John Doe was accused of doing illegal activities. A disk image of his laptop was taken. Your task as a soc analyst is to analyze the image and understand what happened under the hood.

Task 1: What is the MDS hash value of the suspect disk?

I checked the DiskDrigger.ad1.txt file

[Computed Hashes] 9471e69c95d8909ae60ddff30d50ffa1 167aa08db25dfeeb876b0176ddc329a3d9f2803a

Answer: 9471e69c95d8909ae60ddff30d50ffa1

Task 2: What phrase did the suspect search for on 2021-04-29 18:17:38 UTC? (three words, two spaces in between)

First I thought about going to the Registry keys like TypedPaths and WordWheelQuery but no there is no NTUSER.DAT in the user files.

Then I tried to check the History of the Chrome browser with SQL DB Browser but it didn't worked

DB Browser for SQLite) Could not open database file.
Resson: disk I/O error UK

So I used Strings on the History and analyzed it until I found some search which was look like the answer format

https://www.google.com/search?q-hacker-background&cbe-isch&comice-is&lcts-i&fir-dfiaBetchfoGrMC2/2CfyYYX5(dibh2nd https://www.google.com/search?q-passwordscrockingslist&dfia-lctVDME_emiSSDISSOSI&del-CPXFMSIKsubclagalatibgoe-pas LODIFICIABOG-IAMCaskOBOGISTATOICCOMEND&GeografiaBomSERVCMW64139aAWg-7TbADWAAAGACAGAGBOETSTATABOW_that&dfiabo

Answer: password cracking lists (After checking the hint, the History file should work with DB SQL Browser)

Task 3: What is the IPv4 address of the FTP server the suspect connected to?

I checked the trustedcerts.xml inside the FileZilla folder and noticed the port21 with an IP

Col version*1.0* sonding*CTF-0*5 E-Climitia version*3.51.1* platform*vindowa*> Consentellosso clima E-Pre**P!*o149.168.1.20c/Hosto-c/Thacarrellostas

Answer: 192.168.1.20

Task 4: What date and time was a password list deleted in UTC? (YYYY-MIM-DD HH:MM:SS UTC)

First I tried to find the USN Journal which shows such things but this artifact is not in the image so I checked the recommended tools for this challenge and saw the "riflut2" which is forensic tool used to analyze the Recycle Bin on Windows systems.

l asked the ChatGPT how to work with this tool.

Lused the command - "riffuti-vista.exe "E-\001Win10.e01_Partition 2 [50647MB]_NONAME [NTF5]\[root]\SRecycle.Bin\S-1-5-21-3061953532-2461696977-1363062292-1001\SW9B12Z.txt"

\Users\@abble\Desktop\rifuti2-0.8.1:\min64\rifuti2-0.8.1.\min64\rifuti-\rista.exe "E:\0081kin30.e0l_Partition 2 [5064700]_MOWNE [NTF5]\(\)(root\)\\$8ecycle bin path: "E:\0081kin30.e0l_Partition 2 [5004700]_MOWNE [NTF5]\(\)(root\)\\$8ecycle.8in\S-1-S-21-3001953532-260396977-1303002292-1801\\$1090222.txt\)
riston: 2
Gess: \(\)(indoos: 10 or above
ne come: \(\)(IC:\)(16000)[
How come: \(\)(IC:\)(

Answer: 2021-04-29 18:22:17 UTC

Task 5: How many times was Tor Browser ran on the suspect's computer? (number only)

I tried to check in Prefetch and didn't find anything besides the installer After some time I checked the hint and they said there not execution of Tor browser

Fuck you

Answer : 0

Task 6: What is the suspect's email address?

Answer: dreammaker82@protonmail.com

Task 7: What is the FQDN did the suspect port scan?

I checked the PSReadLine

```
bettercop
bettercop --check-opdates
bettercop --check-opdates
bettercop -- x -no-spoofing
bettercop -- x -no-spoof
```

Answer: dfir.science

Task 8: What country was picture "20210429_152043.jpg" allegedly taken in?

Create Date &	2021:04:29 15:20:43.367153
Date/Time Original@	2021:04:29 15:20:43.367153
Modify Dateg	2021:04:29 15:33:32.367153
Thumbnail Imageø	(Binary data 9000 bytes, use -b option to extract)
GPS Latitude₽	16° 0' 0.00" S
GPS Longitudes	23° 0' 0.00" E
Focal Lengths	3.7 mm
GPS Position₽	16° 0' 0.00" S, 23° 0' 0.00" E

Answer: Zambia

Task 9: What is the parent folder name picture "20210429_151535.jpg" was in before the suspect copy it to "contact" folder on his desktop?

I checked the ShellBags first with Registry Explorer but I didn't find anything.

Then I opened the UsrClass.dat with ShellBags Explorer and I assumed the picture as come from LG Q*-DCM - Camera.



Task 10: A Windows password hashes for an account are below. What is the user's password? Anon:1001:aad3b435b51404eeaad3b435b51404ee:30E1A36F60D8BE036DFD75E8E20C4AF4::

I used https://hashes.com/en/decrypt/hash and pasted the NTLM hash 3DE1A36F6DDB8E036DFD75E8E20C4AF4



Task 11: What is the user "John Doe's" Windows login password?

I used Mimikatz on the SYSTEM and SAM Hives

token::elevate

```
D : 00000369 (1001)
ar : John Doa
Hash NTLM: ecf53750b76cc9a62057ca85ff4c850e
 Primary;Kerberos *
Default Salt : DESKTOP-033802John Doe
Credentials
des_cbc_edS : b3d601e6dc720073
018Credentials
des_cbc_edS : b3d601e6dc720073
```

NTLM hash - ecf53750b76cc9a62057ca85ff4c850e

Then I used John The Ripper to crack the NTLM

john hashes.txt --format=nt

Answer: ctf2021