Forensic Analysis of the Android Image

This report details a comprehensive forensic investigation into an alleged internet fraud scheme involving a fake investment website designed to lure individuals into investing in fraudulent cryptocurrency, promising exceptionally high returns on investment.

The report outlines the methodologies and tools utilized, presents key findings, and provides recommendations for future preventative measures and legal actions.

Tools used: Autopsy, 7zip, Android forensic image

Methodology: This encompassing evidence collection, examination, analysis, and reporting. An android image was extracted with 7zip extraction software, which was feed into Autopsy for analysis. The forensic investigation adhered to a rigorous, multi-phase methodology to ensure the integrity, authenticity, and admissibility of all collected digital evidence. This structured approach, adapted from established digital forensic principles, involved the following key stages:

1. collection/Acquisition:

- Victim Device Acquisition: Where available and permissible, forensic images of relevant storage media (e.g., the mobile phone, tablets) used by victims to interact with the fake website or communicate with the perpetrators were acquired. Strict chain of custody protocols were maintained throughout this process, and hardware write-blockers were utilized to ensure that no data on the original media was inadvertently altered during the imaging process
 - Call logs: various calls and phone numbers of the conspirators were recovered; this
 gives more insights into their deceitful act.
 - Message logs: these were also retrieved to ascertain and monitor the trend of communication and strategies in carrying out their elicit fraud.
- Open Source Intelligence (OSINT) Gathering: Publicly available information was systematically collected from various online sources, including social media platforms, online forums, cryptocurrency communities, and news articles related to the scam. This intelligence helped in understanding the scam's promotion, identifying potential victims, and uncovering additional digital footprints of the perpetrators.
 - **Artifacts:** web histories, web cookies, web search were also collected this helps to know the tress of web visited by this perpetrator, and the type of search conducted.

- **2. Examination:** Following the secure collection of data, the examination phase involved a meticulous and systematic processing of the acquired digital evidence to identify and extract information pertinent to the investigation. This phase was characterized by:
- Data Carving and Recovery: Advanced data carving techniques were employed to recover deleted files or fragments of files from unallocated space on acquired disk images. This was crucial for uncovering hidden or intentionally removed evidence.
- Targeted Keyword Searches: Extensive keyword searches were conducted across all acquired data. Keywords included the name of the fake website, specific cryptocurrency names mentioned in the scam, known aliases of perpetrators, victim names, and terms commonly associated with investment schemes (e.g., 'ROI', 'guaranteed returns', 'withdrawal').
- **File System and Metadata Analysis:** A detailed analysis of file system metadata, including creation, modification, and access timestamps, was performed to reconstruct the chronological sequence of events. This helped in understanding when specific files were created, accessed, or altered, providing insights into the perpetrators' activities.

3. Analysis:

Message Log analysis:

2024-03-17 03:09:45 WAT

Deduced the name of the alleged suspect to be Bro Sam from the message supposedly to be from his pastor.

2024-03-17 03:19:10 WAT

A scam idea was mention to be carried out

2024-03-17 03:20:44 WAT

A fake investment crypto currency website was to be created to lure in innocent people

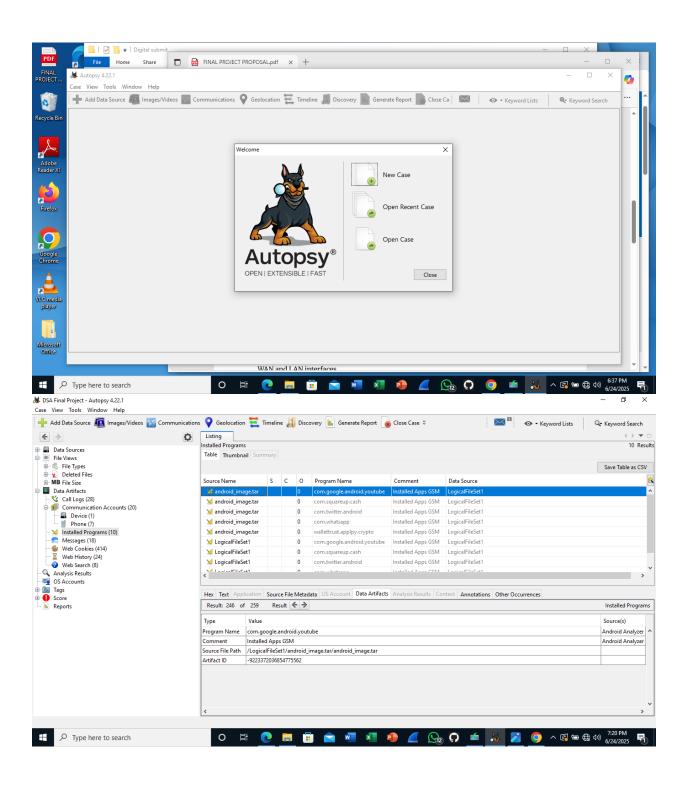
2024-03-17 03:23:45 WAT

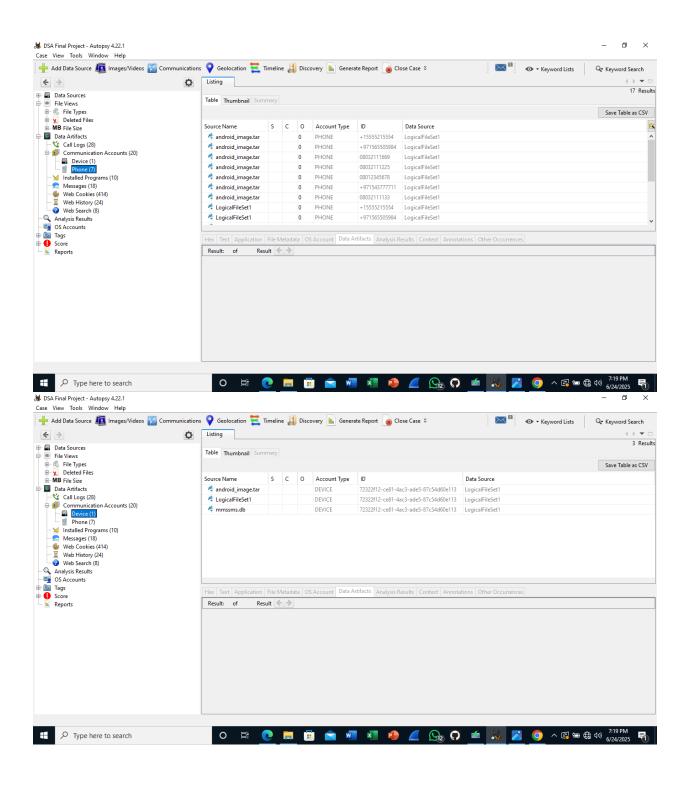
A bitcoin wallet address to be used 16AtGJbaxL2kmzx4mW5ocpT2ysTWxmacWn. Which actually belong to Woodberry

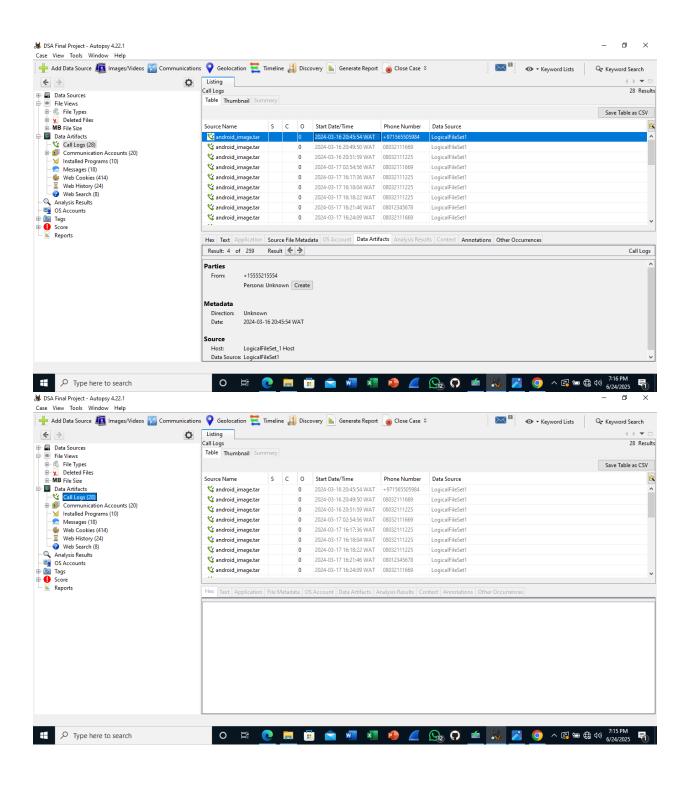
2024-03-17 04:29:40 WAT

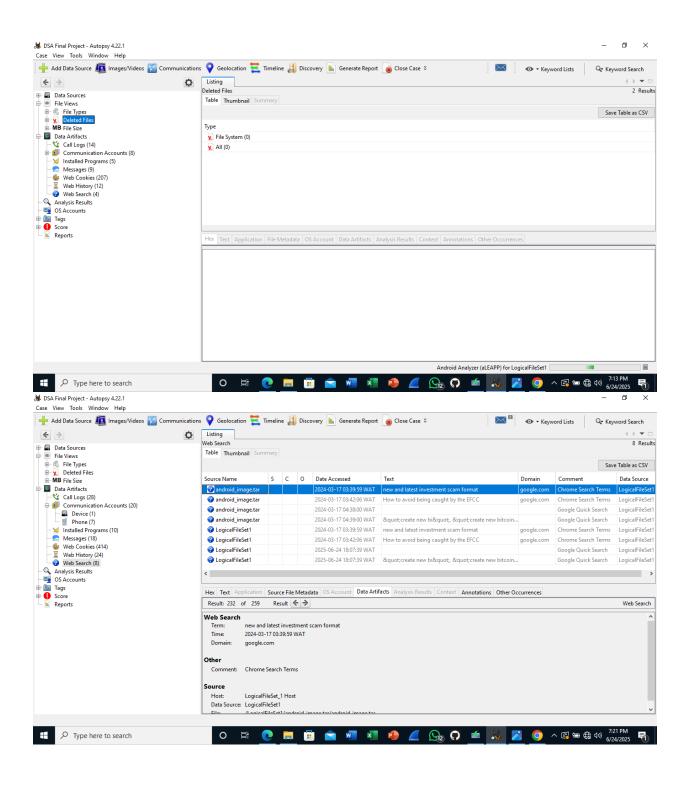
The fake investment website was actually created.

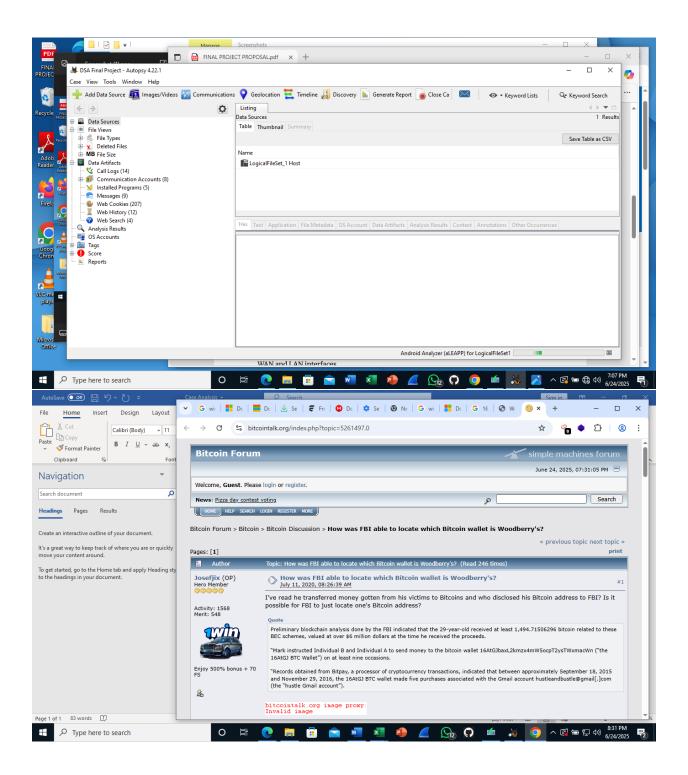
Screen shorts

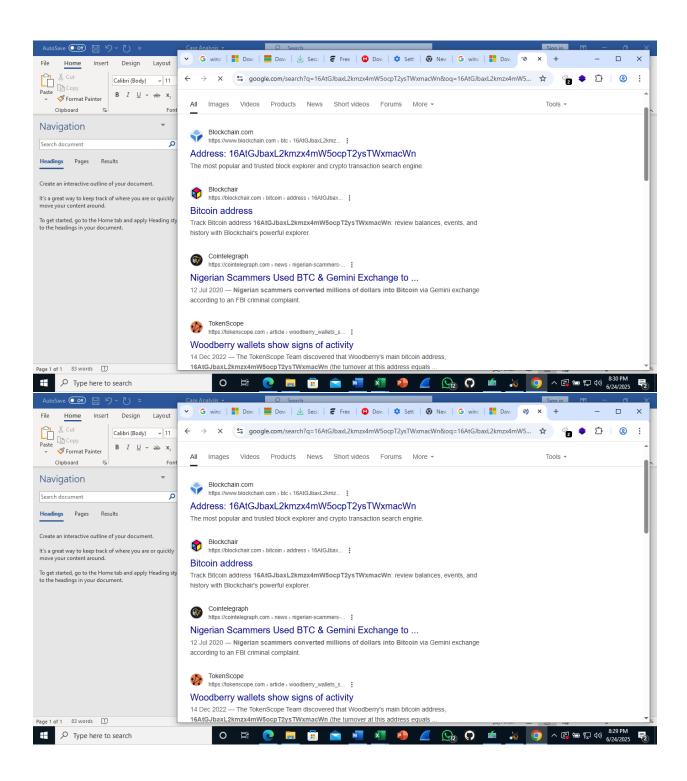


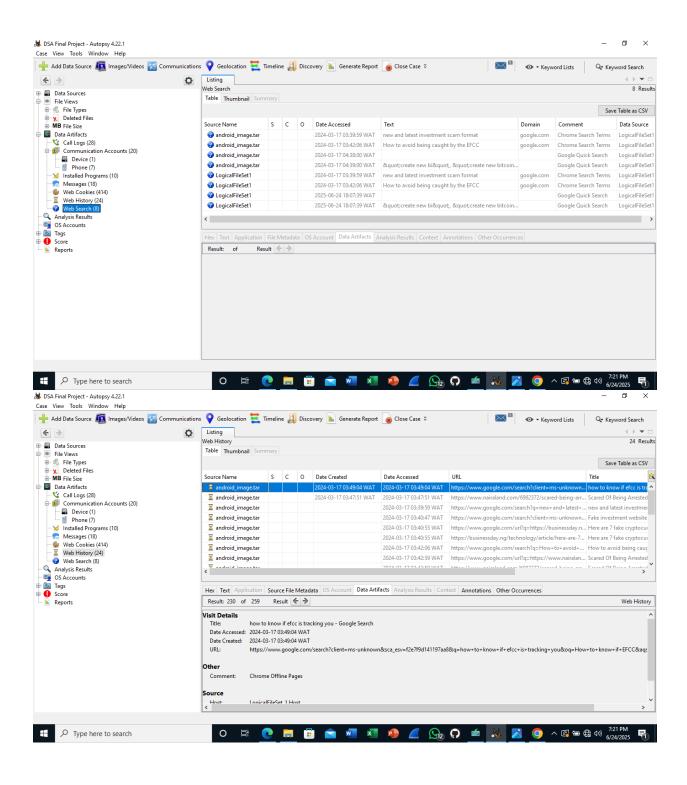


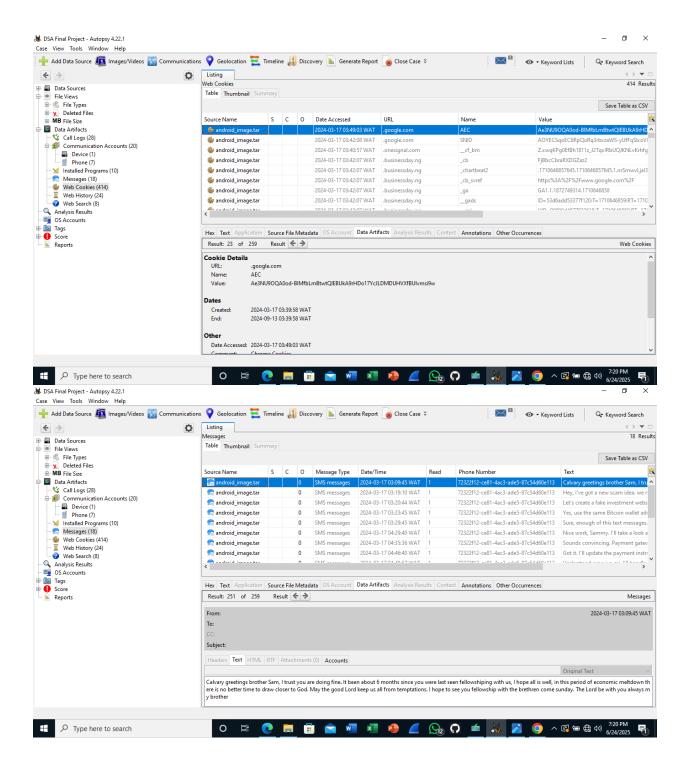












4. Findings of the Investigation

The forensic investigation yielded significant findings that shed light on the operation of the internet fraud scheme, the tactics employed by the perpetrators, and the extent of their illicit activities. The findings are categorized to provide a clear understanding of the various facets of the fraud.

Website Infrastructure and Deception: The fraudulent investment website was meticulously designed to appear legitimate, mimicking the aesthetics and functionalities of genuine cryptocurrency investment platforms. Analysis of the website's infrastructure revealed

Luring Tactics and Social Engineering: The perpetrators employed sophisticated social engineering tactics to attract and deceive victims

Cryptocurrency Transaction Analysis

The core of the fraud involved the illicit acquisition of legitimate cryptocurrency from victims. Analysis of blockchain data and associated transactions revealed

Conclusion

Sequel to the evidence above, it's safe to say the suspect is suspected to be involved in the internet related fraud activities having links with international internet fraudsters. Although there is no evidence of committing the actual act of defrauding anyone yet but I guess he is in the process of achieving that.

Recommendations

Based on the findings of this investigation, the following recommendations are put forth to aid in ongoing efforts to combat such frauds, enhance cybersecurity, and protect potential victims:

Enhanced Public Awareness Campaigns: Launch widespread public awareness campaigns to educate individuals about the red flags of investment scams, particularly those involving cryptocurrencies. Emphasize the importance of due diligence, skepticism towards unrealistic returns, and verification of platform legitimacy.

Strengthened Collaboration with Hosting Providers and Domain Registrars:

Foster closer collaboration between law enforcement agencies and internet service providers, hosting companies, and domain registrars to facilitate the rapid identification, takedown, and preservation of evidence from fraudulent websites. Implement mechanisms for quicker response to abuse reports.

Improved Cryptocurrency Tracing Capabilities: Continue to invest in and develop advanced blockchain analytics tools and techniques to enhance the ability to trace illicit cryptocurrency flows, de-anonymize perpetrators, and identify associated entities. Encourage greater information sharing among blockchain intelligence firms and law enforcement.

International Cooperation: Given the transnational nature of internet fraud and cryptocurrency scams, strengthen international cooperation among law enforcement agencies, regulatory bodies, and financial intelligence units to

facilitate cross-border investigations, asset freezing, and extradition of perpetrators.

Regulatory Framework Development: Advocate for the development and enforcement of robust regulatory frameworks for cryptocurrency platforms and digital asset services, including mandatory KYC (Know Your Customer) and AML (Anti-Money Laundering) compliance, to prevent their exploitation by fraudsters.