



Malware Analysis Report

Ransomware.Wannacry Malware

June 2023 | Theodoros Vergos "cde" | v1.0

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Executive Report

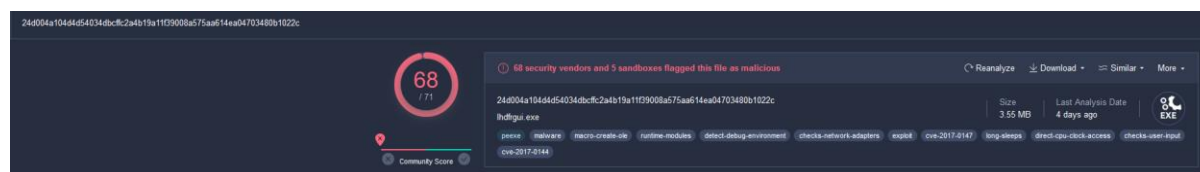
Name	Ransomware.wannacry.exe
MD5:	db349b97c37d22f5ea1d1841e3c89eb4
SHA1:	e889544aff85ffaf8b0d0da705105dee7c97fe26
SHA256:	24d004a104d4d54034dbccf2a4b19a11f39008a575aa614ea04703480b1022c
Architecture:	x86
Signature:	Microsoft Visual C++ v6.0

The file in question has been identified as an encryptor with worm capabilities. The malware has two main components, the propagator and the encryptor. Symptoms of malware presence if the network include DNS requests for the URL `hxxp://www[.]juqerfsodp9iffaposdfjhgosurijfaewrwergrwea[.]com/`, systems performing ARP requests to the network in order to discover other systems followed by connection attempts on TCP port 445 (SMB). For a successful infection the malware needs to be executed with administrative rights. Then a DNS request and an http request are performed, if the HTTP request returns an HTTP -200 response the malware does not continue with the execution.

In order to mitigate this particular strain, it is recommended to add the following URL `hxxp://www[.]juqerfsodp9iffaposdfjhgosurijfaewrwergrwea[.]com/` to systems' hosts file and DNS server records, redirecting any requests to a sinkhole server.

Additionally, a YARA rule has been included in this report to aid in identifying the malware in the wild.

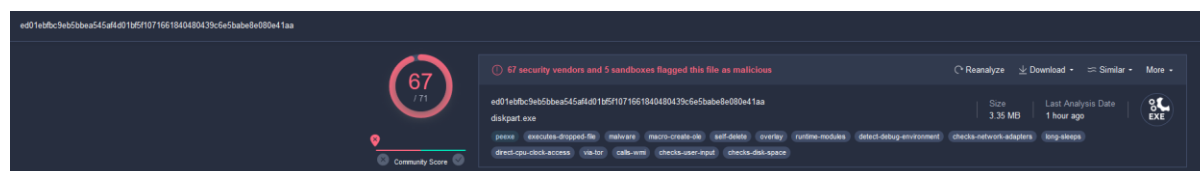
Currently, this malware has **68/71** vendors detections in *virustotal.com*



The main encryption mechanism is considered the following executable that is unpacked from the initial malware and can be used with other delivery methods as well, without relying on the *Ransomware.wannacry.exe* executable:

Name	Tasksche.exe
MD5	84c82835a5d21bbcf75a61706d8ab549
Sha1	5ff465afaabcbf0150d1a3ab2c2e74f3a4426467
SHA256	ed01ebfbc9eb5bbea545af4d01bf5f1071661840480439c6e5babe8e080e41aa
Architecture	x86
Signature	Microsoft Visual C++ v6.0

This malware has **67/71** vendor detection in *virustotal.com*



For this executable no workaround was detected in order to stop the execution.

YARA Rule

```
rule wannacry {

    meta:
        last_updated = "2023-06-18"
        author = "cde"
        description = "A Yara rule for detecting wannacry ransomware. This is
a part of the final lab for PMAT"

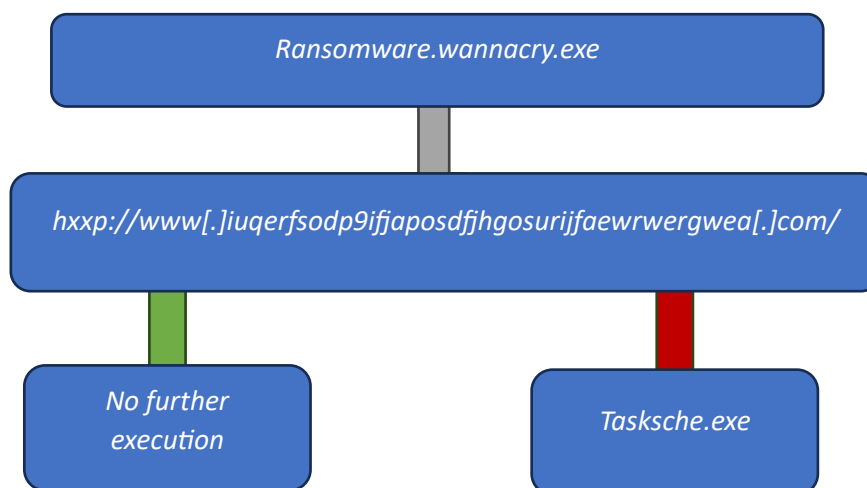
    strings:
        // Fill out identifying strings and other criteria
        $string1 = "http://www.iuqerfsodp9ifjaposdfjhgosurijfaewrwergrwa.com"
ascii
        $string2 = "C:\\%s\\qeriuwjhrf" ascii
        $string3 = "WANACRY!" ascii
        $string4 = "cmd.exe /c \"%s\""
        $string5 = "icaccls . /grant Everyone:"
        $string6 = ".wnry"
        $string7 = "13AM4VW2dhxYgXeQepoHkHSQuy6NgaEb94"
        $string8 = "12t9YDPgwueZ9NyMgw519p7AA8isjr6SMw"
        $string9 = "115p7UMMngo1pMvkhHijcRdfJNXj6LrLn"
        $PE_byte = "MZ"

    condition:
        // Fill out the conditions that must be met to identify the binary
        $PE_byte at 0 and
        ($string1 and $string2 and $string3 and $string4 and $string5 and
$string6 and $string7 and $string8 and $string9) or
        $PE_byte at 0 and
        ($string5 and $string6 and $string7 and $string8 and $string9)
}
```

High Level Technical Summary

When *Ransomware.wannacry.exe* is executed with administrative privileges the malware checks if it can make a successful callback to the URL

hxxp://www[.]jiuqerfsodp9ifjaposdfjhgosurijfaewrwergwea[.]com/ and if the callback is successful the malware is not executed. If on the other hand there is no successful response the malware proceeds to unpack its components.



Ransomware.wannacry.exe will try to identify other hosts on the network and infect them as well by connecting to systems that allow connections on the TCP port 445, which is typically used for SMB. If no hosts are identified the rest of the malware is unpacked inside *C:\ProgramData\bqztzryebik717*. From there *Tasksche.exe* is executed which enumerates the system and encrypts user files that are related to business, productivity or entertainment.

In the following sections of Static and Dynamic analysis all results are documented and reported.

Static Analysis

The following interesting strings have been identified using `floss -n 7`:

First batch of suspicious strings include the callback URL and the first executable to be unpacked.

`hxxp://www[.]iugerfsodp9ifjaposdfjhgosurijfaewrwerqwea[.]com`

```

427 C:\%s\qeriuwjhrf
428 C:\%s\%s
429 WINDOWS
430 tasksche.exe
431 CloseHandle
432 WriteFile
433 CreateFileA
434 CreateProcessA
435 http://www.iugerfsodp9ifjaposdfjhgosurijfaewrwerqwea.com
436 !This program cannot be run in DOS mode.
437 \.rdata

```

Some of the libraries used by the malware, strings that are used in the YARA rule and `icaccls` granting everyone the full access to all files.

```

570 _Controlfp
571 MSVCP60.dll
572 GetStartupInfoA
573 advapi32.dll
574 WANACRY!
575 CloseHandle
576 DeleteFileW
577 MoveFileExW
578 MoveFileW
579 ReadFile
580 WriteFile
581 CreateFileW
582 kernel32.dll
583 0|x8+^
584 2/O-_.X8w.+
585 |~}%15
586 Microsoft Enhanced RSA and AES Cryptographic Provider
587 CryptGenKey
588 CryptDecrypt
589 CryptEncrypt
590 CryptDestroyKey
591 CryptImportKey
592 CryptAcquireContextA
593 cmd.exe /c "%s"
594 115p7UMMngo1pMvKpHjCrdFJNXj6LrLn
595 12t9YDPgwueZ9NyMgw519p7AA8isjr6SMw
596 13AM4VW2dhxYgXeQepoHkHSQuy6NgaEb94
597 Global\MsWinZonesCacheCounterMutexA
598 tasksche.exe
599 TaskStart
600 icaccls . /grant Everyone:F /T /C /Q
601 attrib +h .
602 WNCry@2017
603 GetNativeSystemInfo
604 .?AVexception@@
605 incompatible version

```

This is the list of files to be unpacked by the encryptor.

```
2885 %l?E)!o
2886 msg/m_bulgarian.wnry
2887 msg/m_chinese (simplified).wnry
2888 "t=.|Vbq-
2889 msg/m_chinese (traditional).wnry
2890 msg/m_croatian.wnry
2891 msg/m_czech.wnry
2892 msg/m_danish.wnry
2893 msg/m_dutch.wnry
2894 msg/m_english.wnry
2895 msg/m_filipino.wnry
2896 msg/m_finnish.wnry
2897 msg/m_french.wnry
2898 msg/m_german.wnry
2899 msg/m_greek.wnry
2900 msg/m_indonesian.wnry
2901 msg/m_italian.wnry
2902 msg/m_japanese.wnry
2903 msg/m_korean.wnry
2904 msg/m_latvian.wnry
2905 msg/m_norwegian.wnry
2906 msg/m_polish.wnry
2907 msg/m_portuguese.wnry
2908 msg/m_romanian.wnry
2909 msg/m_russian.wnry
2910 msg/m_slovak.wnry
2911 msg/m_spanish.wnry
2912 msg/m_swedish.wnry
2913 msg/m_turkish.wnry
2914 msg/m_vietnamese.wnry
2915 taskdl.exe
2916 taskse.exe
```

Advanced Static Analysis

Adding the malware in cutter, we were able to identify the main functions and logic of the initial program.

Main:

```
[0x00408140]
int main (int argc, char **argv, char **envp);
; var int32_t var_64h @ stack - 0x64
; var int32_t var_50h @ stack - 0x50
; var int32_t var_17h @ stack - 0x17
; var int32_t var_13h @ stack - 0x13
; var int32_t var_fh @ stack - 0xf
; var int32_t var_bh @ stack - 0xb
; var int32_t var_7h @ stack - 0x7
; var int32_t var_3h @ stack - 0x3
; var int32_t var_1h @ stack - 0x1
0x00408140 sub esp, 0x50
0x00408143 push esi
0x00408144 push edi
0x00408145 mov ecx, 0xe ; 14
0x0040814a esi, str.http://www.iuqerfsodp9ifjaposdfjhgosurijfaewrgwea.com ; 0x4313d0
0x0040814f lea edi, [var_50h]
0x00408153 xor eax, eax
0x00408155 rep movsd dword es:[edi], dword ptr [esi]
0x00408157 movsb byte es:[edi], byte ptr [esi]
0x00408158 mov dword [var_17h], eax
0x0040815c mov dword [var_13h], eax
0x00408160 mov dword [var_fh], eax
0x00408164 mov dword [var_bh], eax
0x00408168 mov dword [var_7h], eax
0x0040816c mov word [var_3h], ax
0x00408171 push eax
0x00408172 push eax
0x00408173 push eax
0x00408174 push 1 ; 1
0x00408176 push eax
0x00408177 mov byte [var_1h], al
0x0040817b call dword [InternetOpenA] ; 0x40a134
0x00408181 push 0
0x00408183 push 0x84000000
0x00408188 push 0
0x0040818a lea ecx, [var_64h]
0x0040818e mov esi, eax
0x00408190 push 0
0x00408192 push ecx
0x00408193 push esi
0x00408194 call dword [InternetOpenUrlA] ; 0x40a138
0x0040819a mov edi, eax
0x0040819c push esi
0x0040819d mov esi, dword [InternetCloseHandle] ; 0x40a13c
0x004081a3 test edi, edi
0x004081a5 jne 0x4081bc
```

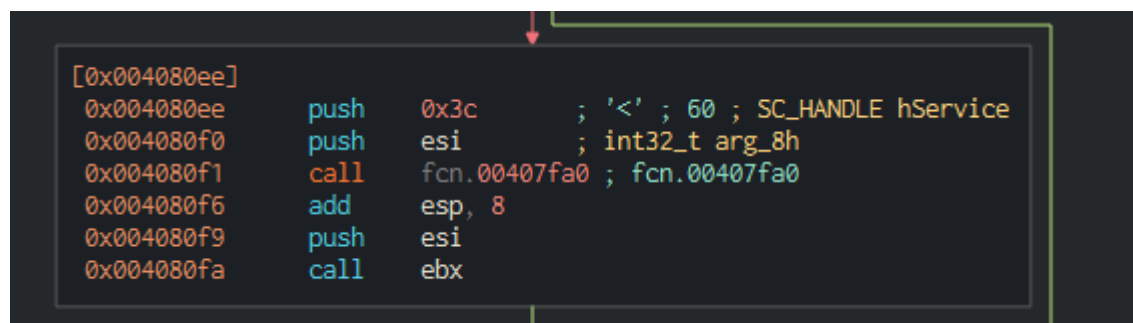
```
[0x004081a7]
0x004081a7 call esi
0x004081a9 push 0
0x004081ab call esi
0x004081ad call fcn.00408090 ; fcn.00408090
0x004081b2 pop edi
0x004081b3 xor eax, eax
0x004081b5 pop esi
0x004081b6 add esp, 0x50
0x004081b9 ret 0x10
```

```
[0x004081bc]
0x004081bc call esi
0x004081be push edi
0x004081bf call esi
0x004081c1 pop edi
0x004081c2 xor eax, eax
0x004081c4 pop esi
0x004081c5 add esp, 0x50
0x004081c8 ret 0x10
```


Fnc00408090 - No available callback:



Calls GetModuleFineNameA, then OpenSCManagerA then OpenServiceA and after that fcn.00407fa0

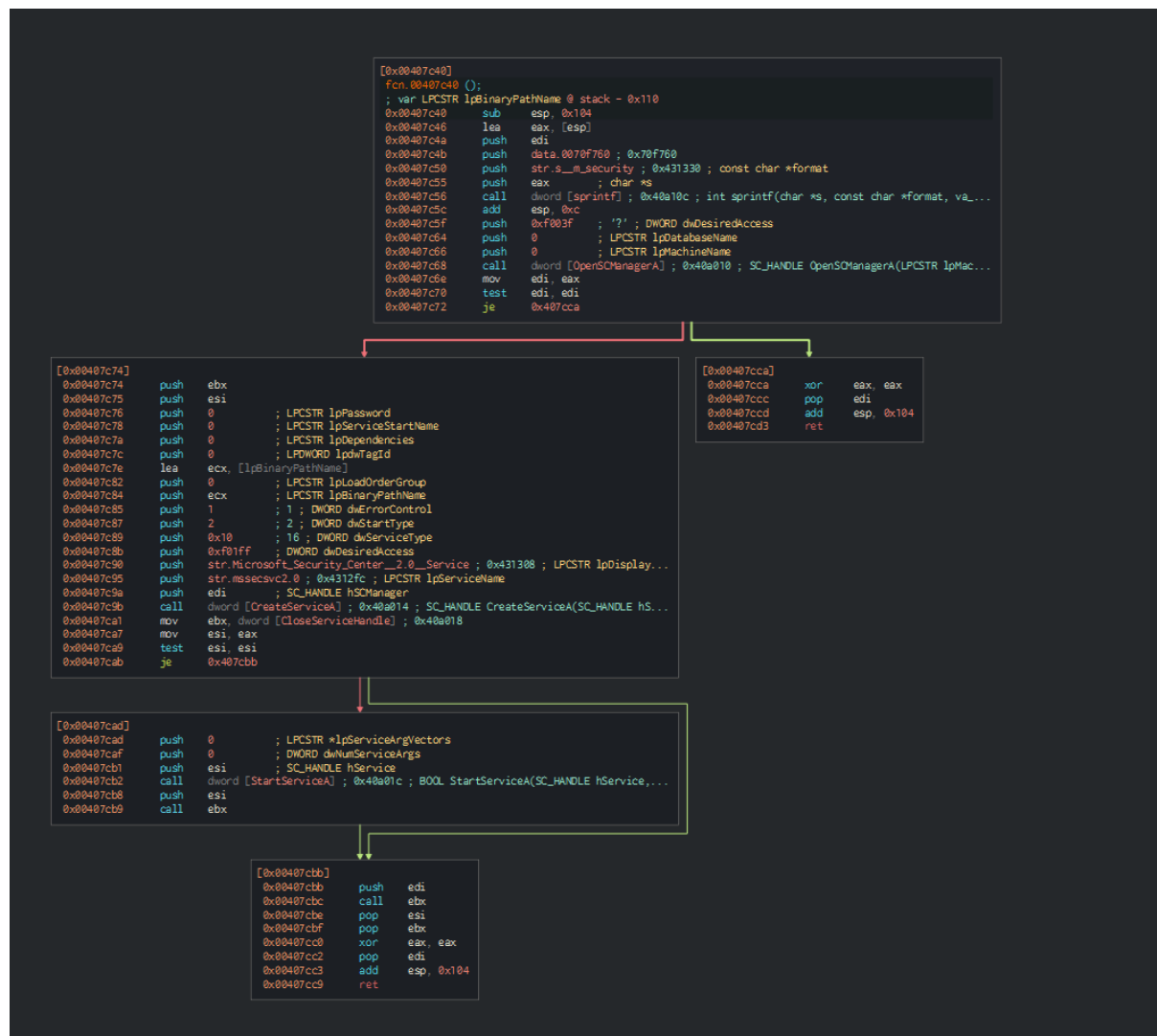


And finally, StarServiceCtrlDispatcherA and returns to the main function.

Otherwise calls function 00407f20

```
[0x00407f20]
fcn.00407f20 ();
0x00407f20    call    fcn.00407c40 ; fcn.00407c40
0x00407f25    call    fcn.00407ce0 ; fcn.00407ce0
0x00407f2a    xor     eax, eax
0x00407f2c    ret
```

Fcn.00407c40



Calls OpenSCManagerA and on successful call jumps to create a service with the following characteristics on the system

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```

[0x00407c74]
0x00407c74  push    ebx
0x00407c75  push    esi
0x00407c76  push    0          ; LPCSTR lpPassword
0x00407c78  push    0          ; LPCSTR lpServiceStartName
0x00407c7a  push    0          ; LPCSTR lpDependencies
0x00407c7c  push    0          ; LPDWORD lpdwTagId
0x00407c7e  lea     ecx, [lpBinaryPathName]
0x00407c82  push    0          ; LPCSTR lpLoadOrderGroup
0x00407c84  push    ecx        ; LPCSTR lpBinaryPathName
0x00407c85  push    1          ; 1 ; DWORD dwErrorControl
0x00407c87  push    2          ; 2 ; DWORD dwStartType
0x00407c89  push    0x10       ; 16 ; DWORD dwServiceType
0x00407c8b  push    0xf01ff    ; DWORD dwDesiredAccess
0x00407c90  push    str.Microsoft_Security_Center__2.0__Service ; 0x431308 ; LPCSTR lpDisplay...
0x00407c95  push    str.mssecsvc2.0 ; 0x4312fc ; LPCSTR lpServiceName
0x00407c9a  push    edi        ; SC_HANDLE hSCManager
0x00407c9b  call    dword [CreateServiceA] ; 0x40a014 ; SC_HANDLE CreateServiceA(SC_HANDLE hS...
0x00407ca1  mov     ebx, dword [CloseServiceHandle] ; 0x40a018
0x00407ca7  mov     esi, eax
0x00407ca9  test    esi, esi
0x00407cab  je      0x407cbb

```

```

[0x00407cad]
0x00407cad  push    0          ; LPCSTR *lpServiceArgVectors
0x00407caf  push    0          ; DWORD dwNumServiceArgs
0x00407cb1  push    esi        ; SC_HANDLE hService
0x00407cb2  call    dword [StartServiceA] ; 0x40a01c ; BOOL StartServiceA(SC_HANDLE hService,...
0x00407cb8  push    esi
0x00407cb9  call    ebx

```

```

[0x00407cbb]
0x00407cbb  push    edi
0x00407cbc  call    ebx
0x00407cbe  pop     esi
0x00407cbf  pop     ebx
0x00407cc0  xor     eax, eax
0x00407cc2  pop     edi
0x00407cc3  add     esp, 0x104
0x00407cc9  ret

```

Fcn.00407ce0 - the encryptor:

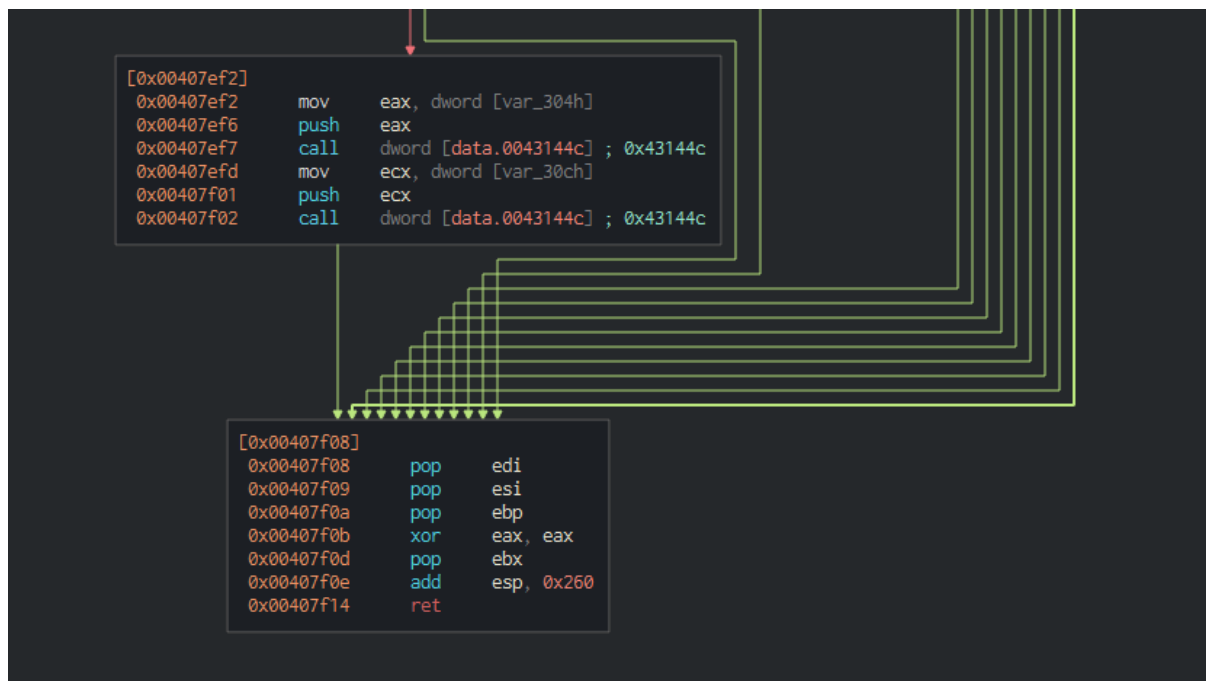
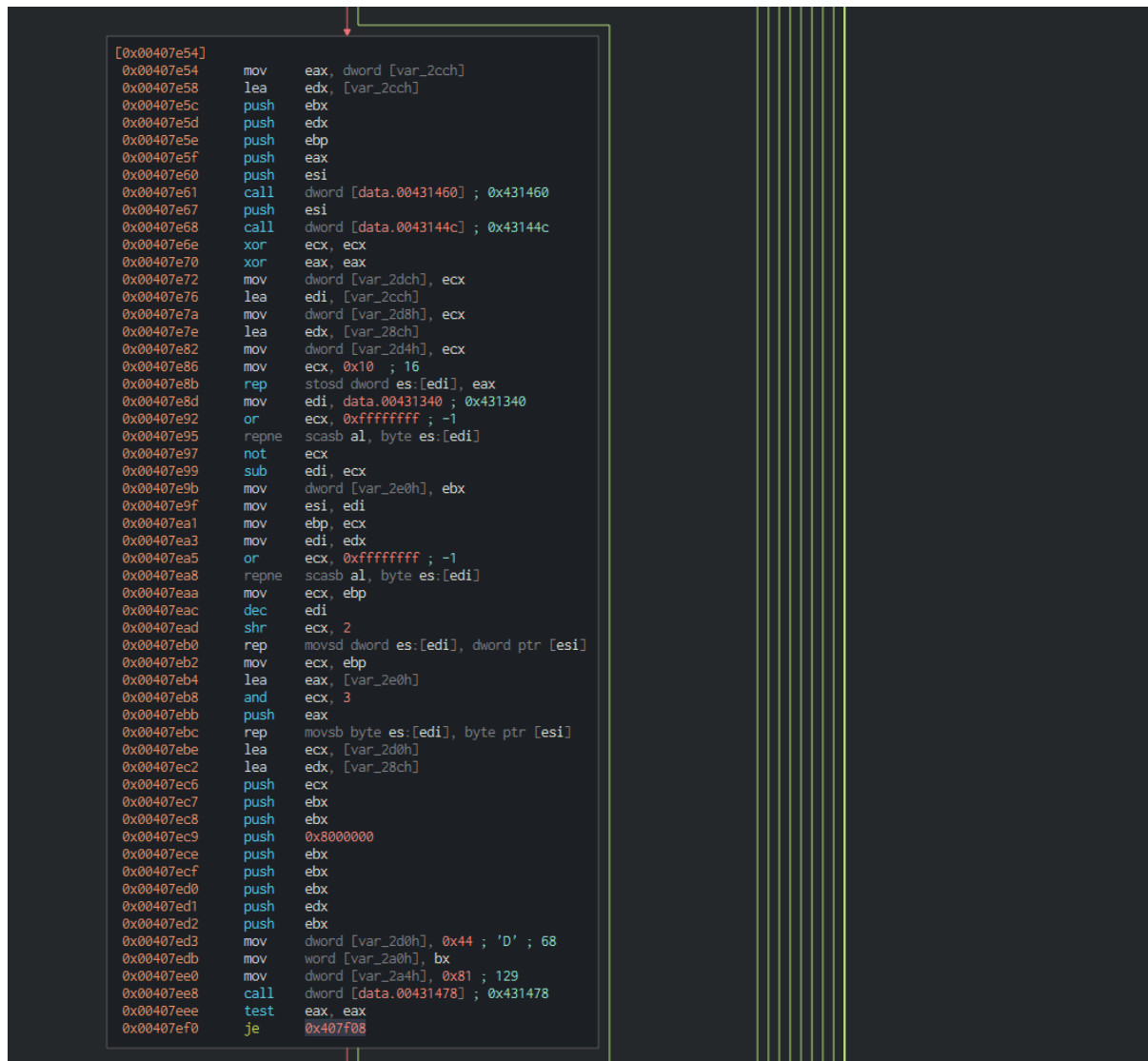
```
[0x00407ce0]
fcn.00407ce0 ();
; var int32_t var_30ch @ stack - 0x30c
; var int32_t var_304h @ stack - 0x304
; var int32_t var_2e0h @ stack - 0x2e0
; var int32_t var_2dch @ stack - 0x2dc
; var int32_t var_2d8h @ stack - 0x2d8
; var int32_t var_2d4h @ stack - 0x2d4
; var int32_t var_2d0h @ stack - 0x2d0
; var int32_t var_2cch @ stack - 0x2cc
; var int32_t var_2a4h @ stack - 0x2a4
; var int32_t var_2a0h @ stack - 0x2a0
; var LPVOID var_29ch @ stack - 0x29c
; var int32_t var_28ch @ stack - 0x28c
; var int32_t var_258h @ stack - 0x258
; var LPCSTR lpExistingFileName @ stack - 0x24c
; var LPCSTR lpNewFileName @ stack - 0x148
0x00407ce0  sub     esp, 0x260
0x00407ce6  push    ebx
0x00407ce7  push    ebp
0x00407ce8  push    esi
0x00407ce9  push    edi
0x00407cea  push    str.kernel32.dll ; 0x4313b4 ; LPCWSTR lpModuleName
0x00407cef  call    dword [GetModuleHandleW] ; 0x40a064 ; HMODULE GetModuleHandleW(LPCWSTR lp...
0x00407cf5  mov     esi, eax
0x00407cf7  xor     ebx, ebx
0x00407cf9  cmp     esi, ebx
0x00407cfb  je      0x407f08
```

```
[0x00407d01]
0x00407d01  mov     edi, dword [GetProcAddress] ; 0x40a060
0x00407d07  push    str.CreateProcessA ; 0x4313a4 ; LPOVERLAPPED lpOverlapped
0x00407d0c  push    esi ; LPDWORD lpNumberOfBytesWritten
0x00407d0d  call    edi
0x00407d0f  push    str.CreateFileA ; 0x431398 ; DWORD nNumberOfBytesToWrite
0x00407d14  push    esi ; LPCVOID lpBuffer
0x00407d15  mov     dword data.00431478, eax ; 0x431478
0x00407d1a  call    edi
0x00407d1c  push    str.WriteFile ; 0x43138c ; HANDLE hFile
0x00407d21  push    esi
0x00407d22  mov     dword data.00431458, eax ; 0x431458
0x00407d27  call    edi
0x00407d29  push    str.CloseHandle ; 0x431380 ; HANDLE hObject
0x00407d2e  push    esi
0x00407d2f  mov     dword data.00431460, eax ; 0x431460
0x00407d34  call    edi
0x00407d36  mov     ecx, dword data.00431478 ; 0x431478
0x00407d3c  mov     dword data.0043144c, eax ; 0x43144c
0x00407d41  cmp     ecx, ebx
0x00407d43  je      0x407f08
```

```
[0x00407d49]
0x00407d49  cmp     dword data.00431458, ebx ; 0x431458
0x00407d4f  je      0x407f08
```

```
[0x00407d55]
0x00407d55  cmp     dword data.00431460, ebx ; 0x431460
0x00407d5b  je      0x407f08
```





Dynamic Analysis

When executed with user privileges and inetsim the program makes a call to the URL `hxxp://www[.iugerfsodp9ifjaposdfjhgosurijfaewrwergwea[.]com/` we found earlier in static analysis and closes:

1104	2023-06-18 10:16:48.037298	172.16.0.4	172.16.0.3	HTTP	154 GET / HTTP/1.1
1108	2023-06-18 10:16:48.042920	172.16.0.3	172.16.0.4	HTTP	312 HTTP/1.1 200 OK (text/html)

> Frame 1104: 154 bytes on wire (1232 bits), 154 bytes captured (1232 bits) on interface	0000 08 00 27 9b ed 2d 08 00 27 7a 2d 78 08 00 45 00	z-x-E-
> Ethernet II, Src: PcsCompu_7a:2d:78 (08:00:27:7a:2d:78), Dst: PcsCompu_9b:ed:2d (08:	0010 08 8c 73 f3 40 00 00 00 00 ac 10 00 04 ac 10	ts@.....
> Internet Protocol Version 4, Src: 172.16.0.4, Dst: 172.16.0.3	0020 00 03 c2 9a 00 50 dc 9c 89 8e d9 8e 40 98 50 18	...P...@P-
> Transmission Control Protocol, Src Port: 49818, Dst Port: 80, Seq: 1, Ack: 1, Len: 1	0030 04 00 58 a6 00 00 47 45 54 20 2f 20 48 54 50	..X--GE T / HTTP
> Hypertext Transfer Protocol	0040 2f 31 2e 31 0d 0a 48 6f 73 74 3a 20 77 77 72 e	/1.1-Host: www.
> GET / HTTP/1.1\r\n	0050 69 75 71 65 72 66 73 6f 64 70 39 69 66 6a 61 70	iugerfso dp9ifjap
Host: www.iugerfsodp9ifjaposdfjhgosurijfaewrwergwea.com\r\n	0060 6f 73 64 66 6a 68 67 6f 73 75 72 69 6a 66 61 65	osdfjhgo surijfae
Cache-Control: no-cache\r\n	0070 77 72 77 65 72 67 77 65 61 2e 63 6f 6d 0d 0a 43	wrwergwe a.com-C
\r\n	0080 61 63 68 65 2d 43 6f 6e 74 72 6f 6c 3a 20 6e 6f	ache-Con trol: no
[Full request URI: http://www.iugerfsodp9ifjaposdfjhgosurijfaewrwergwea.com/]	0090 2d 63 61 63 68 65 0d 0a 0d 0a	-cache: ..
[HTTP request 1/1]		
[Response in frame: 1108]		

User privileges without Inetsim:

DNS request to the same url:

91	2023-06-18 10:27:09.354016	172.16.0.4	172.16.0.3	DNS	109 Standard query 0x6dbc A www.iugerfsodp9ifjaposdfjhgosurijfaewrwergwea.com
92	2023-06-18 10:27:09.354067	172.16.0.3	172.16.0.4	ICMP	137 Destination unreachable (Port unreachable)
93	2023-06-18 10:27:09.354081	172.16.0.4	172.16.0.3	DNS	109 Standard query 0x6dbc A www.iugerfsodp9ifjaposdfjhgosurijfaewrwergwea.com
94	2023-06-18 10:27:09.354134	172.16.0.3	172.16.0.4	ICMP	137 Destination unreachable (Port unreachable)

> Frame 93: 109 bytes on wire (872 bits), 109 bytes captured (872 bits) on interface	0000 08 00 27 9b ed 2d 08 00 27 7a 2d 78 08 00 45 00	z-x-E-
> Ethernet II, Src: PcsCompu_7a:2d:78 (08:00:27:7a:2d:78), Dst: PcsCompu_9b:ed:2d (08:	0010 00 5f 74 1d 00 00 00 11 00 00 ac 10 00 04 ac 10	ts@.....
> Internet Protocol Version 4, Src: 172.16.0.4, Dst: 172.16.0.3	0020 00 03 d7 6f 00 35 00 4b 58 84 6d bc 01 00 00 01	...o5-K-X-m.....
> User Datagram Protocol, Src Port: 55151, Dst Port: 53	0030 00 00 00 00 00 00 03 77 77 77 29 69 75 71 65 72w ww)iuger
> Domain Name System (query)	0040 66 73 6f 64 70 39 69 66 6a 61 70 6f 73 64 66 6a	fso dp9if japosdfj
> Transaction ID: 0x6dbc	0050 68 67 6f 73 75 72 69 6a 66 61 65 77 72 77 65 72	hg osurij faewrwe
> Flags: 0x0100 Standard query	0060 67 77 65 61 03 63 6f 6d 00 00 01 00 01	gwea.com
Questions: 1		
Answer RRs: 0		
Authority RRs: 0		
Additional RRs: 0		
Queries		
> www.iugerfsodp9ifjaposdfjhgosurijfaewrwergwea.com: type A, class IN		
[Retransmitted request. Original request in: 85]		
[Retransmission: True]		

Attempts to create a file in C:\Windows named taskche.exe, fails and exits.

3:27:09.344660 AM	Ransomware.w...	2292	CreateFile	C:\Windows\taskche.exe	NAME NOT FOUND Desired Access: Read Attributes, Delete, Synchronize, Disposition: Open, Options: Synchronou...
3:27:09.3447057 AM	Ransomware.w...	2292	CreateFile	C:\Windows\taskche.exe	ACCESS DENIED Desired Access: Generic Write, Read Attributes, Disposition: Overwrite, Options: Synchronou...
3:27:09.3447067 AM	Processmon	2297	Processmon		Success Thread ID: 4520 User Time: 0.0000000 Kernel Time: 0.0000000

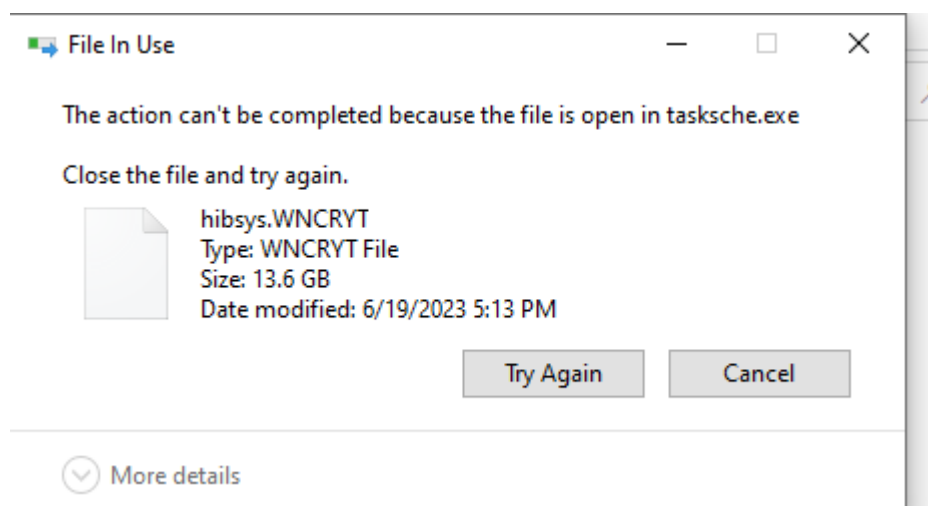
In this part we confirm that the strings we discovered earlier during the part of static analysis were actually file names.

Name	Date modified	Type	Size
msg	6/18/2023 2:57 PM	File folder	
TaskData	6/18/2023 2:58 PM	File folder	
@Please_Read_Me@.txt	6/18/2023 2:57 PM	TXT File	1 KB
@WanaDecryptor@.exe	5/12/2017 2:22 AM	Application	240 KB
@WanaDecryptor@.exe	6/18/2023 2:57 PM	Shortcut	1 KB
00000000.eky	6/18/2023 2:57 PM	EKY File	0 KB
00000000.pky	6/18/2023 2:57 PM	PKY File	1 KB
00000000.res	6/18/2023 3:11 PM	RES File	1 KB
b.wnry	5/11/2017 8:13 PM	WNCRY File	1,407 KB
c.wnry	6/18/2023 2:58 PM	WNCRY File	1 KB
f.wnry	6/18/2023 2:57 PM	WNCRY File	1 KB
r.wnry	5/11/2017 3:59 PM	WNCRY File	1 KB
s.wnry	5/9/2017 4:58 PM	WNCRY File	2,968 KB
t.wnry	5/12/2017 2:22 AM	WNCRY File	65 KB
taskdl.exe	5/12/2017 2:22 AM	Application	20 KB
tasksche.exe	6/18/2023 2:57 PM	Application	3,432 KB
taskse.exe	5/12/2017 2:22 AM	Application	20 KB
u.wnry	5/12/2017 2:22 AM	WNCRY File	240 KB

Shortly after the execution, user files are encrypted and the suffix “.WNCRY” is appended to them, the background changes to the ransomware note and the files seen in the picture below are created on the Desktop.

Name	Date modified	Type	Size
PMAT-labs-main	6/19/2023 5:01 PM	File folder	
@Please_Read_Me@.txt	6/19/2023 5:00 PM	TXT File	1 KB
@WanaDecryptor@.bmp	5/11/2017 8:13 PM	BMP File	1,407 KB
@WanaDecryptor@.exe	5/12/2017 2:22 AM	Application	240 KB
cosmo.jpeg.WNCRY	5/26/2023 11:48 AM	WNCRY File	1,714 KB
fakenet_logs	5/31/2023 7:23 PM	Shortcut	1 KB
install.ps1.WNCRY	5/31/2023 7:14 PM	WNCRY File	45 KB
Ransomware.wannacry.exe	3/19/2019 7:32 PM	Application	3,636 KB
Tools	5/31/2023 7:17 PM	Shortcut	2 KB

Another finding that after the system encryption the file hbsys.WNCRYT is generated under the C:\Windows\Temp folder that is constantly used by tasksche.exe and grows in size. No further analysis was performed on that file.



During the analysis process it was confirmed that the malware encrypts the following type of files:

1. 7zip
2. Txt
3. Jpeg
4. Ps1

It is confirmed that the malware does not encrypt files with the following suffixes:

1. Exe
2. Md
3. Dat
4. Dll
5. Tmp
6. config
7. No suffix
8. Files under C:\Windows
9. Files under C:\Program Files
10. Files under C:\Program Files (x86)