Mystic Stealer

TECHNICAL ANALYSIS REPORT

ZAYOTEM

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Overview

Mystic Stealer is a new malware that emerged in April 2023 and quickly gained a significant position in the cybercrime world. This malicious software targets credentials from web browsers, browser extensions, cryptocurrency applications, multi-factor authentication (MFA) systems, and password management applications, as well as from popular social media platforms. Mystic Stealer employs advanced techniques to bypass and neutralize analysis and defense mechanisms, including avoiding static analysis methods. The use of these advanced techniques not only enables Mystic Stealer to access a wide range of data but also makes it a sophisticated threat that is difficult to detect.

Mystic.exe Analysis

Name	Mystic.exe
MD5	692a59e85b4c932049ab55cb372a9509
SHA256	dc094161dd0f8395e5363c61b3364191562edc470c785802d55d86 f14bc40eaa
File Type	Portable Executable 32 (x86)

The malicious software's details such as MD5, SHA256 are provided in the table above. The original name of the malware, "dc094161dd0f8395e5363c61b3364191562edc470c785802d55d86f14bc40eaa.exe", has been renamed to "Mystic.exe" for ease of analysis during the investigation.

Static Analysis

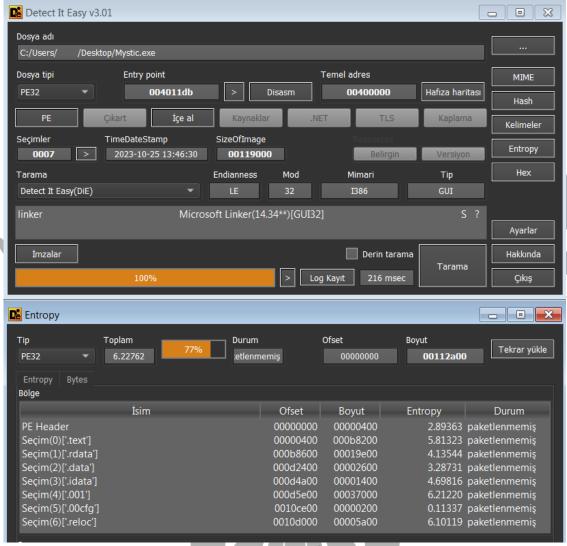


Figure 1 – Static Analysis of the Malware

When examined, it is observed that the Mystic.exe malware is not packaged.

Dynamic Analysis

```
sub_1297350
sub_1297350
; Attributes: bp-based frame
sub_1297350
                 sub_1297350 proc near
sub_1297350
sub_1297350+1
                         ebp, esp
sub_1297350+3
sub_1297350+8
                 push
                         135B0F0h
                 push
                 call
                        sub_12813DE
                                         ; Call Procedure
sub_1297350+12
                 add
                         esp, 8
sub 1297350+15
                 pop
                         ebp
sub 1297350+16
                                          ; Return Near from Procedure
                 retn
sub_1297350+16
                 sub_1297350 endp
sub_1297350+16
```

Figure 2 – Decryption Function

During dynamic analysis, it was observed that the malware decrypts the data it keeps encrypted in memory. This is done through a two-parameter function, as also shown in Figure 2. The first parameter is the hexadecimal value 2DA00h, which determines the number of bytes to be decrypted and thus how many times the loop will repeat. The second parameter is the hexadecimal address 135B0F0h, indicating the starting point of the decryption process.

With the specified parameters, the function decrypts a memory block starting from the address 135B0F0h up to the length of 2DA00h, that is, up to the address 1388AF0. As a result, upon decrypting the encrypted data, it has been observed that this data is an executable file.

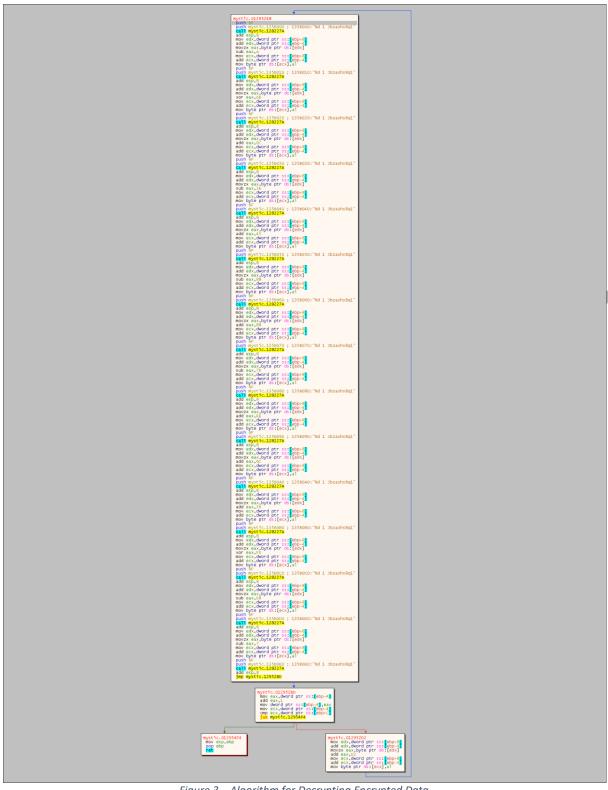
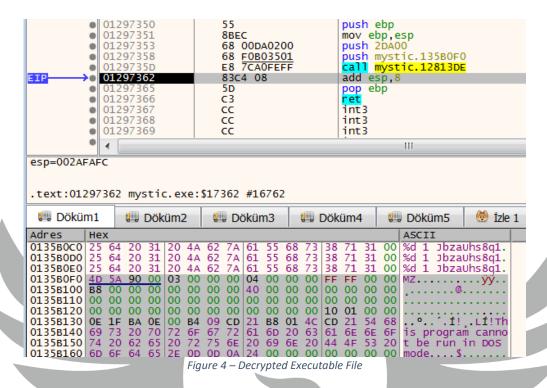


Figure 3 – Algorithm for Decrypting Encrypted Data

The algorithm used to decrypt the encrypted data is as illustrated in Figure 3.



The executable file discussed in the previous step of the report, which was decrypted byte by byte, is as shown in Figure 4.

```
.text:01293790
    .text:01293790
                                            loc 1293790:
                                                                                     : CODE XREF: sub 1282FD61i
    .text:01293790 55
                                            push
                                                    ebp
    .text:01293791 8B EC
                                            mov
                                                    ebp, esp
    .text:01293793 81 EC 9C 00 00 00
                                                    esp, 9Ch
                                            sub
                                                                                      ; Integer Subtraction
     .text:01293799 C7 45 F4 F0 B0 35 01
                                                    dword ptr [ebp-0Ch], offset unk_135B0F0
     .text:012937A0 F8
                                                                                    ; Clear Carry Flag
text:012937A1 73 02
                                                    short near ptr loc_12937A3+2
                                                                                       Jump if Not Below (CH
                                            jnb
    .text:012937A3
                                            loc_12937A3:
    .text:012937A3
                                                                                     ; CODE XREF: .text:012937A1†j
     .text:012937A3 E8 8B 68 13 15
                                                                                     ; Call Procedure
                                            call
                                                    near ptr 1630
                                                                                       "%d 1 JbzaUhs8q1"
    .text:012937A8 C8 1D A1 00
                                                    0FFFFA11Dh, 0
                                            enter
    .text:012937AC 8B 38 01
                                            db 8Bh, 38h, 1
                                            db 8Bh;
    .text:012937AC
    .text:012937AF
    .text:012937AF 50
                                            push
                                                                                     ; Call Procedure
    .text:012937B0 E8 20 30 FF FF
                                            call
                                                    sub_12867D5
                                                    esp, 8
[ebp-1Ch], eax
    .text:012937B5 83 C4 08
                                            add
                                                                                     ; Add
    .text:012937B8 89 45 E4
                                            mov
    .text:012937BB 68 B6 73 94 E4
                                                    0E49473B6h
                                            push
                                                    ecx, ds:dword_1388B00
    .text:012937C0 8B 0D 00 8B 38 01
                                            mov
    .text:012937C6 51
                                            push
                                                    ecx
                                                                                     ; Call Procedure
    .text:012937C7 E8 09 30 FF FF
                                            call
                                                    sub_12867D5
    .text:012937CC 83 C4 08
                                            add
                                                    esp, 8
                                                                                     ; Add
    .text:012937CF 89 45 C8
                                            mov
                                                    [ebp-38h], eax
    .text:012937D2 6A 44
                                            push
                                                    44h ; 'D
   .text:012937D4 6A 00
                                            push
                                                    0
```

Figure 5 – Anti-disassembly Technique

When the dumped executable file is examined in detail, it was discovered that the malware utilizes an anti-disassembly technique called **Impossible Disassembly**. This technique obstructs the disassembler's ability to interpret the following actual command by inserting data bytes right after a conditional jump instruction. This deception causes the disassembler to misinterpret the real commands, leading to incorrect analysis and erroneous outputs.

```
.text:01293790
.text:01293790
                                            loc_1293790:
                                                                                        ; CODE XREF: sub_1282FD6<sup>†</sup>j
.text:01293790 55
.text:01293791 8B EC
                                                     ebp, esp
.text:01293791 88 EC
.text:01293793 81 EC 9C 00 00 00
.text:01293799 C7 45 F4 F0 B0 35 01
                                            sub
                                                                                         : Integer Subtraction
                                                     dword ptr [ebp-0Ch], offset unk_135B0F0
                                           mov
.text:012937A0 F8
                                                                                         ; Clear Carry Flag
                                            clc
                                                                                           Jump if Not Below (CF=0)
.text:012937A1 73 02
                                            jnb
.text:012937A1
 text:012937A3 90
                                            db 90h
.text:012937A4 90
                                           db 90h
.text:012937A5
.text:012937A5
                                                                                        ; CODE XREF: .text:012937A1<sup>†</sup>j
.text:012937A5 68 13 15 C8 1D
                                           push
.text:012937AA A1 00 8B 38 01
                                            mov
                                                     eax, ds:dword_1388B00
.text:012937AF 50
                                           push
                                                     eax
                                                                                        ; Call Procedure
.text:012937B0 E8 20 30 FF FF
                                           call
                                                    sub 12867D5
.text:012937B5 83 C4 08
                                                                                        ; Add
                                           add
                                                     esp, 8
.text:012937B8 89 45 E4
                                                     [ebp-1Ch], eax
.text:012937BB 68 B6 73 94 E4
                                           push
                                                     0E49473B6h
.text:012937C0 8B 0D 00 8B 38 01
                                           mov
                                                     ecx, ds:dword_1388B00
.text:012937C6 51
                                           push
                                                    ecx
.text:012937C7 E8 09 30 FF FF
                                                    sub_12867D5
                                                                                        ; Call Procedure
                                            call
```

Figure 6 – Patched Code

The patching process was carried out to neutralize the technique used by the malicious software. In this patching process, specific opcodes such as E8 and 8B in the malware's code were replaced with the 90 (NOP) opcode. The NOP operation instructs the processor to pass to the next command without making any changes, thereby enabling the disassembler program to correctly read the remainder of the code. As a result of these corrections, the analysis of the malicious software was accurately conducted.

```
push ebp
mov ebp,esp
           01293790
01293791
                                   8BEC
             01293793
                                   81EC 9C000000
                                                          sub esp,9
                                   C745 F4 F0B03501
                                                          mov dword ptr ss:[ebp-C],mystic.135B0F0
             01293799
             012937A0
                                   F8
                                                          clc
             012937A1
                                   73 02
                                                              mystic.12937A5
                                                          jae
nop
             012937A3
012937A4
                                                          non
             012937A5
                                   68 1315C81D
                                                          push 1DC81513
             012937AA
                                                          mov eax, dword ptr ds:[1388B00]
             012937AF
012937B0
                                                          push eax call mystic.12867D5
           50
                                   E8 2030FFFF
                                   83C4 08
                                                          add esp,
                                                          mov dword ptr ss:[ebp-1C],eax
                                   8945 E4
68 B67394E4
           012937B8
             012937BB
012937C0
                                    8B0D 008B3801
                                                          mov ecx, dword ptr ds:[1388B00]
                                   51
E8 0930FFFF
                                                          push ecx
call mystic.12867D5
             012937C6
                                                          add esp,8
            012937CC
EIP
                                    8945 C8
                                                          mov dword ntr
                                                                           ss:[ehn=38] eax
dword ptr [ebp-1c]=[002AFAF0 <&writeProcessMemory>]=<kernel32.WriteProcessMemory>
eax=<kernel32.CreateProcessW> (7692103D)
.text:012937B8 mystic.exe:$137B8 #12BB8
```

Figure 7 – API Hashing

Throughout the analysis process, it has been determined that the function named "mystic.12867D5" uses the API hashing technique to resolve the addresses of critical APIs.

CreateProcessW	WriteProcessMemory	VirtualAllocEx		
GetThreadContext	SetThreadContext	ReadProcessMemory		
TerminateProcess	ResumeThread	VirtualAlloc		

Tablo 1- Some APIs obtained through the API Hashing technique

The table above displays some of the key APIs that have been resolved using the API hashing technique.

Figure 8 – Use of CreateProcessW and Anti-debug

The call to the **CreateProcessW** API function has been executed. Upon examining the parameters given to the function, it was understood that a legal process was initiated in suspend mode. After the function call, the anti-debug technique was used again.

```
012938B2
012938B5
                                  8B4D F8
                                                       mov ecx,dword ptr ss:[ebp-8]
                                                       push ecx
            012938B6
012938B9
                                  8B55 D0
                                                       mov_edx,dword ptr ss:[ebp-30]
          push edx
                                  52
                                  FF55 C4
85C0
                                                       call dword ptr ss:[ebp-3C]
test eax,eax
            012938BA
EIP
          012938BD
                                  0F84 57010000
                                                          mystic.1293A1C
            012938BF
012938C5
                                  83C0 05
                                                       add eax,5
                                                       jne mystic.12938cc
nop
             012938C8
                                  75 02
             012938CA
             012938СВ
                                                       nop
dword ptr [ebp-3C]=[002AFAD0 <&GetThreadContext>]=<kernel32.GetThreadContext>
.text:012938BA mystic.exe:$138BA #12CBA
```

Figure 9 – Use of GetThreadContext and Anti-debug

Continuing the analysis, the malware called the **GetThreadContext** API and employed anti-debug techniques to complicate the analysis process.

```
nop
push AEFOAB32
mov eax,dword ptr ds:[1388B00]
push eax
call mystic.12867D5
add esp,8
mov dword ptr ss:[ebp-40],eax
                                                     68 32ABEOAE
                                                     68 32ABF0AE
A1 008B3801
50
E8 F92EFFFF
83C4 08
8945 C0
                                                                                                                                                                     ReadProcessMemory
                     012938DC
                     012938DF
                                                     6A 00
6A 04
8D4D A8
                                                                                       push 0
push 4
lea ecx,dword ptr ss:[ebp-58]
push ecx
                                                                                                                                                                     [ebp-58]:"%d 1 JbzaUhs8q1"
                                                     8B55 F8
8B82 A4000000
83C0 08
50
8B4D CC
                                                                                      push ecx
mov edx,dword ptr ss:[ebp-8]
mov eax,dword ptr ds:[edx+A4]
add eax,8
push eax
mov ecx,dword ptr ss:[ebp-34]
                                                                                      call dword ptr ss:[ebp-40]
push 40
push 3000
mov edx,dword ptr ss:[ebp-4]
                                                     FF55 C0
EIP:
                   012938FB
                                                     6A 40
68 00300000
8B55 FC
                                                                                                                                                                     [ebp-4]:"PE"
dword ptr [ebp-40]=[002AFACC <&ReadProcessMemory>]=<kernel32.ReadProcessMemory>
.text:012938FB mystic.exe:$138FB #12CFB
                                                                         Figure 10 - Use of ReadProcessMemory
```

Subsequently, the malware called the ReadProcessMemory API.

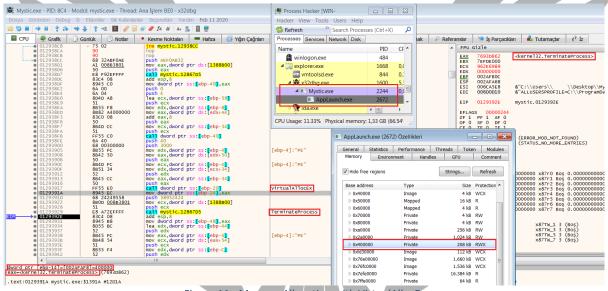


Figure 11 - Memory Allocation with VirtualAllocEx

The malware is allocating space using the **VirtualAllocEx** API in the memory space of an application named AppLaunch, which was previously initiated in suspend mode.



Figure 12 – Use of WriteProcessMemory

Upon the call to the **WriteProcessMemory** API, it was revealed that the malicious software interfered with a legitimate software named "**AppLaunch**" that was started in suspend mode. Using the **VirtualAllocEx** API, the malware wrote the previously decrypted executable file, with a starting address of 0x0135B0F0, to a specially allocated area at address 0x0400000 in the memory space of this application.

```
push ecx
mov edx,dword ptr ss:[ebp-30]
push edx
call dword ptr ss:[ebp-50]
push 5D62EB4
mov eax,dword ptr ds:[1388B00]
push eax
call mystic.12867D5
add esp,8
mov dword ptr ss:[ebp-54],eax
mov ecx,dword ptr ss:[ebp-30]
push ecx
call dword ptr ss:[ebp-54]
mov esp,ebp
                                                           8B55 D0
                       012939FB
                                                           FE55 BO
                                                                                                                                                                                      SetThreadContext
                                                           68 B42ED605
A1 008B3801
50
                       01293A09
                                                           E8 C62DFFFF
83C4 08
8945 AC
                                                                                                                                                                                       eax = ResumeThread
                                                           8B4D D0
                                                                                                                                                                                       ResumeThread
                      01293A1C
                                                                                                mov esp,ebp
                                                                                                pop ebp
dword ptr [ebp-54]=[002AFAB8 <&ResumeThread>]=<kernel32.ResumeThread>
.text:01293A19 mystic.exe:$13A19 #12E19
```

Figure 13 – Use of SetThreadContext and ResumeThread

The analysis has determined that the malware used the **SetThreadContext** API and subsequently used the **ResumeThread** API to successfully continue the suspended process. This indicates the completion of the final stage of the **Process Hollowing** technique by the malware, which involves continuing the process that appears legitimate but is filled with malicious code.

A **dump** of the injected code was taken for detailed analysis, and the examination was continued in the next phase.

Dump.exe Analysis

Name	Dump.exe					
MD5	e561df80d8920ae9b152ddddefd13c7c					
SHA256	5484ca53027230772ae149e3d7684b7e322432ceb013b6bc2440b d3c269192ea					
File Type	Portable Executable 32 (x86)					

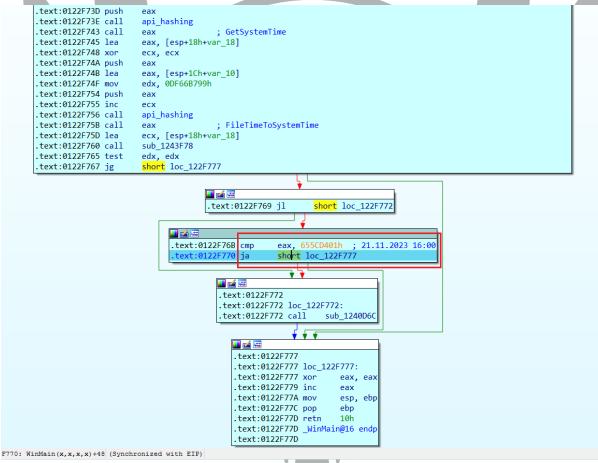


Figure 14 – Date Check

When the detailed examination of the malware's dump began, it was first identified that dynamic API resolving was conducted, and the **GetSystemTime** and **FileTimeToSystemTime** APIs were used in succession. Through these APIs, the malware obtains the current time information on the system. According to the analysis, the malware has a basic time control mechanism and checks if the system time is before November 21, 2023, 16:00. If the system time has passed this date, the malware shuts itself down.

```
01242A9E01242A9F
                                                                                   push eax
                                                           53
                                                                                   push ebx
                                                                                   push ebx
                                                          E8 8D28FFFF
                                                                                         <dump.api_hashing>
                                                                                  call eax
             01242AA6
                                                          FFD0
                                                                                  movzx edx,byte ptr ds:[124cc10]
mov esi,eax
mov cl,byte ptr ds:[124cc94]
                                                           OFB615 10CC2401
              01242AAF
                                                          SREO.
                                                          8A0D <u>94CC2401</u>
B8 15DC0000
               01242AB1
              01242AB7
                                                                                   mov eax, DC15
            .
                                                                  Ш
eax=<kernel32.CreateMutexA> (76924B6B)
.text:01242AA6 dump.exe:$22AA6 #21EA6
```

Figure 15 – Mutex Creation

The malware then attempts to create a mutex using the **CreateMutexA** API; if this fails or if the relevant mutex already exists, it shuts itself down.

```
mov eax,dword ptr ss:[esp+3C]
add al,24
shr edx,18
movzx eax,al
mov byte ptr ss:[ebp+5],dl
add ebp,8
inul ebx,eax,FF21076A
sub dword ptr ss:[esp+2C],1
mov eax,dword ptr ss:[esp+40]
mov dword ptr ds:[124CBS],edi
mov dword ptr ds:[124CBC4],ebp
ine dump.1240E88
mov esi,dword ptr ss:[esp+44]
and edi,6A9EOF56
mov dword ptr ds:[124CBC4],ecx
or cl,CO
     01240FD3
01240FD7
                                                                       8B4424 3C
04 24
      01240FD9
01240FDC
01240FDF
01240FE2
                                                                        C1EA 18
                                                                      C1EA 18

OFB6C0

8855 05

83C5 08

69D8 6A0721FF

836C24 2C 01

884424 40

893D <u>98CB2401</u>

896C24 28
       01240FF5
       01240FEB
                                                                       896C24 28

0F85 84FEFFF

887424 44

81E7 560F9E6A

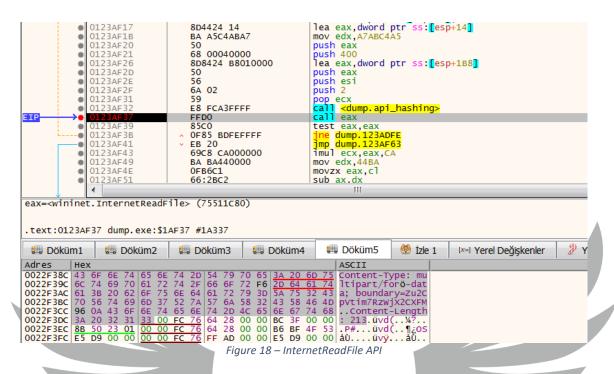
890D <u>C4CB2401</u>

80C9 C0

0FB6C1
                                                                                                                                                                                                                                                                                              [esp+44]:"http://193.233.255.73/
       0124100E
                                                                                                                                                     Figure 16 – IP Address Resolution
mov byte ptr ss:[esp+89],bl
mov dword ptr ds:[124c800],eax
lea eax,dword ptr ss:[esp+7c]
push eax
lea eax,dword ptr ss:[esp+24]
push ess
                                                                                                                                                                                                                                                                                      lea eax,dword ptr ss:[e push esi push eax push 104 push dump.124DFF8 mov edx,534FBFB6 xor ecx,ecx call eax mov eax,dword ptr ds:[1 lea edi,dword ptr ds:[1 eaved,dword ptr ds:[1 add eax.16748R3F
                                                                                                           esi:"http://193.233.255.73/"
                                                                                                                                                                                                                                                                                   Varsaylan (stdcal)
1: [esp+4] 00000104
2: [esp+8] 0022F704 "%s%s"
3: [esp+C] 0060BFE8 "http://193.233.255.73/"
4: [esp+10] 0022F814 "loghub/master"
5: [esp+14] 0060BFE8 "http://193.233.255.73/"
                                                                                                            124DFF8:"http://193.233.255.73/loghub/master'
```

Figure 17 – Address Information

The malware decrypts the encrypted IP address and path information, creating the address "193[.]233[.]255[.]73/master/login" with the _snprintf function.



The malware uses a specific API chain in the process of communicating over the internet. Initially, it starts a general internet connection with InternetOpenA. Then, it utilizes InternetCrackUrlA for URL parsing and InternetConnectA to establish a connection to a specific server. Once the connection is made, an HTTP request is created with HttpOpenRequestA. The properties of the request are set by calling InternetSetOptionA three times consecutively. After these settings, the prepared HTTP request is sent with HttpSendRequestA. Following the request, the response from the server is queried using HttpQueryInfoA, and the content of the response is read with InternetReadFile. However, since the server is closed, the call to HttpSendRequestA fails, which prevents the malware from activating and continuing its operations, thus leading it to shut down. This behavior demonstrates the necessity for the malware to establish successful communication with external servers to activate and maintain its operations.

Network Analysis

98 60.104444	192.168.78.139	192.168.78.2	NBNS	92 Name query NB WPAD<00>
99 60.416766				62 [TCP Retransmission] 49440 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 SACK_PERM=1
100 61.401787	0.0.0.0	255.255.255.255	DHCP	342 DHCP Discover - Transaction ID 0xfacb1b79
101 61.401787	192.168.78.254	192.168.78.136	DHCP	342 DHCP Offer - Transaction ID 0xfacb1b79
102 61.617796	192.168.78.139	192.168.78.2	NBNS	92 Name query NB WPAD<00>
103 63.162266	192.168.78.139	192.168.78.255	NBNS	92 Name query NB WPAD<00>
104 63.926766	192.168.78.139	192.168.78.255	NBNS	92 Name query NB WPAD<00>
105 64.691014	192.168.78.139	192.168.78.255	NBNS	92 Name query NB WPAD<00>
106 71.259672	192.168.78.139	192.168.78.2	DNS	76 Standard query 0x7781 A dns.msftncsi.com
107 71.291880	192.168.78.2	192.168.78.139	DNS	92 Standard query response 0x7781 A dns.msftncsi.com A 131.107.255.255
108 72.430326	192.168.78.139	193.233.255.73	TCP	66 49441 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1
109 72.433537	193.233.255.73	192.168.78.139	TCP	60 80 → 49440 [RST, ACK] Seq=1 Ack=1 Win=64240 Len=0
110 75.439422				66 [TCP Retransmission] 49441 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=256 SACK_PERM=1
111 75.953939	VMware_8c:01:4b	VMware_e5:ec:ed	ARP	42 Who has 192.168.78.2? Tell 192.168.78.139
112 75.954046	VMware_e5:ec:ed	VMware_8c:01:4b	ARP	60 192.168.78.2 is at 00:50:56:e5:ec:ed
113 77.407633	0.0.0.0	255.255.255.255	DHCP	342 DHCP Discover - Transaction ID 0xfacb1b79
114 77.407633	192.168.78.254	192.168.78.136	DHCP	342 DHCP Offer - Transaction ID 0xfacb1b79
115 81.445213	192.168.78.139	193.233.255.73	TCP	62 [TCP Retransmission] 49441 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 SACK_PERM=1
116 93.473876	193.233.255.73	192.168.78.139	TCP	60 80 → 49441 [RST, ACK] Seq=1 Ack=1 Win=64240 Len=0
117 105.748245	192.168.78.1	239.255.255.250	SSDP	217 M-SEARCH * HTTP/1.1
118 105.779509	192.168.78.1	239.255.255.250	SSDP	217 M-SEARCH * HTTP/1.1

Figure 19 – Wireshark Image

The interaction of the malware with the internet is as shown in the screenshot taken from Wireshark in Figure 19.

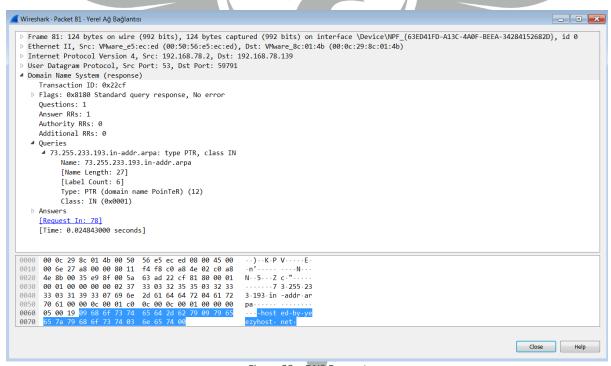


Figure 20 – DNS Request

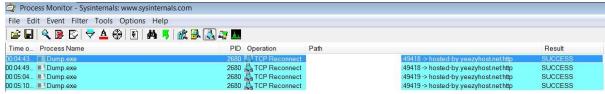
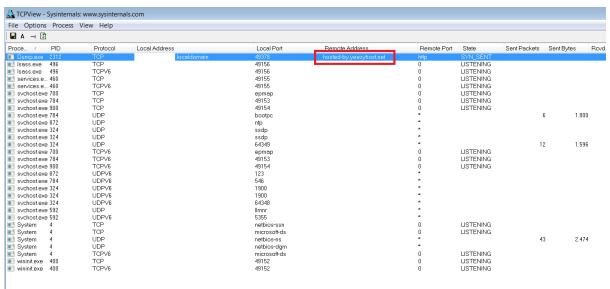


Figure 21 – Process Monitor View





YARA Rules

```
import "hash"
rule MysticStealer_s
{
  meta:
    author = " Barış Tural"
    description = "MysticStealer"
  strings:
    $str1 = "%d 1 JbzaUhs8q1"
    str2 =
"C:\\Windows\\Microsoft.NET\\Framework\\v4.0.30319\\AppLaunch.exe"
wide
    $str3 = "GYAUs87atedyuw3"
    $str4 = "A8791hbx78iUA"
    $hashing_alg = {D1 E2 8B 45 E8 0F BE 0C 10 C1 E1 10 33 4D F8
89 4D F8}
    $anti_disass1 = {F8 73 02 E8 8B 68 13 15 C8 1D A1 ?? ?? ?? ?? 50
E8 20 30 FF FF}
    $anti_disass2 = {73 04 72 02 E8 A0 68 27 26 65 7B A1}
    $anti_disass3 = {E0 72 04 73 02 E9 9F 6A 04}
  condition:
    all of them or hash.md5(0,filesize) ==
"692a59e85b4c932049ab55cb372a9509" or 3 of ($str*) and 2 of
($anti_disass*) or $hashing_alg
```

```
import "hash"
rule MysticStealer_d
  meta:
    author = " Barış Tural"
    description = "MysticStealer"
  strings:
    $str1 = "HH:mm:ss" wide
    $str2 = "morda"
    str3 =
"ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz012
3456789+/"
    $alg = {33 C8 2B D9 8B CB 8B C3 C1 E1 04 C1 E8 05}
    $ip_resolv = {80 C9 18 89 74 24 44 88 0D ?? ?? ?? ?? B8 F5 2A 00
00 0F B6 C9 66 33 C8 B8 D1 52 00 00 66 2B C8}
  condition:
    hash.md5(0,filesize) == "e561df80d8920ae9b152ddddefd13c7c" or
(2 of ($str*) and ($alg or $ip_resolv))
```

MITRE ATTACK TABLE

Reconnaissance	Execution	Discovery	Privilege Escalation	Defense Evasion	Credential Access	C&C	Exfliration
		System Information Discovery (T1082)	Process Injection (T1055)	Obfuscated Files or Information (T1027)		Application Layer Protocol (T1071)	
				Process Injection (T1055)			
				Deobfuscate /Decode Files or Information			

Recommendations

- Continuously monitor known IP addresses and domains communicated by Mystic Stealer and block access to these addresses.
- Inform users about the propagation methods of malware like Mystic Stealer.
 Warn them to be vigilant against phishing attacks and malicious email attachments.
- 3. Enable two-factor authentication (2FA) wherever possible.
- 4. Ensure that the antivirus and malware detection tools in use are kept up-to-date at all times.
- Restrict access to systems and remove unnecessarily high permissions for user accounts. Add extra layers of security for access to sensitive applications like cryptocurrency wallets.

PREPARED BY

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