# OFFENSIVE SECURITY EVASION TECHNIQUES PT.1

**JOAS ANTONIO** 

#### Details

 This is an overview book, which only helps in research in the areas of avoidance, the objective is not to demonstrate any technique in practice, just to indicate.

• My LinkedIn: <a href="https://www.linkedin.com/in/joas-antonio-dos-santos/">https://www.linkedin.com/in/joas-antonio-dos-santos/</a>

### Programming Concepts

- <a href="https://medium.com/@karan.02031993/7-programming-concepts-everyone-should-know-with-code-99066039e800">https://medium.com/@karan.02031993/7-programming-concepts-everyone-should-know-with-code-99066039e800</a>
- https://webplatform.github.io/docs/concepts/general\_programming/
- https://livecode.byu.edu/programmingconcepts/ControlStruct.php
- <a href="https://tinker.ly/important-programming-concepts-which-everyone-must-be-aware-of/">https://tinker.ly/important-programming-concepts-which-everyone-must-be-aware-of/</a>

# Programming Level

- https://bournetocode.com/projects/GCSE\_Computing\_Fundamentals/pages/3-2-9 class\_prog\_langs.html#:~:text=Programming%20languages%20can%20be%20divided,assembly%20languages%20and%20machine%20code
- <a href="https://en.wikipedia.org/wiki/High-level\_programming\_language">https://en.wikipedia.org/wiki/High-level\_programming\_language</a>
- https://www.javatpoint.com/classification-of-programminglanguages
- https://www.youtube.com/watch?v=bUWCD45qniA&ab\_channel=CS Rocks

# Windows Concept

- WOW64 utiliza quatro bibliotecas de 64 bits (Ntdll.dll, Wow64.dll, Wow64Win.dll e Wow64Cpu.dll) para emular a execução de código de 32 bits e realizar traduções entre o aplicativo e o Kernel.
- Em versões de 32 bits do Windows, a maioria dos aplicativos e bibliotecas nativos do Windows são armazenados em C: \ Windows \ System32. Em versões de 64 bits do Windows, programas nativos de 64 bits e DLLs são armazenados em C: \ Windows \ System32 e as versões de 32 bits são armazenadas em C: \ Windows \ SysWOW64.
- Como testadores de penetração, devemos permanecer cientes da arquitetura ou bitness de nossos alvos, uma vez que
- isso dita o tipo de shellcode e outro código compilado que podemos usar.

# Windows Concept

 WOW64 utilizes four 64-bit libraries (Ntdll.dll, Wow64.dll, Wow64Win.dll and Wow64Cpu.dll) to emulate the execution of 32-bit code and perform translations between the application and the kernel. On 32-bit versions of Windows, most native Windows applications and libraries are stored in C:\Windows\System32. On 64bit versions of Windows, 64-bit native programs and DLLs are stored in C:\Windows\System32 and 32-bit versions are stored in C:\Windows\SysWOW64. As penetration testers, we must remain aware of the architecture or bitness of our targets, since this dictates the type of shellcode and other compiled code that we can use.

#### Windows32 API

- https://docs.microsoft.com/enus/windows/win32/apiindex/windows-api-list
- https://docs.microsoft.com/en-us/windows/win32/api/
- https://pt.wikipedia.org/wiki/API\_do\_Windows
- https://www.youtube.com/watch?v=rloD6wWINto&ab\_channel=b1n ch3f
- https://www.youtube.com/watch?v=ml8UG\_GqOvM&ab\_channel=Sa muli
- <a href="https://mentebinaria.gitbook.io/engenharia-reversa/windows-api">https://mentebinaria.gitbook.io/engenharia-reversa/windows-api</a>
- https://riptutorial.com/winapi

# Windows Registry

- https://en.wikipedia.org/wiki/Windows\_Registry
- <a href="https://www.computerhope.com/jargon/r/registry.htm">https://www.computerhope.com/jargon/r/registry.htm</a>
- <a href="https://medium.com/@lucideus/windows-registry-forensic-analysis-part-1-windows-forensics-manual-2018-2cb4da210125">https://medium.com/@lucideus/windows-registry-forensic-analysis-part-1-windows-forensics-manual-2018-2cb4da210125</a>

#### Client Code Execution with Office

https://enigma0x3.net/2014/01/22/using-office-macros-for/

https://attack.mitre.org/techniques/T1203/

https://www.youtube.com/watch?v=hvqwpXhFGXs&ab\_channel=MotasemHamdan-CyberSecurityTrainer

https://github.com/moohax/Code-Execution

# Payload Types

- https://medium.com/@PenTest\_duck/offensive-msfvenom-fromgenerating-shellcode-to-creating-trojans-4be10179bb86#:~:text=Staged%20payloads%20send%20a%20small,the%2 Orest%20of%20the%20payload.&text=Stageless%20payloads%20send%20the%20entire,attacker%20to%20provide%20more%20data.
- https://blog.rapid7.com/2015/03/25/stageless-meterpreter-payloads/
- <a href="https://www.offensive-security.com/metasploit-unleashed/payload-types/">https://www.offensive-security.com/metasploit-unleashed/payload-types/</a>

# HTML Smuggling

https://secureteam.co.uk/articles/information-assurance/what-is-html-smuggling/

https://www.ired.team/offensive-security/defense-evasion/file-smuggling-with-html-and-javascript

https://outflank.nl/blog/2018/08/14/html-smuggling-explained/

https://threatpost.com/active-malware-campaign-html-smuggling/158439/

https://techgenix.com/duri-html-smuggling-attack/

https://www.securityweek.com/ongoing-campaign-uses-html-smuggling-malware-delivery

https://github.com/ZeddYu/HTTP-Smuggling-Lab

https://github.com/SofianeHamlaoui/Pentest-Notes/blob/master/offensive-security/defense-evasion/file-smuggling-with-html-and-javascript.md

# Phishing Pretexting

https://github.com/L4bF0x/PhishingPretexts

https://www.csoonline.com/article/3546299/what-is-pretexting-definition-examples-and-prevention.html

https://www.vadesecure.com/en/blog/pretexting-5-examples-of-social-engineering-tactics

### Execute Shellcode in Word Memory

https://www.contextis.com/en/blog/a-beginners-guide-to-windows-shellcode-execution-techniques

https://modexp.wordpress.com/2019/06/24/inmem-exec-dll/

https://blog.cystack.net/word-based-malware-attack/

https://bittherapy.net/post/malicious-document-analysis-macro-to-shellcode/

https://null-byte.wonderhowto.com/how-to/execute-code-microsoft-word-document-without-security-warnings-0180495/

https://labs.nettitude.com/blog/from-macro-to-malware-a-step-by-step-analysis/

https://github.com/bdamele/shellcodeexec

https://github.com/csandker/inMemoryShellcode

#### Powershell Shellcode Attack

https://github.com/praetorian-inc/pentestly/blob/master/scripts/Invoke-Shellcode.ps1

https://www.trustedsec.com/blog/native-powershell-x86-shellcode-injection-on-64-bit-platforms/

https://tstillz.medium.com/analyzing-obfuscated-powershell-with-shellcode-1b6cb8ab5ab0

https://cybergeeks.tech/powershell-scripts-used-to-run-malicious-shellcode-reverse-shell-vs-bind-shell/

https://pentestlab.blog/tag/shellcode/

https://gist.github.com/mattifestation/0fb1f24778f1978b8e4e

https://www.defcon.org/images/defcon-21/dc-21-presentations/Bialek/DEFCON-21-Bialek-PowerPwning-Post-Exploiting-by-Overpowering-Powershell.pdf

https://redteaming.co.uk/2020/07/05/poshc2-shellcode-and-binary-patching/

https://cybergeeks.tech/powershell-scripts-used-to-run-malicious-shellcode-reverse-shell-vs-bind-shell

### Jscript Meterpreter Dropper

https://github.com/hlldz/SpookFlare

https://github.com/Cn33liz/JSMeter

https://sectechno.com/spookflare-tool-to-bypass-client-side-security-measures/

https://khast3x.club/posts/2020-06-27-Cross-Platform-Dropper/

https://www.offensive-security.com/metasploit-unleashed/vbscript-infection-methods/

https://blog.rapid7.com/2018/05/03/hiding-metasploit-shellcode-to-evade-windows-defender/

https://www.hacking.land/2018/05/spookflare-v20-loader-dropper-generator.html

#### Shellcode Runner C#

https://github.com/HackingThings/SneakyExec

https://gist.github.com/netbiosX/5f19a3e8762b6e3fd25782d8c37b1663

https://www.ired.team/offensive-security/code-execution/using-msbuild-to-execute-shellcode-in-c

https://www.fergonez.net/post/shellcode-csharp

https://hausec.com/2020/10/30/using-a-c-shellcode-runner-and-confuserex-to-bypass-uac-while-evading-av/

#### Process Injection and Migration

https://i.blackhat.com/USA-19/Thursday/us-19-Kotler-Process-Injection-Techniques-Gotta-Catch-Them-All.pdf

https://www.elastic.co/pt/blog/ten-process-injection-techniques-technical-survey-common-and-trending-process

https://attack.mitre.org/techniques/T1055/001/

https://attack.mitre.org/techniques/T1055/

https://blog.cobaltstrike.com/2019/08/21/cobalt-strikes-process-injection-thedetails/

https://www.powershellempire.com/?page\_id=273

http://blog.carnal0wnage.com/2011/07/process-injection-outside-of-metasploit.html

https://www.itpro.co.uk/security/31080/windows-based-cli-susceptible-to-process-injection-attack

### Process Injection and Migration 2

https://www.blackhat.com/presentations/bh-usa-07/Butler\_and\_Kendall/Presentation/bh-usa-07-butler\_and\_kendall.pdf

https://i.blackhat.com/USA-19/Thursday/us-19-Kotler-Process-Injection-Techniques-Gotta-Catch-Them-All-wp.pdf

https://i.blackhat.com/eu-19/Thursday/eu-19-Block-Detecting-Un-Intentionally-Hidden-Injected-Code-By-Examining-Page-Table-Entries.pdf

https://www.blackhat.com/presentations/bh-europe-06/bh-eu-06-Cerrudo/bh-eu-06-Cerrudo-up.pdf

#### DLL INJECTION

https://en.wikipedia.org/wiki/DLL injection

https://www.ired.team/offensive-security/code-injection-process-injection/dll-injection

https://medium.com/@viniciuskmax/execut%C3%A1veis-amig%C3%A1veis-para-receberataques-process-hollowing-e-dll-injection-no-windows-ce29c14479f6

https://medium.com/bug-bounty-hunting/dll-injection-attacks-in-a-nutshell-71bc84ac59bd

https://www.apriorit.com/dev-blog/679-windows-dll-injection-for-api-hooks

http://blog.opensecurityresearch.com/2013/01/windows-dll-injection-basics.html

https://github.com/ihack4falafel/DLL-Injection

https://malcomvetter.medium.com/net-process-injection-1a1af00359bc

https://www.andreafortuna.org/2019/03/06/a-simple-windows-code-injection-example-written-in-c/

https://www.youtube.com/watch?v=CAkRsmhO2FI&ab channel=GuidedHacking

https://github.com/marcin-chwedczuk/dll-inject

https://github.com/enkomio/ManagedInjector

#### REFLECTIVE DLL INJECTION

https://www.andreafortuna.org/2017/12/08/what-is-reflective-dll-injection-and-how-can-be-detected/

https://github.com/stephenfewer/ReflectiveDLLInjection

https://www.ired.team/offensive-security/code-injection-process-injection/reflective-dll-injection

https://0x00sec.org/t/reflective-dll-injection/3080

https://www.youtube.com/watch?v=p-ufU9W1i7Q&ab\_channel=DebasishMandal

https://www.youtube.com/watch?v=ilRJRkMyzlA&ab\_channel=DebasishMandal

https://www.youtube.com/watch?v=z9ayytxsItU&ab channel=BenGreenberg

https://blog.f-secure.com/memory-injection-like-a-boss/

https://i.blackhat.com/USA-20/Thursday/us-20-Chen-Operation-Chimera-APT-Operation-Targets-Semiconductor-Vendors.pdf

https://www.microsoft.com/security/blog/2017/11/13/detecting-reflective-dll-loading-with-windows-defender-atp/

#### PROCESS HOLLOW

```
https://github.com/m0n0ph1/Process-Hollowing
```

https://attack.mitre.org/techniques/T1055/012/

https://www.youtube.com/watch?v=bExOwYRxE2w&ab\_channel=Monnappa KA

https://www.youtube.com/watch?v=9L9I1T5QDg4&ab\_channel=BlackHat

https://www.ired.team/offensive-security/code-injection-process-injection/process-hollowing-and-pe-image-relocations

https://cysinfo.com/detecting-deceptive-hollowing-techniques/

https://www.blackhat.com/docs/asia-17/materials/asia-17-KA-What-Malware-Authors-Don't-Want-You-To-Know-Evasive-Hollow-Process-Injection-wp.pdf

#### PROCESS HOLLOW 2

https://3xpl01tc0d3r.blogspot.com/2019/10/process-injection-part-iii.html

http://www.rohitab.com/discuss/topic/42237-understanding-process-hollowing/

https://www.youtube.com/watch?v=SPqD1c6G-U8&ab\_channel=CyberDecode

https://www.youtube.com/watch?v=5IyGiEajltM&ab\_channel=MohammedAlmodawah

https://github.com/secrary/InjectProc

#### **AV Concepts**

https://university.monstercloud.com/cyber-security/types-of-antiviruses/

https://softwarelab.org/what-is-antivirus-software/

https://en.wikipedia.org/wiki/Antivirus\_software

https://www.numbones.com/2019/01/antivirus.html

https://www.baboo.com.br/seguranca-digital/conteudo-essencial-seguranca-digital/como-funcionam-os-antivirus/

#### Metasploit Encoders

https://www.offensive-security.com/metasploit-unleashed/generating-payloads/

https://null-byte.wonderhowto.com/how-to/hack-like-pro-metasploit-for-aspiring-hacker-part-5-msfvenom-0159520/

https://securityboulevard.com/2020/02/evading-antivirus-with-better-meterpreter-payloads/

https://www.blackhat.com/presentations/bh-usa-08/Smith\_Ames/BH\_US\_08\_Smith\_Ames\_Meta-Post\_Exploitation.pdf

https://www.blackhat.com/presentations/bh-dc-10/Moore\_HD/BlackHat-DC-2010-Moore\_Metasploit-and-Money-wp.pdf

https://www.offensive-security.com/metasploit-unleashed/msfencode/

https://www.fireeye.com/blog/threat-research/2019/10/shikata-ga-nai-encoder-still-going-strong.html

https://www.rapid7.com/globalassets/\_pdfs/whitepaperguide/rapid7-whitepaper-metasploit-framework-encapsulating-av-techniques.pdf

https://resources.infosecinstitute.com/wp-content/uploads/Advanced-Pentesting-Techniques-with-Metasploit.pdf

# AV Signature

obscuresec: Finding Simple AV Signatures with PowerShell (obscuresecurity.blogspot.com)

https://www.lmgsecurity.com/common-antivirus-bypass-techniques/

https://dl.packetstormsecurity.net/papers/bypass/bypassing-av.pdf

https://offs3cg33k.medium.com/antivirus-evasion-bypass-techniques-b547cc51c371

https://null-byte.wonderhowto.com/how-to/hack-like-pro-bypass-antivirus-software-by-disguising-exploits-signature-0141122/

https://medium.com/@bluedenkare/1-click-meterpreter-exploit-chain-with-beef-and-av-amsi-bypass-96b0eb61f1b6

### Metasploit Encryptor

https://blog.rapid7.com/2019/11/21/metasploit-shellcode-grows-up-encrypted-and-authenticated-c-shells/

https://github.com/MrMugiwara/Metasploit-Encryption

https://hakin9.org/xeexe-undetectable-xor-encrypting-with-custom-key-fud-metasploit-rat/

https://www.youtube.com/watch?v=qtM0hpv5Vt4&ab\_channel=BlackHat

https://thedarksource.com/msfvenom-cheat-sheet-create-metasploit-payloads/

https://hacker.house/lab/windows-defender-bypassing-for-meterpreter/

https://medium.com/@PenTest\_duck/offensive-msfvenom-from-generating-shellcode-to-creating-trojans-4be10179bb86

# Bypass AV with C#

https://damonmohammadbagher.medium.com/bypass-all-anti-viruses-by-encrypted-payloads-with-c-278654f633f0

https://medium.com/@carlosprincipal1/how-to-bypass-antivirus-av-2020-easy-method-69749892928b

https://www.linkedin.com/pulse/bypass-all-anti-viruses-encrypted-payloads-c-damon-mohammadbagher/

https://www.youtube.com/watch?v=g3Q9Jqi3sis&ab\_channel=LoveCrypter

https://github.com/Ch0pin/AVIator

https://github.com/lockfale/DotNetAVBypass-Master

https://dione.lib.unipi.gr/xmlui/bitstream/handle/unipi/12797/Panagopoulos\_1727.pdf?sequence=3&isAllowed=y

https://book.hacktricks.xyz/windows/av-bypass

# Build bypass AV with C#

https://www.xanthus.io/post/building-an-obfuscator-to-evade-windows-defender

https://s3cur3th1ssh1t.github.io/Customizing\_C2\_Frameworks/

https://ethicalhackingguru.com/how-to-use-confuser-ex-to-bypass-antivirus/

https://offensivedefence.co.uk/posts/covenant-profiles-templates/

https://cognosec.com/bypassing-symantec-endpoint-protection-for-fun-profit-defense-evasion/

https://github.com/alphaSeclab/anti-av

https://github.com/Techryptic/AV\_Bypass

https://0x00sec.org/t/new-av-bypass-techniques/9608

### Bypass AV with VBA

https://www.youtube.com/watch?v=UoMzCyB2IvE&ab\_channel=MotasemHamdan-CyberSecurityTrainer

https://www.youtube.com/watch?v=9MvakIrbX0Q&ab\_channel=MattN

https://www.youtube.com/watch?v=Zl7zWa8au28&ab\_channel=Sevagas

https://www.youtube.com/watch?v=m3R3LDIrroQ&ab\_channel=Sevagas

http://blog.sevagas.com/?Launch-shellcodes-and-bypass-Antivirus-using-MacroPack-Pro-VBA-payloads

https://medium.com/maverislabs/yet-another-update-to-bypass-amsi-in-vba-19ddf9065c04

https://infosecwriteups.com/fun-with-creating-a-vbs-payload-to-bypass-endpoint-security-and-other-layers-44afd724de1b

https://outflank.nl/blog/2019/04/17/bypassing-amsi-for-vba/

https://github.com/sevagas/macro\_pack

https://blog.focal-point.com/how-to-build-obfuscated-macros-for-your-next-social-engineering-campaign

### Bypass AV with VBA 2

https://www.certego.net/en/news/advanced-vba-macros/

https://i.blackhat.com/eu-19/Wednesday/eu-19-Lagadec-Advanced-VBA-Macros-Attack-And-Defence-2.pdf

https://www.blackhat.com/docs/us-15/materials/us-15-Graeber-Abusing-Windows-Management-Instrumentation-WMI-To-Build-A-Persistent%20Asynchronous-And-Fileless-Backdoor-wp.pdf

https://i.blackhat.com/USA-19/Wednesday/us-19-Bernal-Detecting-Malicious-Files-With-YARA-Rules-As-They-Traverse-the-Network-wp.pdf

https://i.blackhat.com/asia-19/Thu-March-28/bh-asia-Hegt-MS-Office-in-Wonderland.pdf

https://www.blackhat.com/docs/us-16/materials/us-16-Bulazel-AVLeak-Fingerprinting-Antivirus-Emulators-For-Advanced-Malware-Evasion.pdf

https://i.blackhat.com/USA-19/Wednesday/us-19-Burke-ClickOnce-And-Youre-In-When-Appref-Ms-Abuse-Is-Operating-As-Intended-wp.pdf

#### AMSI Concept

https://docs.microsoft.com/en-us/windows/win32/amsi/antimalware-scan-interface-portal

https://medium.com/@two06/amsi-as-a-service-automating-av-evasion-2e2f54397ff9

https://docs.microsoft.com/en-us/windows/win32/amsi/how-amsi-helps

https://www.blackhat.com/docs/us-16/materials/us-16-Mittal-AMSI-How-Windows-10-Plans-To-Stop-Script-Based-Attacks-And-How-Well-It-Does-It.pdf

#### AMSI Bypass

https://i.blackhat.com/briefings/asia/2018/asia-18-Tal-Liberman-Documenting-the-Undocumented-The-Rise-and-Fall-of-AMSI.pdf

https://www.blackhat.com/docs/eu-17/materials/eu-17-Thompson-Red-Team-Techniques-For-Evading-Bypassing-And-Disabling-MS-Advanced-Threat-Protection-And-Advanced-Threat-Analytics.pdf

https://i.blackhat.com/us-18/Wed-August-8/us-18-Graeber-Subverting-Sysmon-Application-Of-A-Formalized-Security-Product-Evasion-Methodology-wp.pdf

https://i.blackhat.com/briefings/asia/2018/asia-18-bohannon-invoke dosfuscation techniques for fin style dos level cmd obfuscation.pdf

https://medium.com/@byte\_St0rm/adventures-in-the-wonderful-world-of-amsi-25d235eb749c

https://medium.com/@gamer.skullie/bypassing-amsi-with-an-unconventional-powershell-cradle-6bd15a17d8b9

# AMSI Bypass 2

https://www.contextis.com/en/blog/amsi-bypass

https://infosecwriteups.com/bypass-amsi-in-powershell-a-nice-case-study-f3c0c7bed24d

https://blog.f-secure.com/hunting-for-amsi-bypasses/

https://blog.securityevaluators.com/creating-av-resistant-malware-part-2-1ba1784064bc

https://enigma0x3.net/2017/07/19/bypassing-amsi-via-com-server-hijacking/

https://github.com/S3cur3Th1sSh1t/Amsi-Bypass-Powershell

https://github.com/rasta-mouse/AmsiScanBufferBypass

https://github.com/0xB455/AmsiBypass

### AMSI Bypass 3

https://github.com/0r13lc0ch4v1/HideFromAMSI

https://github.com/Joefreedy/AMSI-Bypass

https://github.com/WayneJLee/CsharpAmsiBypass

https://www.youtube.com/watch?v=0W9wkamknfM&ab\_channel=Pen TestPartnersLLP

https://www.unma.sk/posts/amsi-bypass/

https://hakin9.org/http-revshell-powershell-reverse-shell-using-http-s-protocol-with-amsi-bypass-and-proxy-aware/

https://blog.ironmansoftware.com/protect-amsi-bypass/

https://github.com/CBHue/PyFuscation

https://github.com/danielbohannon/Invoke-Obfuscation

https://medium.com/@ammadb/invoke-obfuscation-hiding-payloads-to-avoid-detection-87de291d61d3

https://www.youtube.com/watch?v=uE8IAxM\_BhE&ab\_channel=Hacktivity-ITSecurityFestival

https://www.youtube.com/watch?v=PMh0 59jD2U&ab channel=nullcon

https://www.youtube.com/watch?v=1sb0jXPzjU&ab channel=CQUREAcademy

https://www.vadesecure.com/en/blog/malware-analysis-understanding-code-obfuscation-techniques

https://www.danielbohannon.com/blog-1/2017/12/2/the-invoke-obfuscation-usage-guide

https://pentestit.com/invoke-obfuscation-powershell-command-scriptobfuscator/

https://www.varonis.com/blog/powershell-obfuscation-stealth-through-confusion-part-i/

https://securityintelligence.com/an-example-of-common-string-and-payload-obfuscation-techniques-in-malware/

https://blog.malwarebytes.com/threat-analysis/2013/03/obfuscation-malwares-best-friend/

https://ditrizna.medium.com/red-team-use-case-of-open-source-weaponization-5b22b0e287a5

https://3xpl01tc0d3r.blogspot.com/2020/08/introduction-to-obfuscator.html

https://github.com/r00t-3xp10it/hacking-material-books/blob/master/obfuscation/simple\_obfuscation.md

https://thewover.github.io/Introducing-Donut/

https://www.fireeye.com/blog/threat-research/2019/10/staying-hidden-on-the-endpoint-evading-detection-with-shellcode.html

https://res-

4.cloudinary.com/eventpower/image/upload/v1/19ncs/presentation\_files/sao3ktg3tjrhairwd7hb.pptx.pdf

https://medium.com/@vikrant.navalgund/encoded-obfuscated-shellcode-securitytube-linux-assembly-expert-32-bit-exercise-4-568c5a18149a

https://www.andreafortuna.org/2017/09/06/unibyav-shellcode-obfuscation-using-python/

https://breakdev.org/x86-shellcode-obfuscation-part-1/

https://www.hackingloops.com/msfvenom/#:~:text=Obfuscation%20is%20the%20concept%20that,some%20lesser%20anti%2Dvirus%20software

https://null-byte.wonderhowto.com/how-to/bypass-antivirus-software-by-obfuscating-your-payloads-with-graffiti-0215787/

https://www.youtube.com/watch?v=xNhQMwC0BLo&ab channel=NullByte

https://www.youtube.com/watch?v=BNrGd55TBio&ab\_channel=graylagx2

https://www.youtube.com/watch?v=Tl4zUQ9u1lg&ab\_channel=portalmafiacom

https://www.hak5.org/gear/duck/optimizing-and-obfuscating-payloads-usb-rubber-ducky-101

```
https://www.youtube.com/watch?v=mJZCNqcO10A&ab channel=RedTeamVillage
https://www.youtube.com/watch?v=umN1wV-TzW4&ab channel=BHack
https://www.youtube.com/watch?v=0SvX6F80qg8&ab channel=BlackHat
https://www.youtube.com/watch?v=x97ejtv56xw&ab channel=BlackHat
https://www.youtube.com/watch?v=l5sMPGjtKn0&ab channel=BlackHat
https://www.youtube.com/watch?v=mej5L9PE1fs&ab channel=BlackHat
https://www.youtube.com/watch?v=iva16Bg5imQ&ab channel=Christiaan008
https://www.youtube.com/watch?v=v7XcyCjUTWk&ab_channel=DEFCONConferenc
<u>e</u>
https://www.youtube.com/watch?v=0RADvfJysuA&ab channel=JohnHammond
```

# Powershell Unmanaged

https://github.com/leechristensen/UnmanagedPowerShell

https://www.optiv.com/explore-optiv-insights/blog/unmanaged-powershell-binaries-and-endpoint-protection

https://www.youtube.com/watch?v=7tvfb9poTKg&ab\_channel=RaphaelMud
ge

https://blog.cobaltstrike.com/2016/05/18/cobalt-strike-3-3-now-with-less-powershell-exe/

https://adsecurity.org/?p=2921

# Powershell CLM Bypass

https://www.secjuice.com/powershell-constrainted-language-mode-bypass-using-runspaces/

https://www.mdsec.co.uk/2018/09/applocker-clm-bypass-via-com/

https://github.com/padovah4ck/PSByPassCLM

https://www.ired.team/offensive-security/code-execution/powershell-constrained-language-mode-bypass

https://blog.netspi.com/15-ways-to-bypass-the-powershell-execution-policy/

https://www.linkedin.com/pulse/powershell-bypass-constrained-language-mode-rotem-simhi/?articleId=6610158125347549184

#### Conclusion

• This book aims to help you in your studies, whether for certification, research or even acquire more skills.

• Several materials were used and consulted to create this small PDF that several parts. I can say that it is based on materials from EC-COUNCIL, Offensive Security, eLearnsecurity, SANS.