A memory image was taken from a seized Windows machine. As a security blue team analyst, analyze the image and answer the provided questions.

Task 1: What time was the RAM image acquired according to the suspect system? (YYYY -MM-DD HH:MM:SS)

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Answer: 2021-04-30 17:52:19

I used the sha256sum command

remnuxgremnux:-/Challenge/c49-AfricanFalls25 sha256sum 20210430-Win10Home-20H2-64bit-memdump.mem 9db0lble7b19a3b2113bfb65e868fffd7a1630bdf2b18613d206ebf2aa0ea172 20210430-Win10Home-20H2-64bit-memdump.mem

Answer: 9db01b1e7b19a3b2113bfb65e860fffd7a1630bdf2b18613d206ebf2aa0ea172

Task 3: What is the process ID of "brave.exe"?

I used the pstree plugin

4856 1872 brave.exe - 1 False 2021-84-30 17:48:45.000000 2021-84-30 17:50:50.000000 \Device\HarddiskVolume2\Program Files\BraveSoftware\Brave-Browser\Application\brave.exe -

Task 4: How many established network connections were there at the time of acquisition? (number)

Task 5: What FQDN does Chrome have an established network connection with?

I checked the IP 185.70.41.130 on AbuseIPDB to find the domain name

9xbf0f6ca7la20 TCPv4 10.0.2.15 49769 142.250.190.14 443 CLOSE MAIT 1840 chrome.exe 2021-04-30 17:44:55.000000 9xbf0f6cbb0530 TCPv4 10.0.2.15 49772 185.70.41.35 443 FIN_WAIT2 1840 chrome.exe 2021-04-30 17:44:58.000000

185.70.41.130 was found in our database!

This IP was reported 2 times. Confidence of Abuse is 0%: Proton AG ISP Data Center/Web Hosting/Transit 185-70-41-130.protonmail.ch Usage Type Hostname(s) Domain Name protonmail.ch

Switzerland Country City Zurich, Zurich

Answer: protonmail.ch

Task 6: What is the MDS hash value of process executable for PID 6988?



Task 7: What is the word starting at offset 0x45BE876 with a length of 6 bytes?

First I dumped the process and opened it with HxD and I tried to find the hex but it didnt and I already know this is the way to find it.

I also watched the walkthrough which says this is the way to find the answer

Q7: What is the word starting at offset 0x45BE876 with a length of 6 bytes?



I switched to FlareVM that has HxD installed then after opened this memory dump with HxD, Click "Search" > "Go to" > Put an offset inside Offset box > "Ok"

Then we will see the word "hacker" perfectly matches what we're looking for

I used the command "xxd -5 0x458E876 20210430-Win10Home-20H2-64bit-memdump.mem | grep-i-459E876" and also grepped for "458E876" $\frac{1}{2} \left(\frac{1}{2} \right) \left($

rennux@rennux:-/Challenge/c49-AfricanFalls2\$ xxd -s 8x458E876 20210430-Win10Hone-20H2-64bit-mendump.men | grep -1 458E876 0-55be876: 6061 636b 6572 2062 6163 6b67 726f 756e hacker backgroun

Answer: hacker

Task 8: What is the creation date and time of the parent process of "powershell.exe"? (YYYY-MM-DD HH:MM:SS)

Answer: 2021-04-30 17:39:48

Task 9: What is the full path and name of the last file opened in notepad?

I used the pstree plugin and found the Notepad process with the path

Answer: C:\Users\JOHNDO~1\AppData\Local\Temp\7zO4FB31F24\accountNum

Task 10: How long did the suspect use Brave browser? (hh:mm:ss)

I used the windows.registry.userassist.UserAssist plugin and grepped for brave

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