

Cyber Forensics and Incident Response

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1. Background

This document presents the outcomes derived from a digital forensic investigation on George Bernard, a 35-year-old software developer believed to be operating a credit card fraud ring. During an enforcement operation, several items of digital evidence were collected, which comprised a hard drive image (.dd) alongside a mobile phone extraction (.xry) and a suspicious executable file (.exe). This particular examination aimed at analyzing the foregoing artifacts to establish any fraudulent schemes.

2. Executive Summary

Following internationally accepted standards on digital forensic analysis [1], this investigation evaluation document consists of the following findings and evidence in question:

- **Hard Drive Analysis:** Retrieved deleted files containing sensitive credit card information, noted installed privacy applications (Tor, VPN), and found evidence of cryptocurrency activities [2]. Hash checksum was obtained during data acquisition.
- **Mobile Device Analysis:** Identified communications indicating job sharing with a counterpart (“Danny”) along with browsing activity concerning illegal financial activities [3].
- **Malware Sample:** The file was identified as a UPX-packed Trojan (Trojan.Zusy), employing process injection for stealthy evasion of detection [4][5].

2.1 Techniques for Preservation

2.1.1. Table 1: File Integrity Check Techniques

Technique	Method
Hash Verification	Verified file integrity using MD5, SHA1, and SHA256 algorithms [6]
Chain of Custody	Documented every transfer or interaction with evidence to maintain integrity
Read-only Analysis	Ensured analysis tools did not alter original files [1]

2.1.2. Table 2: Tools used for the Analysis

Tools	Version	Purpose
Autopsy	4.21.0	Conducted forensic analysis on the hard drive[2]
HashCal	Latest	Used to calculate file hashes[6]
Xamn	7.7.0	Analyzed mobile phone extraction[3]
Process Hacker 2	2.39.124	Carried out static analysis of executable[4]
Pestudio	9.58	Monitored processes during runtime[7]
APIMiner	1.0.0	Tracked API calls for behavioral malware analysis[5]

2.2 Chain of Custody Documentation

Throughout the investigation, all procedures designed to maintain the integrity of custody were followed to ensure that any digital evidence obtained would remain uncontaminated and usable in a court of law. The first step was to obtain the Android model .xry image file, which was precisely described and enclosed. After this, all interactions with the evidence were logged to ensure that no unauthorized actions were performed, and the data was accessed using the Autopsy tool. Interaction with the hard drive image was equally monitored and logged.

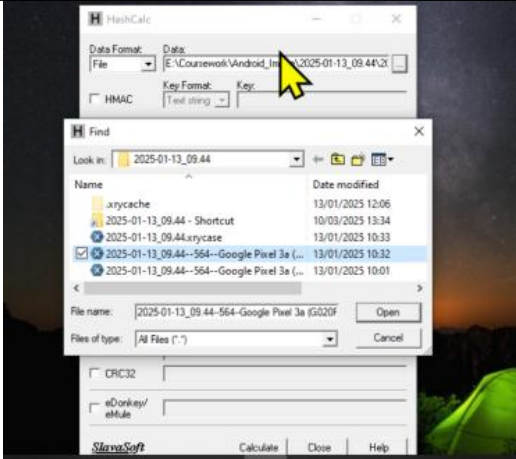
All interactions with devices and databases were passed through the XAMN tool before the evidence was presented regarding the relevant mobile device's data, such as contacts, messages, and browsing history. All examinations performed and actions taken during interactions with the device were logged.

Suspicious PE files were subjected to both static and dynamic analysis where relevant information was collected using read-only modes. Each step taken was precisely timestamped and those responsible for each individual action were logged in detail including the actions they performed, when, and for what reason. Such a detailed approach at each stage of the court presentation and investigation ensures that the evidence is valid and reliable.

3. Technical Report

This section present the analysis and evidence as shown in the table. Provide a description of the analysis methods that were used, and also explain the findings of the analysis. Include proof of your findings, such as screenshots and commands (tables make the report more readable and concise). It is important that the evidence provide enough information for the reader to understand the incident completely

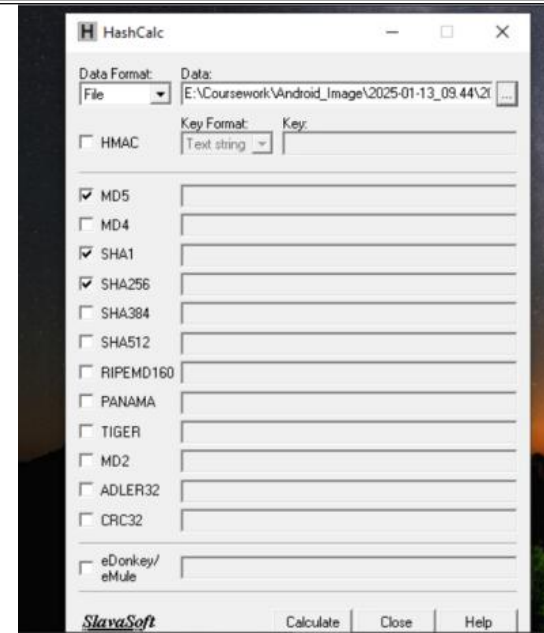
3.1. Table 3: Shows the process used for the Hard drive analysis, PE file and Android Image.*File integrity check using Hashcal*

Date/ time	Process	Evidence
Android Image Analysis		
13:34 10-03-2025	Launch Hashcal	
13:41 10-03-2025	Select file format as File	
	Upload file in hashcal from location E:\Coursework\Android_Image\2025-01-13_09.44\2025-01-13_09.44--564--Google Pixel 3a (G020F).xry	

13:43 10-03-2025

Select algorithm MD5 , SHA1 and SHA256

Click on Calculate button

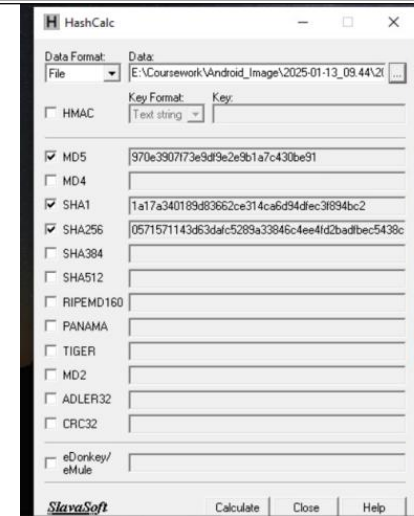


13:51 10-03-2025

Computed Hash value will be generated
MD5: 970e3907f73e9df9e2e9b1a7c430be91

SHA1:
1a17a340189d83662ce314ca6d94dfec3f894
bc2

SHA256:
0571571143d63dafc5289a33846c4ee4fd2ba
dfbec5438c5fbed2fbf185b569f

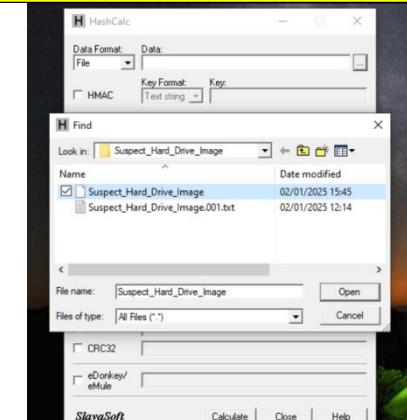


Hard Drive Image

13:53 10-03-2025

Select file format as File

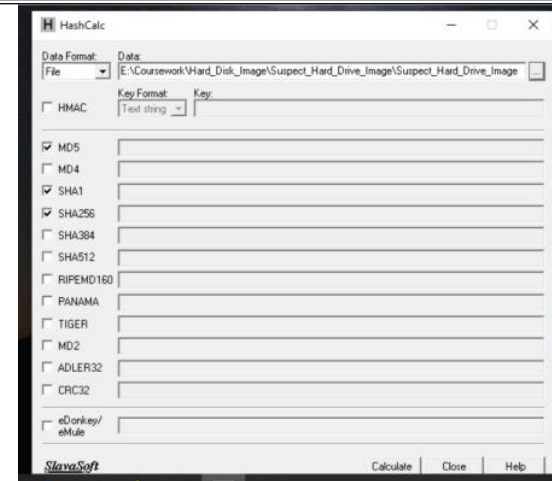
Upload file in hashcal from location
E:\Coursework\Hard_Disk_Image\Suspect_
Hard_Drive_Image\Suspect_Hard_Drive_Im
age



13:55 10-03-2025

Select algorithm MD5 , SHA1

Click on Calculate button

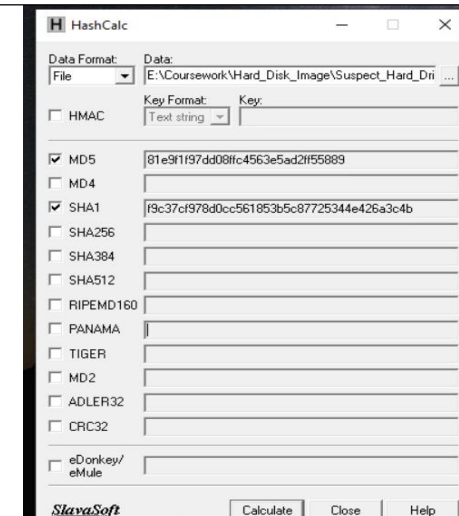


14:15 10-03-2025

Computed Hash value will be generated

MD5 checksum:
81e9f1f97dd08ffc4563e5ad2ff55889

SHA1 checksum:
f9c37cf978d0cc561853b5c87725344e426a3c4b

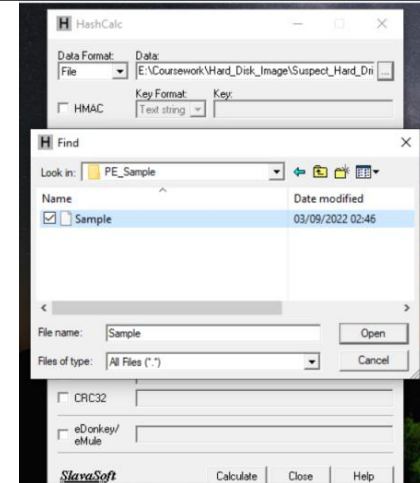


Portable Executable Sample

14:16 10-03-2025

Select file format as File

Upload file in hashcal from location
E:\Coursework\PE_Sample\Sample

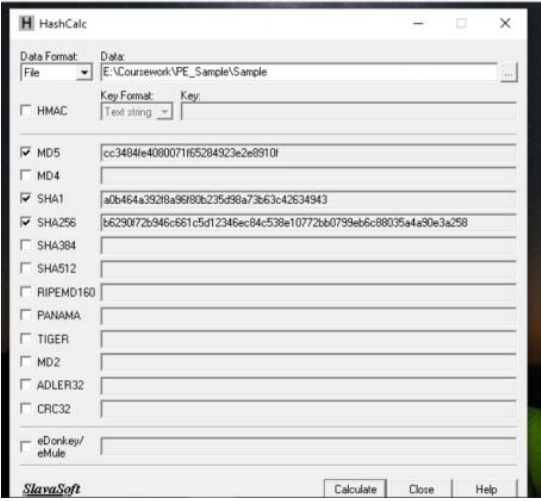


14:18 10-03-2025

Select algorithm MD5 , SHA1 and SHA256

Click on Calculate button



14:20 10-03-2025	<p>Computed Hash value will be generated</p> <p>MD5: cc3484fe4080071f65284923e2e8910f</p> <p>SHA1: a0b464a392f8a96f80b235d98a73b63c42634943</p> <p>SHA256: b6290f72b946c661c5d12346ec84c538e10772bb0799eb6c88035a4a90e3a258</p>	 <p>The screenshot shows the HashCalc application window. The 'Data Format' is set to 'File' and the file path is 'E:\Coursework\PE_Sample\Sample'. The 'Key Format' is set to 'Text string'. The calculated hashes are displayed as follows:</p> <ul style="list-style-type: none"> MD5: cc3484fe4080071f65284923e2e8910f SHA1: a0b464a392f8a96f80b235d98a73b63c42634943 SHA256: b6290f72b946c661c5d12346ec84c538e10772bb0799eb6c88035a4a90e3a258 <p>Other hash algorithms like HMAC, MD4, SHA384, SHA512, RIPEMD160, PANAMA, TIGER, MD2, ADLER32, CRC32, eDonkey, and eMule are listed but not selected.</p>
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3.2. Table 4: This process show examine a suspect's storage device *Hard drive image analysis using Autopsy tool* without altering the original data.

Date/time	Process	Evidence
18:09 17-03-2025	Open Autopsy	

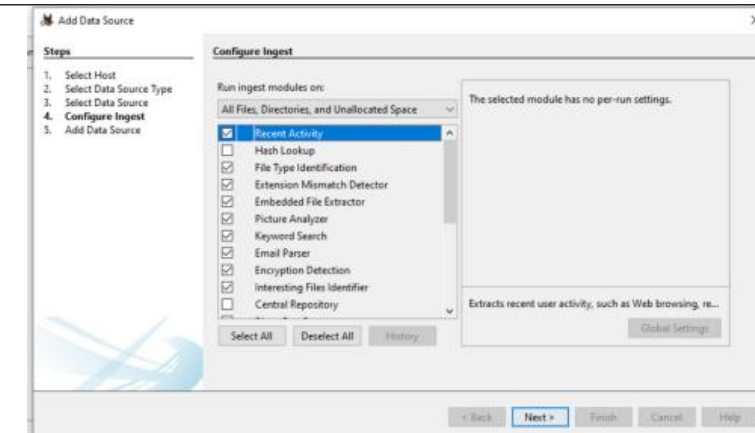
18:15 17-03-2025

Select the file from
E:\Coursework\Hard_Disk_Im
age\Suspect_Hard_Drive_Ima
ge



18:34 17-03-2025

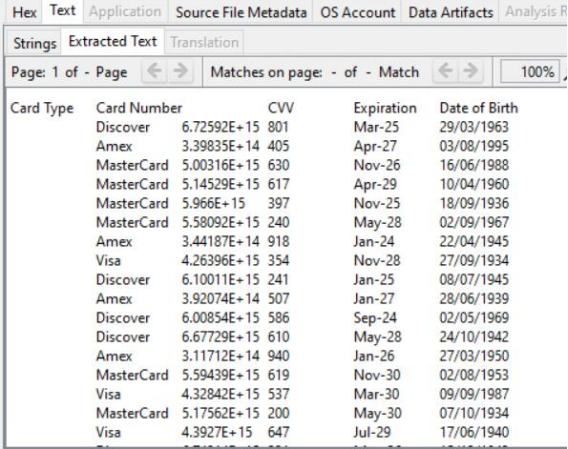
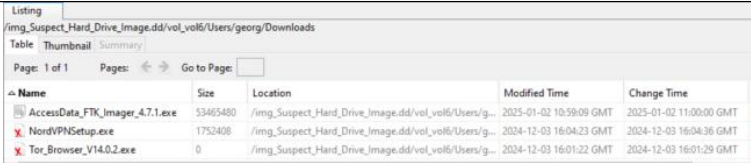
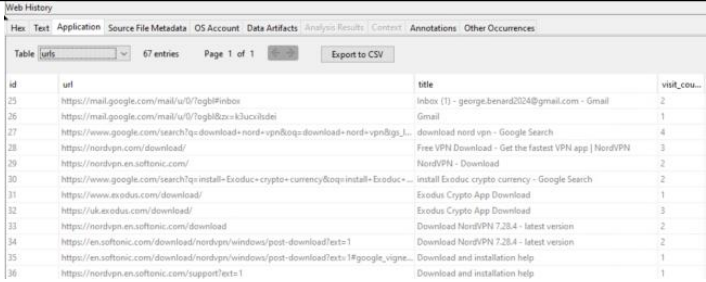
Selected appropriate
Configure Ingest



19:30 17-03-2025

Credit details of all users excel
file found in recycle bin

Recycle Bin			
Table Thumbnail Summary			
Page: 1 of 1		Go to Page:	
Source Name	Path	Time Deleted	Data Source
SRMQF129.csv	C:\Users\georgi\Documents\Credit_cards.csv	2024-12-16 20:16:29 GMT	Suspect_Hard_Drive_Image.dd

	Csv file has user sensitive details like username, credit card type & number, CVV and DOB	
19:50 17-03-2025	Evidence found George has downloaded Tor browser, Nord VPN for accessing dark web	
20:15 17-03-2025	Evidence found in web history search on Nord VPN, Exodus (cryptocurrency)	

21:00 17-03-2025

Evidence of web history folder where George has made search of money laundry , credit card access , image of leaked credit cards etc.

Web History

Hex Text Application Source File Metadata OS Account Data Artifacts Analysis Results Context Annotations Other Occurrences

Table: urls 67 entries Page 1 of 1 Export to CSV

id	url	title	visit_cou...	typed_c...
61	https://www.google.com/search?q=How-to-access-customers%27%20%20credit-cards...	How to access customers' credit cards from the dark web - Ge...	2	0
62	https://rare.io/learn/resources/blog/dark-web-credit-cards/	Dark Web Credit Card Fraud: Detecting and Preventing Credit ...	1	0
63	https://www.kaspersky.com/blog/2023/12/07/what-to-do-if-your-credit-card-informat...	What To Do If Your Credit Card Information Is on the Dark Web	1	0
64	https://black.norton.com/learn/internet-security/dark-web-website/sitids-MinB0ooviv...	Dark web websites: How to access them safely - LifeLock	1	0
65	https://webc.io/deep/the-top-5-deep-and-dark-web-credit-card-sites/	Top 5 Deep and Dark Web Credit Card Sites	1	0
66	https://www.google.com/search?q=How-to-laundry-money-using-crypto-wallets&ogq...	How to launder money using crypto wallets - Google Search	2	0
67	https://www.sanscom.io/blog/how-illit-actors-laundry-money-through-crypto-exchange...	How Illit Actors Launder Money Through Crypto Exchanges	1	0
68	https://www.idrow.io/blog/how-criminals-leverage-crypto-money-laundering/	How criminals use crypto exchanges for money laundering	1	0
69	https://www.elfptic.co/blog/analysis/cryptocurrency-money-laundering-explained-misr-and-priv...	Crypto Money Laundering Explained: misr and privacy wallets	1	0
70	https://syntheticdrugs.usodi.org/syntheticdrugs/en/cybercrime/laundringproceeds/mone...	Money laundering through cryptocurrencies	1	0
71	https://hyperverge.co/blog/money-laundering-in-cryptocurrency-risks-prevention/	A Guide to Cryptocurrency Money Laundering	1	0
72	https://www.cdfence.com.uk/news-and-insights/how-to-detect-cryptocurrency-and-ransomware...	Do digital currencies and ransomware pose a higher risk o...	1	0
73	https://financialcrimeacademy.org/cryptocurrency-money-laundering-methods/	Understanding Crypto Money Laundering Methods: The Crypt...	1	0
74	https://www.google.com/search?q=brain%27s+club&ogq=brain%27s+club+club+club+club...	brain's club - Google Search	2	0
75	https://brainclub.io/	Brainclub.io Brainclub Login Brainclub Shop Brainclub	1	0
76	https://www.google.com/search?q=brainclub&ogq=brainclub+brainclub+brainclub+brainclub...	brainclub - Google Search	2	0

21:30 17-03-2025

Found different credit and debit card images in web cache data, which can be used for purchasing things



22:15 17-03-2025

This image show the George has purchase things from different credit and debit card

Ref	BIN	Bank	Brand	Level	Credit?	Tracks	SCode	Country	State	City	ZIP	Ref?	Price
19157	464952	Meezan Bank, Ltd.	Visa	Gold	Debit	TR2	221	PK				Yes	\$50.00
19157	464951	Meezan Bank, Ltd.	Visa	Classic	Debit	TR2	221	PK				Yes	\$50.00
19157	464951	Meezan Bank, Ltd.	Visa	Classic	Debit	TR2	121	PK				Yes	\$50.00
19157	464951	Meezan Bank, Ltd.	Visa	Classic	Debit	TR2	221	PK				Yes	\$50.00
19157	464951	Meezan Bank, Ltd.	Visa	Classic	Debit	TR2	221	PK				Yes	\$50.00
19157	627873		Maestro	Proprietary	Debit	TR2	123	PK				Yes	\$50.00
19157	464951	Meezan Bank, Ltd.	Visa	Classic	Debit	TR2	221	PK				Yes	\$50.00
19157	464951	Meezan Bank, Ltd.	Visa	Classic	Debit	TR2	221	PK				Yes	\$50.00

22:30 17-03-2025

This evidence show Mozilla browser sites in Web bookmark folder

Web Bookmarks						
Table	Thumbnail	Summary				
Url	Application	Source File Metadata	OS Account	Data Artifacts	Analysis Results	Annotations
Table [next, previous] 39 entries Page 1 of 1 Export to CSV						
1	url					title
2	https://support.mozilla.org/ko/tutorials/firefox-controls-buttons-and-toolbars/tutorials...					
3	https://www.mozilla.org/contributors/					
4	https://www.mozilla.org/zh-tw/					
5	https://www.mozilla.org/ko/privacy/firefox/					Firefox Privacy Notice - Mozilla
6	https://www.google.com/search?danti=firefox-to-dl&q=download+chrome					download chrome - Google Search
7	https://www.google.com/img?imgarg=425176400245-0564-403C-4F11-4A87E1C30F9E1...					Google Chrome - Download the fast, secure browser from Google
8	https://www.google.com/img?imgarg=425176400245-0564-403C-4F11-4A87E1C30F9E1...					ChromeDownload
9	https://www.google.com/search?danti=firefox-to-dl&q=download+tor-browser					Google Chrome web browser
10	https://www.google.com/search?danti=firefox-to-dl&q=download+tor-browser					download Tor browser - Google Search
11	https://www.google.com/search?danti=firefox-to-dl&q=download+tor-browser					download Tor browser - Google Search
12	https://www.google.com/search?danti=firefox-to-dl&q=download+tor-browser					download Tor browser - Google Search
13	https://www.google.com/search?danti=firefox-to-dl&q=download+tor-browser					download Tor browser - Google Search
Table [next, previous] 39 entries Page 1 of 1 Export to CSV						
14	url					title
15	https://www.google.com/search?danti=firefox-to-dl&q=download+tor-browser					download Tor browser - Google Search
16	https://tor-browser-es.sourceforge.io/					Tor Browser - Download
17	https://tor-browser-es.sourceforge.io/download					Download Tor Browser - free - latest version
18	https://es.softonic.com/download/tor-browser/tor-browser/tor-browser_v10.0.2-free-.../					Download Tor Browser 10.0.2 - free - latest version
19	https://get.flathub.com/apps/org.torproject.torbrowser.TorBrowser_v10.0.2-.../					Tor Browser 10.0.2.exe
20	https://www.google.com/search?danti=firefox-to-dl&q=download+tor-browser					How to gain access to bank account of customers from their credit card details - Google Sea...
21	https://www.reddit.com/r/personalfinance/comments/1d8b9u4/companies_get_at_...					How to gain access to bank account of customers from their credit card details - Google Sea...
22	https://www.reddit.com/r/personalfinance/comments/1d8b9u4/companies_get_at_...					How to gain access to bank account of customers from their credit card details - Google Sea...
23	https://www.quora.com/Is-there-a-code-for-logging-into-anyone-s-bank-account-without-the-person-knowing-it-...					Is there a code for logging into anyone's bank account without the person knowing it? - Qu...
24	https://www.accespayruba.com/blog/how-to-securely-store-customer-credit-card-inform...					Guide on how to securely store customer credit card information
Table [next, previous] 39 entries Page 1 of 1 Export to CSV						
25	url					title
26	https://www.donorsdrive.com/blog/how-to-securely-store-customer-credit-card-inform...					Guide on how to securely store customer credit card information
27	https://www.mccbank.com/buy-money-crypto-get-bitcoin-card-data					10 Ways Criminals Get Data Card Data - McClean Bank
28	https://www.donorsdrive.com/blog/how-to-securely-store-customer-credit-card-inform...					10 Ways Criminals Get Data Card Data - McClean Bank
29	https://www.google.com/search?danti=firefox-to-dl&q=download+tor-browser					Manage a bank account for someone else (web version) - GOV.UK
30	https://www.balanced.com/					Manage a bank account for someone else (web version) - GOV.UK
31	https://www.balanced.com/					Manage a bank account for someone else (web version) - GOV.UK
32	https://www.google.com/search?danti=firefox-to-dl&q=download+tor-browser					Manage a bank account for someone else (web version) - GOV.UK
33	https://www.google.com/search?danti=firefox-to-dl&q=download+tor-browser					Manage a bank account for someone else (web version) - GOV.UK
34	https://www.google.com/search?danti=firefox-to-dl&q=download+tor-browser					Manage a bank account for someone else (web version) - GOV.UK
35	https://www.google.com/search?danti=firefox-to-dl&q=download+tor-browser					Manage a bank account for someone else (web version) - GOV.UK
36	https://www.google.com/search?danti=firefox-to-dl&q=download+tor-browser					Manage a bank account for someone else (web version) - GOV.UK
37	https://www.google.com/search?danti=firefox-to-dl&q=download+tor-browser					Manage a bank account for someone else (web version) - GOV.UK
38	https://www.google.com/search?danti=firefox-to-dl&q=download+tor-browser					Manage a bank account for someone else (web version) - GOV.UK
39	https://www.google.com/search?danti=firefox-to-dl&q=download+tor-browser					Manage a bank account for someone else (web version) - GOV.UK

22:45 17-03-2025

As shown in the both figure of web search where George has search for crypto currency, dark web access, credit cards

Web Search						
Table	Thumbnail	Summary				
Source Name	S	C	O	Domain	Text	Data Source
History				google.com	download foxit reader	Google Chrome
History				google.com	download foxit reader	Google Chrome
History				google.com	download nord vpn	Google Chrome
History				google.com	download nord vpn	Google Chrome
59	https://www.google.com/search?q=download+image+of+manson+house&asv=32x5509f5ced2&idm=2&blw=1555&bih=724&asv=1013280&ap=...				download image of a mansion - Google Search	1
60	https://www.google.com/search?q=download+image+of+manson+house&asv=32x5509f5ced2&idm=2&blw=1555&bih=724&asv=1013280&ap=...				download image of a mansion - Google Search	2
61	https://www.google.com/search?q=download+image+of+manson+house&asv=32x5509f5ced2&idm=2&blw=1555&bih=724&asv=1013280&ap=...				download image of a mansion - Google Search	3
62	https://www.google.com/search?q=download+image+of+manson+house&asv=32x5509f5ced2&idm=2&blw=1555&bih=724&asv=1013280&ap=...				download image of a mansion - Google Search	4
63	https://www.keepersecurity.com/blog/2023/12/07/what-to-do-if-your-credit-card-information-is-on-the-dark-web/				What To Do If Your Credit Card Information is on the Dark Web	1
64	https://www.locknorton.com/learn/internet-security/dark-web-websites?srsltid=AfmBOoovN840kx1386&q=dark-web-websites&pg=2&asv=1013280&ap=...				Dark web websites: How to access them safely - Luf	1
65	https://www.locknorton.com/learn/internet-security/dark-web-websites?srsltid=AfmBOoovN840kx1386&q=dark-web-websites&pg=2&asv=1013280&ap=...				Dark web websites: How to access them safely - Luf	2
66	https://www.google.com/search?q=how-to-securely-store-customer-credit-card-inform...				How to securely store customer credit card information	1
67	https://www.sandersons.co.uk/blog/how-to-securely-store-customer-credit-card-inform...				How to securely store customer credit card information	2
68	https://www.sandersons.co.uk/blog/how-to-securely-store-customer-credit-card-inform...				How to securely store customer credit card information	3
69	https://www.sandersons.co.uk/blog/how-to-securely-store-customer-credit-card-inform...				How to securely store customer credit card information	4
70	https://www.sandersons.co.uk/blog/how-to-securely-store-customer-credit-card-inform...				How to securely store customer credit card information	5

23:00 17-03-2025

Evidence of six excel sheets with card details which was found in documents folder

/img_Suspect_Hard_Drive_Image.dd\vol\Users\georg\Documents

Name	Size	Location	Modified Time	Change Time	Access Time
Credit_cards.csv	29589	/img_Suspect_Hard_Drive_Image.dd\vol\Users\g...	2024-12-16 20:16:29 GMT	2024-12-16 20:16:29 GMT	2024-12-16 20:14:30 GMT
Credit_cards2.xlsx	17511	/img_Suspect_Hard_Drive_Image.dd\vol\Users\g...	2024-12-17 19:30:32 GMT	2024-12-17 19:30:32 GMT	2024-12-18 11:32:43 GMT
Credit_cards3.xlsx	17475	/img_Suspect_Hard_Drive_Image.dd\vol\Users\g...	2024-12-17 19:32:04 GMT	2024-12-17 19:32:04 GMT	2024-12-17 19:32:25 GMT
Credit_cards4.xlsx	17463	/img_Suspect_Hard_Drive_Image.dd\vol\Users\g...	2024-12-17 19:35:09 GMT	2024-12-17 19:35:10 GMT	2024-12-17 19:35:11 GMT
Credit_cards5.xlsx	17945	/img_Suspect_Hard_Drive_Image.dd\vol\Users\g...	2024-12-17 19:36:34 GMT	2024-12-17 19:36:34 GMT	2024-12-17 19:36:35 GMT
Credit_cards6.xlsx	22369	/img_Suspect_Hard_Drive_Image.dd\vol\Users\g...	2024-12-17 19:37:12 GMT	2024-12-17 19:37:12 GMT	2024-12-17 19:38:51 GMT

Page: 1 of 1 - Page Matches on page: - of - Match 100% Reset

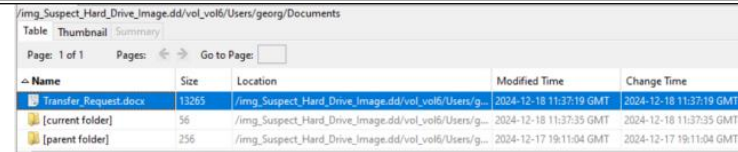
Credit_cards					
Card Type	Card Number	CVV	Expiration	Date of Birth	
Discover	6725922527326990	801	Mar-25	3/29/63	
Amex	339835437814842	405	Apr-27	8/3/95	
MasterCard	5003157401062980	630	Nov-26	6/16/88	
MasterCard	5145290906867860	617	Apr-29	4/10/60	
MasterCard	5965999529461370	397	Nov-25	9/18/36	
MasterCard	5580915152260140	240	May-28	9/2/67	
Amex	344186636954390	918	Jan-24	4/22/45	
Visa	4263958568836580	354	Nov-28	9/27/34	
Discover	6100105188103500	241	Jan-25	7/8/45	
Amex	392073991313292	507	Jan-27	6/28/39	
Discover	6008544390505500	586	Sept-24	5/2/69	
Discover	6677291541887230	610	May-28	10/24/42	
Amex	311711696409085	940	Jan-26	3/27/50	
MasterCard	5594389455767720	619	Nov-30	8/2/53	
Visa	4328419482277700	537	Mar-30	9/9/87	
MasterCard	5175619105480550	200	May-30	10/7/34	

Page: 1 of 1 - Page Matches on page: - of - Match 100% Reset

Credit_cards					
Card Type	Card Number	CVV	Expiration	Date of Birth	
MasterCard	5972823742636740	166	Apr-25	1/23/41	
Visa	4533249729670350	355	Jun-27	7/25/57	
Visa	4360930575815540	383	Apr-27	4/20/53	
Amex	361209858206482	776	Aug-29	6/9/68	
Visa	4885711528443560	620	Jan-28	4/25/77	
Amex	399987953712440	23	Oct-27	7/30/98	
MasterCard	5311559683341300	347	Dec-24	6/1/84	
Amex	388120311026283	872	Sept-29	1/2/82	
Visa	4598918367057070	654	May-24	9/17/49	
Visa	4823281682615270	379	Feb-25	9/14/76	
MasterCard	5877007410838050	221	Sept-27	11/6/71	
Discover	6759730132211210	548	Jun-27	6/22/80	
Visa	4410932167189040	736	Sept-24	2/22/06	
MasterCard	5605029916103950	144	Feb-25	9/14/66	
Visa	4170531555033180	55	Sept-26	9/20/62	
Amex	325604989760657	427	Feb-29	10/14/62	

11:00 18-03-2025

Evidence of Transfer request for funds by George was found in Document folder



Name	Size	Location	Modified Time	Change Time
Transfer_Request.docx	13265	/img_Suspect_Hard_Drive_Image.dd/vol_vo16/Users/g...	2024-12-18 11:37:19 GMT	2024-12-18 11:37:19 GMT
[current folder]	56	/img_Suspect_Hard_Drive_Image.dd/vol_vo16/Users/g...	2024-12-18 11:37:35 GMT	2024-12-18 11:37:35 GMT
[parent folder]	256	/img_Suspect_Hard_Drive_Image.dd/vol_vo16/Users/g...	2024-12-17 19:11:04 GMT	2024-12-17 19:11:04 GMT

American Express
17/12/2024

Request for Change in Account Information / Transfer of Funds

To Whom It May Concern,

I John Wright, am writing to update my account information and request a fund transfer for urgent personal reasons. Please update the following details associated with my account and process the transfer at the earliest convenience:

Account Details:
Account Holder Name: John Wright
Account Number: 339835437814842
New Contact Details: 392073991313292

Email: georgebenard2024@outlook.com
Fund Transfer Request: Please transfer the amount of £3,000 from my account to the following account:

Account Details:
Account Holder Name: John Wright
Account Number: 339835437814842
New Contact Details: 392073991313292

Email: georgebenard2024@outlook.com
Fund Transfer Request: Please transfer the amount of £3,000 from my account to the following account:

Account Name: George Benard
Account Number: 392073991313292
Reason for Transfer: Urgent medical expenses

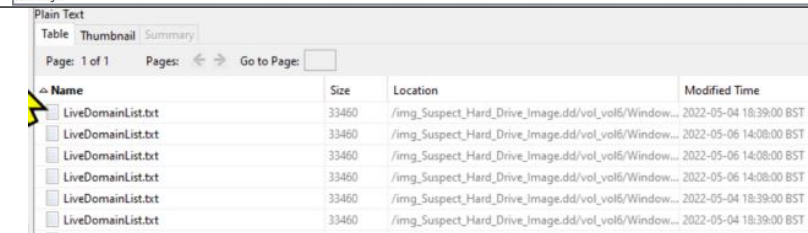
I have attached a copy of my identification for verification. Please confirm once the transfer has been completed. Should you require any further clarification, you can reach me at my updated contact details above.

Thank you for your prompt attention to this matter.

Sincerely,
IWT
John Wright

11:30 18-03-2025

List of Domain names are found in Plain text folder which indicate domains Gorge has access




Name	Size	Location	Modified Time
LiveDomainList.txt	33460	/img_Suspect_Hard_Drive_Image.dd/vol_vo16/Window...	2022-05-04 18:39:00 BST
LiveDomainList.txt	33460	/img_Suspect_Hard_Drive_Image.dd/vol_vo16/Window...	2022-05-06 14:08:00 BST
LiveDomainList.txt	33460	/img_Suspect_Hard_Drive_Image.dd/vol_vo16/Window...	2022-05-06 14:08:00 BST
LiveDomainList.txt	33460	/img_Suspect_Hard_Drive_Image.dd/vol_vo16/Window...	2022-05-06 14:08:00 BST
LiveDomainList.txt	33460	/img_Suspect_Hard_Drive_Image.dd/vol_vo16/Window...	2022-05-04 18:39:00 BST
LiveDomainList.txt	33460	/img_Suspect_Hard_Drive_Image.dd/vol_vo16/Window...	2022-05-04 18:39:00 BST

		<div>Page: 1 of - Page <div>Matches on pag</div></div> <div>126.cn 127sou.org 1fm1.com 24.tc 2x1x.com 38.lv 5.am 518.at 5d6d.cn 66.tc 7bmail.com 7koma.com 8.am 8u8.com 9.cn 9ii.org aa.am aa.seu.edu.cn aabu.edu.jo adaghiyadag...</div>																																
12:18 18-03-2025	Outlook mail box has request to Naives bay command ranker are found in Plain text folder	<div>Plain Text</div> <div>Table Thumbnail Summary</div> <div>Page: 1 of 1 Pages: Go to Page:</div> <table><thead><tr><th>Name</th><th>Size</th><th>Location</th><th>Modified Time</th></tr></thead><tbody><tr><td>OutlookApptNaiveBayesCommandRanker.txt</td><td>247461</td><td>/img_Suspect_Hard_Drive_Image.dd/vol_vo6/Progra...</td><td>2023-03-18 18:22:58 GMT</td></tr><tr><td>OutlookCopilot.tpn.txt</td><td>1131</td><td>/img_Suspect_Hard_Drive_Image.dd/vol_vo6/Progra...</td><td>2024-12-16 20:13:02 GMT</td></tr><tr><td>OutlookMailNaiveBayesCommandRanker.txt</td><td>261141</td><td>/img_Suspect_Hard_Drive_Image.dd/vol_vo6/Progra...</td><td>2023-03-18 18:22:58 GMT</td></tr><tr><td>OutlookMailReadNaiveBayesCommandRanker.txt</td><td>229985</td><td>/img_Suspect_Hard_Drive_Image.dd/vol_vo6/Progra...</td><td>2023-03-18 18:22:58 GMT</td></tr><tr><td>OutlookMeetingReqReadNaiveBayesCommandRan</td><td>215605</td><td>/img_Suspect_Hard_Drive_Image.dd/vol_vo6/Progra...</td><td>2023-03-18 18:22:58 GMT</td></tr><tr><td>OutlookMeetingReqSendNaiveBayesCommandRan</td><td>205800</td><td>/img_Suspect_Hard_Drive_Image.dd/vol_vo6/Progra...</td><td>2023-03-18 18:22:58 GMT</td></tr><tr><td>OutlookNaiveBayesCommandRanker.txt</td><td>282016</td><td>/img_Suspect_Hard_Drive_Image.dd/vol_vo6/Progra...</td><td>2023-03-18 18:22:58 GMT</td></tr></tbody></table> <div>11111 27301_-2,315 6003,2,672 25481_4,162 2505,3,396 2619_-2,299 5598_-2,187 15489_-2,312 1679_-1,306 360,0,084 12546_-0,176 11496_-0,583 984_-0,473 11323_-1,533 1576_-2,640 attac 25481_5,310 attacg 27301_-2,315 6003,3,167 25481_4,663 2505,3,396 2619_-2,299 5598_-2,191 15489_-2,316 1679_-1,310 360,0,080 12546_-0,181 11496_-0,583 984_-0,456 11323_-1,534 1576_-2,645 attache 25481_5,740 2505,2,580 attache 25481_5,795 attachment 2617_3,807 attachments 478,3,861 718,5,744 11926,3,700 108,3,835 2521,4,287 109,4,051 3,4,233 2626,3,811 attacj 25481_5,326 attah 25481_5,684 attahc 25481_5,177 attat 25481_5,287 attatc 25481_5,158 attatch 25481_5,158 attc 25481_5,790 2505,2,585 attca 25481_4,901</div>	Name	Size	Location	Modified Time	OutlookApptNaiveBayesCommandRanker.txt	247461	/img_Suspect_Hard_Drive_Image.dd/vol_vo6/Progra...	2023-03-18 18:22:58 GMT	OutlookCopilot.tpn.txt	1131	/img_Suspect_Hard_Drive_Image.dd/vol_vo6/Progra...	2024-12-16 20:13:02 GMT	OutlookMailNaiveBayesCommandRanker.txt	261141	/img_Suspect_Hard_Drive_Image.dd/vol_vo6/Progra...	2023-03-18 18:22:58 GMT	OutlookMailReadNaiveBayesCommandRanker.txt	229985	/img_Suspect_Hard_Drive_Image.dd/vol_vo6/Progra...	2023-03-18 18:22:58 GMT	OutlookMeetingReqReadNaiveBayesCommandRan	215605	/img_Suspect_Hard_Drive_Image.dd/vol_vo6/Progra...	2023-03-18 18:22:58 GMT	OutlookMeetingReqSendNaiveBayesCommandRan	205800	/img_Suspect_Hard_Drive_Image.dd/vol_vo6/Progra...	2023-03-18 18:22:58 GMT	OutlookNaiveBayesCommandRanker.txt	282016	/img_Suspect_Hard_Drive_Image.dd/vol_vo6/Progra...	2023-03-18 18:22:58 GMT
Name	Size	Location	Modified Time																															
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OutlookMeetingReqReadNaiveBayesCommandRan	215605	/img_Suspect_Hard_Drive_Image.dd/vol_vo6/Progra...	2023-03-18 18:22:58 GMT																															
OutlookMeetingReqSendNaiveBayesCommandRan	205800	/img_Suspect_Hard_Drive_Image.dd/vol_vo6/Progra...	2023-03-18 18:22:58 GMT																															
OutlookNaiveBayesCommandRanker.txt	282016	/img_Suspect_Hard_Drive_Image.dd/vol_vo6/Progra...	2023-03-18 18:22:58 GMT																															

13:26 18-03-2025

Different type of Card names file was found under Plain text folder ,which can be use for selecting different cards on payment page

Plain Text

Table	Thumbnail	Summary		
Page: 1 of 1 Pages: Go to Page: <input type="text"/>				
▲ Name	Size	Location	Modified Time	Change Time
 card_terms_dict.txt	5182	/img_Suspect_Hard_Drive_Image.dd/vol_voib/Progra...	2023-03-18 18:23:03 GMT	2024-12-17 18:09:56 GMT

acct nbr

acct num

acct no

american express

americanexpress

americano espresso

amex

atm card

atm cards

atm kaart

atmcard

atmcards

atmkaart

atmkaarten

happentest

cirrus

cirrus-edc-maestro

controlekaart

controlekaarten

credit card

credit cards

creditcard

creditcards

debetkaart

debetkaarten

debit card

debit cards

debitcard

debitcards




debito automatico

diners club

14:00 18-03-2025

Password file was found in Documents folder under Plain text which can be use as any file passwords

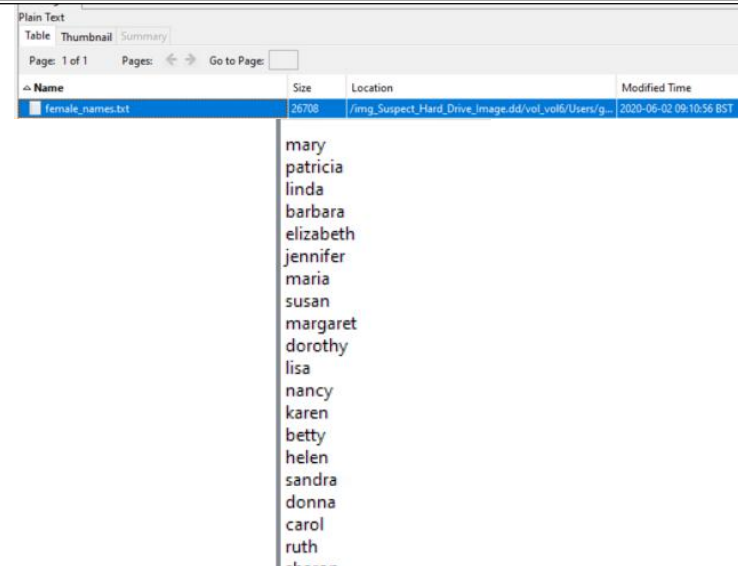
Plain Text

Table	Thumbnail	Summary			
Page: 1 of 1		Pages:  	Go to Page: <input type="text"/>		
Name	Size	Location	Modified Time	Change Time	Access Time
 passwords.txt	241951	/img_Suspect_Hard_Drive_Image.dd/vol_voib/Users/g...	2020-06-02 09:10:58 BST	2024-11-29 18:10:57 GMT	2024-11-29 18:10:57 GMT

123456
password
12345678
qwerty
123456789
12345
1234
111111
1234567
dragon
123123
baseball
abc123
football
monkey
letmein
shadow
master
696969

14:39 18-03-2025

Female names file was found in under Plain text folder which can be use as username in card details



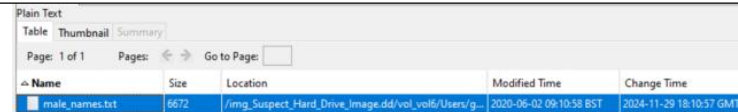
The screenshot shows a file explorer window titled 'Plain Text'. It displays a table with columns: Name, Size, Location, and Modified Time. The file 'female_names.txt' is selected, showing a size of 26708 bytes and a location of '/img_Suspect_Hard_Drive_Image.dd/vol_vol6/Users/g...'. The content of the file is displayed as a list of female names: mary, patricia, linda, barbara, elizabeth, jennifer, maria, susan, margaret, dorothy, lisa, nancy, karen, betty, helen, sandra, donna, carol, ruth, and sharon.

Name	Size	Location	Modified Time
female_names.txt	26708	/img_Suspect_Hard_Drive_Image.dd/vol_vol6/Users/g...	2020-06-02 09:10:36 BST

mary
patricia
linda
barbara
elizabeth
jennifer
maria
susan
margaret
dorothy
lisa
nancy
karen
betty
helen
sandra
donna
carol
ruth
sharon

14:40 18-03-2025

Male names file was found in under Plain text folder which can be use as username in card details



The screenshot shows a file explorer window titled 'Plain Text'. It displays a table with columns: Name, Size, Location, Modified Time, and Change Time. The file 'male_names.txt' is selected, showing a size of 6672 bytes and a location of '/img_Suspect_Hard_Drive_Image.dd/vol_vol6/Users/g...'. The modified time is 2020-06-02 09:10:58 BST and the change time is 2024-11-29 18:10:37 GMT.

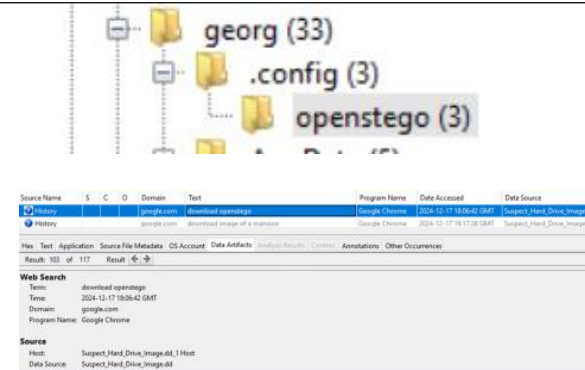
Name	Size	Location	Modified Time	Change Time
male_names.txt	6672	/img_Suspect_Hard_Drive_Image.dd/vol_vol6/Users/g...	2020-06-02 09:10:58 BST	2024-11-29 18:10:37 GMT

		<div>james john robert michael william david richard charles joseph thomas christopher daniel paul mark donald george kenneth steven edward bruce</div>																					
14:50 18-03-2025	Surname names file was found in under Plain text folder which can be use as username in card details	<table><tr><th>Name</th><th>Modified Time</th><th>S</th><th>C</th><th>O</th><th>Change Time</th><th>Access Time</th></tr><tr><td>ssn_high_group_info.txt</td><td>2023-03-18 18:23:03 GMT</td><td></td><td></td><td></td><td>2024-12-17 18:09:56 GMT</td><td>2024-12-18 11:46:54 GMT</td></tr><tr><td>surnames.txt</td><td>2020-06-02 09:11:00 BST</td><td></td><td></td><td></td><td>2024-11-29 18:10:57 GMT</td><td>2024-11-29 18:10:57 GMT</td></tr></table>	Name	Modified Time	S	C	O	Change Time	Access Time	ssn_high_group_info.txt	2023-03-18 18:23:03 GMT				2024-12-17 18:09:56 GMT	2024-12-18 11:46:54 GMT	surnames.txt	2020-06-02 09:11:00 BST				2024-11-29 18:10:57 GMT	2024-11-29 18:10:57 GMT
Name	Modified Time	S	C	O	Change Time	Access Time																	
ssn_high_group_info.txt	2023-03-18 18:23:03 GMT				2024-12-17 18:09:56 GMT	2024-12-18 11:46:54 GMT																	
surnames.txt	2020-06-02 09:11:00 BST				2024-11-29 18:10:57 GMT	2024-11-29 18:10:57 GMT																	

		<div><div>HexTextApplicationFile M</div><div>StringsExtracted TextTranslat</div><div>Page: 1 of - Page<→M</div><div>hightower feldman epps yeager posey scruggs cope stubbs richey overton trotter sprague cordero butcher stiles burgos woodson horner</div></div>																																																																																														
15:15 18-03-2025	SLOVSAMP.XLS file found in Office folder has financial data about the unit sold , sales revenue	<div><div>Office</div><div>TableThumbnailSummary</div><div>Page: 1 of 1Pages: <→Go to Page:</div><div><table><thead><tr><th>Name</th><th>Size</th><th>Location</th><th>Modified Time</th><th>Change Time</th></tr></thead><tbody><tr><td>SLOVSAMP.XLS</td><td>110794</td><td>/img_Suspect_Hard_Drive_Image.dif-vol-yoffi-Progra...</td><td>2023-03-18 18:23:11 GMT</td><td>2024-12-17 18:09:57 GMT</td></tr></tbody></table></div><div><div>Quick Tour</div><div><div>Quick Tour of Microsoft Excel Solver</div><table><thead><tr><th>Month</th><th>Q1</th><th>Q2</th><th>Q3</th><th>Q4</th><th>Total</th></tr></thead><tbody><tr><td>Seasonality</td><td>0.9</td><td>1.1</td><td>0.8</td><td>1.2</td><td></td></tr><tr><td>Units Sold</td><td>3,582</td><td>4,390</td><td>3,192</td><td>4,789</td><td>15,962</td></tr><tr><td>Sales Revenue</td><td>\$143,662</td><td>\$175,587</td><td>\$127,702</td><td>\$191,549</td><td>\$638,498</td></tr><tr><td>Cost of Sales</td><td>\$9,789</td><td>\$10,742</td><td>\$7,812</td><td>\$10,718</td><td>\$39,061</td></tr><tr><td>Gross Margin</td><td>\$133,873</td><td>\$164,845</td><td>\$119,890</td><td>\$180,831</td><td>\$599,437</td></tr><tr><td>Salesforce</td><td>\$8,000</td><td>\$8,000</td><td>\$8,000</td><td>\$8,000</td><td>\$32,000</td></tr><tr><td>Advertising</td><td>\$10,000</td><td>\$10,000</td><td>\$10,000</td><td>\$10,000</td><td>\$40,000</td></tr><tr><td>Corp Overhead</td><td>\$21,540</td><td>\$21,540</td><td>\$21,540</td><td>\$21,540</td><td>\$85,160</td></tr><tr><td>Total Costs</td><td>\$39,540</td><td>\$41,080</td><td>\$30,540</td><td>\$40,540</td><td>\$151,700</td></tr><tr><td>Prod. Profit</td><td>\$14,324</td><td>\$21,507</td><td>\$9,732</td><td>\$24,099</td><td>\$69,662</td></tr><tr><td>Profit Margin</td><td>10%</td><td>12%</td><td>8%</td><td>13%</td><td>11%</td></tr><tr><td>Product Price</td><td>\$40.00</td><td></td><td></td><td></td><td></td></tr><tr><td>Product Cost</td><td>\$25.00</td><td></td><td></td><td></td><td></td></tr></tbody></table><div><div>Color Coding</div><div>Target cell</div><div>Changing cells</div><div>Constraints</div></div></div><div>The following examples show you how to work with the model above to solve for one value or several values to maximize or minimize another value, enter and change constraints, and save a problem model.</div></div></div>	Name	Size	Location	Modified Time	Change Time	SLOVSAMP.XLS	110794	/img_Suspect_Hard_Drive_Image.dif-vol-yoffi-Progra...	2023-03-18 18:23:11 GMT	2024-12-17 18:09:57 GMT	Month	Q1	Q2	Q3	Q4	Total	Seasonality	0.9	1.1	0.8	1.2		Units Sold	3,582	4,390	3,192	4,789	15,962	Sales Revenue	\$143,662	\$175,587	\$127,702	\$191,549	\$638,498	Cost of Sales	\$9,789	\$10,742	\$7,812	\$10,718	\$39,061	Gross Margin	\$133,873	\$164,845	\$119,890	\$180,831	\$599,437	Salesforce	\$8,000	\$8,000	\$8,000	\$8,000	\$32,000	Advertising	\$10,000	\$10,000	\$10,000	\$10,000	\$40,000	Corp Overhead	\$21,540	\$21,540	\$21,540	\$21,540	\$85,160	Total Costs	\$39,540	\$41,080	\$30,540	\$40,540	\$151,700	Prod. Profit	\$14,324	\$21,507	\$9,732	\$24,099	\$69,662	Profit Margin	10%	12%	8%	13%	11%	Product Price	\$40.00					Product Cost	\$25.00				
Name	Size	Location	Modified Time	Change Time																																																																																												
SLOVSAMP.XLS	110794	/img_Suspect_Hard_Drive_Image.dif-vol-yoffi-Progra...	2023-03-18 18:23:11 GMT	2024-12-17 18:09:57 GMT																																																																																												
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Gross Margin	\$133,873	\$164,845	\$119,890	\$180,831	\$599,437																																																																																											
Salesforce	\$8,000	\$8,000	\$8,000	\$8,000	\$32,000																																																																																											
Advertising	\$10,000	\$10,000	\$10,000	\$10,000	\$40,000																																																																																											
Corp Overhead	\$21,540	\$21,540	\$21,540	\$21,540	\$85,160																																																																																											
Total Costs	\$39,540	\$41,080	\$30,540	\$40,540	\$151,700																																																																																											
Prod. Profit	\$14,324	\$21,507	\$9,732	\$24,099	\$69,662																																																																																											
Profit Margin	10%	12%	8%	13%	11%																																																																																											
Product Price	\$40.00																																																																																															
Product Cost	\$25.00																																																																																															

15:50 18-03-2025

Openstego file was found
in .config and web history of
download



44 <https://www.openstego.com/> OpenStego

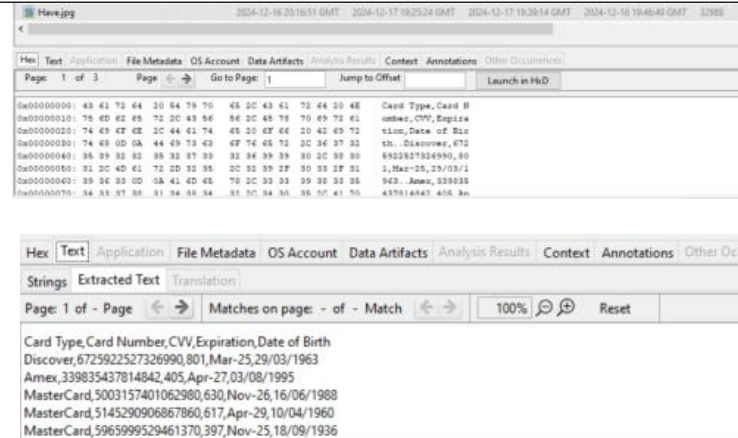
45 https://download.cnet.com/openstego/3000-12511_4-75806477.html OpenStego for Windows - Free download and software review...

46 https://download.cnet.com/download/openstego/3000-12511_4-75806477.html OpenStego for Windows - Free download and software review...

16:15 18-03-2025

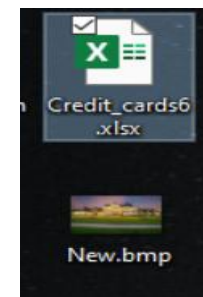
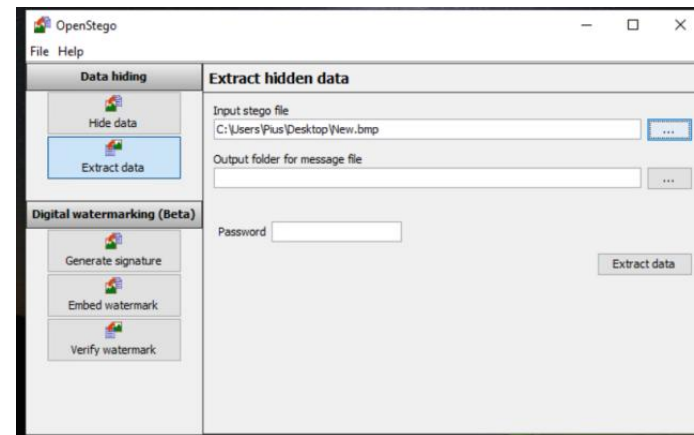
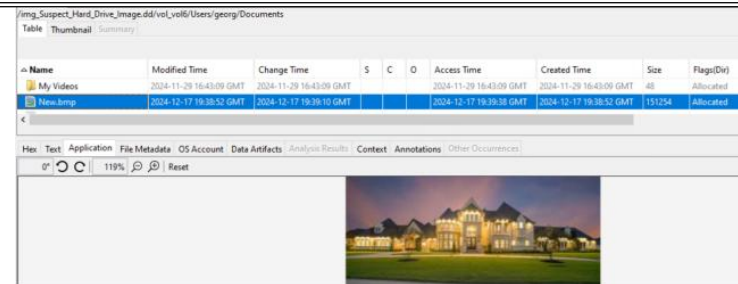
Image Have.jpg is image file
but its hex value is different
and size of file is also more

When click on text tab the file
contain the card details
as seen image



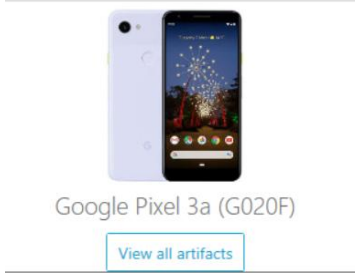
17:15 18-03-2025

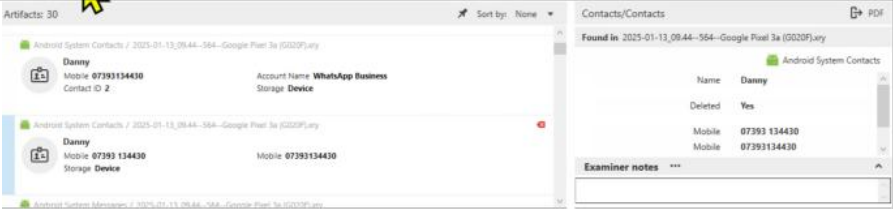
New.bmp when data was extracted from it using OpenStego tool , excel sheet with credit cards details where found



	A	B	C	D	E	F
1	Card Type	Card Number	CVV	Expiration Date	Date of Birth	
2	Discover	6075461977952940	155	May-24	26/04/1975	
3	Amex	383409061536789	991	Dec-26	22/05/2000	
4	MasterCard	5388815550183470	267	Nov-30	10/10/1974	
5	Discover	6834508773782740	833	Jan-28	11/05/1940	
6	MasterCard	5642097616886540	418	Apr-28	10/04/1984	
7	Visa	4723505268921230	776	Jun-25	28/09/1950	
8	Discover	6272248356248050	451	Jun-27	13/05/1951	
9	Visa	4885930111638090	693	Oct-28	07/08/1982	
10	Amex	301114226475752	258	Apr-28	19/10/1979	
11	MasterCard	5670045653939150	50	Apr-28	12/02/1944	
12	Discover	6754797358920520	351	Jul-24	12/06/1963	

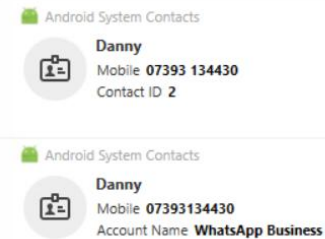
3.3. Table 5: This process show examine a suspect's *Mobile device analysis using Xamn tool* without altering the original data.

Date/time	Process	Evidence
22:36 22-03-2025	Open Xamn tool	
23:13 22-03-2025	Google Pixel 3a .xry file This are details of device.	 <p>Google Pixel 3a (G020F)</p> <p>View all artifacts</p>

		<p>DETAILS FOR: 2025-01-13_09.44--564--Google Pixel 3a (G020F).xry</p> <pre> Device Family Phone User rooted Yes Device Name Google Pixel 3a (G020F) Model Pixel 3a Manufacturer Code Name sargo Manufacturer google/Google Device Personal Name Pixel 3a SIM Status LOADED Network Code (from IMSI) 23415 Service Provider Name Vodafone Device Timezone Europe/London ----- Baseband Version sdm Android ID 90bd3e17d73fe233 Device Clock 13/01/2025 09:49:26 UTC Airplane Mode Enabled Bluetooth Address 88-54:1F:2E:EF:5E Device SDK version 32 Device OS version 12 Device Security Patch Level 2022-05-05 Revision 12/SP2A.220505.008 PC Clock 13/01/2025 09:49:30 UTC, GMT Standard Time Advertising ID c1a48ffe-65cc-4d4e-a86c-552ebf56aba0 ----- Device SDK version 32 Device OS version 12 Device Security Patch Level 2022-05-05 Revision SP2A.220505.008 Revision SP2A.220505.008 Device Personal Name Pixel 3a Android ID 90bd3e17d73fe233 Number +447990290495 Subscriber Id (IMSI) 234159550946778 Service Provider Name CARD Revision google/sargo/sargo:12/SP2A.220505.008/8782922:user/release-keys Revision 12 </pre>
23:16 22-03-2025	Evidence indicate Danny contact was deleted from contact list as they did cryptocurrency discussion.	 <p>The screenshot displays forensic analysis results. On the left, under 'Artifacts: 30', two entries for 'Danny' are listed with mobile numbers 07393134430 and contact ID 2. On the right, a 'Contacts/Contacts' window shows details for 'Found in: 2025-01-13_09.44--564--Google Pixel 3a (G020F).xry'. The contact 'Danny' is marked as 'Deleted: Yes' and has the same mobile number. An 'Examiner notes' field is also visible.</p>

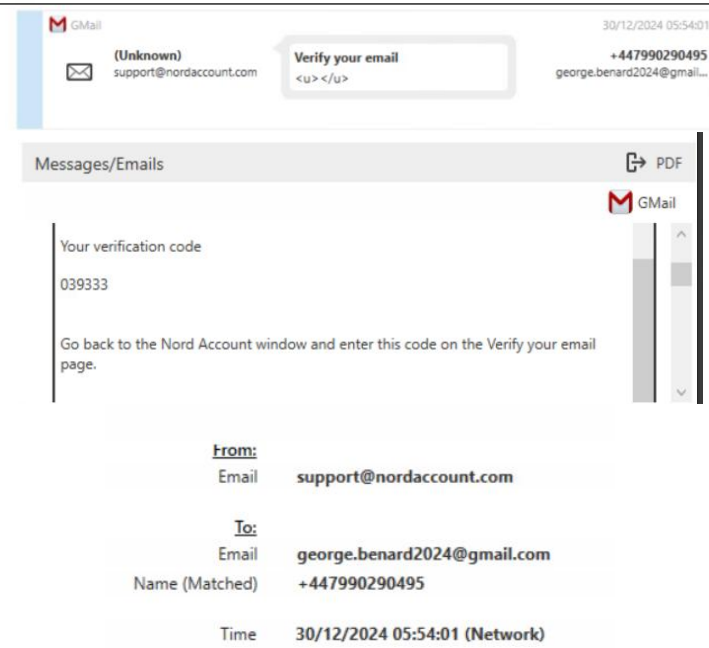
23:20 22-03-2025

Gorge contact list has only
Danny's number



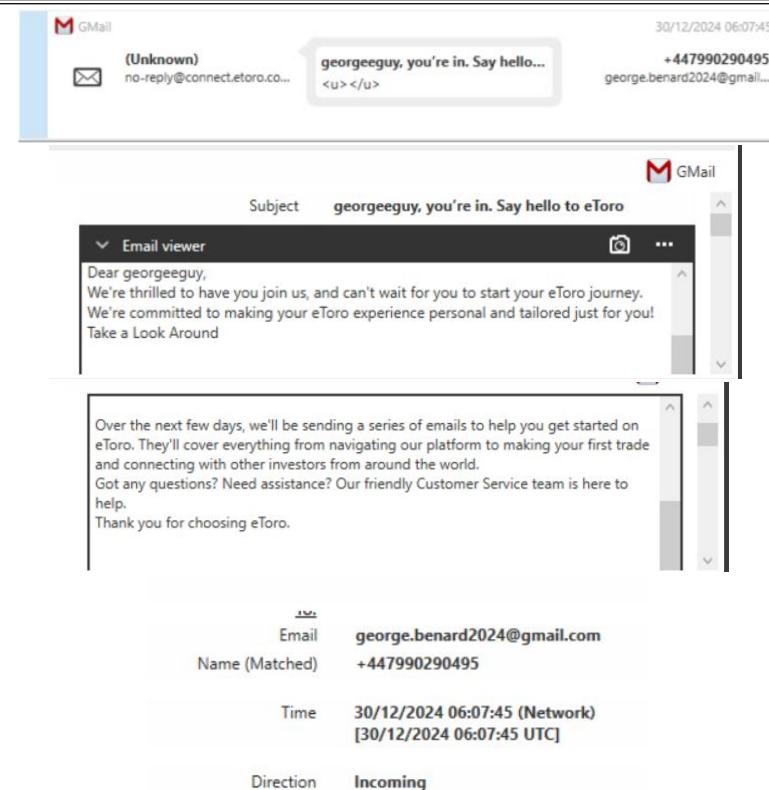
13:08 23-03-2025

Verification code of Nord VPN
on Gorge phone , downloaded
Nord VPN entries where found
in hard drive even to access the
dark web



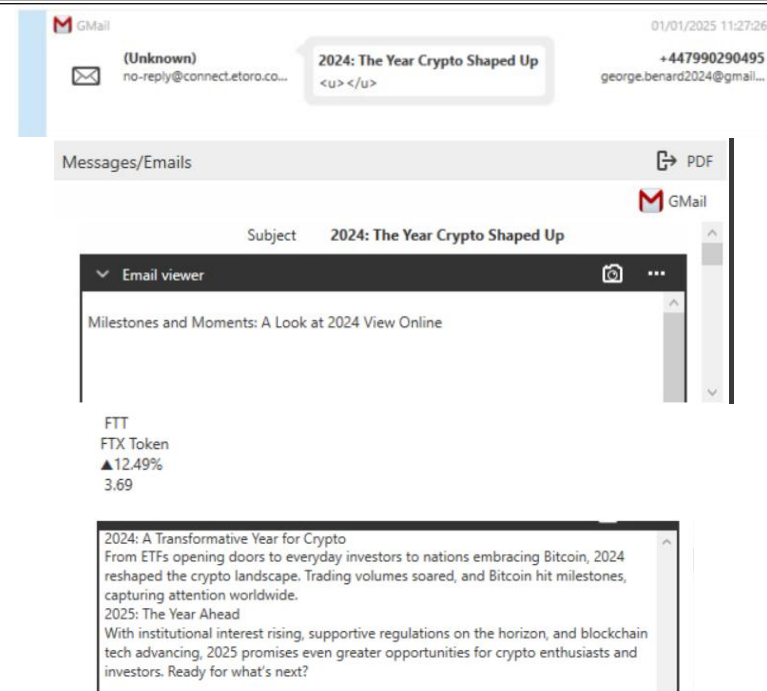
13:17 23-03-2025

In Messages we found George has created the eToro account which is used for trading in cryptocurrency



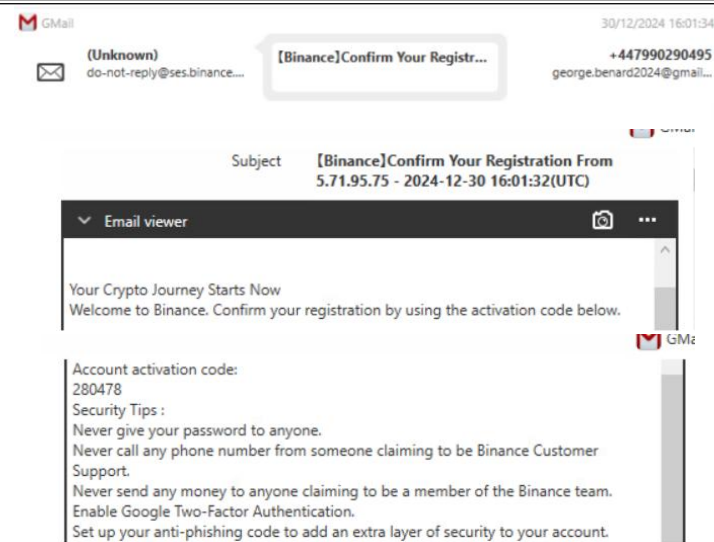
13:19 23-03-2025

In Messages folder we have found that email to George to invest in cryptocurrency trading



13:25 23-03-2025

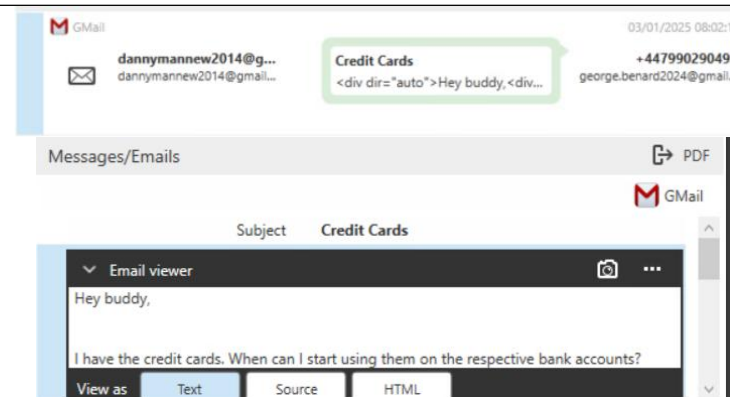
In Messages folder we have found that Gorge has registered account in world largest cryptocurrency exchange digital trading



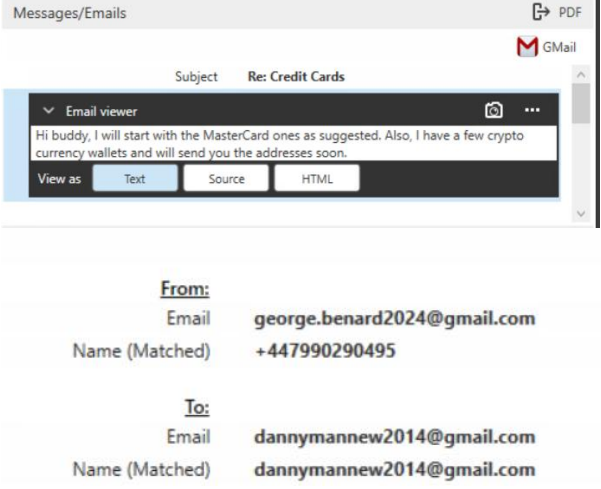
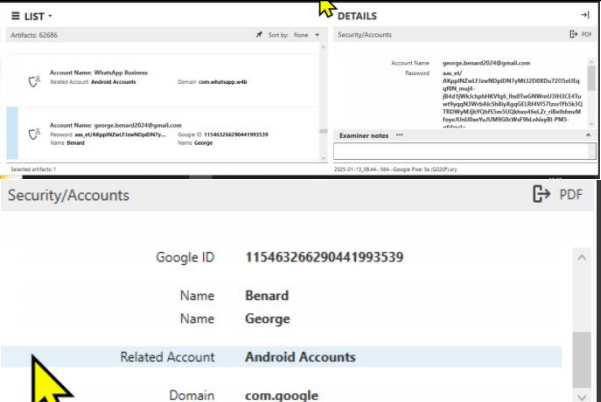
13:37 23-03-2025

Email from George has to Danny where George claim to have credit card.

This email where send on 2nd Jan 2025 but email id was wrong. Then on 3rd Jan, 2025 with proper email id of Danny , George has send mail.



		<div> <div>Messages/Emails</div> <div> <div> <div>PDF</div> <div>GMail</div> </div> <div> <div>From:</div> <div>Email</div> <div>Name (Matched)</div> </div> <div> <div>george.benard2024@gmail.com</div> <div>+447990290495</div> </div> </div> <div> <div>To:</div> <div>Email</div> <div>Name (Matched)</div> </div> <div> <div>dannymannew2014@gmail.com</div> <div>dannymannew2014@gmail.com</div> </div> </div>
--	--	---

		
13:50 23-03-2025	George password found in Android account Message folder	

		<div data-bbox="1176 247 1848 542"> <div>Security/Accounts PDF</div> <div> <p>TRDWyMjJbYQhFS5m5UQkx46eLZr_riBelhfmvMfoyeJU0xeYuJUM9G0cWsF9hLnhsyBI-PM5-q64pul=</p> <p>Google ID 115463266290441993539</p> <p>Name Benard</p> <p>Name George</p> <p>Examiner notes ***</p> </div> </div>
13:55 23-03-2025	Danny was in contact using whatsapp business.	<div data-bbox="1120 574 1904 845"> <div> <div>WhatsApp Business</div> <div> <div>Pius</div> <div> Display Name Danny WhatsApp ID 447393134430@s.whatsapp.net </div> <div> Tel: 07393134430 Status: Hey there! I am using WhatsApp. </div> </div> </div> <div> <div>WhatsApp Business</div> <div> <div>Pius</div> <div> 447393134430@s.whatsap... </div> <div> Hey, I hope you are doing well. This is the crypto wallet address... </div> </div> <div> <div>Danny</div> <div>447990290495@s.whatsap...</div> </div> <div>02/01/2025 18:20:35</div> </div> </div>

Danny is using crypto wallet to transfer the money

WhatsApp Business

Text

Hey. I hope you are doing well. This is the crypto wallet address I will use for the money transfer from the account.
bc1qze9qyvdxycmsmcdlg42g0rvjdcrpexsly3xfyw

From:

WhatsApp ID

447990290495@s.whatsapp.net

Name (Matched)

Danny

To:

WhatsApp ID

447393134430@s.whatsapp.net

Name (Matched)

Pius

Time

02/01/2025 18:20:35 (Network)
[02/01/2025 18:20:35 UTC]

Direction

Outgoing

Status

Delivered (Read)

14:18 23-03-2025

Found credit card phones in media folder

Chrome

embedded_PNG, 1 (Png) 2.08 KB
/data/data/com.android.chrome/cache/Cache_Data/bsa0f67d95232a
Image Width: 86 Image Height: 86

Chrome

embedded_PNG, 1 (Png) 8.57 KB
/data/data/com.android.chrome/cache/Cache_Data/9d0750ea0253330_0/
Image Width: 282 Image Height: 178

Artifacts: 62686 Sort by: None

Chrome

embedded_JPEG, 1 (Jpeg) 6.67 KB
/data/data/com.android.chrome/cache/Cache_Data/bd044bde058b31a_0/
Image Width: 225 Image Height: 225

Chrome

embedded_JPEG, 1 (Jpeg) 9.43 KB
/data/data/com.android.chrome/cache/Cache_Data/6c7ba4450e1cd03_0/
Image Width: 225 Image Height: 225

Related artifact: Files & media/Unrecognized

Chrome

Customer Name
0123 4567 8901 2345
01-23-45 12345678
01/23 123

Examiner notes Files & media/Pictures PDF

Related artifact: Files & media/Unrecognized

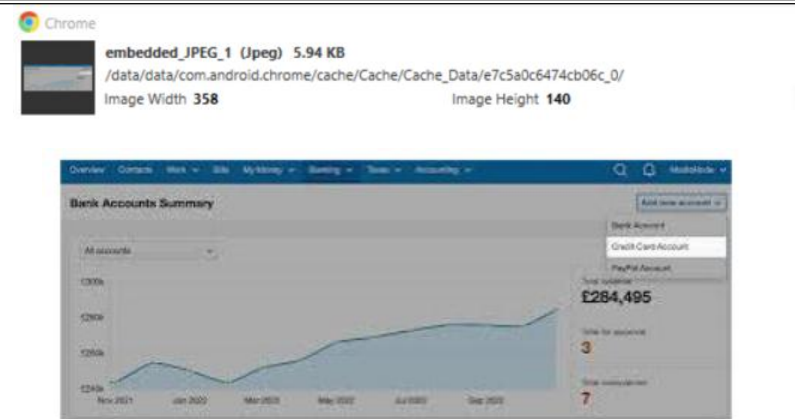
Chrome

Primary Account Number Codes
CREDIT CARD
6336 6736 3716 9918

Examiner notes

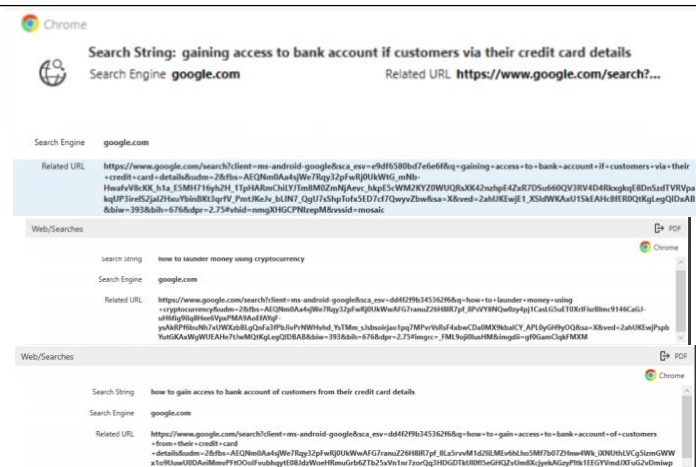
14:26 23-03-2025

Bank account summary details found in Media folder



14:42 23-03-2025

Chrome search history of Gaining access to bank account via credit cards

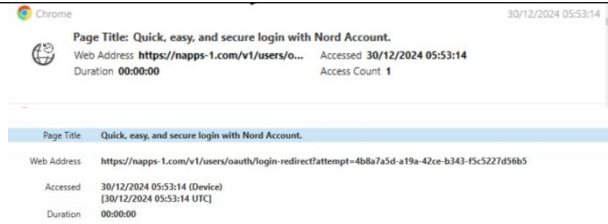
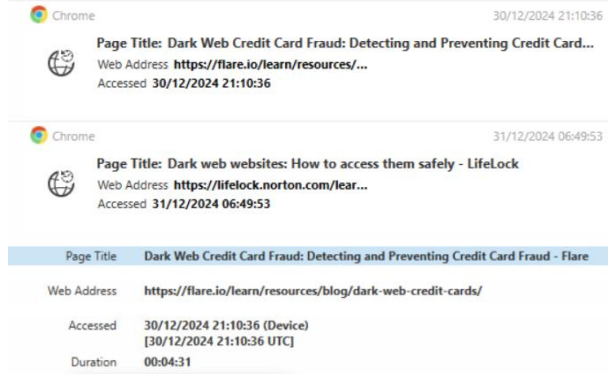
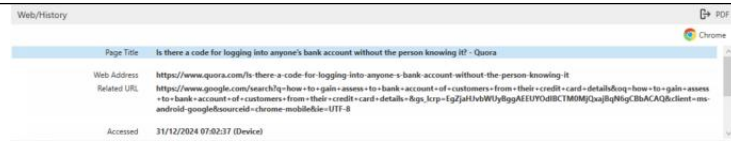



14:45 23-03-2025

Chrome search history of How to handle BidenCash fraud incident

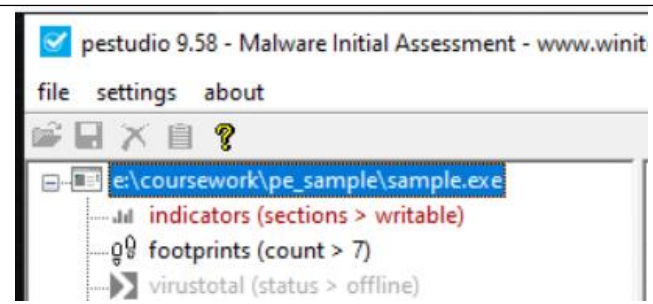


[illegible]

14:58 23-03-2025	Chrome search history of opening Nord account for using VPN	 <p>Chrome 30/12/2024 05:53:14</p> <p>Page Title: Quick, easy, and secure login with Nord Account. Web Address: https://napps-1.com/v1/users/o... Accessed 30/12/2024 05:53:14 Duration 00:00:00 Access Count 1</p> <hr/> <p>Page Title Quick, easy, and secure login with Nord Account.</p> <p>Web Address https://napps-1.com/v1/users/oauth/login-redirect?attempt=4b8a7a5d-a19a-42ce-b343-f5c5227d5665</p> <p>Accessed 30/12/2024 05:53:14 (Device) [30/12/2024 05:53:14 UTC]</p> <p>Duration 00:00:00</p>
15:00 23-03-2025	Chrome search history of Accessing Dark web for credit card fraud	 <p>Chrome 30/12/2024 21:10:36</p> <p>Page Title: Dark Web Credit Card Fraud: Detecting and Preventing Credit Card... Web Address: https://flare.io/learn/resources/... Accessed 30/12/2024 21:10:36</p> <hr/> <p>Chrome 31/12/2024 06:49:53</p> <p>Page Title: Dark web websites: How to access them safely - LifeLock Web Address: https://lifelock.norton.com/lear... Accessed 31/12/2024 06:49:53</p> <hr/> <p>Page Title Dark Web Credit Card Fraud: Detecting and Preventing Credit Card Fraud - Flare</p> <p>Web Address https://flare.io/learn/resources/blog/dark-web-credit-cards/</p> <p>Accessed 30/12/2024 21:10:36 (Device) [30/12/2024 21:10:36 UTC]</p> <p>Duration 00:04:31</p>
15:02 23-03-2025	Chrome search history of code to logging in anyone bank account	 <p>Web/History Chrome</p> <p>Page Title Is there a code for logging into anyone's bank account without the person knowing it? - Quora</p> <p>Web Address https://www.quora.com/Is-there-a-code-for-logging-into-anyone-s-bank-account-without-the-person-knowing-it</p> <p>Related URL https://www.google.com/search?q=how+to+gain+access+to+bank+account+of+customers+from+their+credit+card+details&how-to-gain+access+to+bank+account+of+customers+from+their+credit+card+details+figs_krpf-gp2jallhWUy8ggAEUYP0dBC1M0Mj2a3l8qNigCBbACAGbclent-ms-android-google&sourceid=chrome-mobile&ie=UTF-8</p> <p>Accessed 31/12/2024 07:02:37 (Device)</p>

15:20 23-03-2025	Message found money transfer by George to Danny	
------------------	---	---

3.4. Table 6: This process show performing the *Static analysis* on PE sample using *Pestudio tool*

Date/ time	Process	Evidence
21:00 23-03-2025	Open Pestudio	
21:05 23-03-2025	<p>Entropy is 7.776 which is very high.</p> <p>It indicate the data has been compressed, encrypted, or obfuscated.</p> <p>"4D 5A" value in the first-byte-hexadecimal and the "M Z" string in the first-byte-text, it confirms it is a portable executable file (.exe).</p>	

UPX, a popular packer for compression look like to have been used to pack the file.

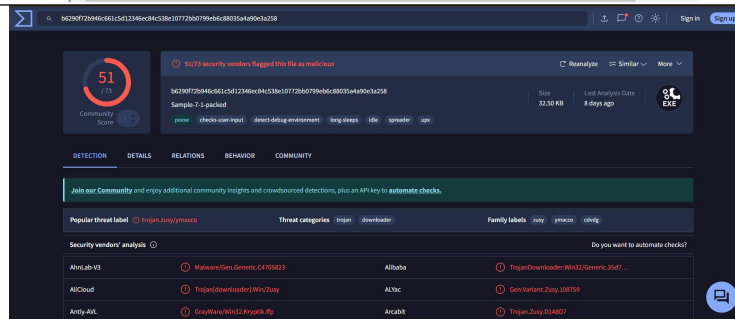
property	value
footprint > sha256	B6290F72B946C661C5D12346EC84C538E10772BB0799EB6C88035A4A90E3A258
first-bytes-hex	4D 5A 90 00 03 00 00 04 00 00 00 FF FF 00 00 B8 00
first-bytes-text	MZ
file > size	33280 bytes
entropy	7.776
signature	UPX -> www.upx.sourceforge.net
tooling	Visual Studio 2012
file-type	executable
cpu	32-bit
subsystem	console
file-version	n/a
description	n/a
stamps	
compiler-stamp	Wed Mar 13 17:23:39 2019 UTC
debug-stamp	n/a
resource-stamp	n/a
import-stamp	n/a
export-stamp	n/a

21:10 23-03-2025

Copy the hash code

Paste in Virus total

Family it below to is trojan.zusy/ymacco



Basic properties	
MD5	cc34848e4080071f65284923e2e891df
SHA-1	a0b464a392f8a96f80b235d98a73b63c42634943
SHA-256	b6290f72b946c661c5d12346ec84c538e10772bb0799eb6c88035a4a90e3a258
Vhash	03403e0ff1d1be4tz
Authenticityhash	263f1daa1e55219696a8eb5d6d02cd2b5e930b6e905e6973791ee90b673
Imphash	6ed4f504d62b18d96b26d6d57c18840
Rich PE header hash	737a1a96d2f11c223de6636d9da97
SSHEP	788yxTqRyCmdeQwA96oZEAuQFamfmh+1GT7HbyAICbdcQFh6GT-M201GK
TLSH	T18Bf2J6G7N7344E4C4D139D79E5D7295d0B84A0035A4A71B26fFA3C11E0F30B2A
File type	Win32 EXE (executable) (console) (GUI) (GUI) (GUI)
Magic	PE32 executable (console) Intel 80386, for MS Windows, UPX compressed
Trid	UPX compressed Win32 Executable (52.7%) Win32 Dynamic Link Library (generic) (12.8%) Win16 NE executable (generic) (9.8%) Win32 Executable (generic) (8.7%) ...
DetectItEasy	PE32 Packer: UPX (1.95) [NRV_best] Compiler: Microsoft Visual C/C++ (18.00.31101) [C] Linker: Microsoft Linker (12.00.31101) Tool: Visual Studio (2013)
Magika	PEBIN
File size	32.50 KB (33280 bytes)
PEID packer	UPX v0.89.6 - v1.02 / v1.05 - v1.24 -> Markus & Lasse [overlaid]

		<div data-bbox="1330 240 1639 604"> <p>Imports</p> <ul style="list-style-type: none"> KERNEL32.DLL <ul style="list-style-type: none"> ExitProcess GetProcAddress LoadLibraryA VirtualProtect </div>
21:20 23-03-2025	<p>Sections >> writable and self-modifying, a behavior commonly found in malware to evade detection.</p> <p>The file is UPX-packed (UPX0 UPX1 UPX2), often used to obfuscate malicious code.</p> <p>Kernel32.dll is imported, commonly used for system-level API calls, including process injection or privilege escalation.</p>	<div data-bbox="1216 608 1747 1023"> <p>pestudio 9.58 - Malware Initial Assessment - www.winitc</p> <p>file settings about</p> <p>e:\coursework\pe_sample\sample.exe</p> <ul style="list-style-type: none"> indicators (sections > writable) footprints (count > 7) virustotal (status > offline) dos-header (size > 64 bytes) dos-stub (size > 152 bytes) rich-header (tooling > Visual Studio 2013) file-header (executable > 32-bit) optional-header (subsystem > console) directories (count > 3) </div>

virtualization -> UPX0 suggests further obfuscation techniques

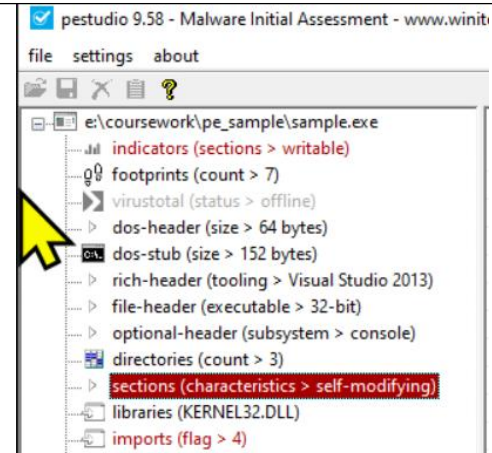
The checksum is 0x00000000, which may indicate tampering.

indicator (26)	detail	level
entry-point > location	0x00015910	+++++
sections > executable > count	2	+++++
sections > self-modifying	UPX0 UPX1	+++++
sections > virtualized	UPX0	++
sections > name > flag	UPX0 UPX1 UPX2	++
imports > flag	1	++
file > entropy	7.776	+
file > type	executable	+
file > cpu	32-bit	+
file > signature	UPX -> www.upx.sourceforge.net	+
file > sha256	B6290F72B946C661C5D12346EC84C338E10772B80799EB6C88035AAA90E...	+
file > size	33280 bytes	+
virustotal > error	The server name or address could not be resolved	+
rich-header > checksum	0x793F9DB0	+
rich-header > offset	0x00000080	+
rich-header > footprint	2B464DEF3D106A05172793C00348EF595CD89CE4B3E426233EB3B124F660...	+
file > tooling	Visual Studio 2012	+
file > compiler > stamp	Wed Mar 13 17:23:39 2019	+
file > checksum	0x00000000	+
file > subsystem	console	+
groups > API	dynamic-library execution memory	+
10772B80799EB6C88035AAA90E3A258	cpu: 32-bit file-type: executable subsystem: console entry: ...	

21:40 23-03-2025

Go to section

Section shows the file is UPX-packed (UPX0 | UPX1 | UPX2) with each entropy and dile-ratio and in which UPX1 entropy is very high



As seen in Characteristics UPX1 has all RWX rights UPX1 and UPX2 have execution permissions, meaning they will run code after unpacking.

property	value	value	value
section	section[0]	section[1]	section[2]
name	UPX0	UPX1	UPX2
footprint > sha256	n/a	FEB79B6CF8E1FAFA6475262...	09172766A98A36F360585199...
entropy	n/a	7.884	1.674
file-ratio (96.92%)	n/a	95.38 %	1.54 %
raw-address (begin)	0x00000400	0x00000400	0x00008000
raw-address (end)	0x00000400	0x00008000	0x00008200
raw-size (32256 bytes)	0x00000000 (0 bytes)	0x00007C00 (31744 bytes)	0x00000200 (512 bytes)
virtual-address	0x00001000	0x0000E000	0x00016000
virtual-size (90112 bytes)	0x0000D000 (53248 bytes)	0x00008000 (32768 bytes)	0x00001000 (4096 bytes)
characteristics	0xE0000080	0xE0000040	0xC0000040
write	x	x	x
execute	x	x	-
share	-	-	-
self-modifying	x	x	-
virtual	x	-	-
items			
directory > import	-	-	0x00016000

22:00 23-03-2025

Go to imports (flag > 4)
VirtualProtect (Process Injection - T1055)
Used to change memory protection (e.g., making code writable/executable).

LoadLibraryA & GetProcAddress (T1106 - Execution via API)
Malware can load additional malicious modules at runtime.

e:\coursework\pe_sample\sample.exe

indicators (sections > writable)

footprints (count > 7)

virustotal (status > offline)

dos-header (size > 64 bytes)

dos-stub (size > 152 bytes)

rich-header (tooling > Visual Studio 2013)

file-header (executable > 32-bit)

optional-header (subsystem > console)

directories (count > 3)

sections (characteristics > self-modifying)

libraries (KERNEL32.DLL)

imports (flag > 4)

exports (n/a)

imports (4)	flag (1)	first-thun...	first-thunk (IA)	hint	group (3)	technique (2)	type (2)	ordinal (1)	library (0)
VirtualProtect	x	n/a	0x00016075	0 (0x0000)	memory	T1055 Process Injection	implicit	-	KERNEL32.DLL
ExitProcess	-	n/a	0x0001604A	0 (0x0000)	execution	-	implicit	-	KERNEL32.DLL
LoadLibraryA	-	n/a	0x00016068	0 (0x0000)	dynamic library	T1106 Execution through API	implicit	-	KERNEL32.DLL
GetProcAddress	-	n/a	0x00016078	0 (0x0000)	dynamic library	-	implicit	-	KERNEL32.DLL

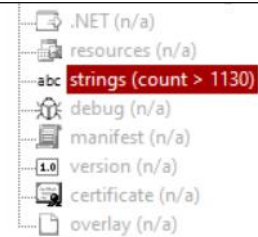
22:05 23-03-2025

VirtualProtect code injection (e.g., modifying memory permissions to execute injected shellcode).

ExitProcess → Execution Control
May indicate anti-analysis behavior terminating execution under specific conditions.

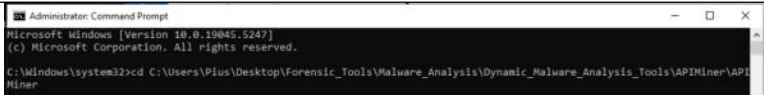
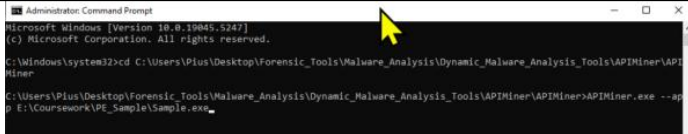
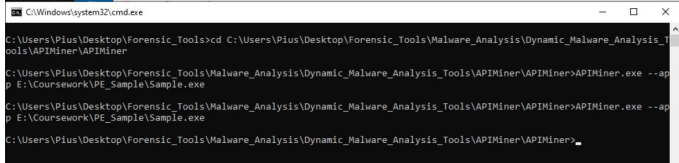
Sleep → (T1497 | Sandbox Evasion)
Could be delaying execution to evade detection in sandboxes.

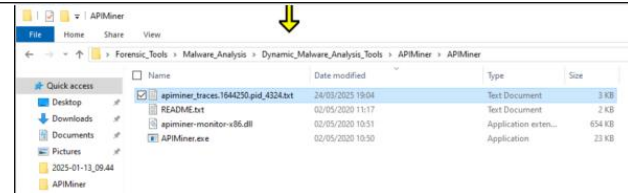
GetProcAddress & LoadLibrary → (T1106 | Execution through API)
Used for dynamically resolving function addresses (common in malware to hide API calls).



encoding (1)	size (bytes)	location	flag (1)	label (10)	group (3)	technique (3)
ascii	14	section:UPX2	x	import	memory	T1055 Process Injection
ascii	11	section:UPX2	-	import	execution	-
ascii	5	section:UPX1	-	-	execution	T1497 Sandbox Evasion
ascii	14	section:UPX2	-	import	dynamic-library	-
ascii	11	section:UPX2	-	import	dynamic-library	T1106 Execution through API
ascii	4	-	-	utility	-	-
ascii	4	-	-	utility	-	-

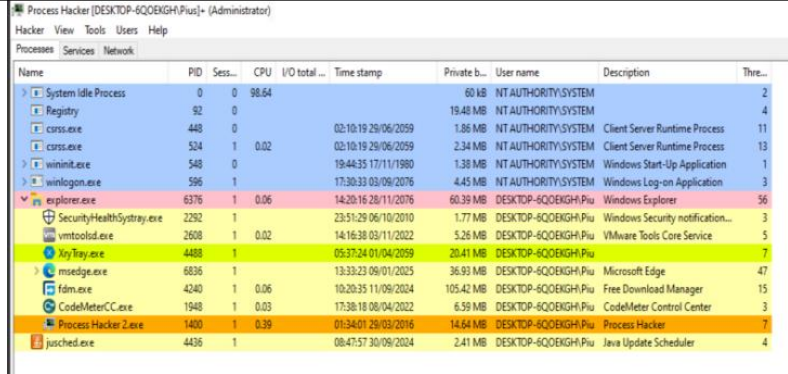

3.5. Table 7: This process show *Dynamic Analysis using API miner tool* examine a API calls without altering the original data.

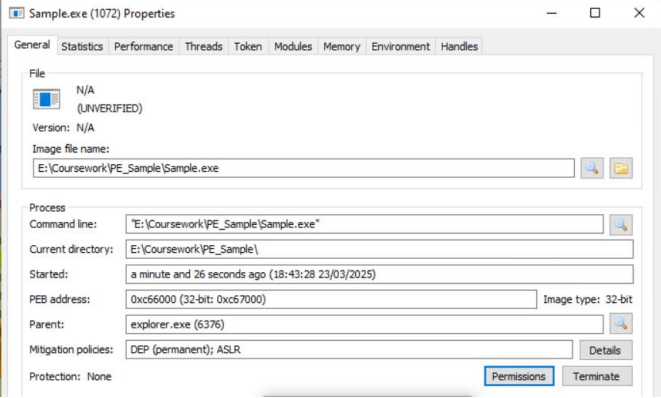
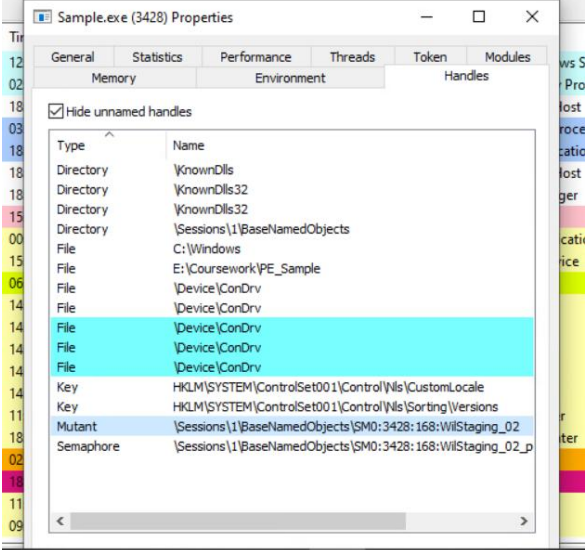
Date/ Time	Process	Evidence
19:00 24-03-2025	Open API Miner	
19:01 24-03-2025	Open CMD >> Run as administrator	
19:02 24-03-2025	Write below command cd C:\Users\Pius\Desktop\Forensic_Tools\Malware_Analysis\Dynamic_Malware_Analysis_tools\APIMiner\APIMiner Hit Enter	
19:05 24-03-2025	Write command APIMiner.exe --app E:\Coursework\PE_Sample\Sample.exe	
19:07 24-03-2025	Hit Enter Sample.exe file will run	

19:08 24-03-2025	Go to APIMiner apiminer_traces.1782031.pid_7416.txt is generated	
19:09 24-03-2025	Open file apiminer_traces.1782031.pid_7416.txt User can check the API logs	<pre>file 60 format view hex ...notification->0,0x00000000> _process_([time_in]100604822, [time_high]3127434, [pid]5576, [ppid]5448, [module_path]\"E:\Coursework\PE_Sample\Sample.exe\", [command_line]\"E:\Coursework\PE_Sample\Sample.exe\" *, [is_64bit]0, [track]1) ...notification->0,0x00000000> _action_([action]\"gatherer\") ...notification->0,0x00000000> _action_([action]\"gatherer\") ...file->0,0x00000000> _deviceIoControlFile([file_handle]0x00000000, [control_code]3242902) ...system->0,0x00000000> _drLoadDll([flags]0, [module_address]0x75480000, [module_name]\"kernel32.dll\", [base_name]\"kernel32\", [stack_pivoted]0) ...process->0,0x00000000> NtProtectVirtualMemory([process_handle]0xffffffff, [base_address]0x00190000, [length]0x00001000, [protection]4, [stack_pivoted]0, [stack_dep_bypass]0, [heap_dep_bypass]0, [process_identifier]5576) ...process->0,0x00000000> NtProtectVirtualMemory([process_handle]0xffffffff, [base_address]0x00190000, [length]0x00001000, [protection]2, [stack_pivoted]0, [stack_dep_bypass]0, [heap_dep_bypass]0, [process_identifier]5576) ...system->0,0x00000000> GetSystemModuleFile([module_address]0x75480000, [module_name]\"kernel32.dll\", [stack_pivoted]0) ...file->0,0x00000000> GetFileAttributes([file_handle]0x00000000) ...file->0,0x00000000> GetFileType([file_handle]0x00000000) ...file->0,0x00000000> GetFileType([file_handle]0x00000000) ...exception->0,0x00000000> SetExceptionFilter([exception_filter]0) ...system->0,0x00000000> NtDelayExecution([millisecodes]1215753192, [skipped]1) ...system->0,0x00000000> LdrGetDllModule([module_address]0x00000000, [module_name]\"microem.dll\", [stack_pivoted]0) ...process->0,0x00000000> NtTerminateProcess([process_handle]0x00000000, [status_code]0, [process_identifier]0) ...process->0,0x00000000> NtTerminateProcess([process_handle]0x00000000, [status_code]0, [process_identifier]0) ...system->0,0x00000000> NtClose([handle]0x00000000) ...system->0,0x00000000> NtClose([handle]0x00000000) ...system->0,0x00000000> NtClose([handle]0x00000000) ...process->0,0x00000000> NtTerminateProcess([process_handle]0xffffffff, [status_code]0, [process_identifier]5576)</pre>
19:12 24-03-2025	NtProtectVirtualMemory is used twice, modifying memory protections at base_address 0x00190000 with protection values 4 and 2. Changing memory protections can indicate code injection, unpacking, or evasion techniques.	<pre><process>-<0,0x00000000> NtProtectVirtualMemory([process_handle]0xffffffff, [base_address]0x00190000, [length]0x00001000, [protection]4, [stack_pivoted]0, [stack_dep_bypass]0, [heap_dep_bypass]0, [process_identifier]7416) <process>-<0,0x00000000> NtProtectVirtualMemory([process_handle]0xffffffff, [base_address]0x00190000, [length]0x00001000, [protection]2, [stack_pivoted]0, [stack_dep_bypass]0, [heap_dep_bypass]0, [process_identifier]7416) ...communication->0,0x00000000> GetSystemTimeAsFileTime()</pre>
19:15 24-03-2025	Multiple calls to NtTerminateProcess, potentially trying to evade analysis or terminate security tools.	<pre><process>-<0,0x00000000> NtTerminateProcess([process_handle]0x00000000, [status_code]0, [process_identifier]0) <process>-<0,0x00000000> NtTerminateProcess([process_handle]0x00000000, [status_code]0, [process_identifier]0) <system>-<0,0x00000000> NtClose([handle]0x00000000) <system>-<0,0x00000000> NtClose([handle]0x00000000) <system>-<0,0x00000000> NtClose([handle]0x00000000) <process>-<0,0x00000000> NtTerminateProcess([process_handle]0xffffffff, [status_code]0, [process_identifier]7416)</pre>

19:16 24-03-2025	LdrLoadDll loads KERNEL32.DLL, which is a standard Windows DLL but is commonly abused in process hollowing or DLL injection.	
19:20 24-03-2025	NtDeviceIoControlFile is seen with control code 5242902. This might be interacting with a driver, possibly indicating rootkit-like behavior.	<file>-<-1073282885,0xC00700B8> NtDeviceIoControlFile([file_handle]0x00000088, [control_code]5242902)
19:25 24-03-2025	GetFileType is used multiple times, likely checking for the existence of files before execution.	<file>-<2,0x00000002> GetFileType([file_handle]0x00000094) <file>-<2,0x00000002> GetFileType([file_handle]0x00000098) <file>-<2,0x00000002> GetFileType([file_handle]0x0000009C)

3.6. Table 8: This process show examine a *PE sample file* using *Process hacker tool* without altering the original data.

Date/ Time	Process	Evidence
20:05 24-03-2025	Open Process Hacker	
20:08 24-03-2025	Run file Sample.exe from E:\Coursework\PE_Sample folder	

20:10 24-03-2025	No verified signature	
21:15 24-03-2025	Double-click on sample.exe	
	Click on Handles Mutant are found in file	

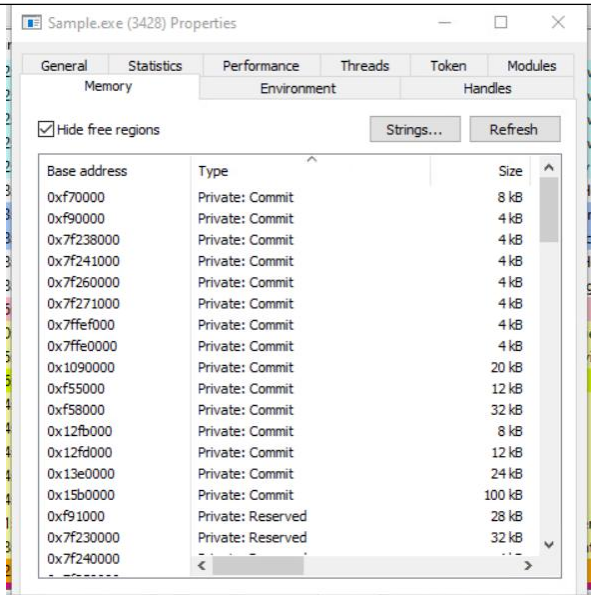
Mutant are object used by windows to ensure that only one instance of application is running at time

22:00 24-03-2025

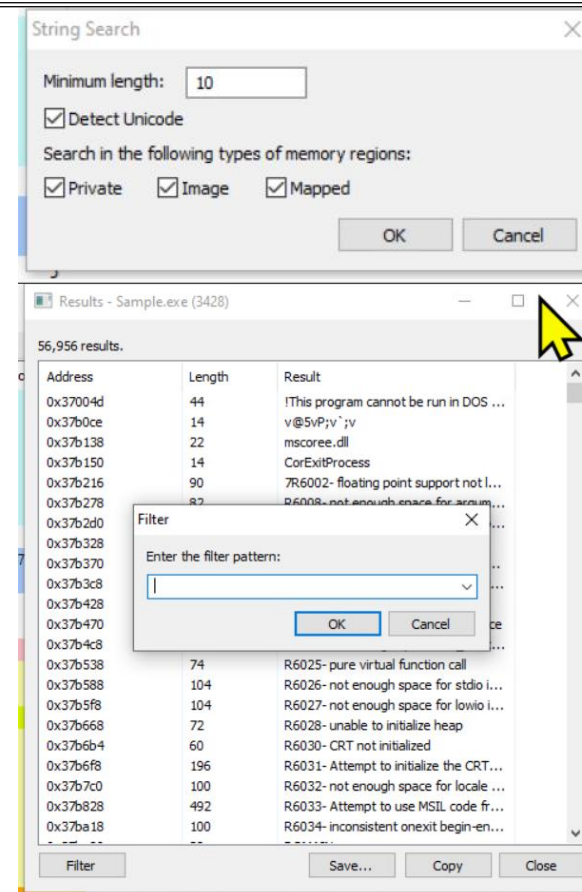
Click on memory>> strings

In string search select all

Filter the strings and try to find unusual strings and search on google about it



In this case no unusual string was found



4. Conclusion

Following are the conclusion drawn from forensic examination of each file.

- **Hard-drive:** Evidence found in George Bernard hard drive are files that had been purged from the recycle bin were restored, revealing critical data including credit card details, CVV codes, and personal identifiers. The use of privacy tools, Tor and NordVPN, indicated attempts to conceal online activities, while browsing history and downloads suggested the suspect engaged in cryptocurrency dealings and dark web surfing. The sophisticated methods of information concealment employed in this operation were further revealed by the presence of credit card information that had been steganographically encoded within image files.
- **Mobile Device :** Through the Xamn tool mobile device examination, several communications, as well as contacts alongside data, reaffirmed the suspect's active engagement in activities. Suspect's calls and messages gave the indication of coordinating with fellow named Danny with cryptocurrency trading and account setups on several trading platforms. Furthermore, the device was stored with images of several credit cards, and Chrome history pertaining to credit card scams. These results, in addition to corroborating the digital traces observed from the hard disk, also gave momentary views of the fraudulent activities and alliances the suspect was executing.
- **PE Sample :** The comprehensive analysis both static and dynamic of the suspicious PE executable confirmed it is indeed a malicious file whose nature is identified as a UPX-packed Trojan.Zusy. Employment of Pestudio and API Miner highlighted the presence of malware attributes which include, but are not limited to, high entropy values, self-modifying algorithms, code harvesting, and the application of obfuscation. The executable made use of Windows API functions related to sandbox evasion and code injection. Moreover, Process Hacker displayed active manipulation at the system level with Mutex objects, string memory, and other regions that are not available to public viewing which further strengthens the suspicion that the file was designed for stealthy persistence exploits of sensitive channels siphoning confidential financial information or maintain accessibility to compromised devices..

All forensic activities were conducted with the protocols of the relevant accepted practices and would withstand scrutiny for accuracy, reproducibility, and court admission.

5. Reference

- [1] ISO/IEC, Guidelines for digital evidence preservation, ISO/IEC 27037:2012, 2012.
- [2] NIST, Secure Hash Standard (SHS), FIPS PUB 180-4, 2015.
- [3] [5] B. Carrier, “Autopsy Digital Forensics Tool,” 2025. [Online]. Available: <https://www.autopsy.com/>. Accessed: Mar. 23, 2025.
- [4] MSAB, XAMN Forensic Software, 2025. [Online]. Available: <https://www.msab.com/products/xamn/>.
- [5] PeStudio, Malware Initial Assessment, 2025. [Online]. Available: <https://www.winitor.com/>.
- [6] MITRE, ATT&CK Framework: Process Injection (T1055), 2025. [Online]. Available: <https://attack.mitre.org/>.
- [7] APIMiner, Dynamic Analysis Documentation, 2025. [Online]. Available: <https://apiminer.com/docs>.

6. Appendix




Transfer request image

/img_Suspect_Hard_Drive_Image.dd/vol_vol6/Users/georg/Documents

Table

Thumbnail

Summary

△ Name	Modified Time	Change Time	S	C	O	Access Time
 Transfer_Request.docx	2024-12-18 11:37:19 GMT	2024-12-18 11:37:19 GMT				2024-12-18 11:37:38 GMT
 [current folder]	2024-12-18 11:37:35 GMT	2024-12-18 11:37:35 GMT				2025-01-02 10:47:41 GMT
 [parent folder]	2024-12-17 19:11:04 GMT	2024-12-17 19:11:04 GMT				2025-01-02 10:45:23 GMT

American Express
17/12/2024

Request for Change in Account Information / Transfer of Funds

To Whom It May Concern,

I, John Wright, am writing to update my account information and request a fund transfer for urgent personal reasons. Please update the following details associated with my account and process the transfer at the earliest convenience:

Account Details:
Account Holder Name: John Wright
Account Number: 339835437814842
New Contact Details: 392073991313292

Email: georgebenard2024@outlook.com
Fund Transfer Request: Please transfer the amount of £3,000 from my account to the following account:

Account Details:
Account Holder Name: John Wright
Account Number: 339835437814842
New Contact Details: 392073991313292

Email: georgebenard2024@outlook.com
Fund Transfer Request: Please transfer the amount of £3,000 from my account to the following account:

Account Name: George Bernard
Account Number: 392073991313292
Reason for Transfer: Urgent medical expenses

I have attached a copy of my identification for verification. Please confirm once the transfer has been completed. Should you require any further clarification, you can reach me at my updated contact details above.

Thank you for your prompt attention to this matter.

Sincerely,
IWT
John Wright

Stegno image

Listing

/img_Suspect_Hard_Drive_Image.dd/vol_v0l6/Users/georg/Documents

TableThumbnailSummary

Name	Modified Time	Change Time	S	C	O	Access Time	Created Time
Have.jpg	2024-12-16 20:16:51 GMT	2024-12-17 19:25:24 GMT				2024-12-17 19:39:14 GMT	2024-12-16 19:46:49 GMT

HexTextApplicationFile MetadataOS AccountData ArtifactsAnalysis ResultsContextAnnotationsOther Occurrences

Page: 1 of 3

Go to Page: 1

Jump to Offset:

Launch in HxD

0x00000000: 43 61 72 64 20 54 79 70 65 2C 43 61 72 64 20 4E	Card Type,Card N
0x00000010: 75 6D 62 65 72 2C 43 56 56 2C 45 78 70 69 72 61	umber,CVV,Expira
0x00000020: 74 69 6F 65 2C 44 61 74 65 20 6F 66 20 42 69 72	tion,Date of Bir
0x00000030: 74 68 0D 0A 44 69 73 63 6F 76 65 72 2C 36 37 32	th..Discover,672
0x00000040: 35 39 32 32 35 32 37 33 32 36 39 39 30 2C 38 30	592527326990,80
0x00000050: 31 2C 4D 61 72 2D 32 35 2C 32 39 2F 30 33 2F 31	1,Mar-25,29/03/1
0x00000060: 39 36 33 0D 0A 41 6D 65 78 2C 33 33 39 38 33 35	963..Amex,339835
0x00000070: 34 33 37 39 31 34 38 34 32 2C 34 30 35 2C 41 70	437814842,405,Ap
0x00000080: 72 2D 32 37 2C 30 33 2F 30 38 2F 31 39 39 35 0D	r-27,03/08/1995.
0x00000090: 0A 4D 61 73 74 65 72 43 61 72 64 2C 35 30 30 33	.MasterCard,5003
0x000000A0: 31 35 37 34 30 31 30 36 32 36 38 30 2C 36 33 30	157401062980,630

HexTextApplicationFile MetadataOS AccountData ArtifactsAnalysis

StringsExtracted TextTranslation

Page: 1 of - PageMatches on page: - of - Match

Card Type,Card Number,CVV,Expiration,Date of Birth
Discover,6725922527326990,801,Mar-25,29/03/1963
Amex,339835437814842,405,Apr-27,03/08/1995
MasterCard,5003157401062980,630,Nov-26,16/06/1988
MasterCard,5145290906867860,617,Apr-29,10/04/1960
MasterCard,5965999529461370,397,Nov-25,18/09/1936
MasterCard,5580915152260140,240,May-28,02/09/1967
Amex,344186636954390,918,Jan-24,22/04/1945
Visa,4263958568836580,354,Nov-28,27/09/1934
Discover,6100105188103500,241,Jan-25,08/07/1945
Amex,392073991313292,507,Jan-27,28/06/1939
Discover,6008544390505500,586,Sep-24,02/05/1969
Discover,6677291541887230,610,May-28,24/10/1942
Amex,311711696409085,940,Jan-26,27/03/1950
MasterCard,5594389455767720,619,Nov-30,02/08/1953
Visa,4328419482277700,537,Mar-30,09/09/1987
MasterCard,5175619105480550,200,May-30,07/10/1934
Visa,4392697363831700,647,Jul-29,17/06/1940

Virus total - Malware family name

Search: b6290f72b946c661c5d12346ec84c538e10772bb0799eb6c88035a4a90e3a258

51 / 73 Community Score

51/73 security vendors flagged this file as malicious

Reanalyze Similar More

b6290f72b946c661c5d12346ec84c538e10772bb0799eb6c88035a4a90e3a258

Size: 32.50 KB Last Analysis Date: 8 days ago

Sample: 7-1-packed

peexe checks-user-input detect-debug-environment long-sleeps idle spreader upx

DETECTION DETAILS RELATIONS BEHAVIOR COMMUNITY

Join our Community and enjoy additional community insights and crowdsourced detections, plus an API key to automate checks.

Popular threat label: trojan.zusy/ymacco Threat categories: trojan downloader Family Labels: zusy ymacco cdvdg

Security vendors' analysis

Vendor	Detection	Vendor	Detection
AhnLab-V3	Malware/Gen.Generic.C4705823	Alibaba	TrojanDownloader.Win32/Generic.35d7...
AliCloud	Trojan(downloader).Win/Zusy	ALYac	Gen-Variant.Zusy.108759
Antiy-AVL	GrayWare/Win32.Kryptik.flp	Arcabit	Trojan.Zusy.D1A8D7

Do you want to automate checks?

API file

```
C:\Windows\system32\cmd.exe

C:\Users\Pius\Desktop\Forensic_Tools>cd C:\Users\Pius\Desktop\Forensic_Tools\Malware_Analysis\Dynamic_Malware_Analysis_Tools\APIMiner\APIMiner

C:\Users\Pius\Desktop\Forensic_Tools\Malware_Analysis\Dynamic_Malware_Analysis_Tools\APIMiner\APIMiner>APIMiner.exe --ap
p E:\Coursework\PE_Sample\Sample.exe

C:\Users\Pius\Desktop\Forensic_Tools\Malware_Analysis\Dynamic_Malware_Analysis_Tools\APIMiner\APIMiner>APIMiner.exe --ap
p E:\Coursework\PE_Sample\Sample.exe

C:\Users\Pius\Desktop\Forensic_Tools\Malware_Analysis\Dynamic_Malware_Analysis_Tools\APIMiner\APIMiner>
```

```

*apiminer_traces.381531.pid.5576.txt - Notepad
File Edit Format View Help
<_notification_>-<0,0x00000000> __process__((time_low)-1006024823, [time_high]31171414, [pid]5576, [ppid]5148, [module_path]"E:\Coursework\PE_Sample\Sample.exe",
[command_line]"E:\Coursework\PE_Sample\Sample.exe" ", [is_64bit]0, [track]1)
<_notification_>-<0,0x00000000> __action__((action)"gatherer")
<_notification_>-<0,0x00000000> __action__((action)"gatherer")
<file>-<1073282885,0xc0070088> NtDeviceIoControlFile([file_handle]0x00000088, [control_code]5242902)
<system>-<0,0x00000000> LdrLoadDll([flags]0, [module_address]0x75480000, [module_name]"KERNEL32.DLL", [basename]"KERNEL32", [stack_pivoted]0)
<process>-<0,0x00000000> NtProtectVirtualMemory([process_handle]0xffffffff, [base_address]0x00050000, [length]0x00001000, [protection]4,
[stack_pivoted]0, [stack_dep_bypass]0, [heap_dep_bypass]0, [process_identifier]5576)
<process>-<0,0x00000000> NtProtectVirtualMemory([process_handle]0xffffffff, [base_address]0x00050000, [length]0x00001000, [protection]2,
|[stack_pivoted]0, [stack_dep_bypass]0, [heap_dep_bypass]0, [process_identifier]5576)
<synchronisation>-<0,0x00000000> GetSystemTimeAsFileTime
<system>-<0,0x00000000> LdrGetDllHandle([module_address]0x75480000, [module_name]"kernel32.dll", [stack_pivoted]0)
<file>-<2,0x00000002> GetFileType([file_handle]0x00000094)
<file>-<2,0x00000002> GetFileType([file_handle]0x00000098)
<file>-<2,0x00000002> GetFileType([file_handle]0x0000009C)
<exception>-<0,0x00000000> SetUnhandledExceptionFilter
<synchronisation>-<0,0x00000000> NtDelayExecution([milliseconds]1215752192, [skipped]1)
<system>-<1073741515,0xc0000135> LdrGetDllHandle([module_address]0x00000000, [module_name]"mscorlib.dll", [stack_pivoted]0)
<process>-<0,0x00000000> NtTerminateProcess([process_handle]0x00000000, [status_code]0, [process_identifier]0)
<process>-<0,0x00000000> NtTerminateProcess([process_handle]0x00000000, [status_code]0, [process_identifier]0)
<system>-<0,0x00000000> NtClose([handle]0x000000A0)
<system>-<0,0x00000000> NtClose([handle]0x000000C0)
<system>-<0,0x00000000> NtClose([handle]0x000000BC)
<process>-<0,0x00000000> NtTerminateProcess([process_handle]0xffffffff, [status_code]0, [process_identifier]5576)

```