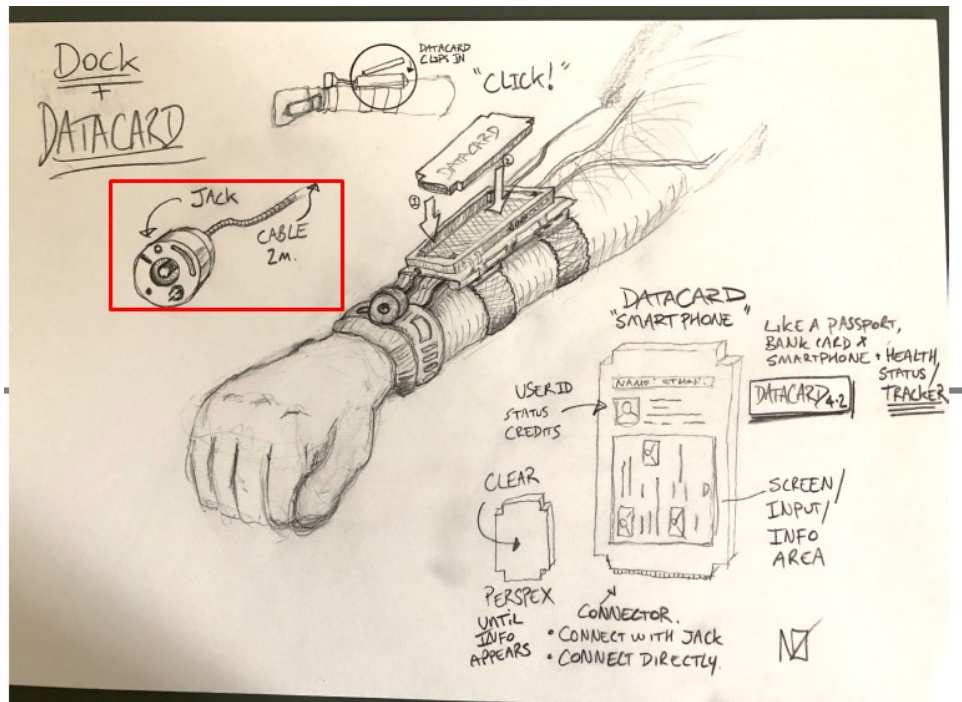


Mission Name

LazarusForensics

History Background

The Level 7 citizen is plugged into the jack, but he does not have the DATACARD:



Claire finally gets from the citizen the following evidence.

- Attempts to Change Vaccine Records
- Bank Records
- Code Snippets

Once the forensic procedure has finished, Claire obtains information about where ETHAN lives. Block 44 - SUFU, as this is the address that appears to Claire when Ethan is connected to the Level 7 Dock. Again, depending on how the evidence is provided, it will determine the difficulty of the mission.

Technical High-Level Overview

Player must carry out several recovery task to get files from the provided evidence. In this case, Citizen's dock has information inside itself and this information is provided to the player. The goal of this mission would be to recover an SQLite database located inside Citizen's dock.

Short Mission Description

Claire is jacking to Citizen and getting a full dump of him. Your goal is to get the exact date of the vaccine injected between June 2049 and August 2049.

Mission Description

Player must carry out several recovery tasks to get files from the provided evidence. In this case, Citizen's dock has information inside. Claire is jacking to Citizen and getting a full dump of him. Your goal is to get the exact date of the vaccine injected between June 2049 and August 2049. Insert: YYYY-MM-DD HH:MM:SS

Tools

- Photorec for recovering sqlite databases.
- Tsk_recover
- SQLite viewer to read the database and get the necessary information to complete the mission.
- HxD to identify headers of files.
- <https://github.com/mdegrazia/SQLite-Deleted-Records-Parser> to recover deleted registers inside SQLite

Questions

Which is the free block that contains the exact date?

- 8038

How many unallocated blocks did you find?

- 7838



Hints

1. Use carving techniques to recover data.
2. Check in depth the SQLite Database, specially dates of injected vaccines.
3. Use any tool which allow you recover deleted register on the SQLite Database

Location

- SYLVARCON | ANUTM DISTRICT | LEVEL 7 CLIENT'S APARTMENT

Write Up

Linux Method.

- apt install gnome-disk-utility
- testdisk needs root access.
- tsk_recover

First step would be to recover the SQL database using Photorec, to accomplish this, you must launch Photorec from Defensive tools:

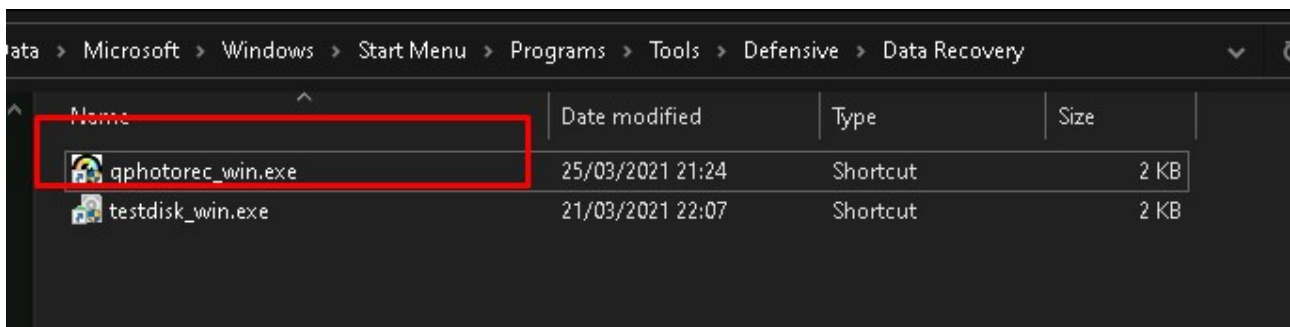


Figure 1

Open it:

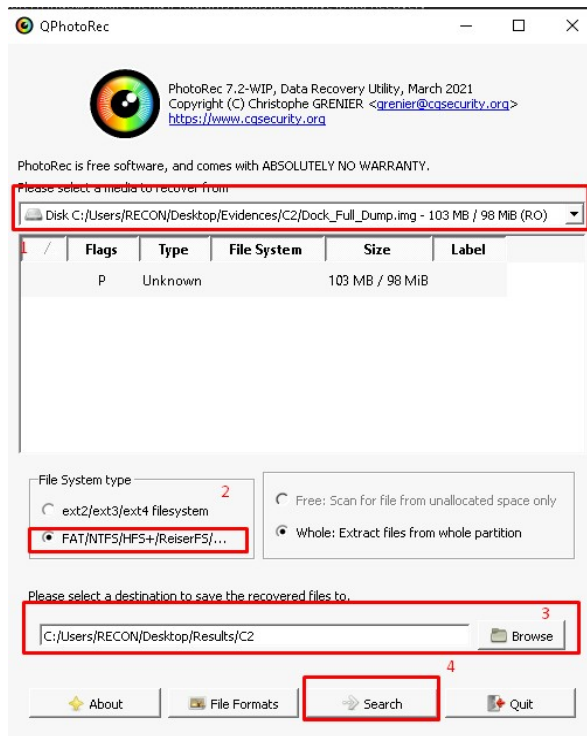


Figure 2

1. Select evidence downloaded.
2. Select FAT/NTFS
3. Select destination folder to save the recovered files.
4. Press "Start"

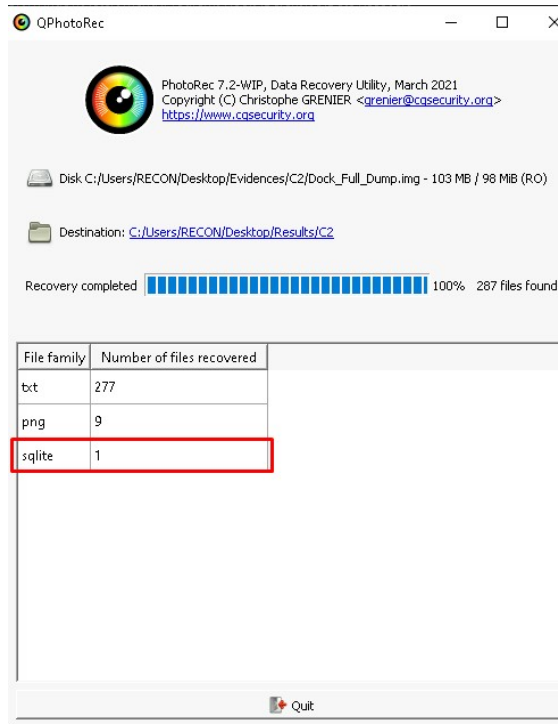


Figure 3

Once you had got SQLite database, next step would be to use a sqlite reader to fetch data:

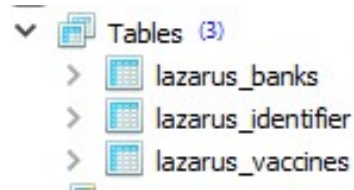


Figure 4

Our goal is to find out which is exact date between June and August, so we must analyse Lazarus_vaccines table:

Grid view Form view

Filter data

	id	vaccine	vaccine_type	date
1	1	LAZARUS-PROT1	H2N1-01	2049-04-12 12:24:22.333
2	2	LAZARUS-PROT1	H2N1-02	2049-05-12 13:28:22.333
3	3	LAZARUS-PROT1	H2N1-03	2049-06-12 12:24:22.333
4	5	LAZARUS-PROT1	H2N1-05	2049-08-12 12:24:22.333

Figure 5

The key is to identify that there is a shadow register deleted. So, it's necessary to use a tool which extracts free blocks from the SQLite Database: <https://github.com/mdegrazia/SQLite-Deleted-Records-Parser>.

Player must insert SQLite Database and execute the tool:

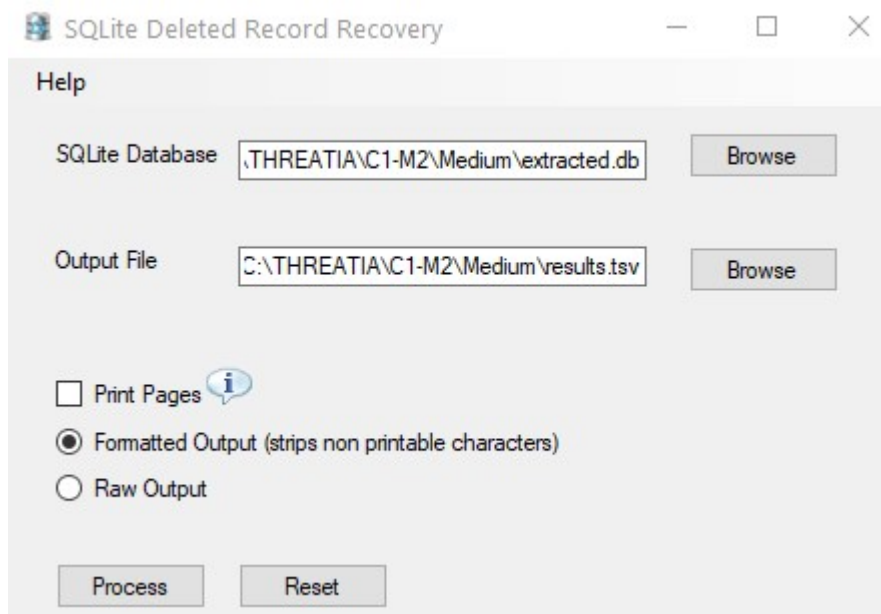


Figure 6

Finally, the output file will show which is the exact date of the vaccine injected in July:

Type	Offset	Length	Data
Unallocated	4112	3750	3
Free Block	7912	75	fK';LAZARUS-PROT1H2N1 2049-08-12 12:24:22.333M';LAZARUS-PROT1H2N1
Free Block	8038	52	4';LAZARUS-PROT1H2N1-04 2049-07-01 12:55:30.333
Unallocated	12296	4088)ROYDICKYANOTM DISTRICT

Figure 7

2049-07-01 12:55:30

Flag

flag{2049-07-01 12:55:30}