# Threat Thursday: HermeticWiper Targets Defense Sectors in Ukraine

blogs.blackberry.com/en/2022/03/threat-thursday-hermeticwiper

The BlackBerry Research & Intelligence Team



# New Disk Wiper Malware Hits Hundreds of Ukrainian Computers

In addition to suffering a full-scale military invasion in recent weeks, Ukraine is also being subjected to numerous <u>cyberattacks</u> aimed at crippling its organizations and digital infrastructure. One of the latest of these is <u>HermeticWiper</u>, a new data wiper malware that targets infrastructure and defense sectors in Ukraine, with additional reports of compromised systems coming from Lithuania and Latvia.

HermeticWiper shares some similarities with the recently discovered <u>WhisperGate</u> malware, in that it appears to function solely as a tool for destruction. After wiping the victim's disk, it then targets the Master Boot Record (MBR) before forcing a reboot, resulting in a total boot failure and rendering the system inoperable.

First reported in a tweet by <u>ESET Research on February 23<sup>rd</sup>, 2022</u>, the threat intelligence community subsequently named the new malware <u>HermeticWiper</u>, a reference to two of its main activities. The wiper first hijacks a valid code-signing certificate from Hermetica Digital

Ltd. to gain the victim's trust. It then uses a legitimate disk recovery program from EaseUS Data Recovery Wizard, packed by the threat authors as a driver, to overwrite data in the victim's Master Boot Record (MBR) and thus corrupt the file system.

A decoy ransomware component has also been reported on some systems affected by HermeticWiper, to distract the victim while the main functionality occurs.

## **Operating System**

Windows	MacOS	Linux	Android				
Yes	No	No	No				

## Risk & Impact

Impact	High
Risk	Low

## **Technical Analysis**

## **Wiper Overview**

In this blog, BlackBerry researchers will analyze a sample hash of HermeticWiper, to see what lies under the hood.

## Sample hash:

0385EEAB00E946A302B24A91DEA4187C1210597B8E17CD9E2230450F5ECE21DA

The file presents itself as "conhost.exe," borrowing the filename of the Console Windows Host for Microsoft® Windows®. The executable file uses a standard Visual Studio Project icon, as seen in Figure 1, and displays the Hermetica certificate shown in Figure 2. This inclusion of a valid certificate helps the wiper to evade detection on the system by appearing to come from a legitimate and trusted source.



Figure 1 – Program icon

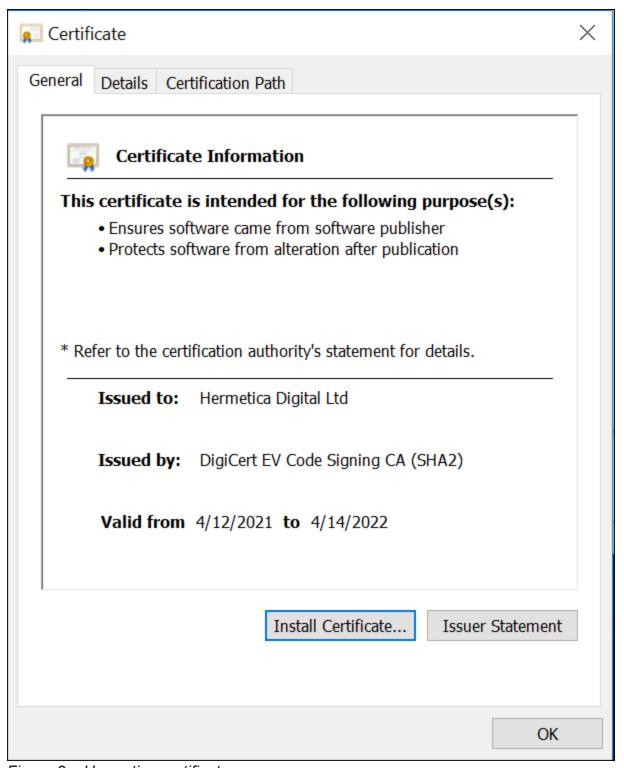


Figure 2 – Hermetica certificate

A brief look into the file shows there are four drivers packaged inside. These drivers are named DRV\_X64, DRV\_X86, DRV\_XP\_X64, and DRV\_XP\_X86, with each having "SZDD" as the first few bytes of the file, as seen in Figure 3. This indicates that the drivers are compressed with the built-in MS-DOS "compress.exe."

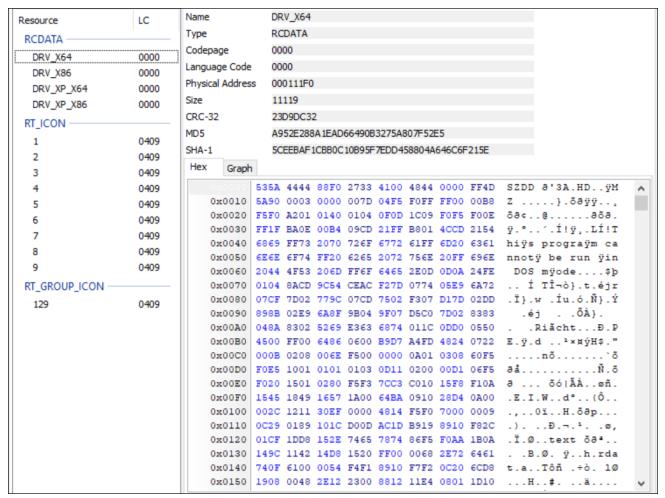


Figure 3 – Compressed drivers

Once each driver has been extracted and saved as their own file on the victim's system, an unzipping program such as 7-Zip can be used to decompress the files and reveal what they really are. An expired certificate shown in Figure 4 for CHENGDU YIWO Tech Development Co. Ltd. can be found in each driver. A quick Internet search links this certificate to a disk recovery software program called EaseUS Data Recovery Wizard.

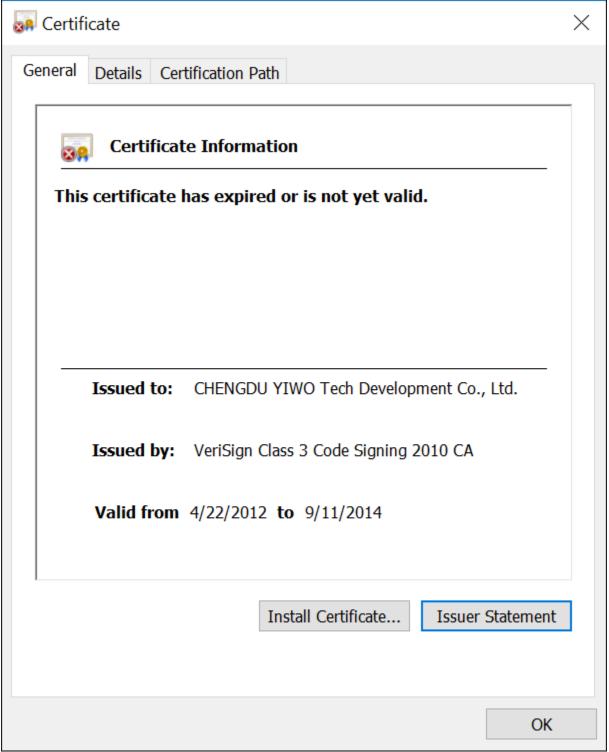


Figure 4 – CHENGDU YIWO Tech Development certificate

# **Wiper Behavior**

The files must be launched as Administrator for the wiper to execute. And for the system reboot to be triggered, the first character of the file name must be C.

Immediately after launch, a new service with a four-character randomized name starts to run, as seen in Figure 5.



Figure 5 – Service starts with random four-character name

By using a hex editor like <u>HxD</u> before and after launching, you can reveal the damage that HermeticWiper is causing to the C:\ disk. Before execution, you can see the standard 52 90 4E 54 46 53 20 bytes (shown in Figure 6) that represent the start of an NTFS formatted drive. After HermeticWiper begins to run, the threat corrupts those bytes, as you can see in Figure 7. The malicious wiper will continue to change these values as it completes its execution.

000000000	EB	52	90	4E	54	46	53	20	20	20	20	0.0	02	08	00	0.0	00	0.0	00	0.0	00	F8	00	0.0	ëR.NTFSø
000000018	3F	00	FF	00	00	30	11	00	00	00	00	00	80	00	80	00	FF	C7	6E	07	00	00	00	00	?.ÿ0€.€.ÿÇn
000000030	00	00	0C	00	00	00	00	00	02	00	00	00	00	00	00	00	F6	00	00	00	01	00	00	00	ö
000000048	79	89	АЗ	1E	В6	A3	1E	1A	00	00	00	00	FA	33	CO	8E	DO	BC	00	7C	FB	68	CO	07	y%£.¶£ú3ÀŽĐ4. ûhÀ.
000000060	1F	1E	68	66	00	СВ	88	16	0E	00	66	81	3E	03	00	4E	54	46	53	75	15	В4	41	ВВ	hf.Ë^f.>NTFSu.'A»
000000078	AA	55	CD	13	72	0C	81	FB	55	AA	75	06	F7	Cl	01	00	75	03	E9	DD	00	1E	83	EC	*UÍ.rûU*u.÷Áu.éÝfì
000000090	18	68	1A	00	B4	48	8A	16	0E	00	8B	F4	16	1F	CD	13	9F	83	C4	18	9E	58	1F	72	.h'HŠ<ôÍ.ŸfÄ.žX.r
8A000000	El	3B	06	0B	00	75	DB	АЗ	0F	00	Cl	2E	OF	00	04	1E	5A	33	DB	В9	00	20	2B	C8	á;uÛ£ÁZ3Û². +È
000000C0	66	FF	06	11	00	03	16	OF	00	8E	C2	FF	06	16	00	E8	4B	00	2B	C8	77	EF	В8	00	fÿŽÂÿèK.+Èwï,.
8Q000000D8	ВВ	CD	1A	66	23	CO	75	2D	66	81	FB	54	43	50	41	75	24	81	F9	02	01	72	1E	16	»Í.f#Àu-f.ûTCPAu\$.ùr
0000000F0	68	07	ВВ	16	68	52	11	16	68	09	00	66	53	66	53	66	55	16	16	16	68	В8	01	66	h.».hRhfSfSfUhf
000000108	61	0E	07	CD	1A	33	CO	BF	0A	13	В9	F6	0C	FC	F3	AA	E9	FE	01	90	90	66	60	1E	aÍ.3À¿¹ö.üó²éþf`.
000000120	06	66	A1	11	00	66	03	06	1C	00	1E	66	68	00	00	00	00	66	50	06	53	68	01	00	.f;ffhfP.Sh
000000138	68	10	00	B4	42	8A	16	0E	00	16	1F	8B	F4	CD	13	66	59	5B	5A	66	59	66	59	1F	h'BŠ<ôÍ.fY[ZfYfY.
000000150	0F	82	16	00	66	FF	06	11	00	03	16	OF	00	8E	C2	FF	0E	16	00	75	BC	07	1F	66	.,fÿŽÂÿu4f
000000168	61	C3	A1	F6	01	E8	09	00	A1	FA	01	E8	03	00	F4	EB	FD	8B	F0	AC	3C	00	74	09	aÃ;ö.è;ú.èôëý‹ð¬<.t.
000000180	B4	0E	BB	07	00	CD	10	EB	F2	C3	0D	0A	41	20	64	69	73	6B	20	72	65	61	64	20	'.»Í.ëòÃA disk read
000000198	65	72	72	6F	72	20	6F	63	63	75	72	72	65	64	00	OD	OA.	42	4F	4F	54	4D	47	52	error occurredBOOTMGR
0000001B0	20	69	73	20	63	6F	6D	70	72	65	73	73	65	64	00	OD	0A	50	72	65	73	73	20	43	is compressedPress C
0000001C8	74	72	6C	2B	41	6C	74	2B	44	65	6C	20	74	6F	20	72	65	73	74	61	72	74	OD	0A	trl+Alt+Del to restart
0000001E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	8A	01	š.
0000001F8	A7	01	BF	01	00	00	55	AA	07	00	42	00	4F	00	4F	00	54	00	4D	00	47	00	52	00	§.¿UªB.O.O.T.M.G.R.
000000210	04	00	24	00	49	00	33	00	30	00	00	D4	00	00	00	24	00	00	00	00	00	00	00	00	\$.I.3.0Ô\$
000000228	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
000000240	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	E9	C0	éÀ
000000258	00	90	05	00	4E	00	54	00	4C	00	44	00	52	00	07	00	42	00	4F	00	4F	00	54	00	N.T.L.D.RB.O.O.T.
000000270	54	00	47	00	54	00	07	00	42	00	4F	00	4F	00	54	00	4E	00	58	00	54	00	00	00	T.G.TB.O.O.T.N.X.T
000000288	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	0D	0A	41	6E	20	6F	An o
0000002A0	70	65	72	61	74	69	6E	67	20	73	79	73	74	65	6D	20	77	61	73	6E	27	74	20	66	perating system wasn't f

Figure 6 − C:\ drive before HermeticWiper runs

```
FA 42 61 0D B3 F0 D9 22 E9 B4 07 83 85 08 5F AE FE 23 21 9A E6 AE EC 24
                                                                             úBa.'ðÙ"é′.f...._⊗þ#!šæ®ì$
000000000
000000030 AC 6B 90 58 18 D8 44 61 78 53 05 D5 D3 9B 7F F0 90 46 70 A6 A0 B7 E7 71
                                                                             ¬k.X.@DaxS.ÕÓ>.ā.Fp! ·co
000000048 C2 46 E0 B1 D9 95 DB 3C D5 F7 16 24 50 90 OF 43 92 84 21 D2 99 37 EB 2A
                                                                             ÂFà±Ù•Û<Õ÷.$P..C',,!Ò™7ë*
000000060 86 EC FA FD 76 6D 9E F9 B2 1A B1 D0 87 FE AB B3 BA A4 35 9D 2F 1E E5 CD †ìúývmžù°.±Đ‡þ«³°¤5./.åÍ
000000078  2E CC DF AE 7B A4 49 1F 20 B6 1D BB B2 5D EE 05 56 AA FC 90 23 09 B3 79  .ÌA®{¤I. ¶.»º]î.Vªü.‡.°y
000000090
         54 06 15 B5 13 DD C6 E2 99 C0 04 D6 BE 5B AE 55 84 4D 5D 81 8D D3 2F 7E T..µ.ÝÆå™À.Ö%[®U"M]..Ó/~
                                                                             ¶.yôCs[¬ÀšRÞ¶.<L»kxô.¤P@
0000000A8 B6 9D 79 D4 43 73 5B AC CO 9A 52 DE B6 0E 8B 4C BB 6B 78 D4 AD A4 50 40
0000000C0  C5 6E A1 AD EC 4E 6D 95 FE 80 33 B6 2E A9 CF 3F AE 0E D0 AD CD 71 F5 C1  Ån;.ìNm•þ€3¶.©Ï?⊗.Ð.ÍqõÁ
0000000D8 23 1E 6C 31 C3 8F EF 72 93 D4 11 E7 A0 8C 0A BD FB 9C 93 D9 61 FC 01 26 #.11Ã.ïr~Ô.ç Œ.¾ûœ~Ďaü.@
0000000F0 CA 38 08 A6 70 67 CF 79 C2 E8 3F 00 52 D1 75 6F 65 8F B8 2E 7D 78 34 48
                                                                             Ê8. | pgÏyÂè?.RÑuoe.,. } x4H
000000108 AF 5D 40 C7 74 F7 CF 9B 55 C7 9E 2F 01 2D C4 99 27 CD F7 1D BC 92 D1 64 ¯]@Ct÷Ï>UÇž/.-Ä™'Í÷.¼'Ñd
000000120 EE 06 2F 7F 31 BB B5 FA 7E E0 80 05 A4 CD 3C 12 A5 E4 FA 5B 48 95 37 78 î./.1»µú~à€.¤Í<.¥äú[H•7x
000000138 A0 82 C7 2C 79 4E 71 10 48 89 E0 02 D0 2A E9 47 CA 14 AA F1 12 1E E3 03
                                                                             ,Ç,yNq.H‰à.Đ*éGÊ.ªñ..ã.
000000150 ED 0E D6 8F B8 A3 42 8A C2 5E DF 83 31 80 16 9B DB 57 59 1A 4F 0C 3F 4E 1.Ö.,£BŠÂ^B£1€.>ÛWY.O.?N
000000168 E4 BB 20 38 A8 E6 96 1E D3 D4 E2 A7 ED E8 80 DF B1 7F 63 BD BE 0A DE 0C  ä» 8¨æ-.ÓÔâ§iè€ß±.c≒%.Þ.
000000180 D1 8F F6 BF DA 94 00 A6 E2 5D 2D 08 BB 5A 5E F0 C9 55 39 26 8C DA A0 D1 Ñ.ö¿Ú".;â]-.»Z^ðÉU9&ŒŰ Ñ
000000198 C6 3B CB 35 D9 C1 AE 7B 0C D7 66 D9 87 78 0A B1 EA 28 C8 F0 CA C6 44 76 Æ;Ë5ÙÁ®{.×fÙ‡x.±ê(ÈðÊÆDv
0000001B0 57 77 2D B6 D9 E1 B6 1C C6 ED 34 18 AA 97 72 A7 OC 4E D9 87 75 41 52 5C Ww-¶Òá¶.Æí4.ª-r§.NÒ‡uAR\
0000001C8 8A C1 19 68 E7 20 20 4D E6 BC BA 5A 0A F9 D8 C0 59 A7 DB 93 4E 9C 50 0D ŠÁ.hç Mæ4°Z.ùøÀY§Û"NœP.
0000001E0 BA 4C 7B 76 90 14 D7 B4 E3 C5 19 DF 35 B1 EB 60 F4 89 59 3E 81 C8 03 56 °L{v..×´ãÅ.ß5±ë`ô%Y>.È.V
0000001F8 19 44 9F 8E C5 43 B8 08 DA 56 5C 69 5B C4 F0 7C 6B B2 CD 93 01 64 34 8F .DŸŽÅC,.ÚV∖i[Äð|k-í".d4.
000000240 E0 C2 E2 D6 F9 34 29 26 A3 5C AE 7B 84 25 34 42 97 3E 0C DF 60 7D C3 2B àÂâÖùĀ)&£\®{"%48—>.ß`}Ã+
000000258  40 D6 D7 C7 1D 95 C4 DE 53 C4 1D C9 28 6B A0 83 AB A2 7B 59 E1 2A 75 14  @Ö×Ç.•ÄÞSÄ.É(k f≪¢{Yá*u.
000000270 5B B2 94 63 5C FC AF 72 D0 3B BE 4F 41 EB 8A 5F E4 3E 5A A4 44 04 D2 44 ["~\ü⊤t;%OAëŠ ä>Z¤D.ÒD
000000288 A8 A7 EE A6 D5 C0 14 20 26 B7 B2 1D CA 34 62 EF 39 B2 03 C8 A9 5B 69 45 "$î;ÕÀ. &∵.Ê4bī9°.È©[iE
0000002A0  EB F4 19 9C 6A 31 C4 A5 69 AF 35 B3 60 CE 3B 30 F9 BA 35 9B 19 94 00 32  ëô.œjlÄ¥i¯5°.Î;0ù°5>.".2
```

Figure 7 – C:\ drive after HermeticWiper runs

When HermeticWiper has finished corrupting the C:\ drive, the malware restarts the affected system, which results in the dreaded Blue Screen of Death (BSOD). After attempting to restart again, the victim will be greeted with a new message indicating that their operating system is missing, as shown in Figure 8. The C:\ drive is now wiped, and the system is inoperable.

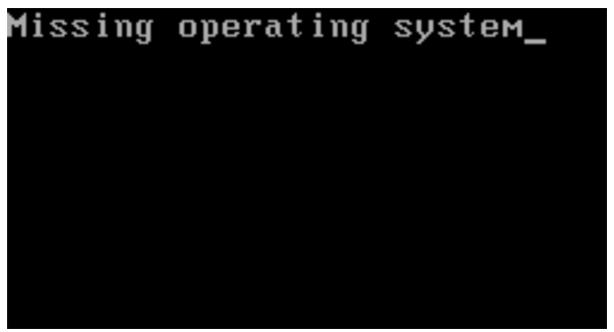


Figure 8 – The last thing any user wants to see upon reboot

# **Load Driver and Wipe Disk**

Taking a step back, let's take a look at the EaseUS Data Recovery Wizard. This is loaded by the malware as a compressed driver. The wiper contains four copies of this driver, with each corresponding to different OS versions (Windows XP or Windows 7+) and architectures (32-bit or 64-bit). As shown in Figure 9, system information first needs to be loaded by the wiper so it can then choose to start the correct driver version.

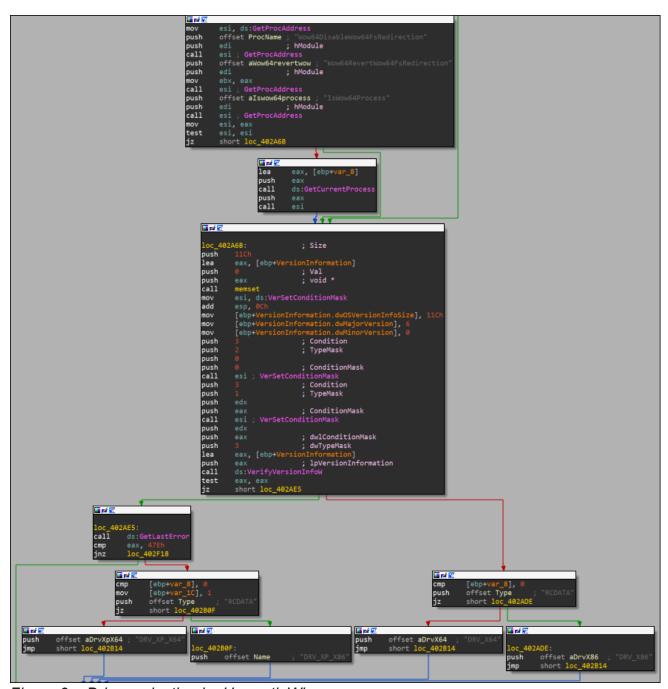


Figure 9 – Driver selection by HermeticWiper

Once the OS is identified by the malware, the corresponding compressed driver is loaded.

- DRV X64 Windows 7+ 64-bit
- DRV X86 Windows 7+ 32-bit
- DRV XP X64 Windows XP 64-bit

• DRV\_XP\_X86 - Windows XP 32-bit

HermeticWiper then decompresses the drivers with the LZMA algorithm. It uses "DeviceIoControl" for file operations such as finding the PhysicalDriveID to get information on the victim's disk partitions, as shown in Figure 10.

```
push
                 offset pszFmt
        xorps
                 xmm0, xmm0
                 [ebp+var_1C], edx
        mov
        lea
                 eax, [ebp+pszDest]
                 [ebp+var_10], 0
        mov
        push
                 104h
                                  : cchDest
                 esi. esi
        xor
                 [ebp+var_24], xmm0
        mova
                 edi, edi
        xor
        mov
                 [ebp+BytesReturned], esi
                                  ; pszDest
        push
                 eax
        movups
                 [ebp+var_44], xmm0
        mov
                 [ebp+var 18], edi
                 xmmword ptr [ebp+dwBytes], xmm0
        movups
        call
                 ds:wnsprintfW
        add
                 esp, 10h
        lea
                 eax, [ebp+var_50]
                 edx, [ebp+var_44]
ecx, [ebp+pszDest]; lpFileName
        lea
        lea
        push
                                  ; int
        call
                 sub 401870
        mov
                 ebx, eax
        cmp
                 ebx, 0FFFFFFFh
                 loc 401F73
        jz
                            I
                            test
                                     ebx, ebx
                                     loc_401FA8
                            jz
1 2 3 3 3
                                             edi, 24C0h
mov
        edi
push
                          ; dwBytes
                                             loc 401FA8:
push
                          ; dwFlags
                                             xor
                                                      eax, eax
call
        ds:GetProcessHeap
                                                      edi
                                             pop
push
        eax
                          ; hHeap
                                             pop
                                                      esi
call
        ds:HeapAlloc
                                                      ebx
                                             pop
push
                          ; lpOverlapped
                                             mov
                                                      esp, ebp
mov
        esi, eax
                                                      ebp
                                             pop
lea
        eax, [ebp+BytesReturned]
                                             retn
push
                          ; lpBytesReturned
        eax
                          : nOutBufferSize
push
        edi
push
        esi
                          : lpOutBuffer
push
                          ; nInBufferSize
                          : lpInBuffer
push
        70050h
push
                          : dwIoControlCode
push
        ebx
                          : hDevice
call
        ds:DeviceIoControl
call
        ds:GetLastError
cmp
        eax, 7Ah ; 'z'
        short loc_401E71
jnz
```

#### Figure 10 – Find PhysicalDriveID

With the drive information loaded, the CryptGenRandom function then begins to overwrite data in the Master File Table fields, \$Bitmap and \$LogFile files, recursively in the AppData, MyDocuments, Desktop, and Documents and Settings folders, and then the MBR. Once the malware has finished overwriting this data with random bytes, the system will automatically restart. This time, however, it will not boot because almost all the data on disk has been wiped. The victim's device is now unrecoverable.

## Ransomware Component

Decoys and <u>false flags</u> are deployed in many scenarios where the goal is to confuse and misdirect victims, to buy the adversary time to conduct its real mission of destroying and disabling their opponent's systems and infrastructure.

Let's take a closer look at HermeticWiper's decoy.

#### Sample hash:

4DC13BB83A16D4FF9865A51B3E4D24112327C526C1392E14D56F20D6F4EAF382

There is a ransomware component that, <u>according to AVAST</u>, sometimes comes along with the wiper as a tool of misdirection. Upon launch, the ransomware (written in <u>the programming language "Go"</u>) displays behavior typical of ransomware. The victim device's CPU utilization jumps to 100% as their files are encrypted. Once files are encrypted, they are renamed with an ".encryptedJB" extension.

There is some good news, however. The encryption used by HermeticWiper is not strong, and a <u>free decryptor</u> has already been made available for any files that victims are able to salvage from their machines.

#### Conclusion

HermeticWiper differentiates itself from other wipers by its creator's efforts to help it evade detection. This malware was created specifically to destroy the machines of victims. HermeticWiper was initially observed targeting Ukraine, but we are now hearing that it has also spread to organizations in other countries. This sort of spillover was also observed with the <u>NotPetya</u> attack, which affected numerous organizations in countries outside Ukraine.

While we're used to seeing financially motivated malware such as ransomware, wipers that exist solely for the purpose of data destruction have become a convenient tool for nefarious actors when their goal is to cripple individual organizations or even entire industries within a target area.

#### YARA Rule

The following YARA rule was authored by the BlackBerry Research & Intelligence Team to catch the threat described in this document:

```
rule HermeticWiper{
   meta:
       description = "Detects HermeticWiper"
       author = "BlackBerry Threat Research Team"
       date = "2022-03-09"
       license = "This Yara rule is provided under the Apache License 2.0
(https://www.apache.org/licenses/LICENSE-2.0) and open to any user or
organization, as long as you use it under this license and ensure originator credit
in any derivative to The BlackBerry Research & Intelligence Team"
   strings:
       $s1 = "\\\.\\EPMNTDRV\\%u" wide
       $s2 = "\\\.\\PhysicalDrive%u" wide
       $s3 = "SYSTEM\\CurrentControlSet\\Control\\CrashControl" wide
       $sd1 = "DRV X64" wide
       $sd2 = "DRV X86" wide
       $sd3 = "DRV_XP_X64" wide
       $sd4 = "DRV XP X86" wide
       c = \{ 0C 48 73 28 73 AC 8C CE BA F8 F0 E1 E8 32 9C EC \}
       x = \{ 53 5A 44 44 88 F0 27 33 41 00 48 ?? 00 00 FF 4D \}
           5A 90 00 03 00 00 00 7D 04 F5 F0 FF FF 00 00 B8
           F5 F0 ?? 01 01 40 01 04 0F 0D 1C 09 ?? ?? ?? ?? }
   condition:
       uint16(0) == 0x5a4d and filesize < 150KB and all of them
}
```

## **Indicators of Compromise (IoCs)**

#### **HermeticWiper**

06086C1DA4590DCC7F1E10A6BE3431E1166286A9E7761F2DE9DE79D7FDA9C397
3C557727953A8F6B4788984464FB77741B821991ACBF5E746AEBDD02615B1767
2C10B2EC0B995B88C27D141D6F7B14D6B8177C52818687E4FF8E6ECF53ADF5BF
0385EEAB00E946A302B24A91DEA4187C1210597B8E17CD9E2230450F5ECE21DA
1BC44EEF75779E3CA1EEFB8FF5A64807DBC942B1E4A2672D77B9F6928D292591
4AA186B5FDCC8248A9672BF21241F77DD395872EC4876C90AF5D27AE565E4CB7

#### Resource.zip – contains the wiper

92B9198B4AED95932DB029236CB8879A01C73494B545BCACB1ED40596D56990C

#### DRV X64 - Windows 7+ 64-bit

E5F3EF69A534260E899A36CEC459440DC572388DEFD8F1D98760D31C700F42D5

#### **Decompressed Hash**

96B77284744F8761C4F2558388E0AEE2140618B484FF53FA8B222B340D2A9C84

#### DRV X86 - Windows 7+ 32-bit

B01E0C6AC0B8BCDE145AB7B68CF246DEEA9402FA7EA3AEDE7105F7051FE240C1

#### **Decompressed Hash**

8C614CF476F871274AA06153224E8F7354BF5E23E6853358591BF35A381FB75B

#### DRV XP X64 - Windows XP 64-bit

B6F2E008967C5527337448D768F2332D14B92DE22A1279FD4D91000BB3D4A0FD

#### **Decompressed Hash**

23EF301DDBA39BB00F0819D2061C9C14D17DC30F780A945920A51BC3BA0198A4

## DRV XP X86 - Windows XP 32-bit

FD7EACC2F87ACEAC865B0AA97A50503D44B799F27737E009F91F3C281233C17D

#### **Decompressed Hash**

2C7732DA3DCFC82F60F063F2EC9FA09F9D38D5CFBE80C850DED44DE43BDB666D

#### Ransom Component

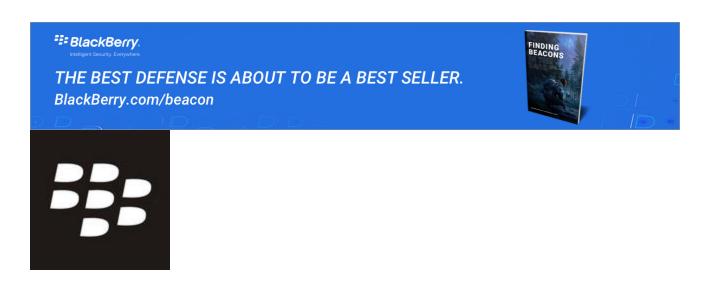
4DC13BB83A16D4FF9865A51B3E4D24112327C526C1392E14D56F20D6F4EAF382

## **BlackBerry Assistance**

If you're battling this malware or a similar threat, you've come to the right place, regardless of your existing BlackBerry relationship.

<u>The BlackBerry Incident Response team</u> is made up of world-class consultants dedicated to handling response and containment services for a wide range of incidents, including ransomware and Advanced Persistent Threat (APT) cases.

We have a global consulting team standing by to assist you, providing around-the-clock support where required, as well as local assistance. Please contact us here: <a href="https://www.blackberry.com/us/en/forms/cylance/handraiser/emergency-incident-response-containment">https://www.blackberry.com/us/en/forms/cylance/handraiser/emergency-incident-response-containment</a>



# About The BlackBerry Research & Intelligence Team

The BlackBerry Research & Intelligence team examines emerging and persistent threats, providing intelligence analysis for the benefit of defenders and the organizations they serve.

Back