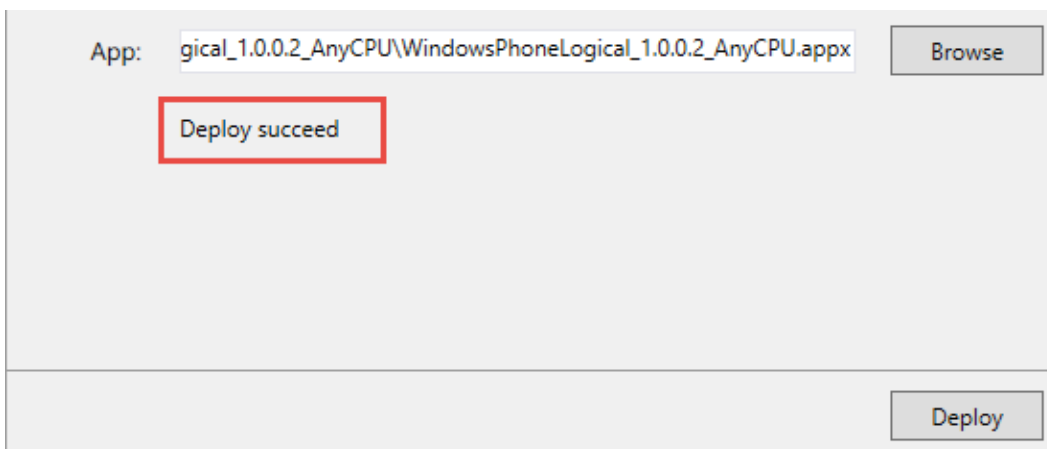


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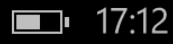


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H



17:12

W



Candle WP



ScanWritr  
nouveau



Waze



WhatsApp



WindowsPhoneLogical



Wordament

rechercher dans le Store

Windows Phone 8.1 contacts and appointments acquisition tool. This is an alpha version. This tool will generate HTML files on public storage each HTML file contains contacts and appointments details. Need help? contact me at [soufianetahiri@gmail.com](mailto:soufianetahiri@gmail.com)

Contacts

Acquire

Appointments

Exit

Windows Phone 8.1 contacts and appointments acquisition tool. This is an alpha version. This tool will generate HTML files on public storage each HTML file contains contacts and appointments details. Need help? contact me at soufianetahiri@gmail.com

Contacts

Acquire

Appointments

Exit

Searching Contacts...

Searching Appointments...

Total appointments from : 1/1/2016 12:00:00 AM to 12/31/2016 12:00:00 AM

Appointment saved: [blurred]

Appointment saved: [blurred]

Appointment saved: [blurred]

Appointment saved: [blurred]

Appointment saved: [blurred]

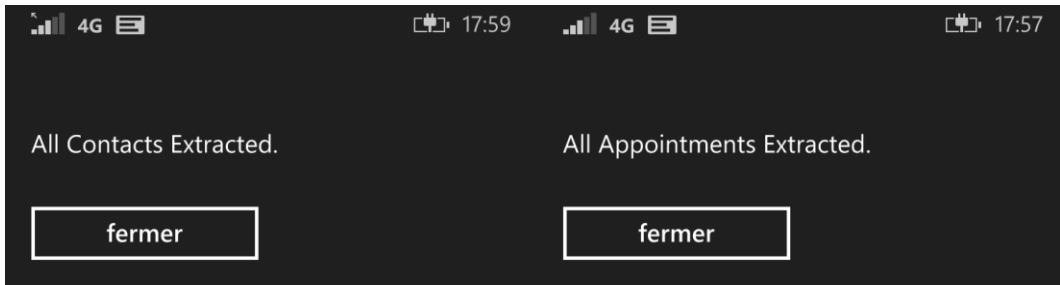
Appointment saved: [blurred]

Appointment saved: [blurred]

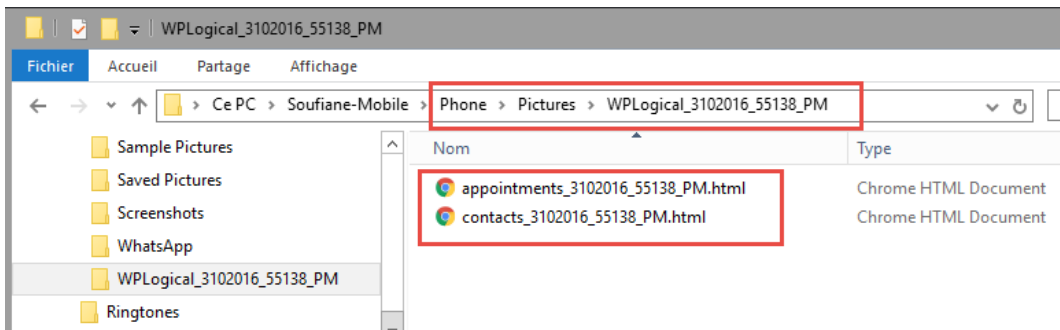
Appointment saved: [blurred]

Appointment saved: [blurred]

Appointment saved: [blurred]



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Display Name	First Name	Middle Name	Last Name	Phones	Important Dates	Emails	Websites	Job Info	Addresses	Notes	Thumbnail
				Kind: Mobile Number: +336[redacted]							N/A
				Kind: Mobile Number: [redacted] Kind: Home Number: +212[redacted]							N/A
				Kind: Mobile Number: 06[redacted]				Title: Office CompanyName: Ecole Nom: [redacted] Description: [redacted]			
				Kind: Mobile Number: +212[redacted] Kind: Mobile Number: 066[redacted] Kind: Home Number: 052[redacted] Kind: Work Number: +212[redacted]		Kind: Personal Email: [redacted]@gmail.com Description: [redacted]					

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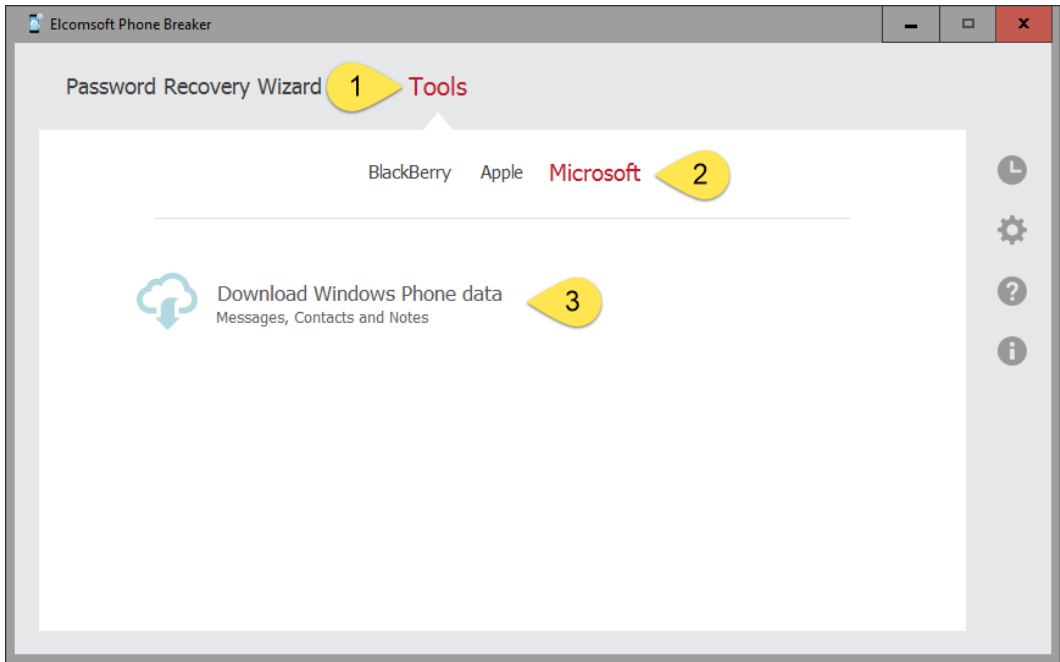
PSC - Call with Soufiane Tahri	skype: soufiane.tahri	Address: gabriel@gmail.com Name: Gabriel	Address: soufiane.tahri@gmail.com Name: Soufiane Tahri Response: None Role: RequiredAttendee Address: gabriel@gmail.com Name: Gabriel Response: Accepted Role: RequiredAttendee	3/1/2016 9:00:00 AM +00:00		0.5	Public		False	False	Hi Soufiane, Here is our Skype call to better understand information on the Also the attendees On the call I will also provide more regarding the team, technology Speak to you shortly -- Gabrie Consulting Strategy   Growth Management   F around were pr
		N/A		3/3/2016 12:00:00 AM +00:00		24	Public		False	False	
		N/A		3/3/2016 12:00:00 AM +00:00	3/2/2016 12:00:00 AM +00:00	24	Public		False	False	
		N/A		3/4/2016 12:00:00 AM +00:00	3/4/2016 12:00:00 AM +00:00	24	Public		False	False	
60° JAZZ TRIO en concert au Bouleek à Ven 04 mars 2016	Bouleek	Address: Bouleek Name: EAC- L'Boulevard		3/4/2016 8:30:00 PM +00:00		3	Public		False	False	VENDREDI 04 MARS / 20H30 SALLE 36 - Bouleek/ 30 DHS #JAZZ avec 60° JAZZ TRIO C'est à l'occasion d'un concert en 2014, que Clément Brajman (chant et batterie), réunit Alexis Pivot (piano) et Elenine Renard (contrebasse). Les trois musiciens, faisant alors partie de la même génération montante du jazz français, se découvrent tout un vocabulaire commun et une complexité immédiate. Les concerts qui suivent seront autant d'occasions d'explorer ce langage, à la fois intime et intuitif. A découvrir. PLUS D'INFOS SUR 60° JAZZ TRIO <a href="http://clémentbrajman.com">http://clémentbrajman.com</a> <a href="https://soundcloud.com/cbrajman">https://soundcloud.com/cbrajman</a> <a href="https://www.reverstation.com/alexpivot">https://www.reverstation.com/alexpivot</a> EN VIDEO - <a href="http://y2u.be/XtCOVGDk">http://y2u.be/XtCOVGDk</a>

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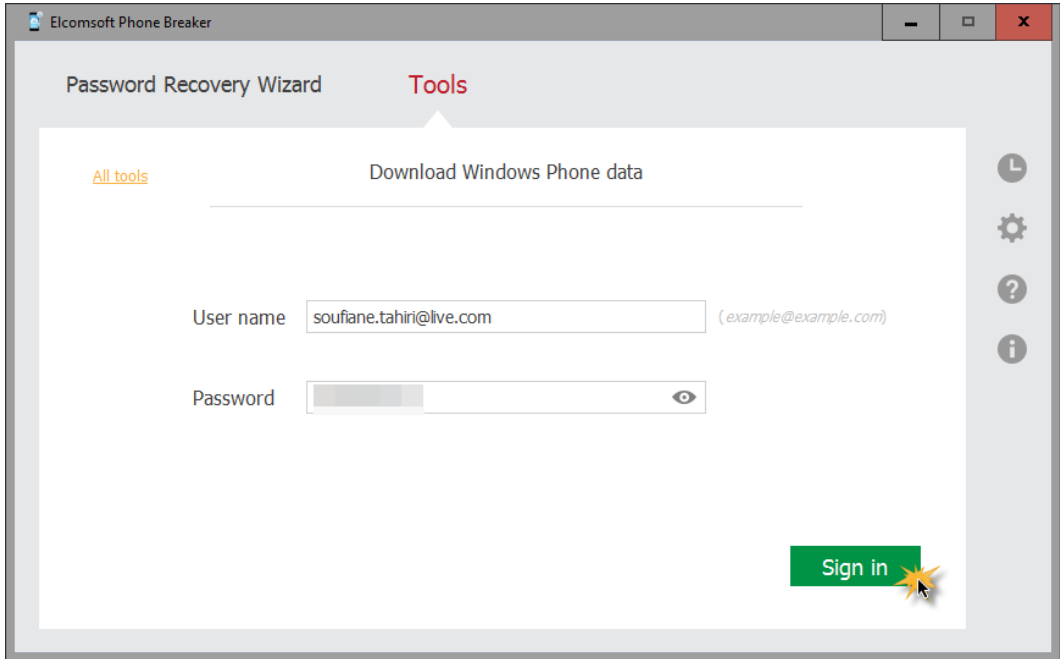
**Acquisition details**

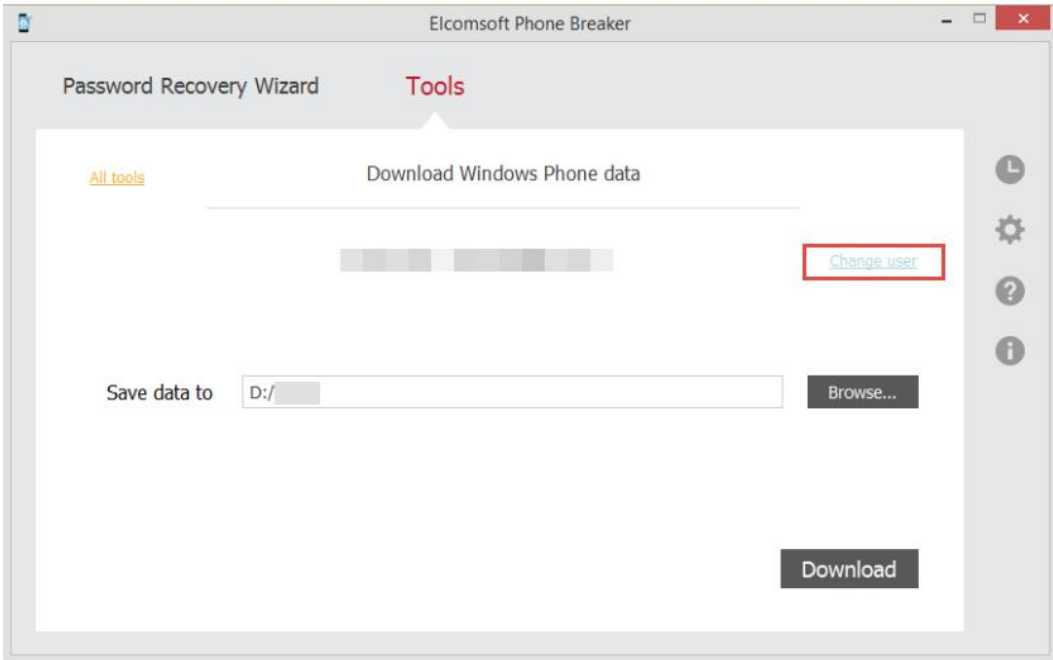
**Phone Timezone:** (UTC) Casablanca  
**FriendlyName:** Soufiane-Mobile  
**OS:** WindowsPhone **Firmware Version:** 3051.50009.1451.1001  
**Hardware Version:** 6.5.0.  
**Product Name:** RM-821\_apac\_taiwan\_341  
**Store Keeping Unit:** NOKIA RM-821\_apac\_taiwan\_341  
**Total Items Extracted:** 840

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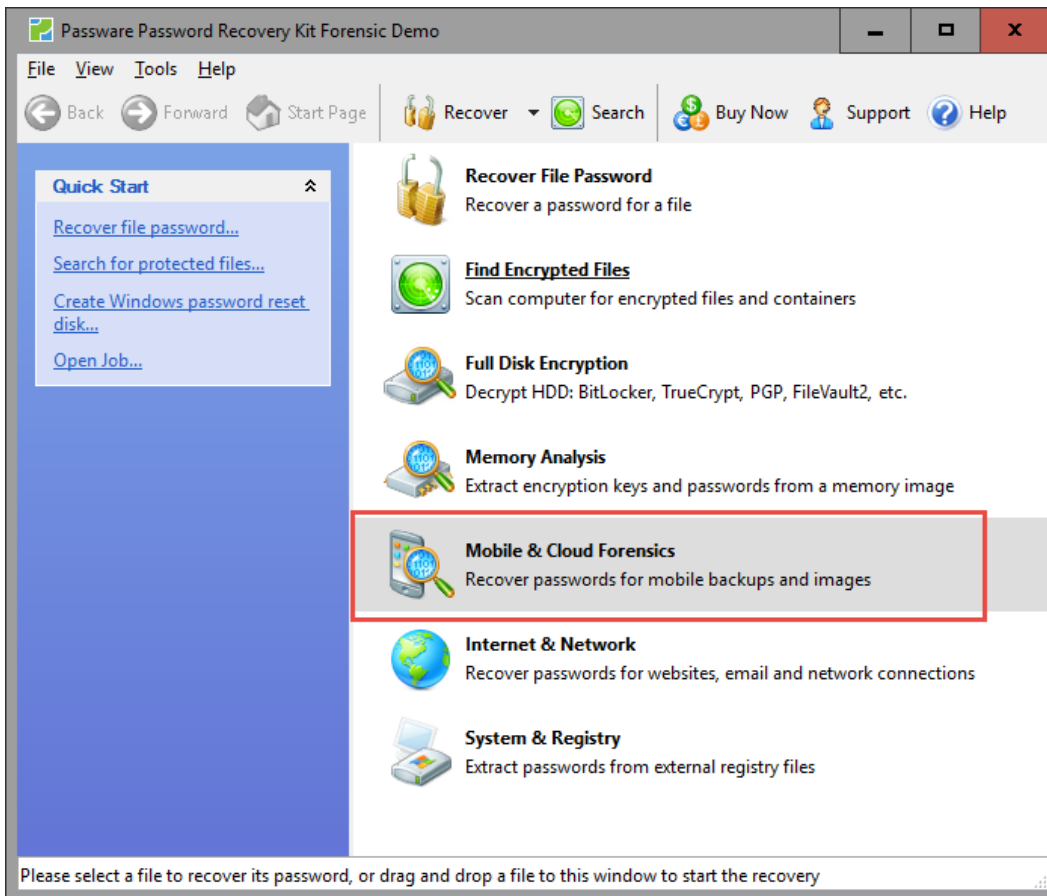
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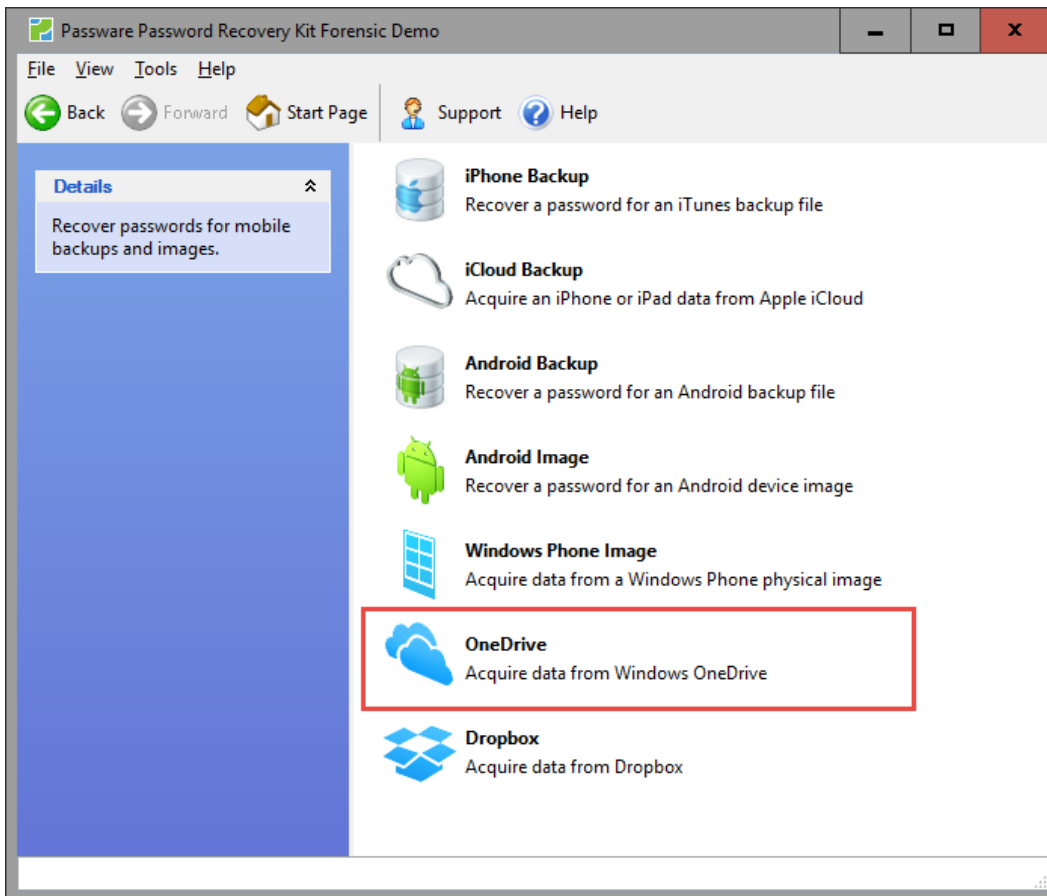


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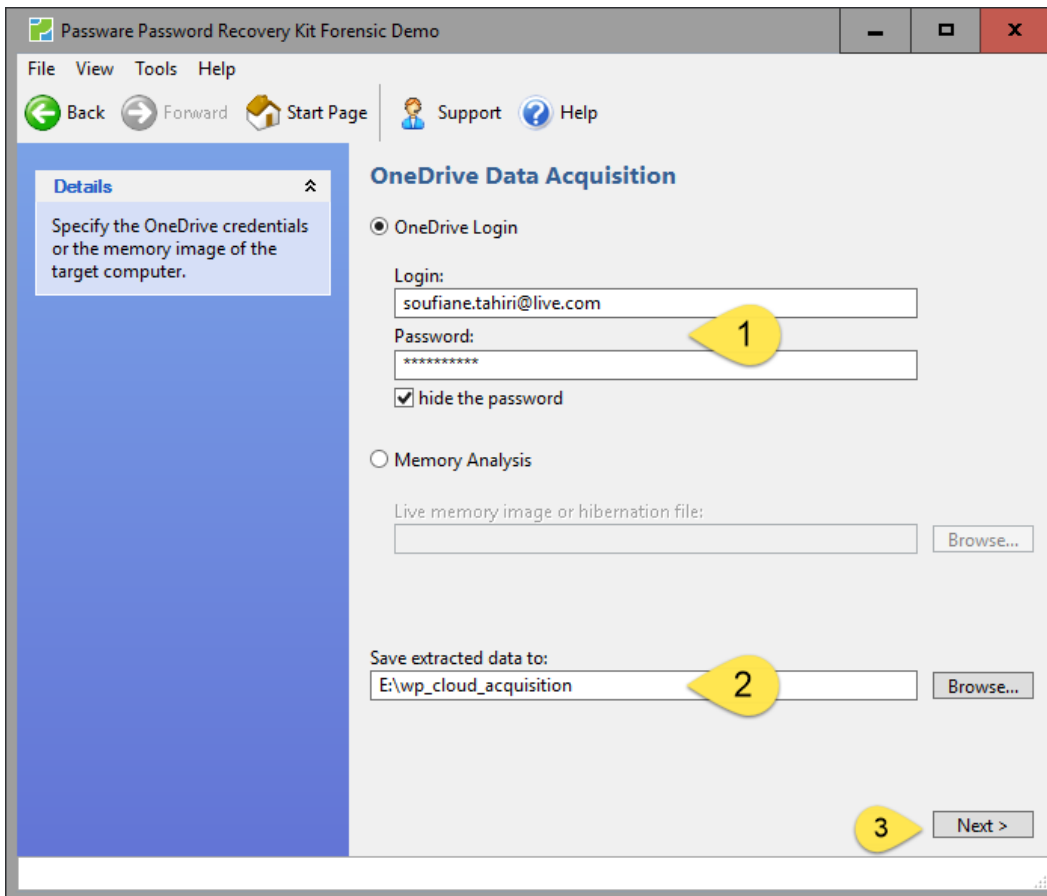




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Passware Password Recovery Kit Forensic Demo

File View Tools Help

Back Forward Start Page Save Results Print Buy Now Support Help

**Attack Summary** ⌵

Passwords found:  
**0 passwords**

Total time elapsed:  
**16 sec.**

Estimated completion time:  
**[completed]**

**Download Progress** ⌵

Downloaded:  
**360,1 KB**

Download speed:  
**4,1 KB/s**

**Protection:** Custom OneDrive protocol  
**Complexity:** Instant Unprotection

**OneDrive Data**

Extracted data: [E:\wp\\_cloud\\_acquisition](#)

Demo version has extracted file names only. Use the full version of Passware Kit Forensic to extract and download the full files (5 GB).

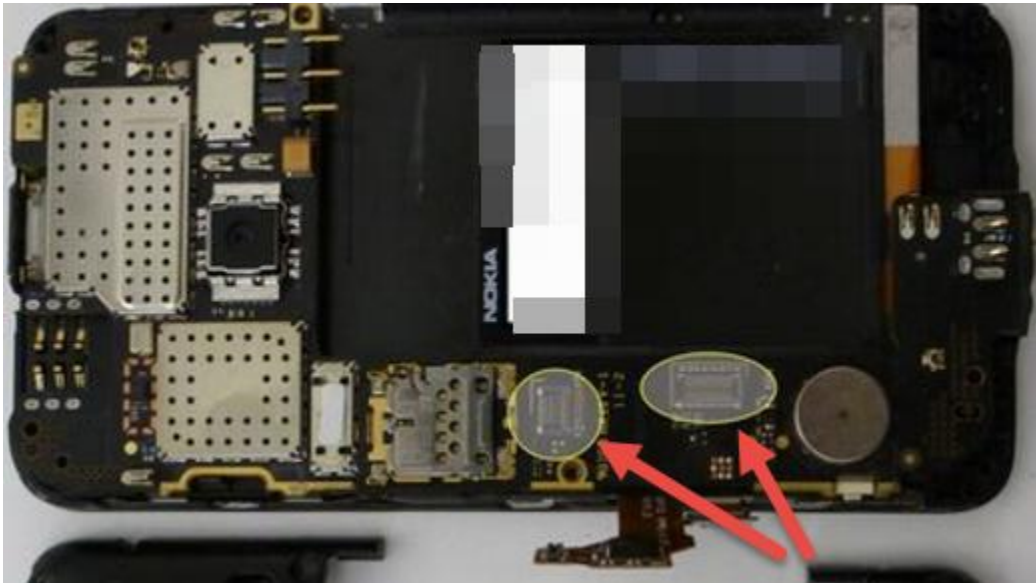
Passwords found / Attacks / Log

Please select a file to recover its password, or drag and drop a file to this window to start the recovery

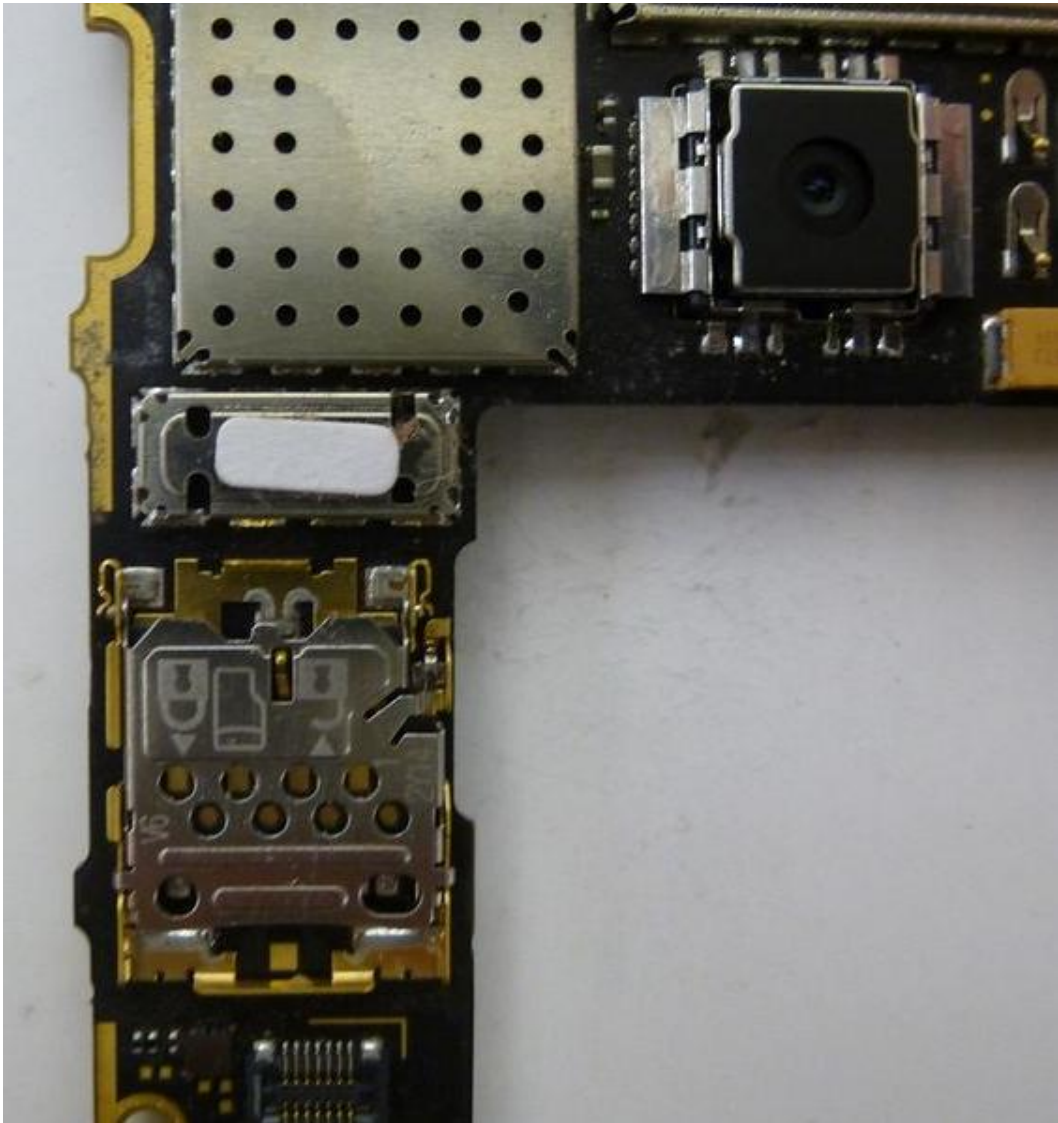
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- ▼ wp\_cloud\_acquisition
  - ▼ Documents
    - Office Lens
    - Personnel (Web)
  - ▼ Images
    - Camera Roll
    - Images enregistrées
    - Mobile uploads
  - Musique
  - Public
  - SMS

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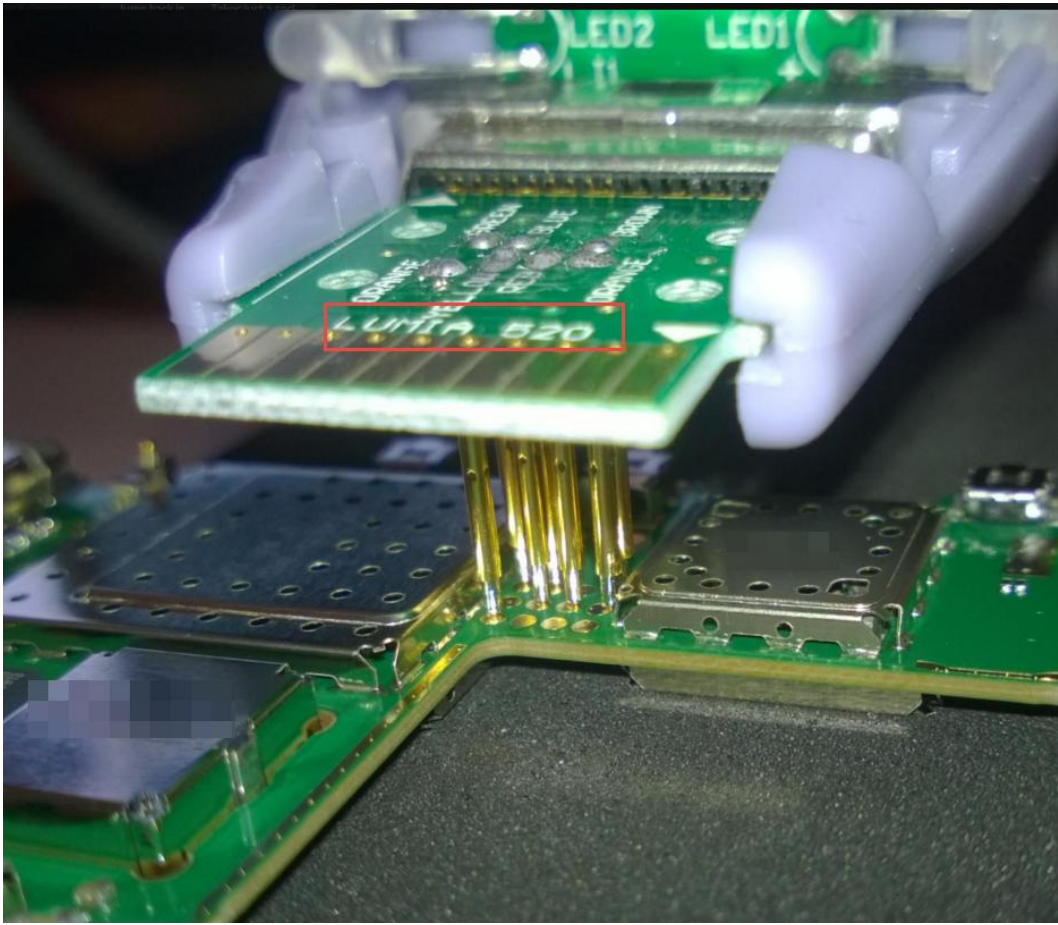


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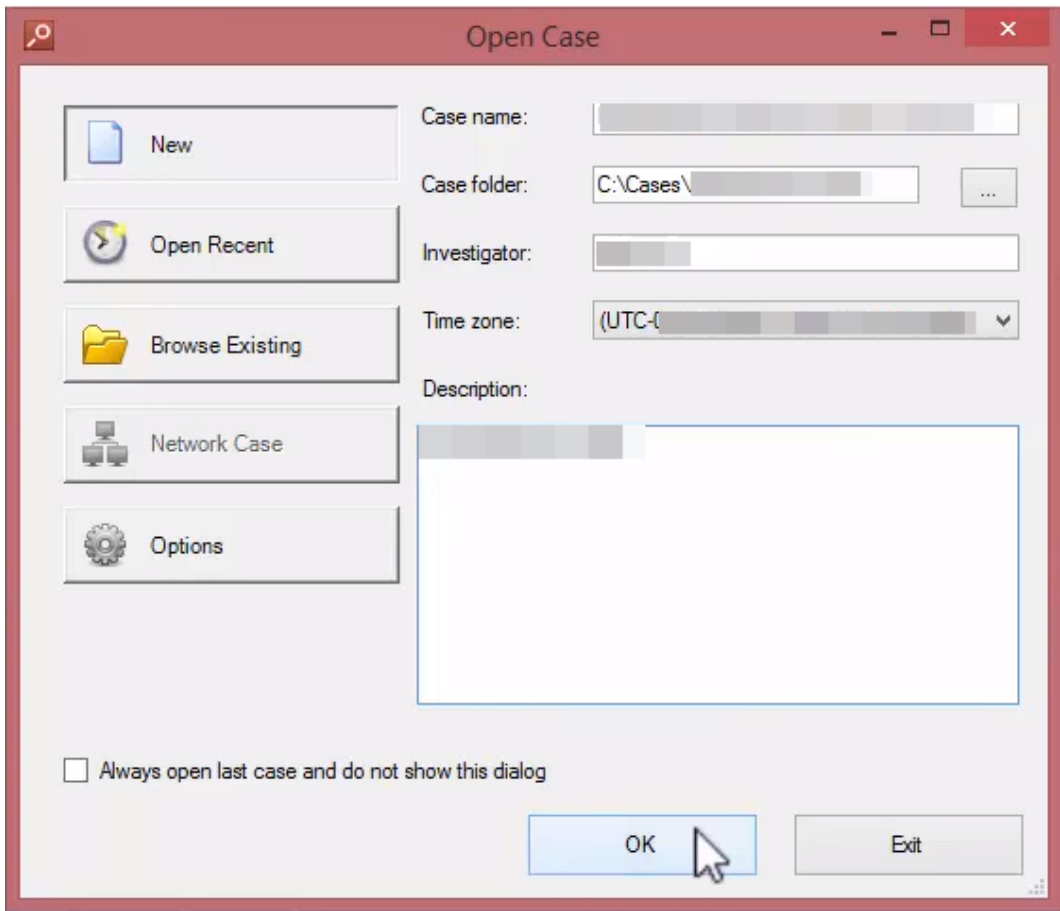
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**Add data source**

**What sources would you like to analyze?**  
Select drive, image, dump, device or other source to include to the case

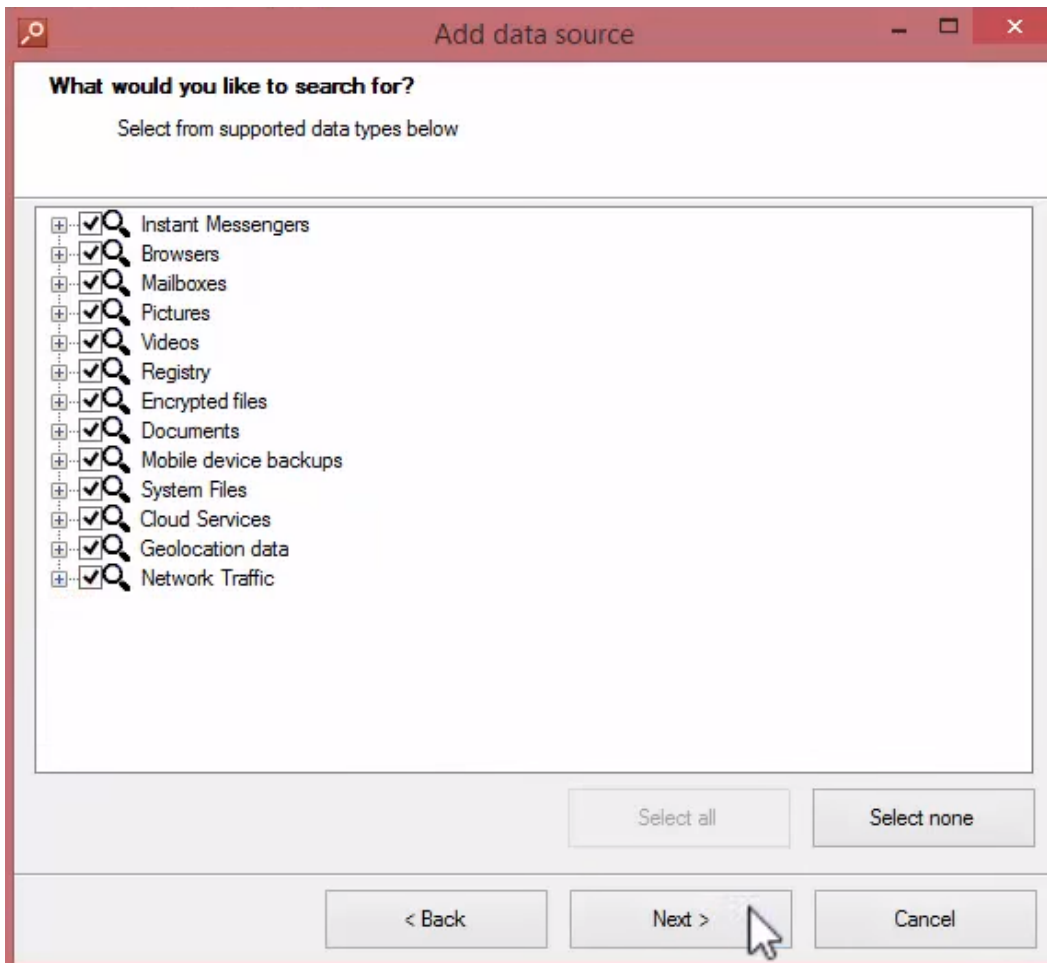
Available types of data sources

- Drive image file or virtual machine disk  
[Text field] [...]
- Logical drive  
[Dropdown menu]
- Physical drive  
[Dropdown menu]
- Mobile backup file, UFED or JTAG image  
[Text field] [...]
- Live RAM image file (pagefile.sys, hiberfil.sys, memory dumps)  
[Text field] [...]
- Selected folder  
[Text field] [...]

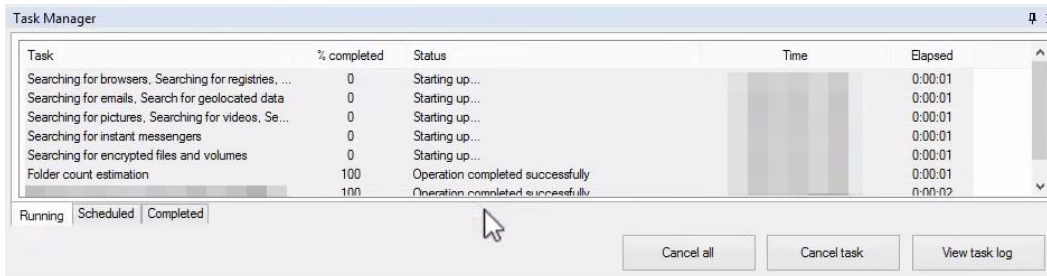
Analyze data source

Next >      Cancel

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Case Explorer

- BACKUP\_SBL1
- BACKUP\_SBL2
- BACKUP\_SBL3
- BACKUP\_TZ
- BACKUP\_UEFI
- BACKUP\_WINSECAPP
- Data
  - Carved Data
    - Data (194)
    - Firefox (2)
    - Internet Explorer 10 (155)
    - Registry Files (36)
    - SQLite Databases (1)
  - Documents
    - Documents (10)
    - Pictures
    - Pictures (3279)
  - DPP
  - EFIESP
  - Browsers
    - I:\Windows\System32\cor
    - Carved Data
    - EFIESP (13)
    - Instant Messengers
    - Windows

Files Data List

File name	Offset	Length
Nokia 520 JTAG\292\Sqlite\61.db	57851904	6144

SQLite Viewer

File Search

Table name: ScbeDataObjects

Carved data from unallocated space | Unallocated space

Offset	Length	Data
4106	405	01 02 00 FE 00 0...

Current file: Number of records: 1

File System Case Explorer Item Properties Task Manager Registry Viewer SQLite Viewer

-----

Case Explorer

- Nokia
  - Timeline (1314)
  - Dump bin
  - \$LogFile
  - \$LogFile
  - Carved Data
    - \$LogFile (2159)
    - \$LogFile entries (2159)
  - SMFT
  - SMFT
  - pagefile.sys
  - Carved Data
    - pagefile.sys (51)
    - Internet Explorer 10 (17)
    - Registry Files (34)
  - Pictures
    - Pictures (48)
    - Found Pictures (48)
    - Analysis results
      - Forged pictures
      - Pictures with faces
      - Pictures with text
      - Porn pictures
      - Carved Data (48)
      - Large pictures (2)

Files Data List

URL	Last Modified Time (UTC)	Last Accessed Time (UTC)	Location
Cookie.defapps@e[redacted].com/			image:\5\vol_243269632\pagefile.sys
Cookie.defapps@b[redacted].com/			image:\5\vol_243269632\pagefile.sys
Cookie.defapps@b[redacted].com/			image:\5\vol_243269632\pagefile.sys
Cookie.defapps@s[redacted].com/			image:\5\vol_243269632\pagefile.sys
Cookie.defapps@s[redacted].com/			image:\5\vol_243269632\pagefile.sys
Cookie.defapps@t[redacted].com/			image:\5\vol_243269632\pagefile.sys
Cookie.defapps@s[redacted].com/			image:\5\vol_243269632\pagefile.sys

Item Properties

Item text Properties

URL	Cookie:d[redacted].com/
Last Modified Time (UTC)	
Last Accessed Time (UTC)	
Location	image:\5\vol_243269632\pagefile.sys
<b>Misc</b>	
Items	


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Evidence Tree

- PROGRAMS
  - SharedData
    - BingClient-OSS
    - BingConfiguration
    - casvdatabase
    - CAUpload
    - CCP
    - chshap
    - Comms
      - AccountProviders
      - CommsCPS
      - Messaging
      - Unistore
        - data
          - 0
          - f
          - 17
            - a
            - g
            - temp

File List

Name	Size	Type	Date Modified
200000000000017700a.dat	14	Regular File	24/02/2016 15:52:51



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Evidence Tree

- SENSOR\_SERVICE
  - System
    - TELREPSVC
    - WLANCOUNTRYSVC
    - WPCOMMSERVICES
      - APPDATA
        - FrameworkTemp
        - InetCache
        - InetCookies
        - InetHistory
        - Local
          - Microsoft
            - PimIdxMaint
            - Shared
            - Temp
            - Unistore
            - UserData

File List

Name	Size	Type
\$I30	16	NTFS Index All...
store.vol	17 408	Regular File
USS.chk	8	Regular File
USS.log	3 072	Regular File
USRes00001.jrs	3 072	Regular File
USRes00002.jrs	3 072	Regular File
USStmp.log	3 072	Regular File

```

01ca2a0 00 00 00 00 00 00 00-00 00 00 00 00 00 00 .....
01ca2b0 00 00 00 00 00 00 00-00 00 00 00 00 00 00 .....
01ca2c0 00 00 00 00 00 00 00-00 00 00 00 00 00 00 .....
01ca2d0 00 00 00 00 00 00 00-00 00 00 00 00 00 00 .....
01ca2e0 00 00 00 00 00 00 00-00 00 00 00 00 00 00 .....
01ca2f0 00 00 00 00 00 00 00-00 00 00 00 00 00 00 .....
01ca300 00 00 00 00 00 00 00-00 00 00 00 00 00 00 .....
01ca310 00 00 00 00 00 00 00-00 00 00 00 00 00 00 .....
  
```

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- 27/03/... Reuters Top News <https://t.co/kW7XQcj1yk>
- Twitter WikiLeaks <https://t.co/eWYhEhKnlp>
- Twitter RT <https://t.co/dLJ3V7zQin>
- Twitter SANS Institute, EMEA <https://t.co/3kk1xPF5wl>
- Twitter RT <https://t.co/ky0orjDeul>
- Twitter WikiLeaks <https://t.co/eWYhEhKnlp>
- Twitter Virus Bulletin <https://t.co/JFymH2EHWr>
- Twitter Morgan Marquis-Boire <https://t.co/x9gFQiq27l>
- Twitter WikiLeaks <https://t.co/eWYhEhKnlp>
- Twitter RT <https://t.co/wojSe5FJim>
- LinkedIn Ashish [redacted] [http://image-store.slidesharecdn. \[redacted\]](http://image-store.slidesharecdn. [redacted])
- LinkedIn William [redacted] [http://image-store.slidesharecdn. \[redacted\] 7f-4ff8-9bb5-eb1a04ca0950-original.jpeg](http://image-store.slidesharecdn. [redacted] 7f-4ff8-9bb5-eb1a04ca0950-original.jpeg)
- LinkedIn Remo [redacted] [http://flip. \[redacted\]](http://flip. [redacted])
- LinkedIn Remo [redacted] [http://flip. \[redacted\]](http://flip. [redacted])
- LinkedIn Soufiane Tahiri [https://www.linkedin.com/pulse/digital-forensics-models-1-soufiane-tahiri; \[redacted\]](https://www.linkedin.com/pulse/digital-forensics-models-1-soufiane-tahiri; [redacted])
- LinkedIn Shahriar <http://buff.ly/1pb3MHt>
- LinkedIn Shahriar <http://buff.ly/1pb3MHt>

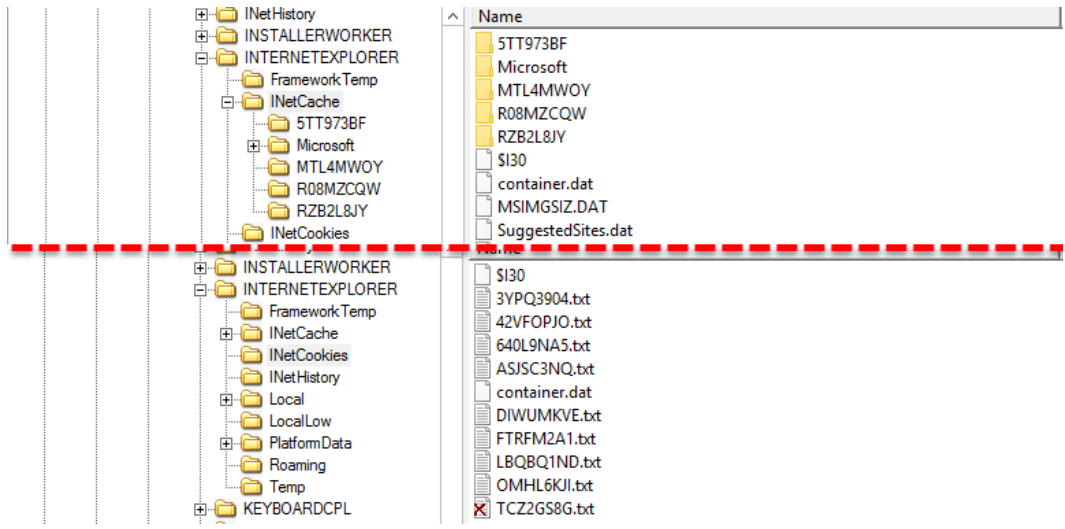
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- Id
- Type
- SeenBit
- Flags
- StartTime
- EndTime
- ResolvedNumberProp
- ResolvedContact
- TerminationCauseCode
- RawNumberHash
- RawNumber
- RawCallerId
- ResolvedName
- ResolvedNumber
- Line
- CallerLocation
- OperatorNumName
- LineName

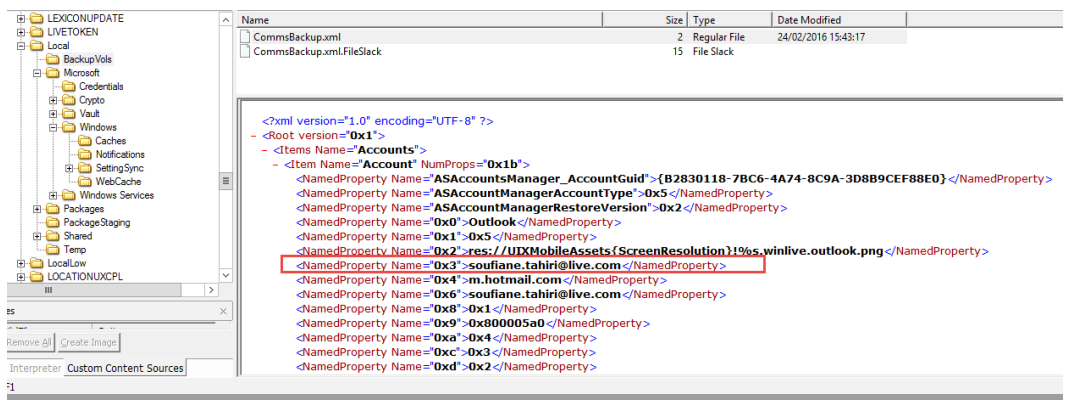
-----

Container_25 [Table ID = 77, 25 Columns]						
ExemptionDelta						
	ModifiedTime	AccessedTime	PostCheckTime	SyncCount	ExemptionDelta	
					Uri	
					https://fbcn-profile-a.akamaihd.net/hprofile-ak-xpt1/v/t1.0-1/c0.0.120.120/p120x120/10574537_1	
					https://fbcn-profile-a.akamaihd.net/hprofile-ak-xaf1/v/t1.0-1/p120x120/11887914_111520405517	
					https://fbcn-profile-a.akamaihd.net/hprofile-ak-xap1/v/t1.0-1/p120x120/946134_11653751334878	
					https://fbcn-profile-a.akamaihd.net/hprofile-ak-xtp1/v/t1.0-1/p120x120/11824929_122316261106	
					https://fbcn-photos-a.akamaihd.net/hphotos-ak-xpt1/v/t1.0-0/p480x480/12801648_123500919	
					https://fbcn-profile-a.akamaihd.net/hprofile-ak-xaf1/v/t1.0-1/c3.0.120.120/p120x120/552706_330	
					https://fbexternal-a.akamaihd.net/safe_image.php?id=AQCf4CYZd8Bfco&w=390&h=390&url=h	
Container_31 [Table ID = 83, 25 Columns]						
	ModifiedTime	AccessedTime	PostCheckTime	SyncCount	ExemptionDelta	
3	13093757930000000	131008037027461848	0	0	0	https://auth.gfx.ms/16.000.26175.00/Microsoft_Logotype_Gray.svg
8	0	131008037255402419	0	0	0	https://api.skype.com/users/ /profile/public?clientVersion=1410/2.32.0.48
3	0	131008037257096628	0	0	0	https://api.skype.com/users/af165647/profile/public?clientVersion=1410/2.32.0.48
0	1304146284600000000	131008037258119082	0	0	0	https://byfiles.storage.live.com/y2mxy3_kca-6bybqwVlw3tlnqhxvDM304:1StTgB5rFF7MITx_yXp0bxpnbTbTKGdyUYkApvcLDHDU1z2xubMq3CEjuv1X7Mz
0	0	131008037259011905	0	0	0	https://vm.skype.com/api3/skype_users/soufianetahiri/entitlement
6	0	131008037259529486	0	0	0	https://api.skype.com/users/ /profile/public?clientVersion=1410/2.32.0.48
6	0	131008037261752345	0	0	0	https://api.skype.com/users/ /profile/public?clientVersion=1410/2.32.0.48
0	0	131008037262860225	0	0	0	https://api.skype.com/users/ /profile/avatar?auth_key=242287274

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```

00000070 57 41 A3 D2 1E 78 5D 85 4C AA 6D A9 7A 2A A4 79 稜 畚 蒭 0 畚 蒭
00000080 04 9E 3B 7A 0C FB CA 31 51 3C 1C 7A 53 00 48 00 驚 稻 0 7 步 稜 S H
00000090 41 00 32 00 35 00 36 00 00 00 BB 4A 50 44 4E 30 A 2 5 畚 蒭 畚 蒭
000000A0 A6 C8 62 5B 83 50 58 FE 82 9B 2A 23 70 72 AC 40 登 抱 係 ( 緬 ) 抽 畚
000000B0 63 93 23 56 95 C7 31 61 4B 89 總 畚 畚 畚

```

Offset	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
00000000	80	00	00	00	0E	00	00	00	20	00	00	00	08	29	F2	52
00000010	17	A3	87	34	45	B6	5D	4F	14	69	2E	4C	BC	2C	CC	AF
00000020	36	85	9D	C4	2E	DD	6A	D8	6A	98	2E	79	93	DD	CA	A3
00000030	8D	D1	9F	8C	80	D4	8D	03	16	EE	A2	34	57	03	22	D5
00000040	D0	B1	BD	9D	6F	8C	BC	5E	EB	14	85	8B	5E	68	88	DF
00000050	D4	DE	33	97	25	91	9D	75	89	E1	50	F3	8B	87	69	57
00000060	57	FE	27	6F	00	0D	CF	5F	5A	2F	EF	A4	EC	80	46	05
00000070	57	41	A3	D2	1E	78	5D	85	4C	AA	6D	A9	7A	2A	A4	79
00000080	04	9E	3B	7A	0C	FB	CA	31	51	3C	1C	7A	53	00	48	00
00000090	41	00	32	00	35	00	36	00	00	00	BB	4A	50	44	4E	30
000000A0	A6	C8	62	5B	83	50	58	FE	82	9B	2A	23	70	72	AC	40
000000B0	63	93	23	56	95	C7	31	61	4B	89						

```

C:\Users\Soufiane>python c:\wp8-pin.py 0829F25217A3873445B65D4F14692E4CBC2CCCAF36859DC42EDD6AD86A982E7993DDCAA38DD
19F8C80D48D0316EEA234570322D500818D9D6F8CBC5EEB1485885E6888DFD4DE339725919D7589E150F38887695757FE276F00DC5F5A2FE
FA4EC8046055741A3D21E785D854CAA6DA97A2AA479049E3B7A0CFBCA31513C1C7A BB4A50444E30A6C8625B835058FE829B2A237072AC4063
93235695C731614889 9

Running wp8-sha256-pin-finder.py v2015-07-30

PIN code is 662135560

C:\Users\Soufiane>

```

Name	Type	Value
VUFailureCount	REG_DWORD (0x4)	0x00000000 (0)
AuthResetFailureCount	REG_DWORD (0x4)	0x00000000 (0)
ActiveLAPGUID	REG_BINARY (0x3)	B5 A5 B5 A7 35 56 41 42 A7 FD 27 2E 0C 1F EA A6
CurrentCredentialHash	REG_BINARY (0x3)	80 00 00 00 0E 00 00 00 20 00 00 00 23 C8 16 EF 9A 74 9
CredentialSetupTime	REG_BINARY (0x3)	D0 2C 74 0C 1D 6F D1 01

# 1D1 6F1D 0C74 2CD0

**HEX** 1D1 6F1D 0C74 2CD0

**DEC** 131 008 034 724 130 000

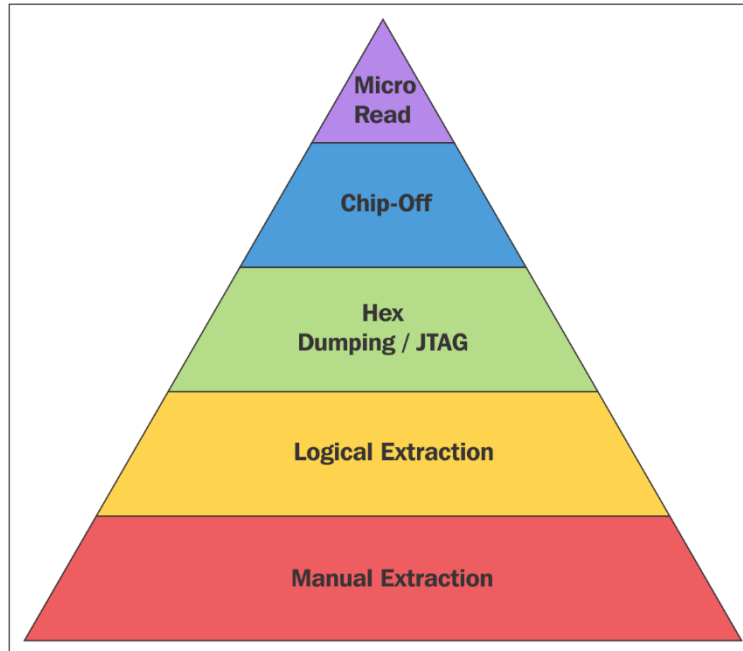
**OCT** 7 213 361 641 435 026 320

**BIN** 0001 1101 0001 0110 1111 0001 1101 0000  
1100 0111 0100 0010 1100 1101 0000

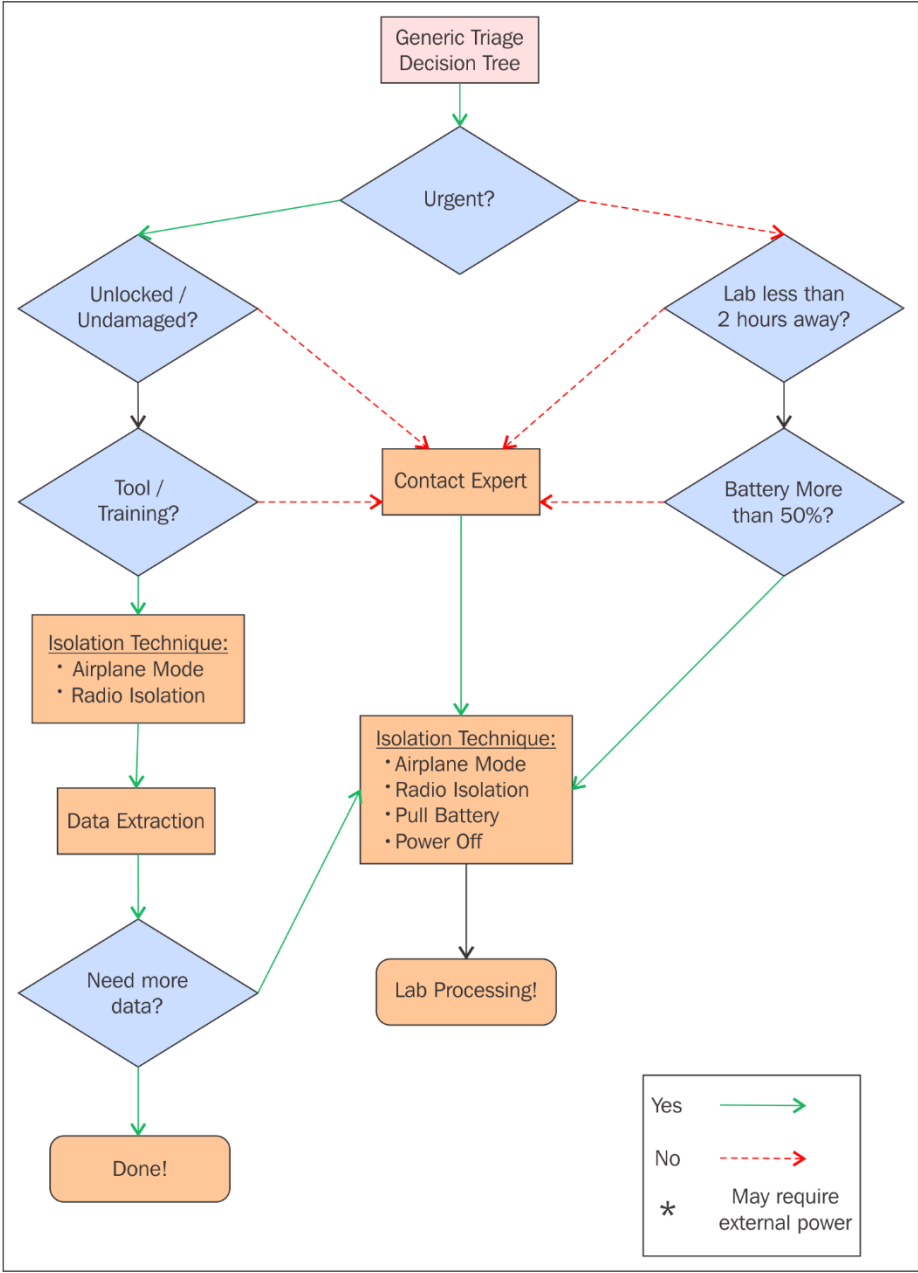
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Windows Phone Shell				Windows Phone OS
System Applications				
Connection Management				
Platform Services				
Package Manager	Execution Manager	Navigation Server	Resource Manager	

## Chapter 6: Mobile Forensics – Best Practices



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# Removable Media Worksheet

Case Number: \_\_\_\_\_ Exhibit Number: \_\_\_\_\_

Laboratory Number: \_\_\_\_\_ Control Number: \_\_\_\_\_

## Media Type / Quantity

Diskette [ ]	LS-120 [ ]	100 MB Zip [ ]	250 MB Zip [ ]
1 GB Jaz [ ]	2 GB Jaz [ ]	Magneto-Optical [ ]	Tape [ ]
CD [ ]	DVD [ ]	Other [ ]	

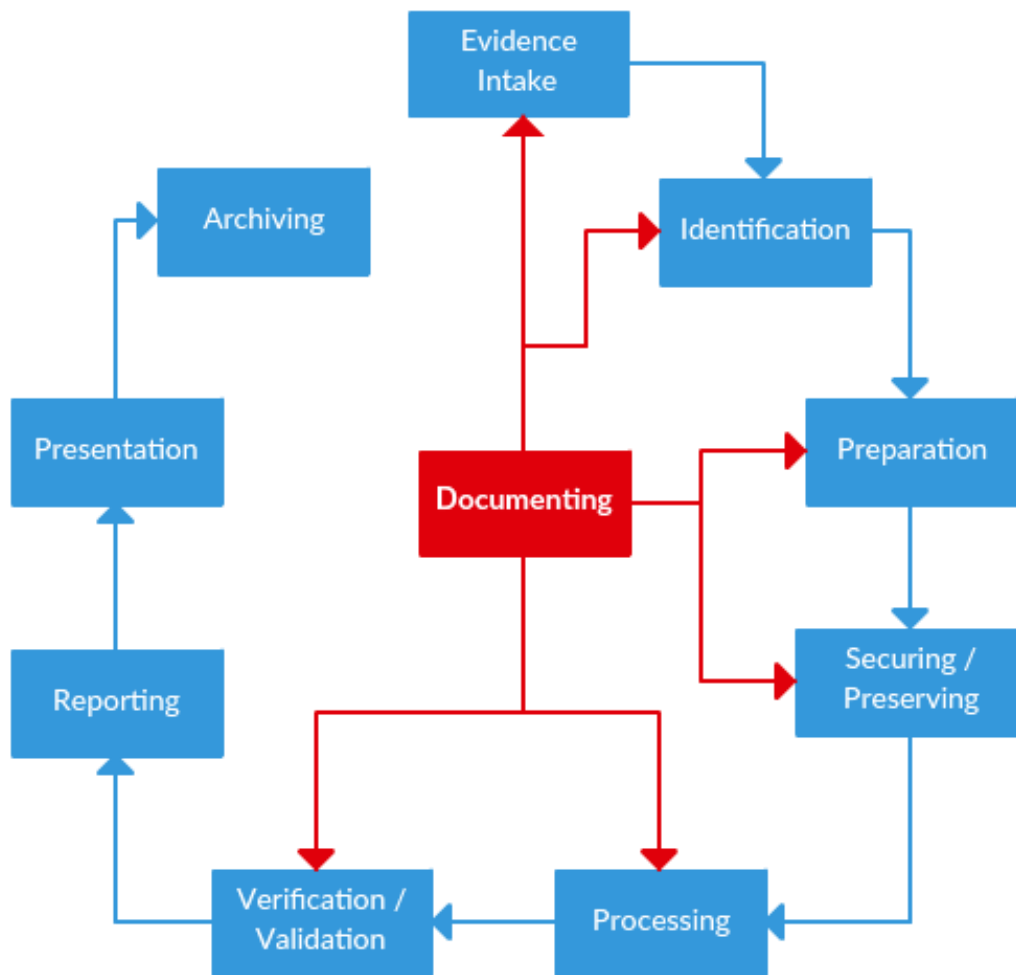
## Examination

Exhibit # Sub-Exhibit #	Triage	Duplicated	Browse	Unerase	Keyword Search
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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Examiner \_\_\_\_\_ Date \_\_\_\_\_ Supervisor Review \_\_\_\_\_ Date \_\_\_\_\_

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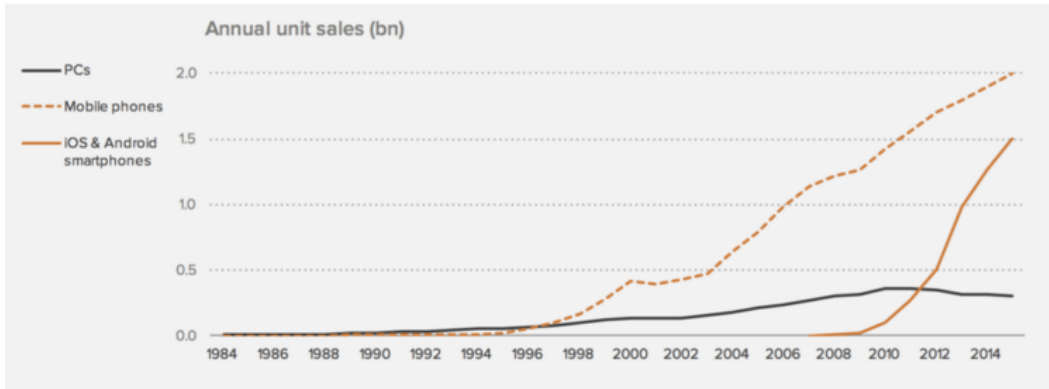
354 54 66

IMEI:	354 66
Allocating Body:	BABT
Type Allocation Code:	354
Serial Number:	4 6
Luhn Checksum:	6
Manufacturer:	NOKIA CORPORATION
Brand:	NOKIA
Model:	920.1
Network & Information:	<a href="#">Free Check Now</a>
Blacklist (Lost/Stolen):	<a href="#">Free Check Now</a>
Band:	802.11b/g/n, Bluetooth, GSM 1800, GSM 1900, GSM 900, GSM850 (GSM800), HSDPA, HSUPA, LTE FDD BAND 1, LTE FDD BAND 20, LTE FDD BAND 3, LTE FDD BAND 7, LTE FDD BAND 8, NFC, WCDMA FDD Band I, WCDMA FDD Band V, WCDMA FDD Band VIII



# Mobile is the new scale

Mobile was always bigger than PCs, but separate. Smartphones broke down that wall



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← Create Virtual Machine

### Name and operating system

Please choose a descriptive name for the new virtual machine and select the type of operating system you intend to install on it. The name you choose will be used throughout VirtualBox to identify this machine.

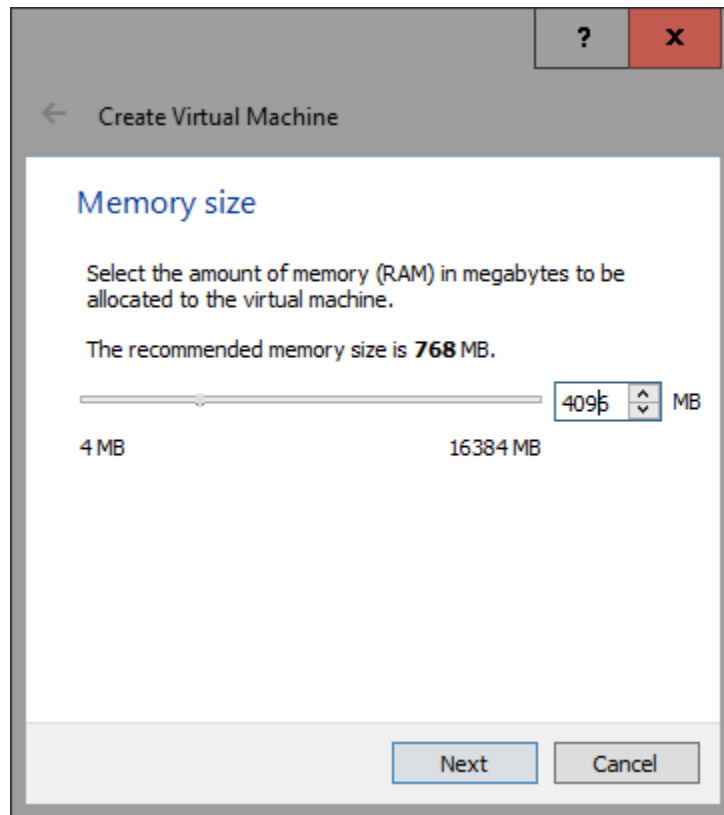
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Type:  

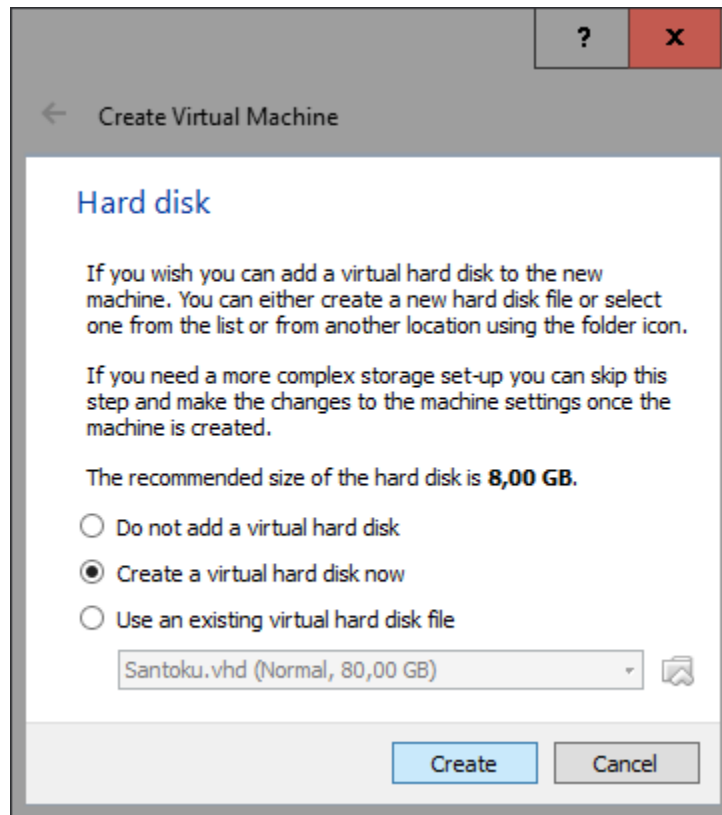
Version:

Expert Mode Next Cancel

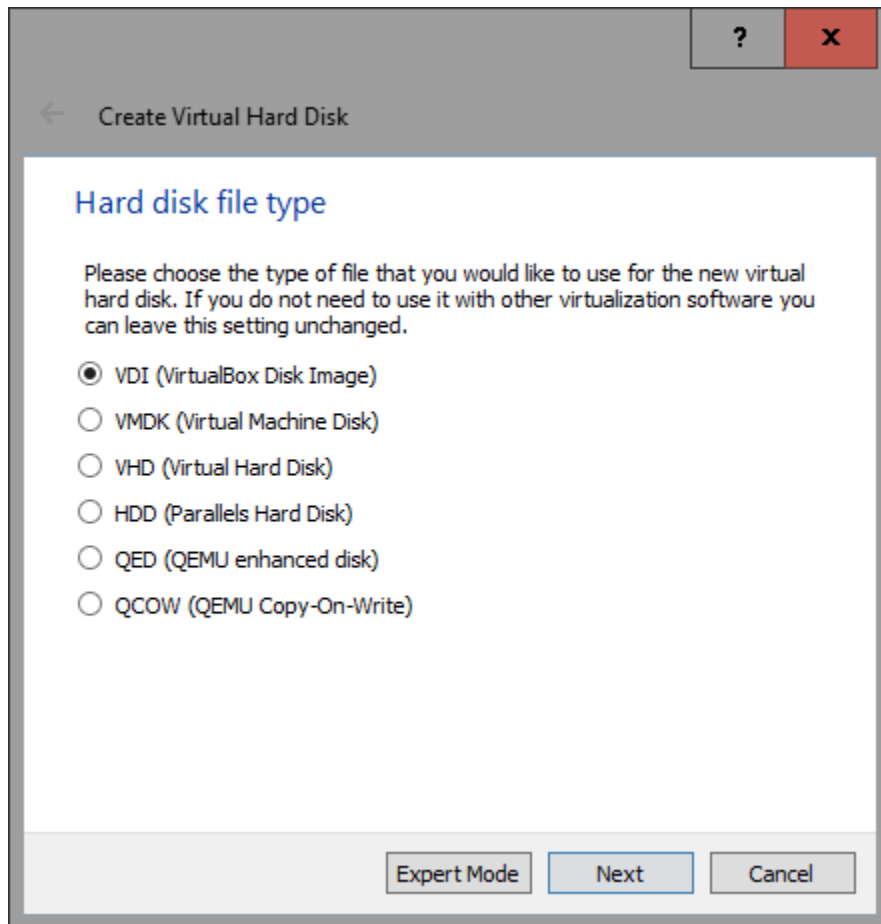
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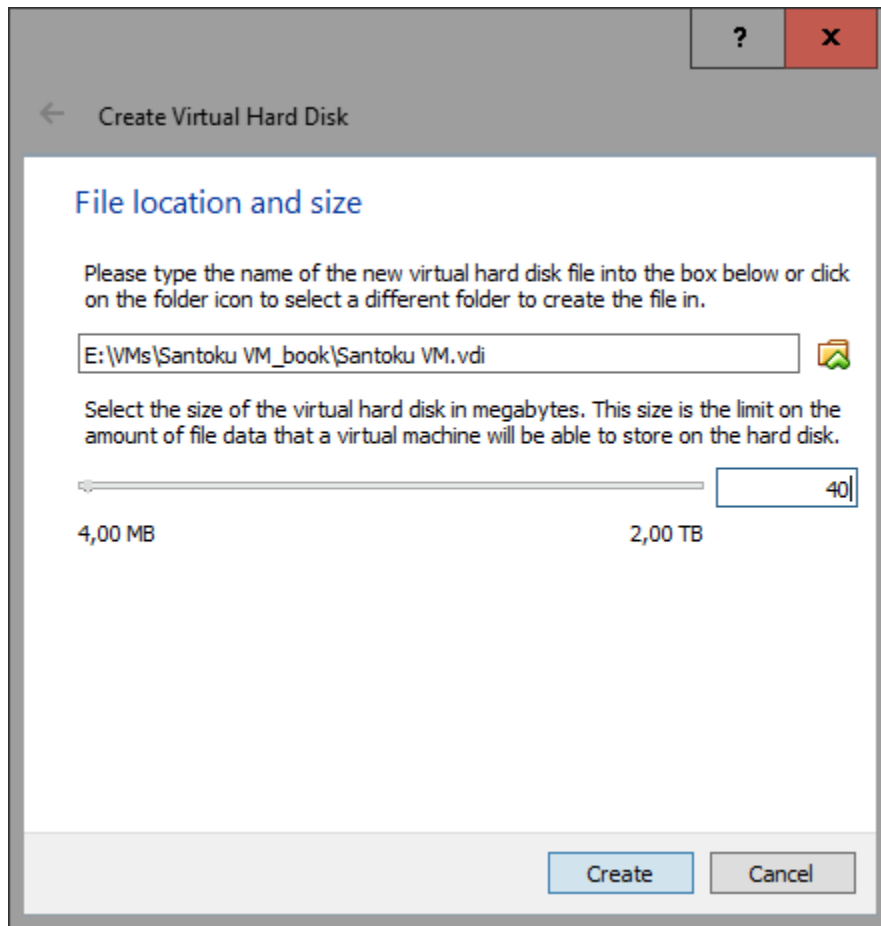
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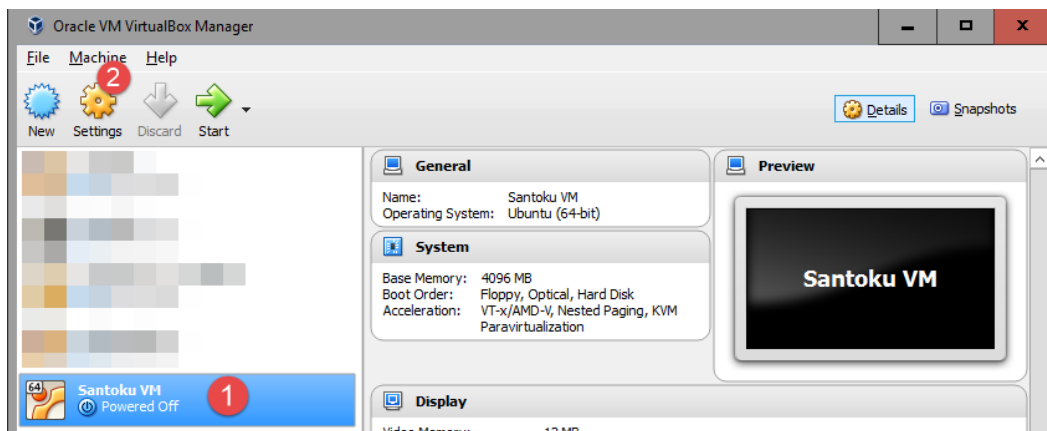
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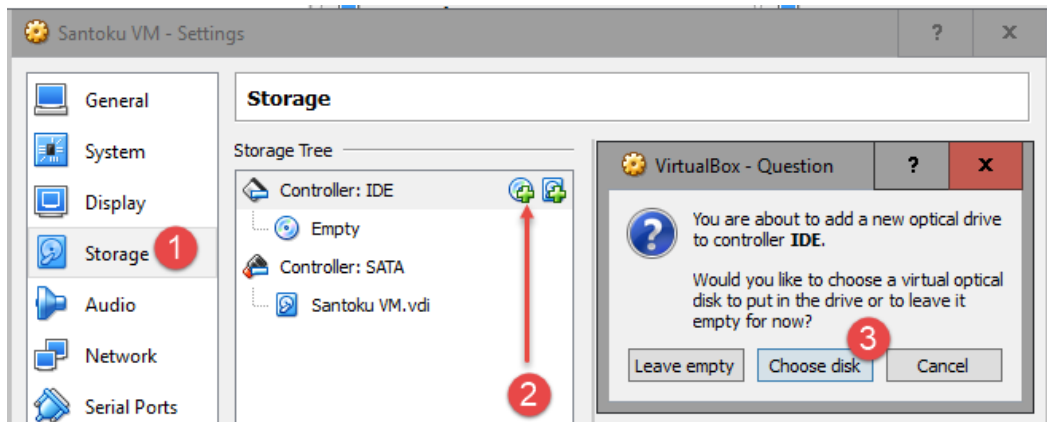


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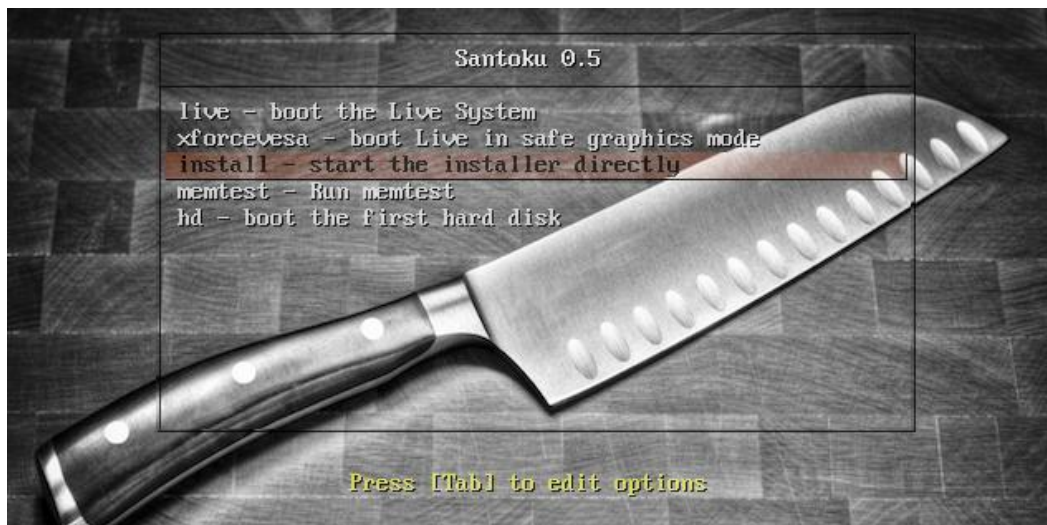


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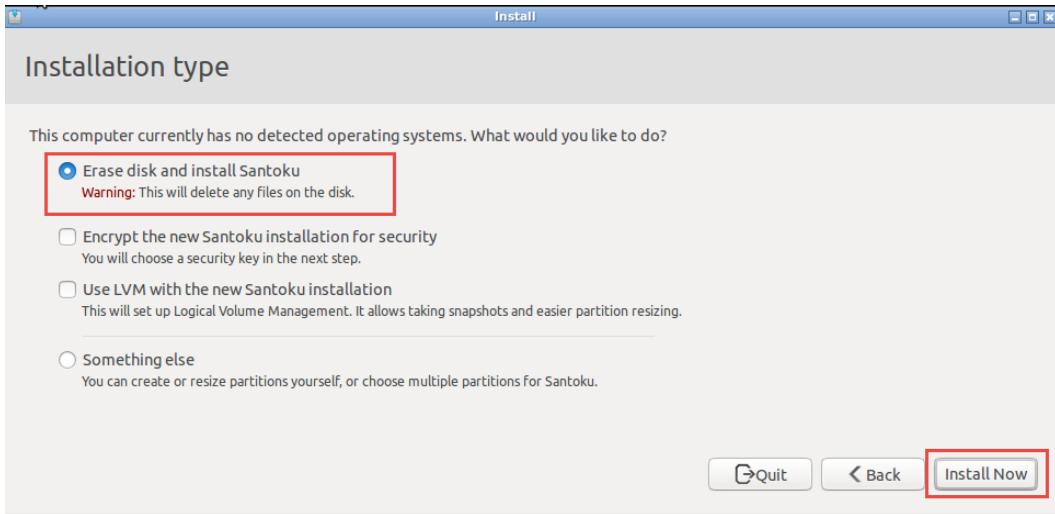


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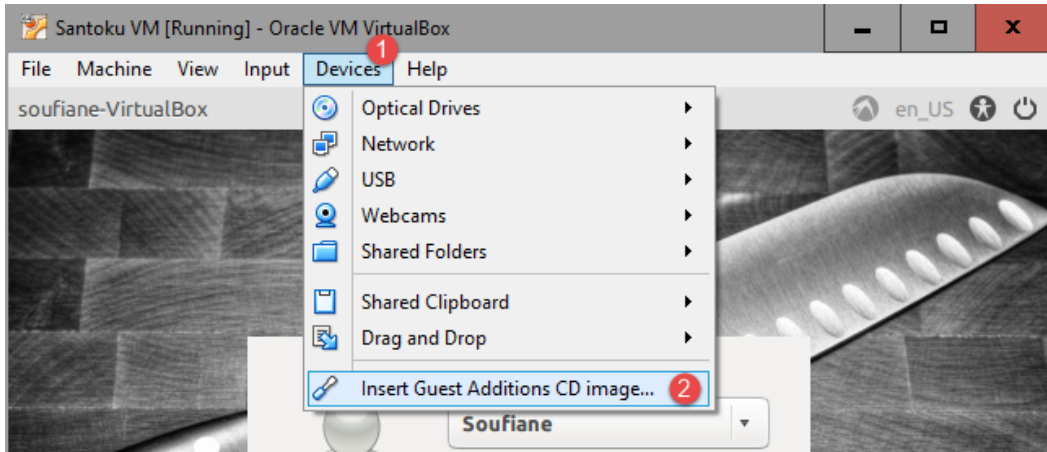


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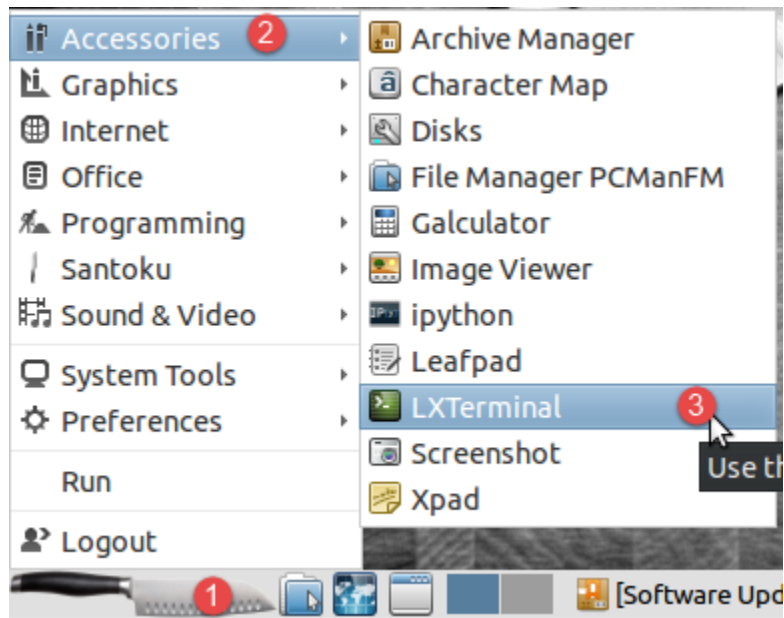




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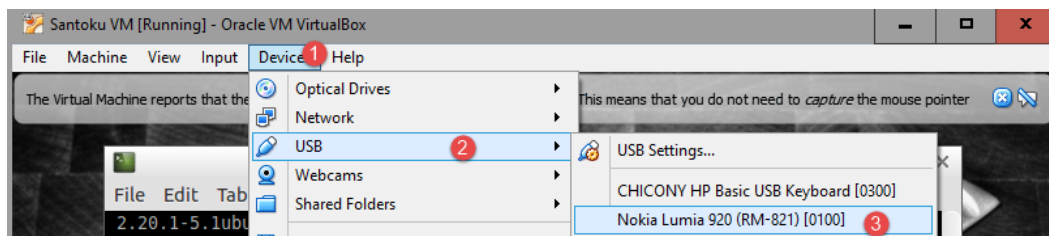
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```
soufiane@soufiane-VirtualBox: ~  
File Edit Tabs Help  
soufiane@soufiane-VirtualBox:~$ sudo sh /media/soufiane/VBOXADDITIONS  
dditions.run  
[sudo] password for soufiane:  
Verifying archive integrity... All good.  
Uncompressing VirtualBox 5.0.16 Guest Additions for Linux.....  
VirtualBox Guest Additions installer  
Copying additional installer modules ...  
Installing additional modules ...  
Removing existing VirtualBox non-DKMS kernel modules ...done.  
Building the VirtualBox Guest Additions kernel modules  
The headers for the current running kernel were not found. If the fol  
module compilation fails then this could be the reason.  
  
Building the main Guest Additions module ...done.  
Building the shared folder support module ...done.  
Building the OpenGL support module ...done.  
Doing non-kernel setup of the Guest Additions ...done.  
Starting the VirtualBox Guest Additions ...done.  
Installing the Window System drivers  
Installing X.Org Server 1.15 modules ...done.
```

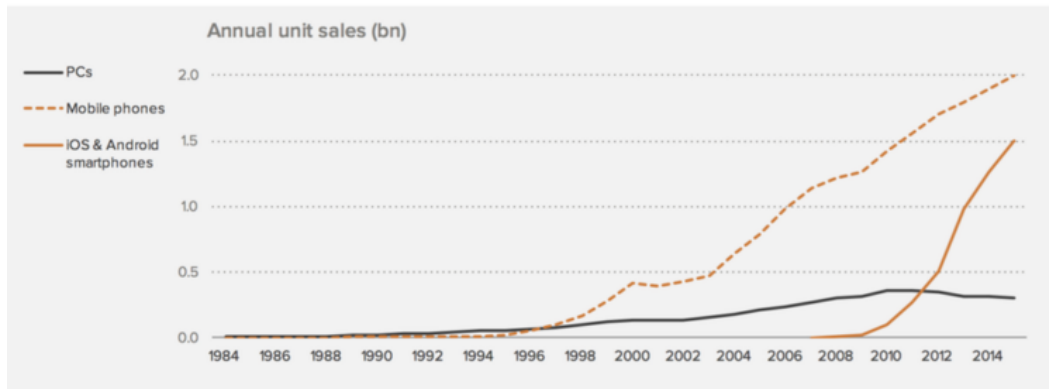
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# Appendix: Preparing a Mobile Forensic Workstation

## Mobile is the new scale

Mobile was always bigger than PCs, but separate. Smartphones broke down that wall




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← Create Virtual Machine

### Name and operating system

Please choose a descriptive name for the new virtual machine and select the type of operating system you intend to install on it. The name you choose will be used throughout VirtualBox to identify this machine.

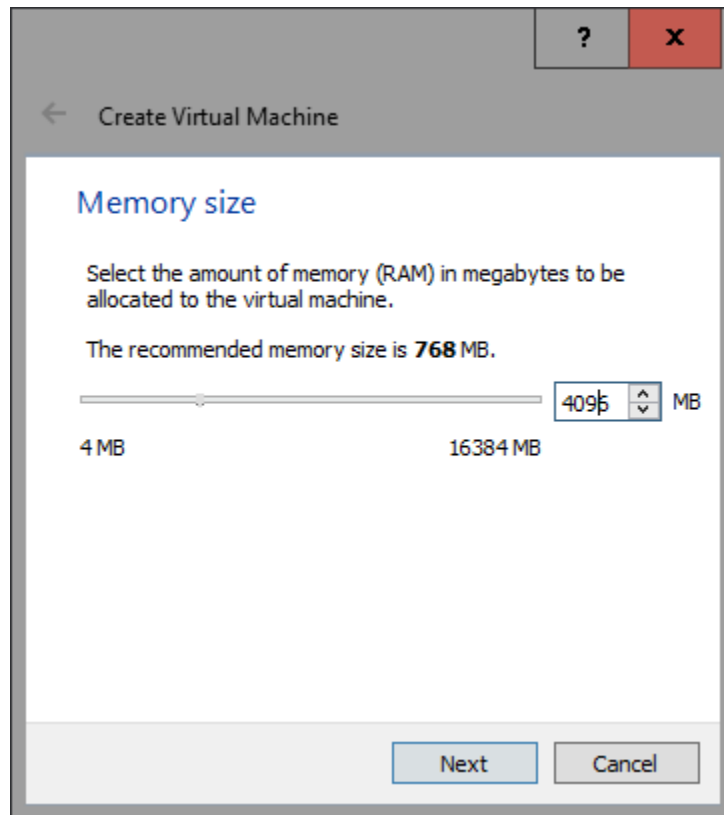
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Type:  

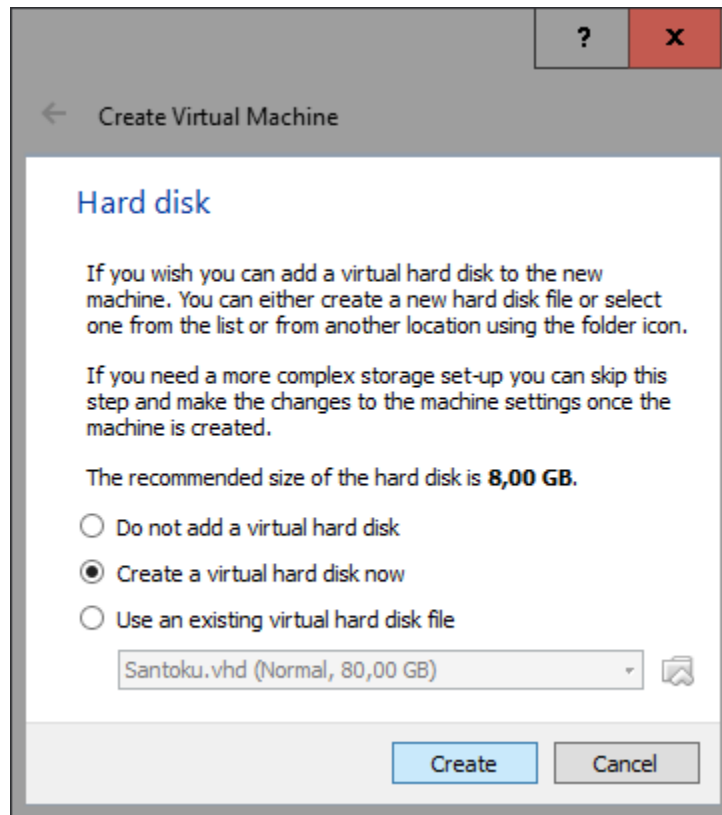
Version:

Expert ModeNextCancel

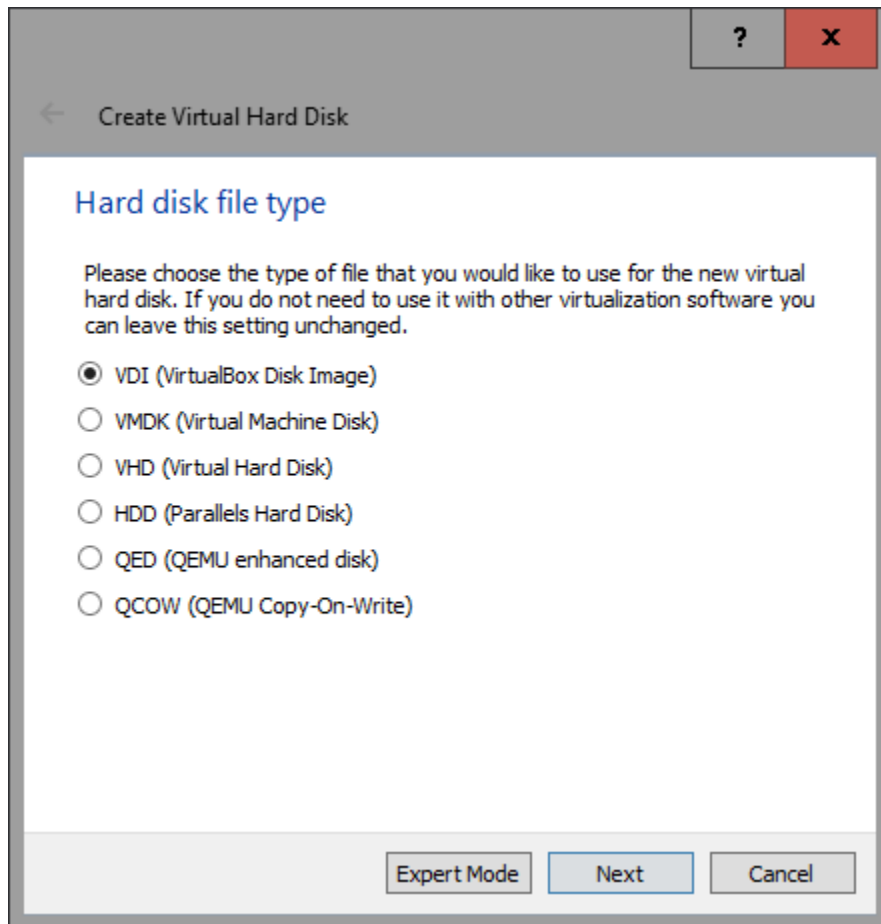
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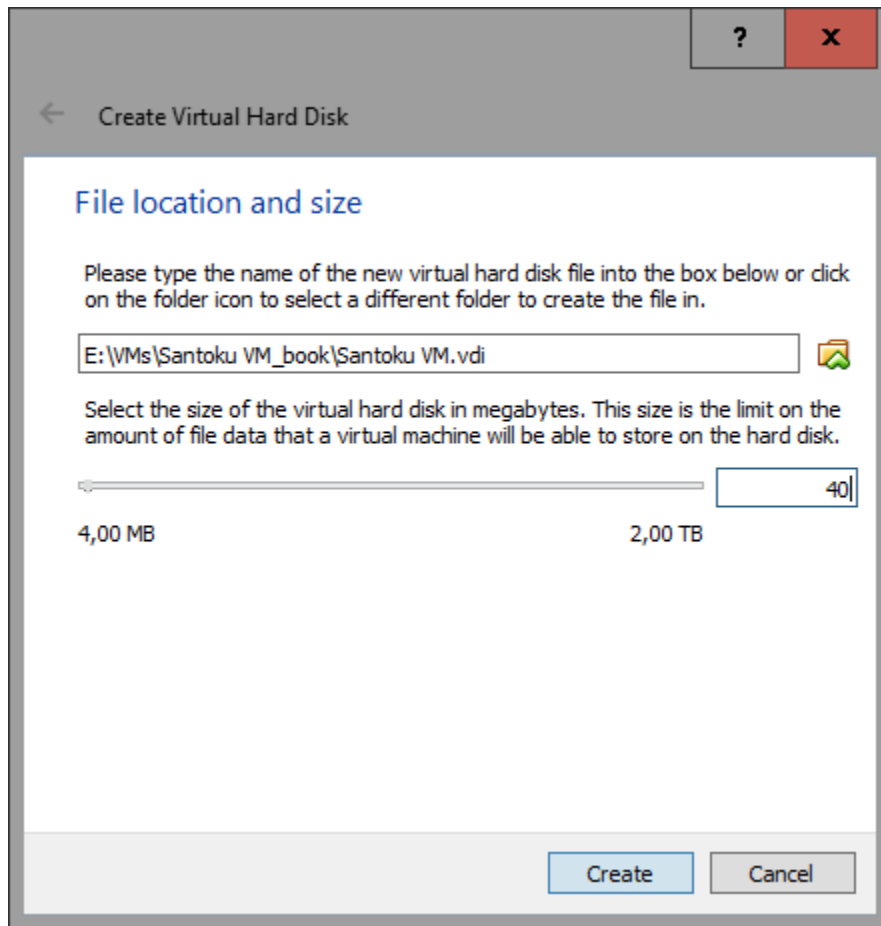


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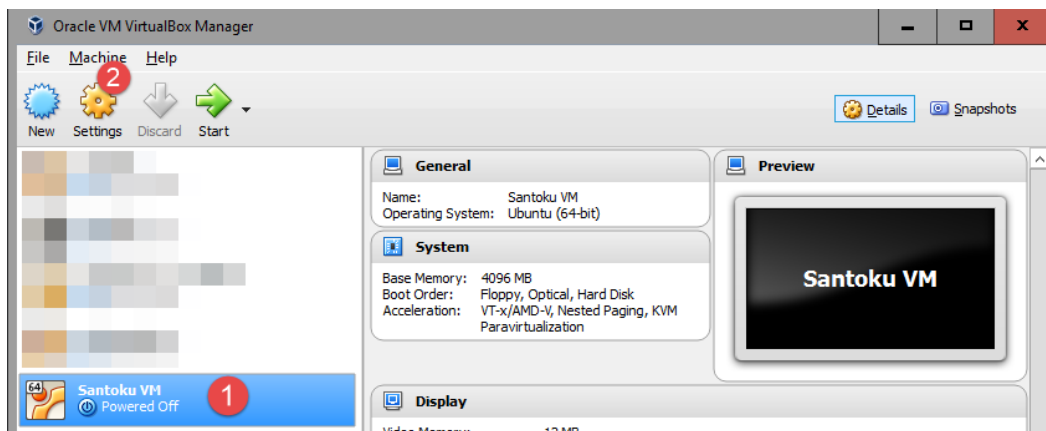


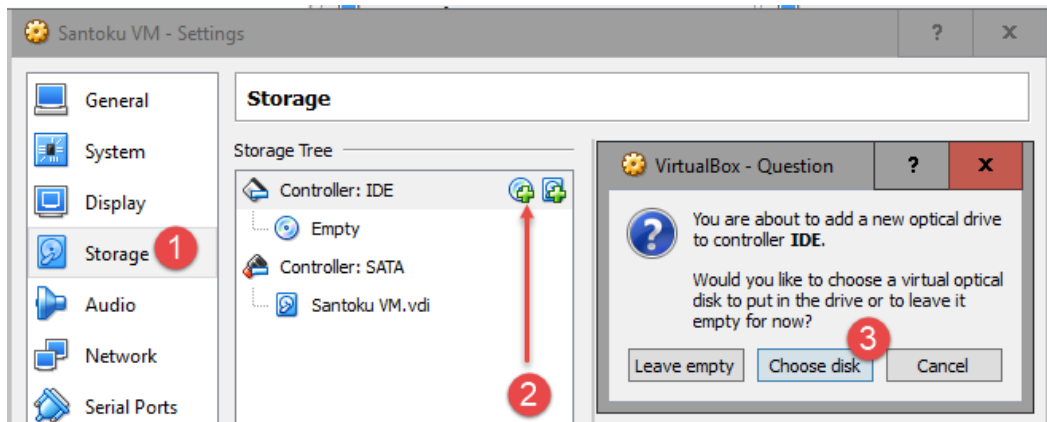
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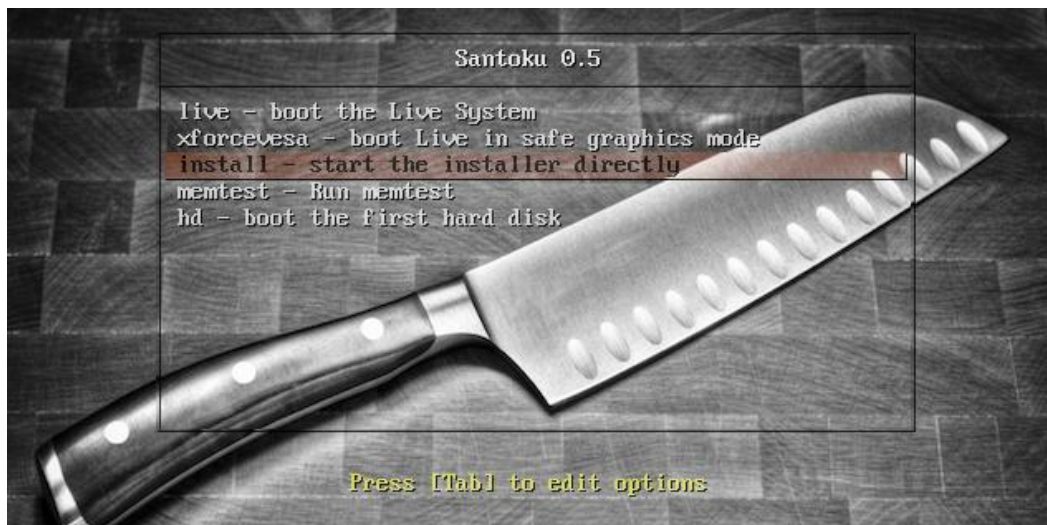


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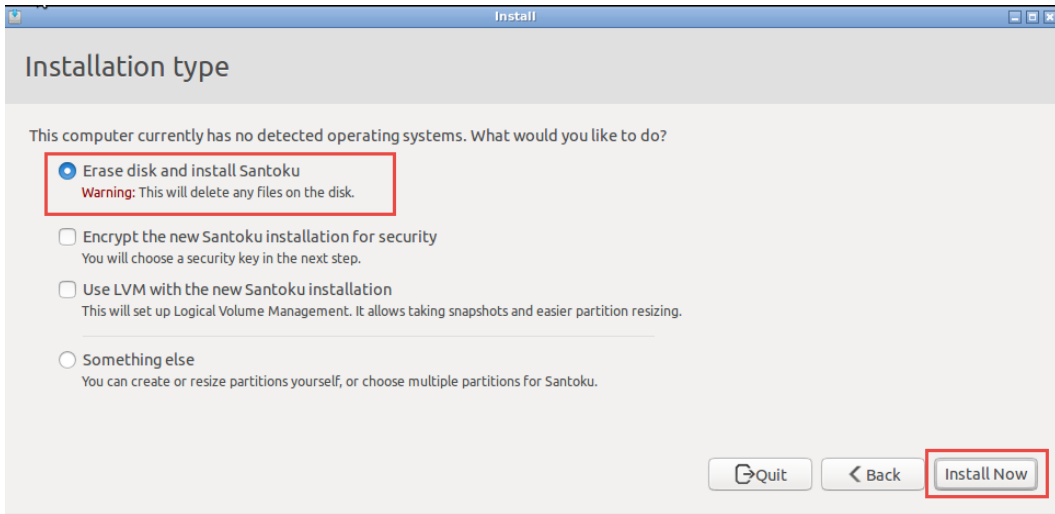




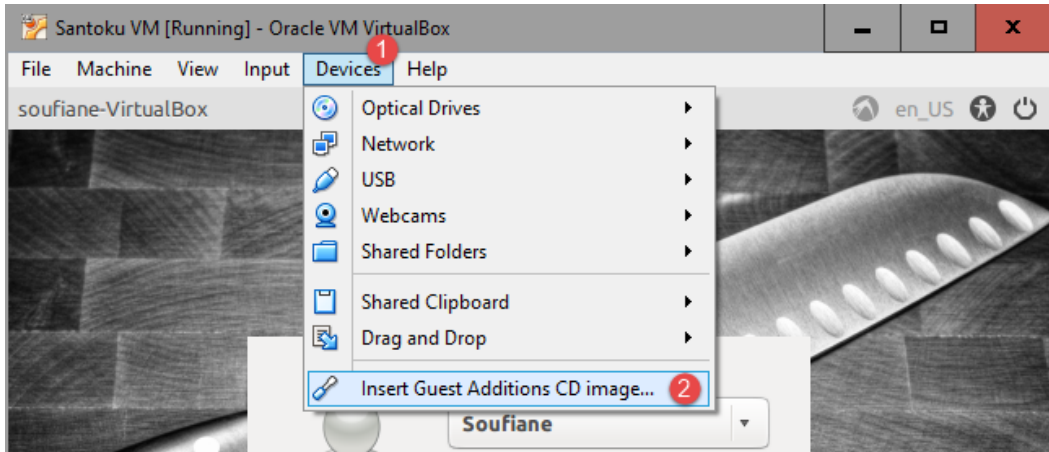
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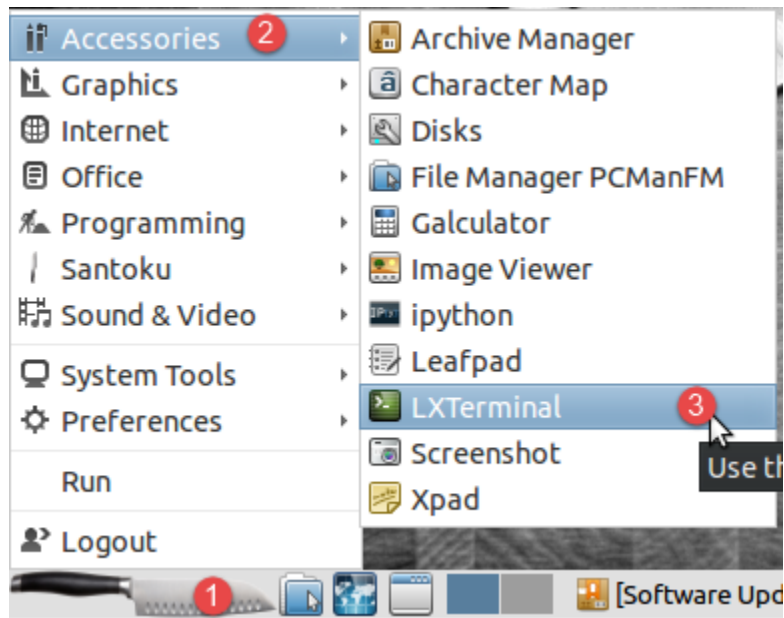
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```
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File Edit Tabs Help  
soufiane@soufiane-VirtualBox:~$ sudo sh /media/soufiane/VBOXADDITIONS  
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Building the OpenGL support module ...done.  
Doing non-kernel setup of the Guest Additions ...done.  
Starting the VirtualBox Guest Additions ...done.  
Installing the Window System drivers  
Installing X.Org Server 1.15 modules ...done.
```

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