



Assignment 3

CEO's Mobile Mystery

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Context



- **Huge drama, phones are flying everywhere**
- **The CEO got a new phone**
- **How the company's data got leaked?**



Initial thoughts

- The data leaked was accessible by several persons, including the CEO
- Where is the old CEO's phone?
- Could this be the follow up of the previous drama?



The task



- What is the package name of the malicious application?
- Identify the C2 (Command and Control) server
- What tool was used to craft the malware?

Flag format: CTF{answer1_answer2_answer3}

Example: CTF{ro.test.done_wiki.ro_mimikatz}



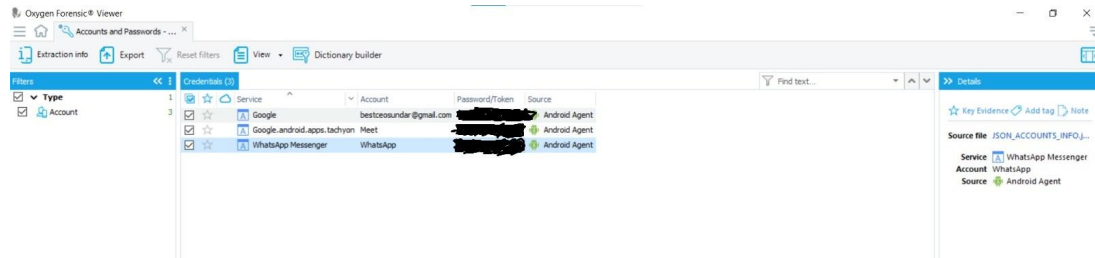
The steps

- **Initial Assessment**
- **Malware Analysis**
- **Application investigation**

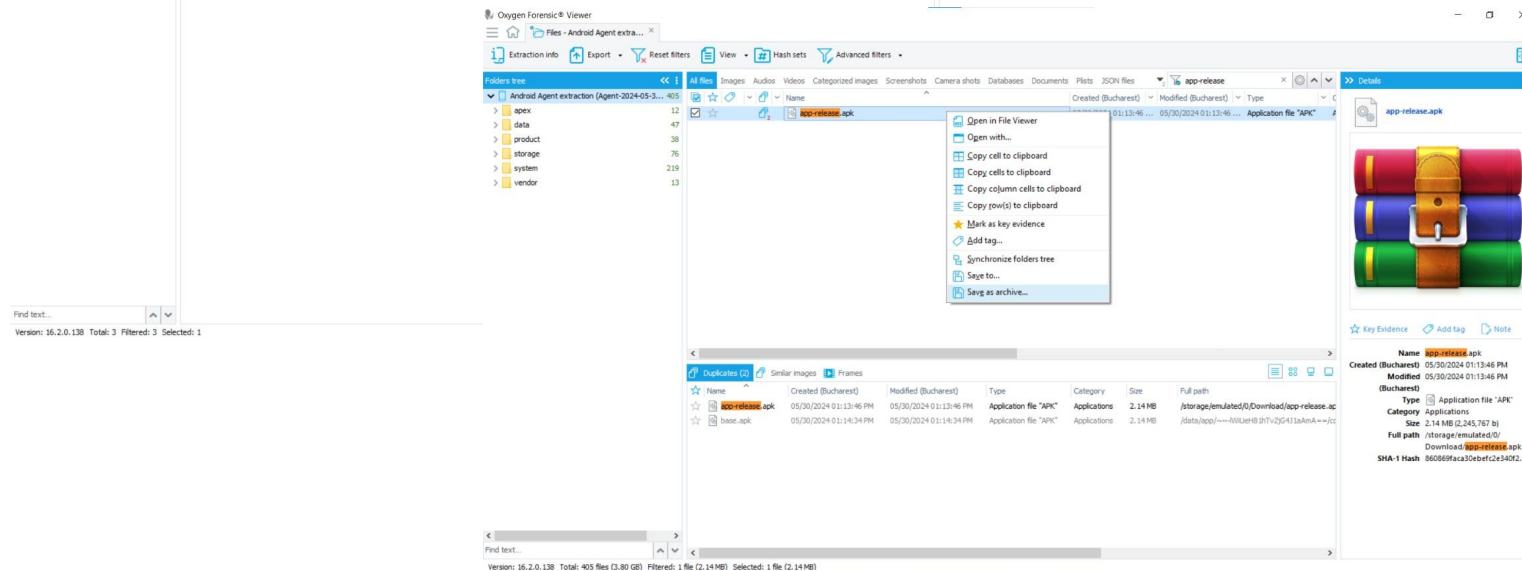




Examining the CEO's new phone

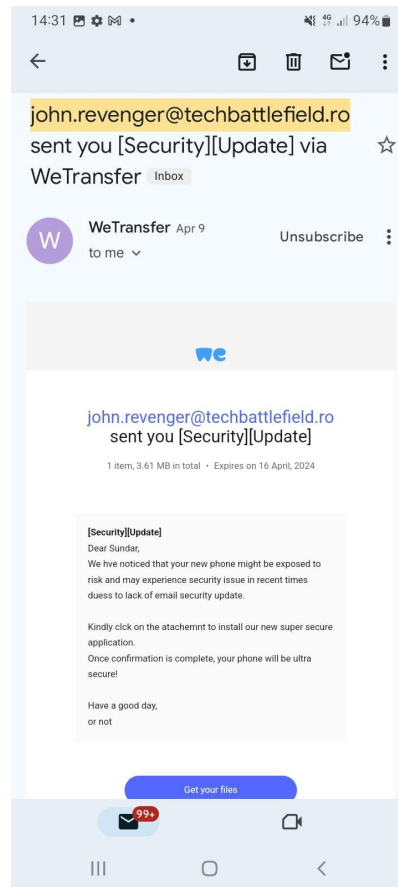
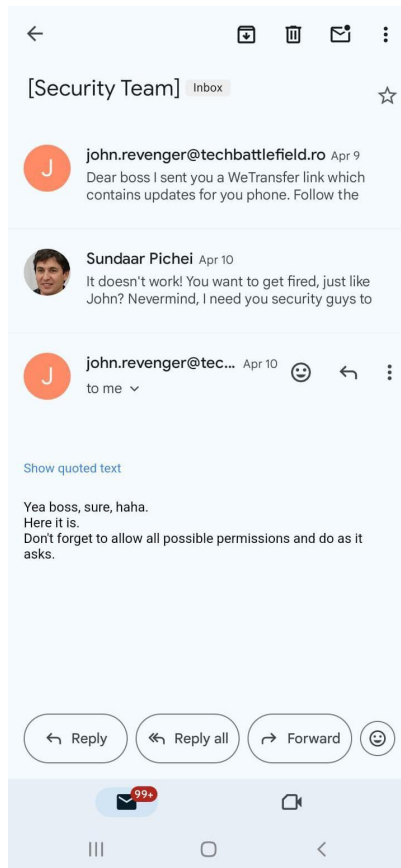


- Some apk downloaded...

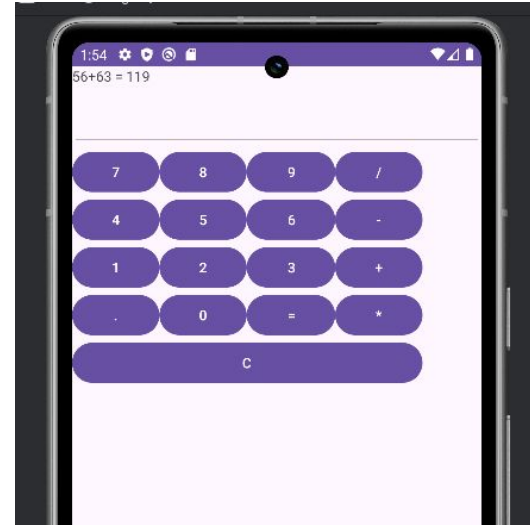
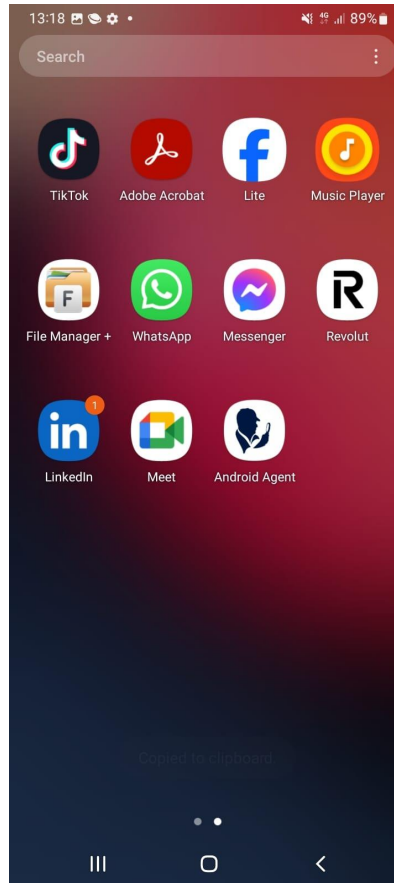
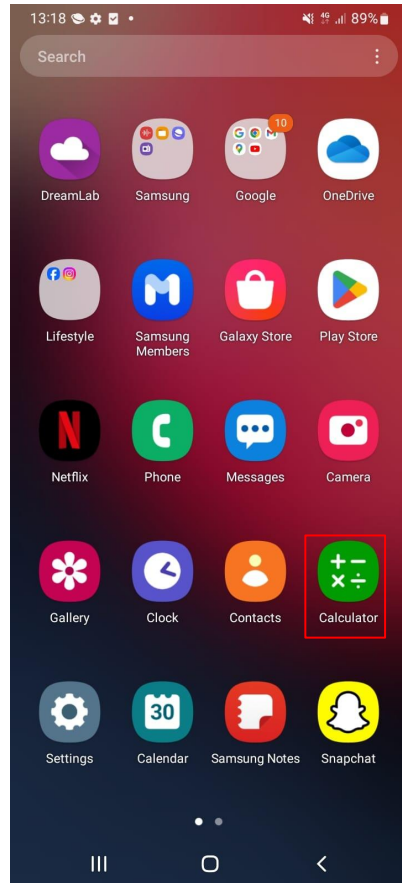


Examining the CEO's new phone

- Damn ...

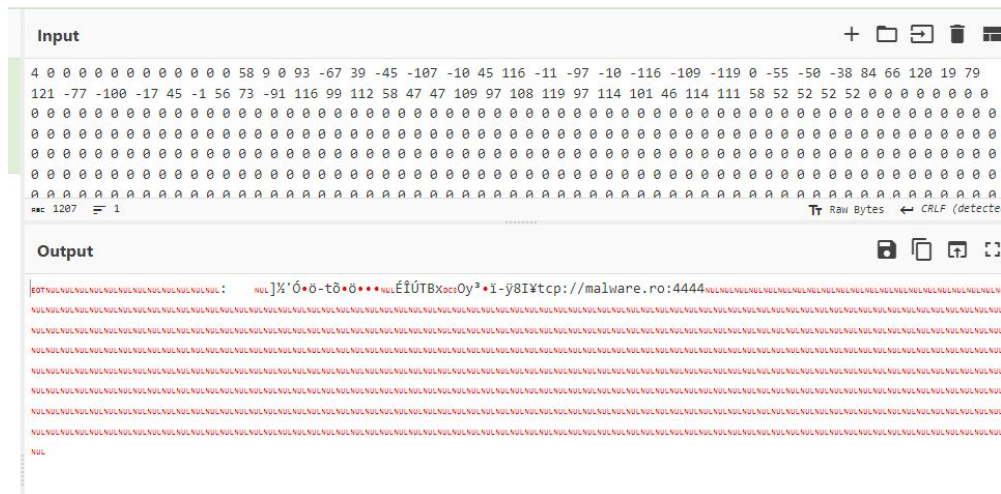
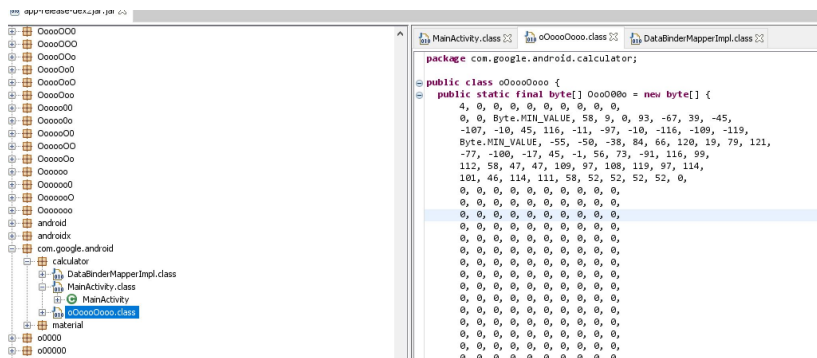


Examining Calculator App



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- **Apktool > AndroidManifest.xml > MainActivity**



tcp://malware.ro:4444



Investigating further



android malware tool private static final byte[] a = new byte[]



@cryptax – Medium

<https://cryptax.medium.com> · Traducerea acestei pagini

Into Android Meterpreter and how the malware launches it

25 sept. 2020 — ... app was trojanized with a Java-based Meterpreter. ... **private static final byte[]** configBytes = **new byte[]** { (byte) ... Reverse engineering of ...



Medium

<https://medium.com> · Traducerea acestei pagini

Virus Scanning in Java using ClamAV | by Kanishka Herath

16 feb. 2023 — **private** String processCommand(**final byte[]** cmd) throws IOException { String response = ""; try (Socket socket = **new** Socket()) { socket ...



GitHub

<https://n0psn0ps.github.io> · Traducerea acestei pagini



The task - Results



- What is the package name of the malicious application?
com.google.android.calculator
- Identify the C2 (Command and Control) server
malware.ro
- What tool was used to craft the malware?
metasploit

Final flag: **CTF{com.google.android.calculator_malware.ro_metasploit}**



XOXO

**Thanks for your help.
You are the GOAT. 🐐**

Yours Truly

