

# WINspect

#### Information Security Inc.



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# About WINspect

- WINspect is part of a larger project for auditing different areas of Windows environments
- It focuses on enumerating different parts of a Windows machine to identify security weaknesses and point to components that need further hardening
- The main targets for the current version are domain-joined windows machines. However, some of the functions still apply for standalone workstations
- Github > https://github.com/A-mIn3/WINspect



## **WINspect** features

- Checking for installed security products
- Enumerating world-exposed local filesystem shares
- Enumerating domain users and groups with local group membership
- Enumerating registry autoruns
- Enumerating local services that are configurable by Authenticated Users group members
- Enumerating local services for which corresponding binary is writable by Authenticated Users group members



## **WINspect** features

- Enumerating non-system32 Windows Hosted Services and their associated DLLs
- Enumerating local services with unquoted path vulnerability
- Enumerating non-system scheduled tasks
- Checking for DLL hijackability
- Checking for User Account Control settings
- Checking for unattended installs leftovers



#### • Download and the script

GitHub, Inc. [US] github.com/A-mIn3/WINspect	

Powershell-based Windows Security Auditing Toolbox

⑦ 19 commits	<b>∦ 1</b> branch	🖏 0 releases	1 contributor	₫ GPL-2.0	
Branch: master 👻 New pull requ	uest		Find	file Clone or dow	nload 1
A-mIn3 committed on GitHu	b Update README.md		Clone with HTTPS ③		
LICENSE	Creat	e LICENSE	Use Git or checkout with SVN	using the web URL.	1
README.md	Upda	te README.md	https://github.com/A-mIn	3/WINspect.git	Ē
WINspect.ps1	Upda	te WINspect.ps1	Open in Desktop	Download Z	IP



- Run the script from powershell
- Make sure to have the Execution Policy configured to "Unrestricted". Default settings is Undefined hence the script cannot be run
- Execution Policy status can be checked with the following command

PS C:\Users\Use	r3\Music\WINspec	ct-master\WINspect-master>	Get-ExecutionPolicy -L	.ist
Scope E	xecutionPolicy			
MachinePolicy UserPolicy Process	Undefined Undefined Undefined			
CurrentUser	Unrestricted			



• The Execution Policy can be modified using the following command

		master\WINspect-master: master\WINspect-master:		CurrentUser	-Force
Scope Exe	ecutionPolicy				
 MachinePolicy UserPolicy Process	Undefined Undefined Undefined				
CurrentUser	Undefined				
LUCamacinne	under med				



• Run the script

PS C:\Users\User3\Music\WINspect-master\WINspect-master> .\WINspect.ps1

Security warning Run only scripts that you trust. While scripts from the internet can be useful, this script can potentially harm your computer. If you trust this script, use the Unblock-File cmdlet to allow the script to run without this warning message. Do you want to run C:\Users\User3\Music\WINspect-master\WINspect-master\WINspect.ps1? [D] Do not run [R] Run once [S] Suspend [?] Help (default is "D"): R\_

• The script bails out when it couldn't find any domain as per below





## **QuickTest domain-joined machine**

• Run the script

🛃 Administrator: Windows PowerShell			
Starting Audit at 9/11/2017 6:18:27 PM			
[?] Checking for administrative privilege	s		
[?] Checking for Default PowerShell versi	on		
[+]> PowerShell v5			
[?] Detecting system role			
[+]> Member Workstation			
[7] Checking if Windows Firewall is enabl	ed		
[?] Checking Firewall Profiles			
[*] Standard Profile	Firewall	: Enab	led.
[*] Public Profile	Firewall	: Enab	led.
[*] Domain Profile	Firewall	: Disa	bled.
[?] Checking for third party Firewall pro	ducts		
[-] No other firewall installed.			
[?] Checking for installed antivirus prod	ucts		
[+] Found 1 AntiVirus solutions.			
[?] Checking for product conf	iguration .		
[+] Product Name [+] Service Type [+] Real Time Protec	tion : .	dows Defe	nder.
[+] Signature Defini	tions : Up-	to-date.	

• The script confirms that it's running with admin rights, checks PowerShell version, then inspects Windows Firewall settings



## **QuickTest domain-joined machine**

🗵 Select Administrator	r: Windows PowerShell
[?] Checking for UA	C configuration
[+] UAC i	s enabled.
[?]Chec	king for UAC level
	[*] UAC Level : Notify only when apps try to make changes (secure desktop on).
	ry keys for autoruns \SOFTWARE\Microsoft\Windows\CurrentVersion\Run\ :
Executable	Path
VMware User Process SecurityHealth	C:\Program Files\VMware\VMware Tools\vmtoolsd.exe -n vmusr C:\Program Files\Windows Defender\MSASCuiL.exe
[*] HKCU:	\SOFTWARE\Microsoft\Windows\CurrentVersion\Run\ :
Executable Path	
OneDrive C:\Users	\User3\AppData\Local\Microsoft\OneDrive\OneDrive.exe /background

 WINSpect then confirmed that UAC was enabled, and that it should notify only when apps try to make changes, then checked the registry for autorun



## **QuickTest domain-joined machine**

📨 Administrator: Windows PowerSh	sell
[7] Checking for configurable	services
Name Path	
NetTcpPortSharing C:\WINDOWS\/	Microsoft.NET\Framework64\v4.0.30319\5M5vcHost.exe
[7] Checking for unquoted pat	h services
[-] Found no servic	e with unquoted pathname.
[?] Checking hosted services	(svchost.exe)
[-] Found no user h	osted services.
[?] Checking for DLL hijackab	
[7] Checking for Safe	
	Search is enabled !
	es in PATH environment variable
Directory	Writable
:\WINDOWS\system32 :\WINDOWS	False
:\WINDOW5\5ystem32\Wbem :\WINDOW5\5ystem32\WindowsPow	False werShell\v1.0\ False
[?] Checking for unattended in	
[-] No unattende	d install files were found.
[?] Checking scheduled tasks.	
TaskCommand : C:\Users\Us SecurityContext : JOINEDDOMAI	er3\AppData\Local\Microsoft\OneDrive\OneDriveStandaloneUpdater.exe N\User3
TaskCommand : SecurityContext : NT AUTHORIT	Y\SYSTEM
	A) EVETTIM
TaskCommand : SecurityContext : NT AUTHORIT	
SecurityContext : NT AUTHORIT TaskCommand :	
FaskCommand : SecurityContext : NT AUTHORIT TaskCommand : SecurityContext : NT AUTHORIT TaskCommand SecurityContext : NT AUTHORIT	Y\SYSTEM
SecurityContext : NT AUTHORIT TaskCommand : SecurityContext : NT AUTHORIT TaskCommand :	Y\SYSTEM

• WINSpect wrapped up with a quick check of configurable services, DLL Safe Search and no unattended install leftovers



#### References

Github

https://github.com/A-mIn3/WINspect/blob/master/README.md

