Ubaid Jafri

DIGITAL FORENSIC PROJECT

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NETWORK FORENSIC OF CELL PHONE

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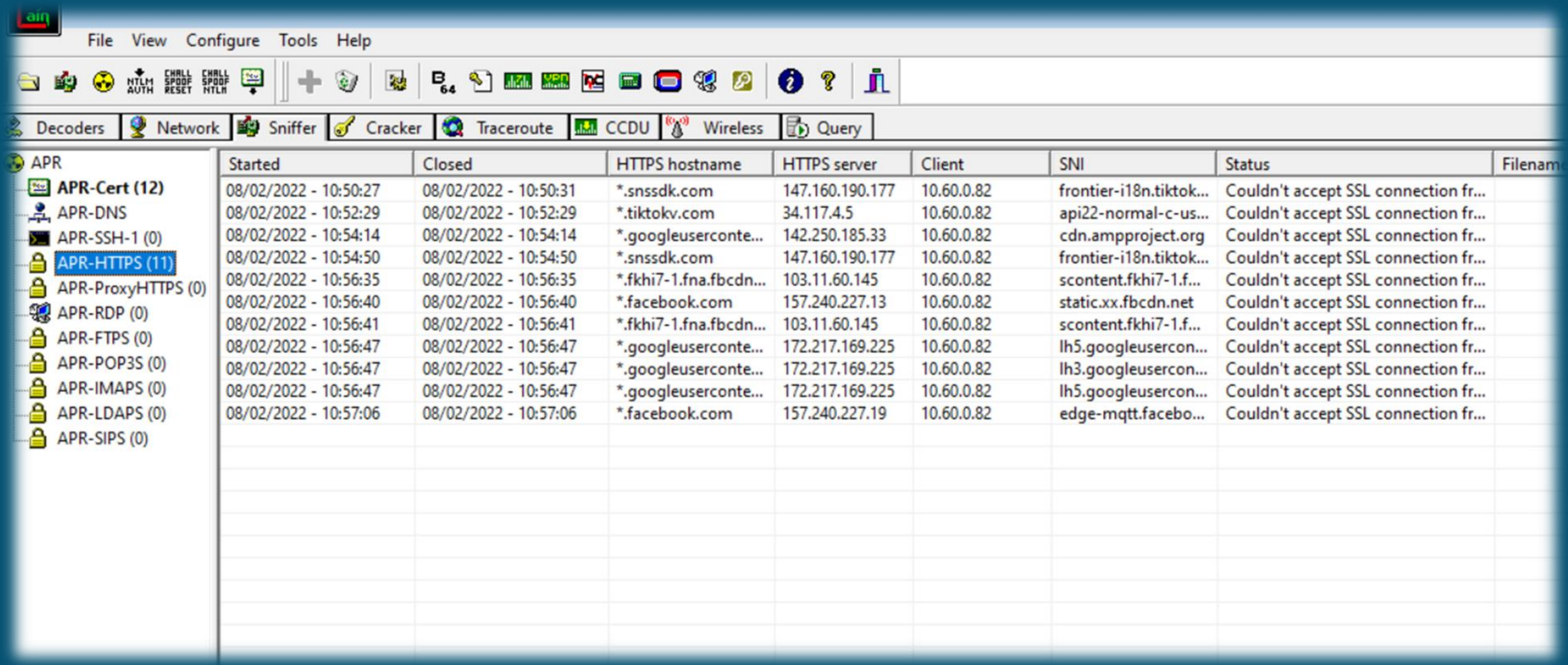
NETWORK FORENSIC OF CELL PHONE

Project Name: Network Forensic of Cell Phone
Tool Used: Wire shark, Network Miner, Cain & Able
Platform: Windows



Started	Closed	HTTPS hostname	HTTPS server	Client	SNI	Status	Filename
08/02/2022 - 10:50:27	08/02/2022 - 10:50:31	*.snssdk.com	147.160.190.177	10.60.0.82	frontier-i18n.tiktok...	Couldn't accept SSL connection fr...	
08/02/2022 - 10:52:29	08/02/2022 - 10:52:29	*.tiktokv.com	34.117.4.5	10.60.0.82	api22-normal-c-us...	Couldn't accept SSL connection fr...	
08/02/2022 - 10:54:14	08/02/2022 - 10:54:14	*.googleuserconte...	142.250.185.33	10.60.0.82	cdn.ampproject.org	Couldn't accept SSL connection fr...	
08/02/2022 - 10:54:50	08/02/2022 - 10:54:50	*.snssdk.com	147.160.190.177	10.60.0.82	frontier-i18n.tiktok...	Couldn't accept SSL connection fr...	
08/02/2022 - 10:56:35	08/02/2022 - 10:56:35	*.fkhi7-1.fna.fbcdn...	103.11.60.145	10.60.0.82	scontent.fkhi7-1.f...	Couldn't accept SSL connection fr...	
08/02/2022 - 10:56:40	08/02/2022 - 10:56:40	*.facebook.com	157.240.227.13	10.60.0.82	static.xx.fbcdn.net	Couldn't accept SSL connection fr...	
08/02/2022 - 10:56:41	08/02/2022 - 10:56:41	*.fkhi7-1.fna.fbcdn...	103.11.60.145	10.60.0.82	scontent.fkhi7-1.f...	Couldn't accept SSL connection fr...	
08/02/2022 - 10:56:47	08/02/2022 - 10:56:47	*.googleuserconte...	172.217.169.225	10.60.0.82	lh5.googleusercon...	Couldn't accept SSL connection fr...	
08/02/2022 - 10:56:47	08/02/2022 - 10:56:47	*.googleuserconte...	172.217.169.225	10.60.0.82	lh3.googleusercon...	Couldn't accept SSL connection fr...	
08/02/2022 - 10:56:47	08/02/2022 - 10:56:47	*.googleuserconte...	172.217.169.225	10.60.0.82	lh5.googleusercon...	Couldn't accept SSL connection fr...	
08/02/2022 - 10:57:06	08/02/2022 - 10:57:06	*.facebook.com	157.240.227.19	10.60.0.82	edge-mqtt.facebo...	Couldn't accept SSL connection fr...	

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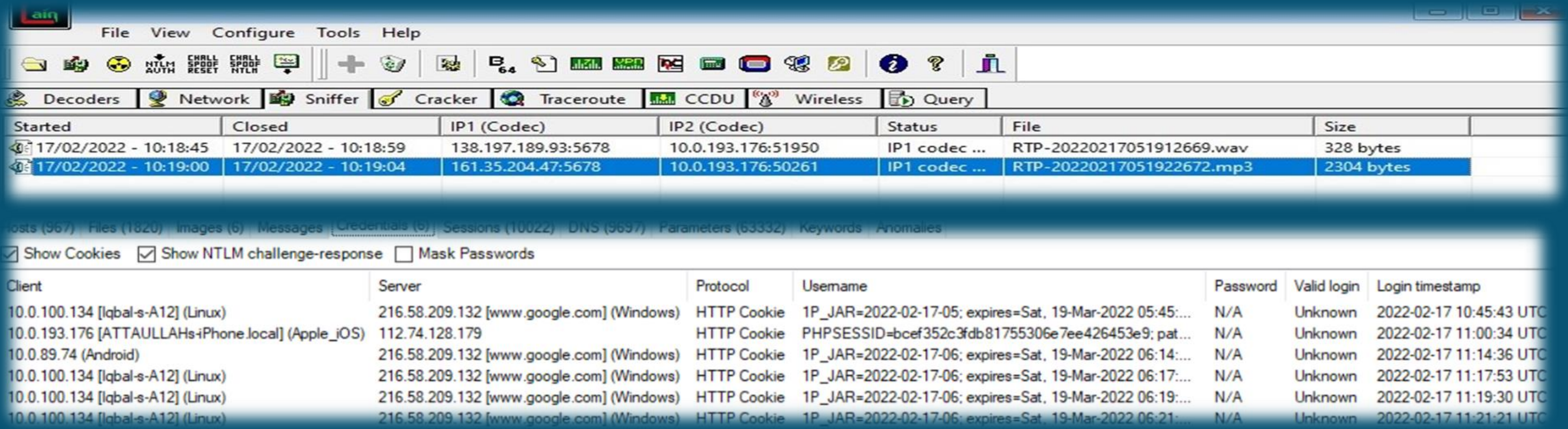
NETWORK FORENSIC OF CELL PHONE

DESCRIPTION :

In this work we perform an experimental forensic study on multiple applications for the Android mobile phone operating system. We investigated Android applications through network traffic analysis and server/device storage analysis. This was performed in order to examine the digital evidence that could be of value to forensic examiners and also to evaluate application security in sending/receiving data and application privacy in storing data .



Started	Closed	IP1 (Codec)	IP2 (Codec)	Status	File	Size
17/02/2022 - 10:18:45	17/02/2022 - 10:18:59	138.197.189.93:5678	10.0.193.176:51950	IP1 codec ...	RTP-20220217051912669.wav	328 bytes
17/02/2022 - 10:19:00	17/02/2022 - 10:19:04	161.35.204.47:5678	10.0.193.176:50261	IP1 codec ...	RTP-20220217051922672.mp3	2304 bytes

☑ Show Cookies ☑ Show NTLM challenge-response □ Mask Passwords

Client	Server	Protocol	Username	Password	Valid login	Login timestamp
10.0.100.134 [Iqbal-s-A12] (Linux)	216.58.209.132 [www.google.com] (Windows)	HTTP Cookie	1P_JAR=2022-02-17-05; expires=Sat, 19-Mar-2022 05:45:...	N/A	Unknown	2022-02-17 10:45:43 UTC
10.0.193.176 [ATTAULLAHs-iPhone.local] (Apple_iOS)	112.74.128.179	HTTP Cookie	PHPSESSID=bcef352c3fdb81755306e7ee426453e9; pat...	N/A	Unknown	2022-02-17 11:00:34 UTC
10.0.89.74 (Android)	216.58.209.132 [www.google.com] (Windows)	HTTP Cookie	1P_JAR=2022-02-17-06; expires=Sat, 19-Mar-2022 06:14:...	N/A	Unknown	2022-02-17 11:14:36 UTC
10.0.100.134 [Iqbal-s-A12] (Linux)	216.58.209.132 [www.google.com] (Windows)	HTTP Cookie	1P_JAR=2022-02-17-06; expires=Sat, 19-Mar-2022 06:17:...	N/A	Unknown	2022-02-17 11:17:53 UTC
10.0.100.134 [Iqbal-s-A12] (Linux)	216.58.209.132 [www.google.com] (Windows)	HTTP Cookie	1P_JAR=2022-02-17-06; expires=Sat, 19-Mar-2022 06:19:...	N/A	Unknown	2022-02-17 11:19:30 UTC
10.0.100.134 [Iqbal-s-A12] (Linux)	216.58.209.132 [www.google.com] (Windows)	HTTP Cookie	1P_JAR=2022-02-17-06; expires=Sat, 19-Mar-2022 06:21:...	N/A	Unknown	2022-02-17 11:21:21 UTC

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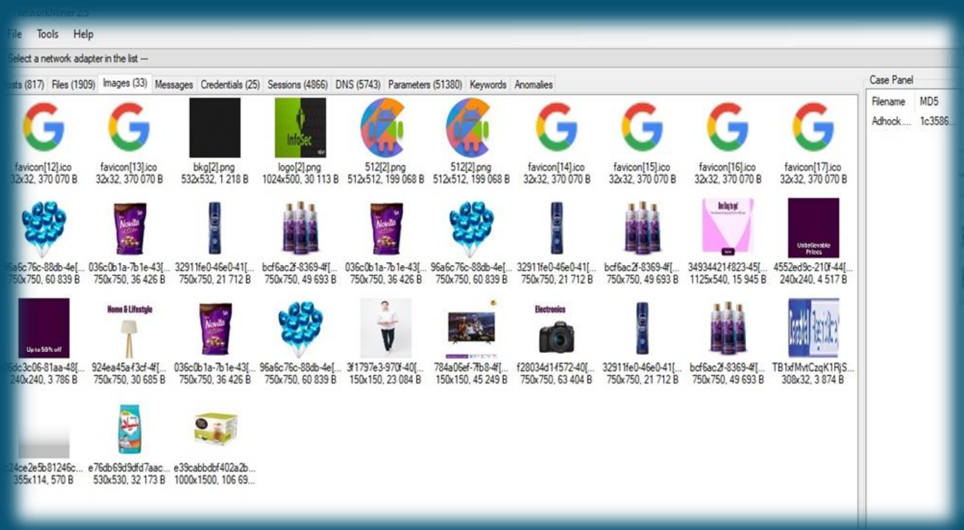
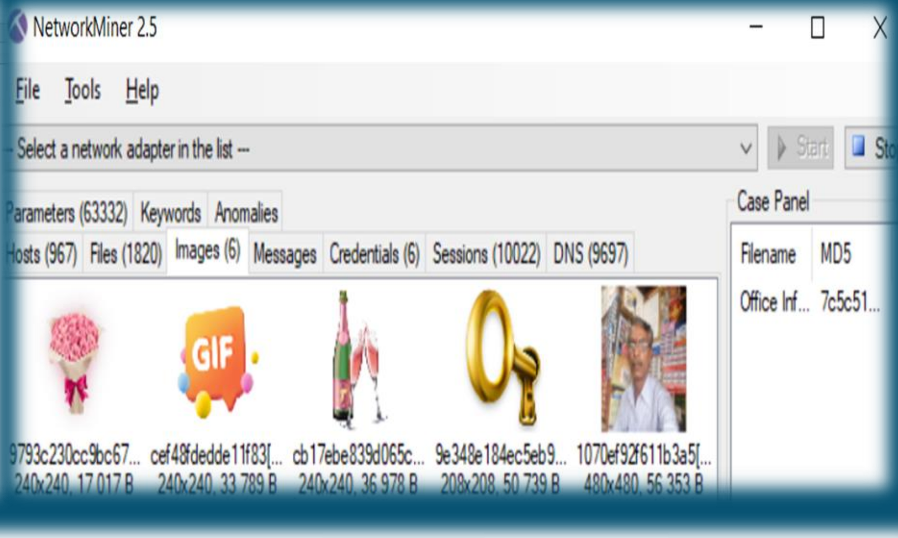
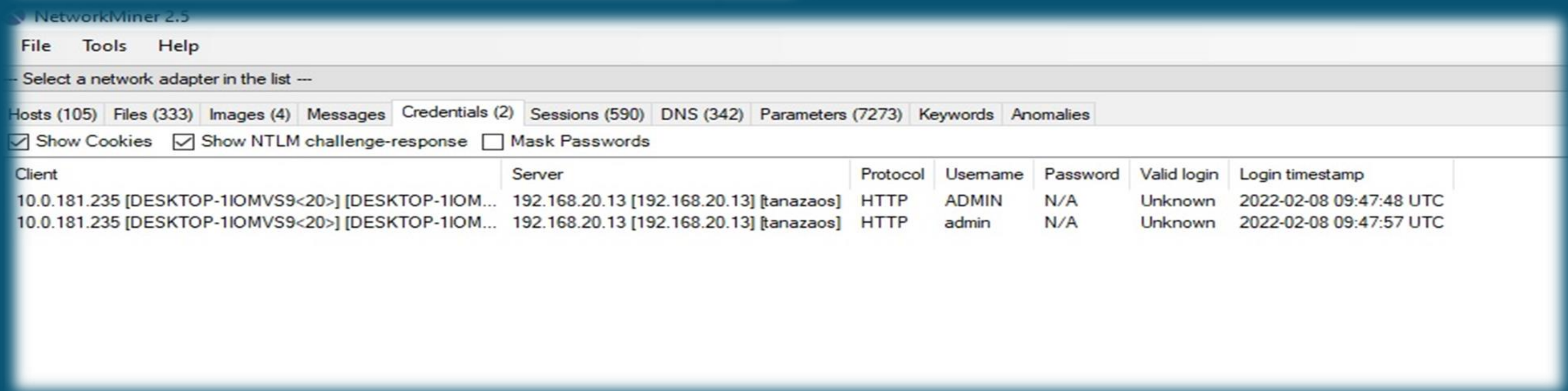
NETWORK FORENSIC OF CELL PHONE


NetworkMiner 2.5
File
Tools
Help
Select a network adapter in the list --
osts (817)
Files (1909)
Images (33)
Messages
Credentials (25)
Sessions (4866)
DNS (5743)
Parameters (51380)
Keywords
Anomalies
Case Panel
Filename
MD5
Adhock....
1c3586...
favicon[12].ico 32x32, 370 070 B
favicon[13].ico 32x32, 370 070 B
bkg[2].png 532x532, 1 218 B
logo[2].png 1024x500, 30 113 B
512[2].png 512x512, 199 068 B
512[2].png 512x512, 199 068 B
favicon[14].ico 32x32, 370 070 B
favicon[15].ico 32x32, 370 070 B
favicon[16].ico 32x32, 370 070 B
favicon[17].ico 32x32, 370 070 B
6a6c76c-88db-4e[... 750x750, 60 839 B
036c0b1a-7b1e-43[... 750x750, 36 426 B
32911fe0-46e0-41[... 750x750, 21 712 B
bcf6ac2f-8369-4f[... 750x750, 49 693 B
036c0b1a-7b1e-43[... 750x750, 36 426 B
96a6c76c-88db-4e[... 750x750, 60 839 B
32911fe0-46e0-41[... 750x750, 21 712 B
bcf6ac2f-8369-4f[... 750x750, 49 693 B
34934421f823-45[... 1125x540, 15 945 B
4552ed9c-210f-44[... 240x240, 4 517 B
6dc3c06-81aa-48[... 240x240, 3 786 B
924ea45af3cf-4f[... 750x750, 30 685 B
036c0b1a-7b1e-43[... 750x750, 36 426 B
96a6c76c-88db-4e[... 750x750, 60 839 B
3f1797e3-970f-40[... 150x150, 23 084 B
784a06ef-7fb8-4f[... 150x150, 45 249 B
f28034d1f572-40[... 750x750, 63 404 B
32911fe0-46e0-41[... 750x750, 21 712 B
bcf6ac2f-8369-4f[... 750x750, 49 693 B
TB1xfMvtCzqK1RjS... 308x32, 3 874 B
24ce2e5b81246c... 355x114, 570 B
e76db69d9dfd7aac... 530x530, 32 173 B
e39cabbdbf402a2b... 1000x1500, 106 69...


NetworkMiner 2.5
File
Tools
Help
Select a network adapter in the list --
Start
Sto
Parameters (63332)
Keywords
Anomalies
Hosts (967)
Files (1820)
Images (6)
Messages
Credentials (6)
Sessions (10022)
DNS (9697)
GIF
9793c230cc9bc67... 240x240, 17 017 B
cef48fdedde11f83[... 240x240, 33 789 B
cb17ebe839d065c... 240x240, 36 978 B
9e348e184ec5eb9... 208x208, 50 739 B
1070ef92f611b3a5[... 480x480, 56 353 B
Case Panel
Filename
MD5
Office Inf...
7c5c51...



☑ Show Cookies ☑ Show NTLM challenge-response □ Mask Passwords

Client	Server	Protocol	Username	Password	Valid login	Login timestamp
10.0.181.235 [DESKTOP-1IOMVS9<20>] [DESKTOP-1IOM...	192.168.20.13 [192.168.20.13] [tanazaos]	HTTP	ADMIN	N/A	Unknown	2022-02-08 09:47:48 UTC
10.0.181.235 [DESKTOP-1IOMVS9<20>] [DESKTOP-1IOM...	192.168.20.13 [192.168.20.13] [tanazaos]	HTTP	admin	N/A	Unknown	2022-02-08 09:47:57 UTC

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